Naval Facilities Engineering Systems Command Hawaii

Quarterly Release Response Report, Red Hill Bulk Fuel Storage Facility

JBPHH, O‘ahu, Hawai‘i

DOH Facility ID No. 9-102271
DOH UST Release ID Nos. 140010, 210012
DOH HEER Release Incident Case Nos. 20210507-0852, 20211120-2330

March 15, 2024

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March 15, 2024

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Executive Summary

This Quarterly Release Response Report was prepared for Naval Facilities Engineering Systems Command, Hawaii by AECOM Technical Services, Inc. for the Red Hill Bulk Fuel Storage Facility (Facility) in accordance with the State of Hawai‘i Department of Health (DOH) Technical Guidance Manual for the Implementation of the Hawaii State Contingency Plan (DOH 2023). It presents results of soil vapor and groundwater monitoring conducted in accordance with the Consolidated Groundwater Sampling Program (DON 2023h) and the Groundwater Protection Plan Update – Defueling Revision (DON 2023m) to support defueling activities during the reporting period (October 14, 2023 to January 11, 2024). The groundwater data reporting also includes laboratory data for samples collected prior to this period that were finalized (validated) during this period.

This Quarterly Release Response Report continues reporting release response activities taken pursuant to Hawai‘i Administrative Rules Section 11-280.1 and DOH Notices of Interest for fuel releases from the Facility in January 2014, May 2021, and November 2021; and it now also incorporates reporting previously presented in quarterly groundwater Long-Term Monitoring Reports that were prepared pursuant to the Red Hill Groundwater Protection Plan (DON 2014b). In addition to documenting monitoring results, this report presents a plan for future release response actions to be taken.

Site characterization, removal, and remedial efforts conducted during this reporting period include:

- Continued soil vapor monitoring in the Facility tank farm, and in the Adit 3 and Pearl Harbor Tunnels
- Continued monitoring well free product gauging, groundwater monitoring well headspace measurements, and analysis of groundwater samples for COPCs, natural attenuation, and general chemistry parameters
- Continued groundwater sampling and analysis and expansion of the groundwater monitoring network
- Continued operation of the granular activated carbon (GAC) pump and treat system at Red Hill Shaft
- Site characterization planning activities for the Collection, Holding, and Transfer (CHT) Tank
- Remediation pilot test planning and installation activities

Results from this reporting period indicate the following:

- Soil vapor impacts associated with the January 2014, May 2021, and November 2021 Releases are decreasing over time, consistent with natural attenuation of light nonaqueous-phase liquid (LNAPL) in the environment.
- Groundwater concentrations for all contaminants appear to be declining or stable over time. All data collected to date demonstrate that groundwater impacts are undergoing natural attenuation, including biodegradation. Groundwater analytical detections and exceedances are summarized in Table ES-1.

Table ES-1: Summary of Analytical Detections and Exceedances in Groundwater, Current Reporting Period

Monitoring Location	COPC, Fuel Additive, or Lead Scavenger Detection Below Screening Criterion	Analyte Concentration Exceeding Screening Criterion
RHMW2254-01	TPH-g TPH-d (ND after SGC) TPH-o (ND after SGC)	None
RHMW01R	TPH-d (lower after SGC) TPH-o (ND after SGC) 1-Methylnaphthalene Naphthalene	TPH-o: 545 µg/L (screening criterion: 500 µg/L)
RHMW02	TPH-g TPH-d (lower after SGC) TPH-o (lower after SGC) Ethylbenzene Xylenes 1-Methylnaphthalene 2-Methylnaphthalene Naphthalene	TPH-d: 2,110; 1,190; 1,460; 1,850; 990; 1,170; 1,270; 1,390; 1,140; 1,300; 1,090; 1,270; 1,360; 1,500; 1,530; 1,480; 1,080; 1,110; 693; 835; 1,250; 1,210; 991; 1,100; 1,030; 1,110; 1,050; 1,080; 1,110; 942; and 912 µg/L (screening criterion: 400 µg/L) (below SSRBL: 4,500 µg/L)
RHMW03	TPH-d (ND after SGC) TPH-o (ND after SGC)	None
RHMW04	TPH-d (lower after SGC) TPH-o (lower after SGC)	None
RHMW05	TPH-d (ND after SGC)	None
RHMW08	TPH-d (ND after SGC) TPH-o (lower after SGC)	None
RHMW09	TPH-d (ND after SGC)	None
RHMW11-05	TPH-g	None
RHMW13-04	TPH-g TPH-d (ND after SGC) TPH-o (ND after SGC)	None
RHMW13-05	TPH-o (ND after SGC)	None
RHMW14-03	TPH-o (ND after SGC)	None
RHMW16	TPH-g Naphthalene	None
RHMW17	TPH-g TPH-d (ND after SGC) TPH-o (lower after SGC)	TPH-d: 1,040; 884 µg/L (screening criterion: 400 µg/L) TPH-o: 791; 687 µg/L (screening criterion: 500 µg/L)
RHMW18	TPH-d (lower after SGC) TPH-o (lower after SGC) Toluene	None
RHMW19	TPH-d (lower after SGC) TPH-o (lower after SGC)	None

Monitoring Location	COPC, Fuel Additive, or Lead Scavenger Detection Below Screening Criterion	Analyte Concentration Exceeding Screening Criterion
RHMW20	TPH-d (ND after SGC) TPH-o (lower after SGC)	None
RHP02	TPH-g TPH-d (ND after SGC) TPH-o (detected after SGC) Chrysene	None
RHP04A	TPH-g	None
RHP04B	TPH-d (ND after SGC) TPH-o (ND after SGC)	None
RHP04C	TPH-g	None
RHP05	TPH-g TPH-d (lower after SGC) TPH-o (lower after SGC)	None
RHP07	TPH-d (ND after SGC)	None
RHP08	TPH-g Chrysene	None
NMW25	TPH-g TPH-d (ND after SGC) TPH-o (lower after SGC)	None
NMW30	TPH-d (ND after SGC) TPH-o (ND after SGC) Toluene	None
NMW33	TPH-d (ND after SGC) TPH-o (ND after SGC)	None

µg/L micrograms per liter
COPC chemical of potential concern
ND non-detect
SGC silica gel cleanup
SSRBL Site-Specific Risk-Based Level
TPH-d total petroleum hydrocarbons – diesel range organics
TPH-o total petroleum hydrocarbons – residual oil range organics

In addition to the site characterization activities described in this report, the Navy has conducted fuel recovery efforts since December 2021, including use of absorbent materials, skimmers, direct recovery from piping, soil excavation, and operation of the GAC treatment system.

Planned future actions include:

- Continued soil vapor monitoring at sampling locations within the Facility tank farm, and in the Adit 3 and Pearl Harbor Tunnels near Red Hill Shaft
- Continued groundwater sampling from the Red Hill monitoring well network in accordance with the Consolidated Groundwater Sampling Program
- Installation of new groundwater monitoring wells

- Continued operation of the GAC pump and treat system at Red Hill Shaft
- Continued site characterization activities at CHT Tank and in the Adit 3 and Pearl Harbor Tunnels near Red Hill Shaft
- Conducting a remediation pilot test in the Adit 3 and Pearl Harbor Tunnels near Red Hill Shaft
- Additional removal or remedial actions, as appropriate

The Navy continues to expand the groundwater monitoring well network as part of plume delineation efforts. New sentinel well locations are being installed to monitor groundwater quality between Red Hill and offsite water supply wells. Activities and sampling of the JBPHH Water Distribution System (regulated by the DOH Safe Drinking Water Branch) and the November 29, 2022 aqueous film-forming foam release outside Adit 6 (being investigated separately) are not addressed in this Quarterly Release Response Report.

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Acronyms and Abbreviations

%	percent
%D	percent difference
%R	percent recovery
%RSD	percent relative standard deviation
°C	degree Celsius
µg/L	micrograms per liter
µg/m^3	micrograms per cubic meter
1MN	1-methylnaphthalene
2MN	2-methylnaphthalene
AOC	Administrative Order on Consent
AS	air sparging
bgs	below ground surface
BTEX	benzene, toluene, ethylbenzene, and xylenes
BWS	Board of Water Supply, City and County of Honolulu
CAS	Chemical Abstracts Service
CCV	continuing calibration verification
CF&T	contaminant fate and transport
CHT	collection, holding, and transfer
COPC	chemical of potential concern
CSM	conceptual site model
DEET	n,n-diethyl-3-methylbenzamide
DLA	Defense Logistics Agency
DoD	Department of Defense
DO	dissolved oxygen
DOC	dissolved organic carbon
DOH	Department of Health, State of Hawai‘i
DQI	data quality indicator
EAL	Environmental Action Level
EB	equipment blank
EDMS	Environmental Data Management System
Energy	Energy Laboratories, Inc.
EPA	Environmental Protection Agency, United States
Facility	Red Hill Bulk Fuel Storage Facility
FB	field blank
FD	field duplicate
ft	foot/feet
GAC	granular activated carbon
GW LTM	Groundwater Lont-Term Monitoring
GWPP	Groundwater Protection Plan
H_2SO_4	sulfuric acid
HCl	hydrochloric acid
HDPE	high-density polyethylene
HEER	Hazard Evaluation and Emergency Response
HNO_3	nitric acid
ICV	initial calibration verification
ID	identification
JBPHH	Joint Base Pearl Harbor-Hickam
JP	Jet Fuel Propellant
L	liter

LCS	laboratory control sample
LCSD	laboratory control sample duplicate
LNAPL	light nonaqueous-phase liquid
LOD	limit of detection
LOQ	limit of quantitation
LTM	long-term monitoring
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
mL	milliliter
MS	matrix spike
MSD	matrix spike duplicate
msl	mean sea level
N	naphthalene
N/A	not applicable
NAP	natural attenuation parameter
NAVFAC	Naval Facilities Engineering Systems Command
Navy	Department of the Navy, United States
ND	not detected
no.	number
NOI	Notice of Interest
NSZD	natural source-zone depletion
NVDOC	non-volatile dissolved organic carbon
OU	Operable Unit
oz.	ounce
PAH	polynuclear aromatic hydrocarbon
PFAS	per- and polyfluoroalkyl substances
PID	photoionization detector
ppbv	parts per billion by volume
ppmv	parts per million by volume
PVC	polyvinyl chloride
QC	quality control
RI	remedial investigation
ROV	remotely operated vehicle
RPD	relative percent difference
RRF	relative response factor
RRR	release response report
SDG	sample delivery group
SGC	silica gel cleanup
SIM	selected ion monitoring
SOP	standard operating procedure
SSRBL	Site-Specific Risk-Based Level
SVE	soil vapor extraction
SVMP	soil vapor monitoring point
SVOC	semivolatile organic compound
TGM	Technical Guidance Manual for the Implementation of the Hawaii State Contingency Plan
THM	trihalomethane
TMB	trimethylbenzene
TOC	total organic carbon
TPH	total petroleum hydrocarbons

TPH-d	total petroleum hydrocarbons – diesel range organics
TPH-g	total petroleum hydrocarbons – gasoline range organics
TPH-o	total petroleum hydrocarbons – residual oil range organics
U.S.	United States
UST	underground storage tank
VOA	volatile organic analysis
VOC	volatile organic compound
WP	work plan

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1.0 Introduction and Purpose

This Quarterly Release Response Report (RRR) presents soil vapor results collected and groundwater results validated during the current reporting period of October 14, 2023 to January 11, 2024 for monitoring locations at the Red Hill Bulk Fuel Storage Facility ("Facility"), Joint Base Pearl Harbor-Hickam, O'ahu, Hawai'i. In concert with the Consolidated Groundwater Sampling Program (DON 2023h), this report series now includes monitoring results previously reported in separate quarterly long-term groundwater monitoring reports that were prepared pursuant to the Red Hill *Groundwater Protection Plan* [GWPP] (DON 2014b); that report series is now discontinued. This report also presents results of increased monitoring conducted in support of tank defueling activities during the reporting period

Release response efforts documented herein were conducted for the following petroleum releases to the environment at the Facility (release locations are shown on Figure 1):

- **January 2014 Release:** On January 23, 2014, the Navy reported to the State of Hawai'I Department of Health (DOH) a release of an estimated 27,000 gallons of Jet Fuel Propellant (JP)-8 from one of the Facility's underground fuel storage tanks (Tank 5). The release occurred when placing the tank back in service following a 3-year inspection and refurbishment process completed in December 2013.
- **May 2021 Release:** On May 6, 2021, a JP-5 pipeline near Facility Tanks 18 and 20 was damaged during a fuel transfer procedure. Fuel was released to the lower access tunnel floor, and fuel was recovered shortly after the event. It was later determined that some of the fuel entered soil vapor monitoring boreholes, which are in contact with the surrounding basalt, and some of the fuel was pumped from the fire suppression retention system into the fire suppression recovery drain line. The fuel remained contained in the fire suppression recovery drain line until it was damaged on November 20, 2021.
- **November 2021 Release:** On November 20, 2021, fuel in the fire suppression recovery drain line was released into the Adit 3 Tunnel, traveled on the concrete tunnel floor toward the adit portal, and collected in a sump (Adit 3 Sump) and a sanitary sewer sump near the Adit 3 entranceway. Fuel that entered the Adit 3 Sump was either recovered, released to the subsurface adjacent to the sump, or pumped from the sump to an underground Holding Tank and Leach Tank system outside the Adit 3 portal, where it was released to the subsurface. Fuel that entered the sanitary sewer sump was pumped to an aboveground Collection, Holding, and Transfer (CHT) Tank system outside the Adit 3 portal, which overflowed during heavy rains to the surrounding asphalt-covered work area in January 2022. The remainder of the fuel entered the subsurface (soil or volcanic bedrock) near United States (U.S.) Department of the Navy (Navy) Well 2254-01 (Red Hill Shaft). Some of the fuel entered the Joint Base Pearl Harbor-Hickam (JBPHH) Water Distribution System. Red Hill Shaft ceased pumping on November 28, 2021 and was isolated from the JBPHH Water Distribution System. Release response activities have been conducted at the Facility since the May 2021 Release and are ongoing.

The reporting includes laboratory data that were finalized (validated) during this period, not necessarily from samples collected during this period, due to the lag between sample collection and validation. Specifically, as required by Hawai'i Administrative Rules Section 11-280.1-65.2, this report describes:

- All response actions (investigation, removal, and remediation activities) taken during the current quarterly reporting period
- A plan for future release response actions to be taken

This report summarizes the following activities conducted during this reporting period:

- Continued soil vapor monitoring in the Facility tank farm, and in the Adit 3 and Pearl Harbor Tunnels
- Continued monitoring well free product gauging, groundwater monitoring well headspace, and purge water natural chemistry parameters
- Continued groundwater sampling and analysis and expansion of the groundwater monitoring network
- Continued operation of the granular activated carbon (GAC) pump and treat system at Red Hill Shaft
- Continued Adit 3 and Pearl Harbor Tunnel site characterization activities
- Continued CHT Tank site characterization investigation planning activities
- Continued remediation and treatability study pilot test planning activities

This report presents field observations and final analytical results available through this reporting period, including:

- Results from soil vapor field measurements using photoionization detectors (PIDs)
- Results from a fixed-based laboratory for soil vapor passivated canister samples
- Results from monitoring well free product gauging and measurements of headspace, water levels, and groundwater parameters
- Laboratory results for groundwater samples

Separate reporting has been provided to the Regulatory Agencies (DOH and the U.S. Environmental Protection Agency [EPA]) for investigations conducted at the Adit 3 and Pearl Harbor Tunnel area, the Holding Tank and Leach Tank area, and the CHT Tank area, as summarized in Section 3.0.

In addition to the activities described in this report, the Navy has conducted fuel recovery efforts since December 2021 and is continuing operation of the GAC pump and treat system at Red Hill Shaft, which began in January 2022. Fuel recovery efforts include the use of sorbent materials, skimmers, direct recovery from piping, and soil excavation. In addition, pumping of Red Hill Shaft will continue to remove any dissolved constituents that are captured by pumping in the vicinity of Red Hill Shaft, as described in the Red Hill Shaft Recovery and Monitoring Plan (IDWST 2022).

Activities and sampling of the JBPHH Water Distribution System (regulated by the DOH Safe Drinking Water Branch) and the November 29, 2022 aqueous film-forming foam release outside Adit 6 (being investigated separately) are not addressed in this report.

(b) (3) (A)

Figure 1
Location of Releases and
Groundwater Monitoring Wells
Consolidated Quarterly Monitoring Report
Red Hill Bulk Fuel Storage Facility
JBPHH, O'ahu, Hawai'i

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1.1 Statement of Purpose

Quarterly groundwater monitoring was conducted pursuant to the Red Hill *Groundwater Protection Plan* [GWPP] (DON 2014b) and in response to the Notices of Interest (NOIs) issued by DOH for the January 2014, May 2021, and November 2021 Releases. Groundwater sampling was conducted in accordance with the May 2023 memorandum *Consolidation and Optimization of the Groundwater Sampling Programs, Red Hill Bulk Fuel Storage Facility* memorandum (DON 2023h), which unified multiple groundwater monitoring efforts at Red Hill under a single Groundwater Sampling Program beginning in June 2023.

The purpose of the monitoring is assess the condition of groundwater beneath the Facility and to ensure that the United States Department of the Navy remains in compliance with DOH Underground Storage Tank release response requirements as described in Hawai‘i Administrative Rules Chapter 11-280.1, Subchapter 6, Release Response Action. DOH Identification (ID) and case numbers (nos.) for the Facility fuel releases are as follows:

- DOH Facility ID No. is 9-102271.
- DOH Release ID Nos. are 990051, 010011, 020028, 140010, and 210012.
- DOH Hazard Evaluation and Emergency Response (HEER) Release Incident Case Nos. are 20210507-0852 (May 10, 2021) 2021 (DOH 2021a) and 20211120-2330 (November 24, 2021) (DOH 2021c).
- DOH Underground Storage Tank (UST) Release ID No. is 210012 (DOH 2021b).

1.2 Previous Reports

Documentation of previous Red Hill environmental investigations is presented in Section 2.5; release response-related reports are listed in prior Quarterly RRRs.

2.0 Background

Groundwater Protection Plan (GWPP). The Red Hill GWPP (DON 2008b; 2014b) presents an integrated strategy to manage risks associated with potential inadvertent fuel releases from the tanks by implementing detection and mitigation measures. The Navy first developed the GWPP in 2008 at DOH's request after previous environmental investigations (DON 1999; 2002; 2007) showed impact to the environment by petroleum hydrocarbons. Its provisions include conducting soil vapor monitoring under the fuel storage tanks and long-term monitoring (LTM) of groundwater. Soil vapor concentrations have been measured monthly since 2008, and groundwater samples have been collected and analyzed at least quarterly since 2005; results have been reported to DOH on a quarterly basis.

Generally, the GWPP is slated for updating every 5 years. An update specific to tank defueling activities was published in September 2023 (DON 2023m).

January 2014 Release. During Tank 5 refilling operations in January 2014 following a routine 3-year tank inspection and refurbishment process, a release of approximately 27,000 gallons of JP-8 fuel was confirmed and reported to DOH on January 23, 2014 (Figure 1). During that month, a fuel hydrocarbon seep was observed on a tunnel wall below Tank 5, and soil vapor monitoring points (SVMPs) installed beneath Tank 5 exhibited a sharp increase in hydrocarbon vapor concentrations. Subsequent analyses indicated that the causes of the release were defective workmanship in welding by the tank refurbishment contractor, poor inspection, and ineffective quality control (QC). The release resulted in EPA, DOH, the Navy, and Defense Logistics Agency (DLA) agreeing to the Red Hill AOC in September 2015 (EPA Region 9 and DOH 2015). The AOC provides for the performance by the Navy of a release assessment, response(s) to release(s), and

actions to minimize the threat of future releases in connection with the field-constructed bulk fuel underground fuel storage tanks, surge tanks, pumps, and associated piping, and on any property that may be affected now or in the future by petroleum or other substances released from the Facility.

May 2021 Release. On May 6, 2021, Navy personnel responded to a reported release of fuel from a distribution pipeline inside the Facility in the vicinity of Tanks 17, 18, 19, and 20 (Figure 1). The Navy notified DOH of the release within 24 hours and provided DOH preliminary findings of the ongoing investigation on October 1, 2021, indicating that JP-5 fuel was released during a fuel transfer and that there were no leaks from any fuel tanks. The Navy recovered JP-5 fuel from the tunnel drain system and then performed a complete wash down of the area with fresh water on May 7, 2021 (DON 2021e). It was later determined that some SVMP vaults on the tunnel floor near the May 2021 Release and a fire suppression drain line were impacted by fuel, and the below-tank SVMPs exhibited elevated organic vapor concentrations on field instruments (PIDs).

November 2021 Release. On November 20, 2021, a release of JP-5 fuel occurred in the Adit 3 Tunnel of the Facility (Figure 1). JP-5 fuel was released from an overhead 14-inch polyvinyl chloride (PVC) fire suppression recovery drain line at a location approximately 400 feet (ft) east of the Red Hill Shaft water supply pumping station and approximately 200 ft east of the junction with the Pearl Harbor Tunnel. The release point is in proximity to the supply well's underlying water development tunnel that extends greater than 1,200 ft east-southeast of the pumping station at an elevation of approximately 0–20 ft above mean sea level (msl).

Released fuel flowed westward along the Adit 3 Tunnel floor past the junction with the Pearl Harbor Tunnel and Red Hill Shaft. Fuel accumulated in two sumps (Adit 3 Sump and a sanitary sewer sump) approximately 750 ft west of the November 2021 Release point (Figure 2). JP-5 fuel was recovered from the Adit 3 Sump, connected piping, the fire suppression recovery drain line, and the Holding Tank/Leach Tank area including subsurface soil. JP-5 fuel was also recovered from the sanitary sewer sump and the CHT Tank, which was fed by a pump in the sanitary sewer sump.

The November 2021 Release released fuel to the environment via natural and manmade penetrations through the concrete tunnel floor, and from fuel that accumulated in the Adit 3 Sump and fuel that was inadvertently pumped from the Adit 3 Sump and sanitary sewer sump to the Holding Tank and Leach Tank and the CHT Tank. Fuel was also observed in the water development tunnel of Red Hill Shaft. Upon confirmation that a fuel-like odor was present in drinking water in homes served by Red Hill Shaft, the supply well was shut off and isolated from the JBPHH Water Distribution System on November 28, 2021.

Figure 2: Adit 3 and Pearl Harbor Tunnel Layout Map

2.1 Site Description

The 144-acre underground fuel storage Facility is located in south-central Oʻahu approximately 2–3 miles east of Pearl Harbor, within the Red Hill ridge that divides South Hālawa Valley from Moanalua Valley on the southwest flank of Oʻahu's Koʻolau mountain range (Figure 1). The Facility's twenty fuel storage tanks were used to store and supply fuel for military operations in Hawaiʻi and throughout the Pacific. The tank bottoms and fuel lines/tunnels are situated approximately 100–130 ft above an underlying basal aquifer that is a major municipal and military drinking water source.

2.1.1 Climate

Climatological conditions in the vicinity of the Facility consist of warm to moderate temperatures and low to moderate rainfall. The average annual precipitation is approximately 40 inches, which occurs mainly between November and April (Giambelluca, Nullet, and Schroeder 1986). Average temperatures range from the low 60s to high 80s (degrees Fahrenheit) (Juvik and Juvik 1998).

2.1.2 Soils and Geology

The Facility is located within the Koʻolau Volcanic series. The Koʻolau formation at Red Hill consists of basaltic lava flows that erupted from a fissure line approaching 30 miles in length and trending in a northwest rift zone (Wentworth and Macdonald 1953). Pāhoehoe and aʻā lava flows are present in the Koʻolau formation. The valleys on either side of the Red Hill ridge were formed as a result of fluvial erosion and are filled with sedimentary deposits (alluvium and colluvium), also known as valley fill, underlain by weathered basalt, also known as saprolite. Saprolite zones in Hawaiʻi are typically around 75 ft thick but can be 300 ft thick or greater beneath the valley floors or in areas of high precipitation (Hunt Jr. 1996;

Macdonald, Abbott, and Peterson 1983) The results of a recently conducted seismic survey in North and South Hālawa Valleys, Red Hill, and Moanalua Valley (DON 2018d) found that valley fill and saprolite extend much deeper in the valleys surrounding Red Hill, particularly in the center of the valleys and below the streambeds.

Soils in the vicinity of the Facility are mapped as Helemano-Wahiawā association consisting of well drained, moderately fine-textured and fine-textured soils (USDA SCS 1972). The surfaces of the basaltic flows have been weathered to form reddish-brown clayey silt, which is the basis for the local name "Red Hill." These soils typically range from nearly level to moderately sloping and occur in broad areas dissected by very steep gulches. They formed in material weathered from basalt to a depth of approximately 10 ft below ground surface (bgs). Along the slopes, the basaltic bedrock is covered with approximately 10–30 ft of Koʻolau residuum. These soils were derived from weathering of the underlying basalt bedrock or were deposited as alluvium/colluvium. The younger alluvium/colluvium deposits were derived from fractured basalts and tuff. Beneath the surficial soils, alternating layers of clay and basalts are encountered at depth. The northwestern slope of Red Hill is generally barren of soil and consists of outcropping basalt lava flows to the valley floor.

2.1.3 Surface Water

Surface water features in the general vicinity of the Facility include South Hālawa Stream (an ephemeral stream approximately 600–800 ft north of the tanks), North Hālawa Stream (approximately 4,000–4,500 ft northwest of the tanks), and Moanalua Stream (approximately 1,700–2,000 ft south of the tanks). Potential recharge (run-on and operational water use) from the Hālawa Quarry north of the Facility may also impact groundwater flow in this area. Groundwater that flows beneath the Facility does not intercept surface water inland of the ocean shoreline (DON 2007). Both South Hālawa Stream and Moanalua Stream (to the north and south of the Red Hill ridge, respectively) are located approximately 170 ft or more above the basal water table in the vicinity of the tanks. The bottoms of the Facility's fuel storage tanks are located at least 50 ft below the bottom of these streams. In the vicinity of Adit 3 and the November 2021 Release, South Hālawa Stream may be fed by the perched water system during the rainy season, although this has not been confirmed.

2.1.4 Groundwater

In the vicinity of Red Hill, the basal aquifer water table lies between 15 and 20 ft above msl. Regionally, groundwater flows toward Pearl Harbor (mauka to makai) (Hunt Jr. 1996; Izuka and Rotzoll 2023), although potential exists for variability in localized flow directions depending on geologic formations and other factors. In Hālawa Valley, streamflow may contribute water to perched groundwater within alluvial material (valley fill), but South Hālawa Stream is likely a losing stream to the underlying basal aquifer. Most precipitation percolates to the basal aquifer and does not maintain base flows in the streams (Izuka 1992)

The Facility is located at the administrative boundary between the Waimalu Aquifer System of the Pearl Harbor Aquifer Sector and the Moanalua Aquifer System of the Honolulu Aquifer Sector. The underlying aquifer is classified as a basal, unconfined, flank-type aquifer and is currently used as a drinking water source.

The Facility is located upgradient of the Hawaii State Underground Injection Control Line, which separates potable groundwater from non-potable groundwater. The drinking water supply well closest to the Red Hill tank farm is Navy Well 2254-01 (Red Hill Shaft), located within the Facility's lower access tunnel approximately 2,600 ft west of the nearest fuel storage tank. Red Hill Shaft formerly provided potable water to the JBPHH Water Distribution System, which serves approximately 65,200 military customers; the

potable water is now supplied by Waiawa Shaft, located approximately 5.4 miles west of the Facility. Naval Facilities Engineering Systems Command (NAVFAC), Hawaii, Utilities Management Division operates the drinking water system. The nearest Honolulu Board of Water Supply (BWS) public drinking water supply well (BWS Hālawa Shaft Well 2354-01; currently inactive) is located hydraulically cross-gradient of the Facility approximately 4,400 ft northwest of the fuel storage tanks, within the basal aquifer.

2.2 Historical Land Use

Prior to construction of the tank farm, the surface of Red Hill supported sugar cane and pineapple agriculture. Navy archive images show that the Red Hill ground surface was exposed and modified during construction of the tank farm beginning in 1940. A 1952 aerial photograph shows unmaintained land on the Red Hill ridge and agriculture on the lower reaches of Red Hill north of the Moanalua Golf Course (DON 2019b).

2.3 Current Land Use

The Facility is located on land zoned by the City and County of Honolulu as a mix of F-1 Federal and Military and P-1 Restricted Preservation districts. All major structures at the Facility are located underground. Populated areas closest to the Facility are ʻAiea to the west and Honolulu to the south and east. Honolulu is heavily urbanized and densely populated.

Preservation land is located east and northeast of the Facility boundary. To the southeast are residential single-family homes in Moanalua Valley; a high cliff face with a 100–200 ft elevation difference exists between the Facility and this residential area. Southwest of the tank farm area on the lower southwest flank of Red Hill are the public Red Hill Elementary School and residential apartments, and further west is U.S. Army Housing on F-1 Military land. North of the western segment of the Facility boundary in South Hālawa Valley is the State Animal Quarantine Station, private businesses in Hālawa Industrial Park, and the State-operated Hālawa Correctional Facility. To the north of the Correctional Facility at the lower reaches of an inter-valley ridge that forms the north wall of South Hālawa Valley is the open-pit Hālawa Quarry operated by the Hawaiian Cement Company.

As shown on Figure 1, the H-201 Moanalua Freeway transits approximately 350–700 ft beyond the Facility's southwest boundary and intersects with the H-1 and H-3 Freeways at the Hālawa Interchange, approximately 1,800 ft west of the Facility. The H-3 Freeway transits northeast from the interchange through North Hālawa Valley and on to Oʻahu's windward side.

2.4 Conceptual Site Model

2.4.1 Facility Construction and Operations

The Facility's 20 bulk fuel storage tanks were field-constructed of steel-lined concrete in the early 1940s. They were connected to a fuel pumping station at Pearl Harbor via a tunnel system. The Facility was operated by Naval Supply Systems Command Fleet Logistics Center Pearl Harbor (formerly Fleet and Industrial Supply Center). Each fuel tank has a total capacity of approximately 12.5 million gallons. The 14 most recently active bulk fuel storage tanks stored either JP-5, North Atlantic Treaty Organization-grade F-24 jet fuel, or F-76 marine diesel fuel. All tanks and associated piping are currently undergoing the final stages of defueling (DoD 2022) prior to Facility closure.

2.4.2 Subsurface Conditions

The Facility's bulk fuel storage tanks are surrounded by rock in the vadose (i.e., unsaturated) zone, which consists primarily of basalt flows in complex, alternating layers. These heterogeneous layers vary from extremely high to extremely low permeability, with a corresponding ability to transmit and hold liquid

petroleum hydrocarbon fuels (light nonaqueous-phase liquid [LNAPL]; i.e., free product) depending on the layer's rock type and micro-pore structure (i.e., high transmissivity in highly permeable a‘ā, thin pāhoehoe flows, and a‘ā clinker zones; low transmissivity in massive a‘ā and massive pāhoehoe flows). Geologic and water saturation characteristics in the rock surrounding the tanks could cause LNAPL to spread as it moves through the rock. As LNAPL moves through the larger pore spaces, some of it could be trapped in poorly connected fractures and blocked by nearby low-permeability regions or by surface tension and capillary forces of moisture, including water held in the smaller pores. The potential presence of intact lava tubes might serve as preferential pathways and conduits for LNAPL migration.

Hawaiian volcanic rocks vary in porosity and permeability depending on the emplacement process, lava type, genesis, flow thickness, flow rate, extent, cooling rate, and weathering. Permeability is typically highest in the relatively thick, unweathered, rubbly a‘ā clinker zones and intensely fractured zones or lava tubes of pāhoehoe flows. Permeability is much lower in the interior portions of massive flows, weathered interflows, intrusive rocks (dikes and sills), ash beds, and weathered rocks (saprolite) and soil horizons, which can impede both vertical and horizontal flows across valleys. Generally, the bulk vertical permeability of the basalt is orders of magnitude lower than the bulk horizontal permeability. Horizontal permeability is generally higher in the direction that the lava flowed than in the transverse direction.

Groundwater flow and solute transport are controlled by both the hydraulic conditions (e.g., gradients) and the physical properties of the hydrogeologic units, including hydraulic conductivity, effective porosity, specific yield, specific storage, anisotropy, and dispersivity, all of which can vary significantly under the highly heterogeneous conditions present at the site.

Fresh groundwater inflow originates as deep infiltration of precipitation and seepage from surface water features. According to the U.S. Geological Survey, estimates of recharge for O‘ahu for recent conditions (2010 land cover and 1978–2007 rainfall) differ from predevelopment recharge values by only a few percent (Izuka et al. 2018). Spatial distribution of recharge mimics the orographic rainfall pattern; recharge is highest on windward slopes and mountain peaks below the top of the tradewind inversion.

Groundwater outflow includes withdrawals from wells and natural groundwater discharge to springs, streams, wetlands, and submarine seeps. Data collected by the U.S. Geological Survey for groundwater levels, saltwater/freshwater interface, spring flow, and stream base-flow indicate an overall reduction in aquifer storage for most areas where groundwater has been extracted; this has caused groundwater levels to decline (Izuka et al. 2018).

Regional groundwater levels decrease from areas of recharge in the higher elevation rainforest (mauka) to areas of discharge along the coast (makai) (Hunt Jr. 1996). Locally, water level gradients are extremely low and are influenced by geologic conditions, as well as by variability in local pumping stresses from water development shafts and wells.

2.4.3 Exposure Model

Potentially contaminated media are tunnel air; surface and near-surface materials associated with the CHT Tank and Holding Tank/Leach Tank; unconsolidated materials, volcanic rock, and soil/rock vapor surrounding the tanks and tunnel; groundwater beneath the Facility, which has the potential to migrate off site; and offsite surface water where groundwater may discharge. Human receptors that may potentially contact onsite or offsite Facility-impacted media are Facility occupational workers, construction workers, visitors, and offsite residents. Among the potentially complete exposure pathways identified, the primary pathway of concern for offsite human receptors is exposure to impacted tap water via direct ingestion and dermal contact, and inhalation while showering and bathing. Animals and vegetation may also be exposed to tap water as pets or from irrigation. Exposure by ecological receptors is considered incomplete or

insignificant (DON 2019b). However, at the CHT Tank area of concern, where fuel may have been released to the ground surface, animals and vegetation may be exposed via direct contact. A CHT Tank Investigation is currently in the planning stages (see Section 3.5).

2.5 Previous Facility Investigations

Previous environmental investigations at the Facility are summarized in Table 2-1.

Table 2-1: Summary of Previous Red Hill Environmental Investigations

Investigation Report	Summary
Remedial Investigation Phase I and II, Red Hill Oily Waste Disposal Facility (DON 1996; 2000)	A two-phase RI was initiated in the early 1990s at the Red Hill Oily Waste Disposal Facility. No contaminants were detected in the basal aquifer beneath the site, and DOH issued a concurrence letter for a No Further Action determination in 2005 (DOH 2005).
Facility Site Characterization and Investigation (DON 1999, 2002)	A two-phase investigation initiated in 1998 evaluated the presence of petroleum constituents at the Facility. DOH requested the Navy to conduct quarterly groundwater monitoring, conduct a Tier 3 risk assessment, and develop a contingency plan.
Quarterly Groundwater Monitoring Reports (DON 2005 to present)	Sampling and analysis of Red Hill network groundwater monitoring wells were initiated in 2005 and incorporated into the Red Hill GWPP (DON 2008b; 2014b); results are reported to DOH.
Technical Report (DON 2007)	An environmental investigation and risk assessment initiated in 2004 included installation of SVMPs in angle borings under the active fuel storage tanks, three additional groundwater monitoring wells in the lower access tunnel, a three-dimensional groundwater model, and a Tier 3 human health risk assessment.
Tank 17 Removal Action Report (DON 2008c)	Documented results of a limited removal action and site characterization investigation conducted in June 2008 in response to a 4-gallon release of JP-5 fuel from tunnel piping; the report's Environmental Hazard Analysis determined that the release posed no further significant environmental hazards.
Type 1 Letter Report (DON 2010)	A 2010 investigation re-evaluated the DON (2007) groundwater model assumptions and results, as well as the Tier 3 risk assessment results.
Monthly Soil Vapor Monitoring Reports (DON 2008a)	Soil vapor PID measurements are collected monthly under the Facility's fuel storage tanks with SVMPs in accordance with the Red Hill GWPP (DON 2008a; 2014b); results are reported to DOH.
Tank 5 Initial and Quarterly Release Response Reports (DON 2014a to December 2022)	Documented the results of release response efforts for the Tank 5 January 2014 Release.
Seismic Profiling to Map Hydrostratigraphy in the Red Hill Area (DON 2018d)	Presented results and evaluation of nine seismic profiling transects conducted at Red Hill and in North and South Hālawa Valleys and Moanalua Valley to improve understanding of subsurface conditions that affect groundwater flow and CF&T.

Investigation Report	Summary
Groundwater Protection and Evaluation Considerations for the Red Hill Bulk Fuel Storage Facility (DON 2018g)	Presented an interim analysis of environmental data and potential environmental risks; interim results of the groundwater flow model; and an evaluation of hypothetical release scenarios.
Conceptual Site Model (DON 2018f; 2019b)	Established a basis for evaluating contaminant transport pathways and potential for exposure of human receptors to potentially impacted drinking water.
Groundwater Flow Model Report (DON 2020a)	Refined the previous groundwater flow model to improve understanding of the direction and rate of groundwater flow within the aquifers around the Facility.
Investigation and Remediation of Releases Report (DON 2020b)	Documented the response to the January 2014 Tank 5 release and evaluated potential remedial alternatives for that release and any potential future release.
Evaluation of Chromatograms for Understanding TPH Detections in Monitoring Wells (DON 2020c)	Provided an evaluation of TPH detections in monitoring wells to determine whether those detections are indicative of potential fuel impacts from the Facility.
Initial and Quarterly Release Response Reports, Pipeline Breach in Tunnel and Fire Suppression Drain Line (DON 2021c; 2021d; 2021f; 2022c; 2022d; 2022f; 2022h)	Documented the quarterly results of release response efforts for the May 6, 2021 Tunnel Pipeline Breach and the November 20, 2021 Fire Suppression Recovery Drain Line releases.
Phase 1 and *Phase 2 Technical Memoranda, Holding Tank and Leach Tank Characterization, November 2021 Pipeline Release* (DON 2022b; 2023j)	Presented preliminary results of a two-phase site characterization effort at the Holding Tank and Leach Tank area outside Adit 3.
Quarterly Release Response Reports, Red Hill Bulk Fuel Storage Facility (DON 2022k; 2023f; 2023i; 2023k; 2023p)	Documented the combined quarterly results of release response efforts for the January 2014, May 2021, and November 2021 releases.
Technical Memorandum: In-Progress Data Report, Adit 3 Site Characterization (DON 2023e)	Presented in-progress results of the Adit 3 site characterization effort.
Draft Site Characterization Report, November 2021 JP-5 Release in Adit 3, Operable Unit 1 (DON 2023g)	Presented draft results of the Adit 3 site characterization effort for the shallow vadose zone (Operable Unit 1 [OU-1]).
Final Report of Findings, Red Hill Shaft Flow Optimization Study (DON 2023l)	Presented results of a study to determine optimized pumping rates of Red Hill Shaft groundwater through the GAC system installed outside Adit 3.

CF&T	contaminant fate and transport
RI	remedial investigation
TPH	total petroleum hydrocarbons

3.0 Summary of Investigation History

Investigation activities associated with the January 2014 Release began in 2014 and have continued under the AOC since it was signed in 2015.

Investigation activities in response to the May 2021 Release began on May 10, 2021 and included soil vapor, groundwater, and drinking water monitoring and free product gauging and headspace measurements. Following the November 2021 Release, site characterization and investigation efforts were expanded to include investigations of the Adit 3 and Pearl Harbor Tunnels, the Holding Tank and Leach Tank area and the CHT Tank area outside Adit 3, video inspection of the Red Hill Shaft water development tunnel, single-event groundwater sampling at two non-network monitoring wells on the Moanalua Valley side of Red Hill, and pilot and bench-scale tests currently being planned to evaluate potential technologies for remediating the November 2021 Release, as described below.

3.1 AOC Release Response Activities

Continuing release response activities for the January 2014 Release at Tank 5 under the Red Hill AOC include soil vapor and groundwater sampling, analysis, evaluation, and reporting; installation of additional groundwater monitoring wells; geologic mapping; forensic analyses; and groundwater modeling.

Installation of monitoring well RHMW17 was originally planned as part of the AOC response prior to the May and November 2021 Releases. Notification was provided to the Regulatory Agencies regarding the potential for subsurface contamination related to a former slop tank in the vicinity of the RHMW17 drilling location. During drilling, soil and perched groundwater contamination was encountered. Notifications, data, and correspondence via email and meetings with DOH, EPA, and the Hawai‘i Department of Land and Natural Resources Commission on Water Resource Management were provided regarding characterization of the shallow soil contamination and completion of RHMW17; the last meeting was held March 21, 2022. Installation of RHMW17 was completed in June 2022.

3.2 Release Response Activities

Investigation activities in response to the May 2021 Release began on May 10, 2021 with a site assessment that included soil vapor PID field measurements and laboratory sample collection and analysis, free product gauging and headspace measurements in groundwater monitoring wells, and groundwater sampling and analysis.

Soil Vapor Monitoring. Soil vapor monitoring currently includes weekly collection of soil vapor PID readings from probes at Tank 2 through 18 and Tank 20 (Figure 3). Passivated canister samples for laboratory analysis are collected at least monthly at SVMP probes SV15S, SV15D, SV17S, SV17D, SV18S, SV18D, SV20M, and SV20D.

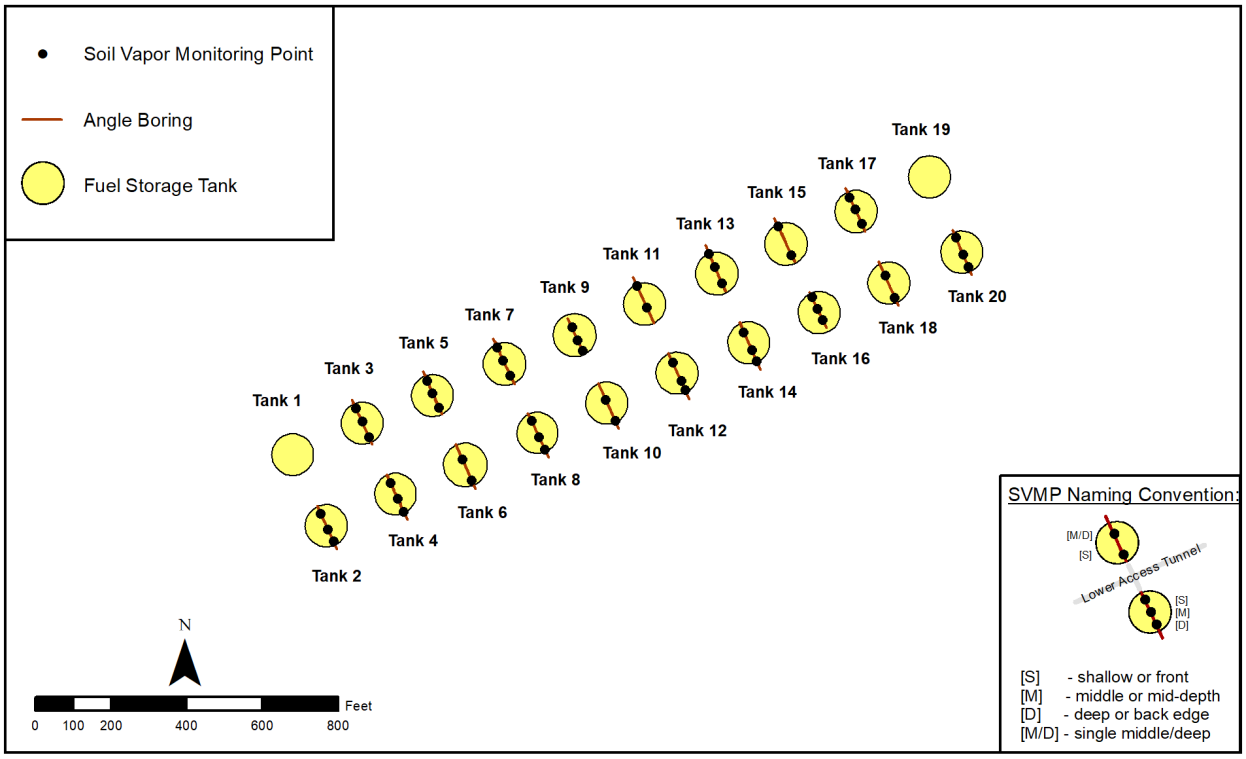

Figure 3: Soil Vapor Monitoring Network Below the Red Hill Fuel Storage Tanks

Free Product Gauging and Headspace Measurements. Free product gauging and headspace measurements were collected as part of the prior NOI and current Consolidated Groundwater Sampling Program (DON 2023h). Free product has never been detected in any monitoring well other than Red Hill Shaft and temporary wells screened in the shallow perched water zone beneath the Adit 3 Tunnel floor adjacent to the shaft.

Groundwater Monitoring. Groundwater samples were initially collected from RHMW01R, RHMW02, and RHMW03 beginning in May 2021 (Figure 1). The collection of drinking water samples at the pre-chlorination spigot in conjunction with groundwater sampling began in June 2021. The number of groundwater sampling locations was increased to include RHMW05 and RHMW2254-01 in September 2021 following the detection of TPH-diesel range organics (TPH-d) and TPH-residual oil range organics (TPH-o) in the Red Hill Shaft pre-chlorination samples, including detections of TPH-o above the DOH Environmental Action Level (EAL) that occurred in August and September 2021.

Following the November 2021 Release, the December 2021 NOI *Groundwater Sampling Plan* was prepared (IDWST 2022, Exhibit C), and the number of groundwater sampling locations was further expanded in December 2021 and January 2022 to include weekly sampling at additional existing groundwater monitoring wells identified in the plan, along with sump water sampling from the Adit 3 Sump. Installation of RHMW18 and RHMW20 was completed in December 2023 and June 2023, respectively.

Delineation Wells. Ten "RHP" delineation wells were installed during 2022–2023 at locations shown on Figure 1 to evaluate groundwater conditions in the vicinity of Red Hill Shaft and delineate the extent of contamination extending from the November 2021 Release in the Adit 3 Tunnel. In addition, these wells are used to evaluate groundwater flow and the effect of pumping Red Hill Shaft on the local hydraulic gradient and evaluate whether contamination is migrating from the site toward potential offsite receptors.

The delineation wells are screened across the basal aquifer water table except for RHP04B and RHP04C, which have screens at approximately -140 ft msl and -340 ft msl, respectively, designed to monitor deeper chloride concentrations associated with the saltwater/freshwater interface. Details on delineation well installation and construction and water quality data are uploaded to the JBPHH Red Hill Bulk Fuel Storage Facility Environmental Data Management System (EDMS) (see Appendix E – Groundwater Monitoring Well Installation Data) and are reported as they are acquired.

Sentinel Wells. Installation of "NMW" sentinel wells continues as part of expanding the groundwater monitoring network following the November 2021 Release, with completion and sampling of NMW24 in 2022 and NMW25, NMW30, NMW32, and NMW33 in 2023 (see Figure 1). NMW26 is currently under construction.

The Navy provided a *Draft Monitoring Well Installation Work Plan* to the Regulatory Agencies for review on January 31, 2024 that documented the current proposed approach for installing new groundwater monitoring wells within and in the vicinity of the Facility (DON 2024).

Drinking Water Sampling. Drinking water sampling was conducted at Red Hill Shaft as part of the Release Response effort for the November 2021 Release until December 2021, when Red Hill Shaft was disconnected from the JBPHH Water Distribution System. Ongoing drinking water sampling and analysis continue under a separate program and are therefore not described in this Quarterly Release Response Report.

Changes to Groundwater Sampling Program. The Navy initially described modifications to the Red Hill groundwater sampling and analysis program to the Regulatory Agencies in a May 18, 2023 memorandum titled *Consolidation and Optimization of the Groundwater Sampling Programs, Red Hill Bulk Fuel Storage Facility* (DON 2023h). This memorandum integrated all Red Hill groundwater sampling programs into a single program, revised the analyte list, optimized the sampling frequency, specified free product gauging and PID headspace measurements, and standardized sample collection methodology to low-flow purging. Monthly sampling under the Consolidated Groundwater Sampling Program began in June 2023 (DON 2023h).

Groundwater monitoring locations in the current Consolidated Well Network are listed in Table 3-1, and monitoring zones for each of the four multilevel wells are described in Table 3-2.

Table 3-1: Current Red Hill Consolidated Groundwater Sampling Program Monitoring Well Network

Location ID	Type	Location	Year Installed	Approximate Closest Distance to South Hālawa Stream (meters)
RHMW2254-01 [a]	Sampling Point	Inside Facility boundary	2005	85
RHMW01R	Single Screen	Inside Facility boundary	2021	232
RHMW02	Single Screen	Inside Facility boundary	2005	299
RHMW03	Single Screen	Inside Facility boundary	2005	271
RHMW04	Single Screen	Inside Facility boundary	2005	81

Location ID	Type	Location	Year Installed	Approximate Closest Distance to South Hālawa Stream (meters)
RHMW05	Single Screen	Inside Facility boundary	2009	225
RHMW06	Single Screen	Inside Facility boundary	2014	104
RHMW08	Single Screen	Inside Facility boundary	2016	64
RHMW09	Single Screen	Inside Facility boundary	2016	376
RHMW10	Single Screen	Inside Facility boundary	2017	452
RHMW11	Multilevel	Hālawa Correctional Facility	2017	3 [c]
RHMW12A	Single Screen	Hālawa Correctional Facility	2021	166
RHMW13	Multilevel	Inside Facility boundary	2019	47
RHMW14	Multilevel	Hālawa Correctional Facility	2019	10 [c]
RHMW15	Multilevel	Inside Facility boundary	2019	153
RHMW16	Single Screen	Inside Facility boundary	2020	32
RHMW17	Single Screen	Inside Facility boundary	2022	54
RHMW18	Single Screen	Inside Facility boundary	2023	751
RHMW19	Single Screen	Inside Facility boundary	2020	441
RHMW20	Single Screen	Inside Facility boundary	2023	50
HDMW2253-03 [b]	Deep Monitoring Well	Hālawa Correctional Facility	2000	20
RHP01	Single Screen	Inside Facility boundary	2022	26
RHP02	Single Screen	Inside Facility boundary	2022	35
RHP03	Single Screen	Inside Facility boundary	2022	53
RHP04A	Single Screen	Inside Facility boundary	2022	124
RHP04B	Deep Monitoring Well	Inside Facility boundary	2022	124
RHP04C	Deep Monitoring Well	Inside Facility boundary	2023	124
RHP05	Single Screen	South of Facility boundary	2022	192
RHP06	Single Screen	South of Facility boundary	2023	157
RHP07	Single Screen	Inside Facility boundary	2023	78
RHP08	Single Screen	South of Facility boundary	2023	104
NMW24	Single Screen	Northwest of Facility boundary	2022	289
NMW25	Single Screen	South of Facility boundary	2023	366
NMW30	Single Screen	South of Facility boundary	2023	461
NMW32	Single Screen	West of Facility boundary	2023	462
NMW33	Single Screen	Southwest of Facility boundary	2023	967

Notes:
Single screen: Conventional monitoring well with single screen typically installed across or near the water table.
Multilevel: Well that is screened near the piezometric surface of the regional basal aquifer and at lower depths (zone identifiers decrease with depth).
[a] Sampling point located inside the shaft of Navy Supply Well 2254-01.
[b] Installed by State of Hawai‘i Department of Land and Natural Resources with a solid casing to approximately 50 ft below the water table.
[c] RHMW11 and RHMW14 are located adjacent to the concrete-lined portion of South Hālawa Stream.

Table 3-2: Description of Multilevel Monitoring Zones

Well	Number of Zones	Description	Zone(s) Currently Monitored	Zones Not Currently Monitored
RHMW11	8	• Zone 8 is completed at an elevation near the regional basal aquifer potentiometric surface, with the zone's sampling port located in saprolite. • Zones 6 and 7 are completed at elevations below the regional basal aquifer potentiometric surface, with sampling ports located in saprolite. • Zones 1 through 5 are completed deeper, with sampling ports within the basalt in the basal aquifer.	Zone 5	Zones 1 to 4 [a] Zones 6 to 8 [b]
RHMW13	5	All zones are located within high-hydraulic-conductivity portions of unweathered basalt: • Zone 5 is completed at an elevation near the regional basal aquifer potentiometric surface. • Zones 1 through 4 are completed deeper.	Zone 5	Zones 1 to 4 [a]
RHMW14	8	• Zone 8 is completed above the elevation of the piezometric surface of the regional basal aquifer with the zone's sampling port located in saprolite. • Zone 7 is completed across the regional basal aquifer potentiometric surface, with the sampling port in basalt with lower hydraulic conductivity. • Zones 4 to 6 are below the elevation of the piezometric surface of the regional basal aquifer, with sampling ports within basalt with relatively lower hydraulic conductivity. • Zones 1 to 3 are located deeper, with sampling ports within the relatively higher-hydraulic-conductivity portions of the unweathered basalt in the basal aquifer.	Zone 3	Zones 1 to 2 [a] Zones 4 to 8 [b]

Well	Number of Zones	Description	Zone(s) Currently Monitored	Zones Not Currently Monitored
RHMW15	5	All zones are located within high-hydraulic-conductivity portions of unweathered basalt: • Zone 5 is completed at an elevation near the regional basal aquifer potentiometric surface. • Zones 1 through 4 are completed deeper.	Zone 5	Zones 1 to 4 [a]

[a] Not monitored due to lack of detections of COPCs in previous groundwater LTM events.
[b] Not monitored due to low hydraulic conductivity.

3.3 Site Characterization at Adit 3

Investigation and sampling activities in response to the November 2021 Release began on November 29, 2021. Characterization results for the shallow vadose zone are presented in a *Draft Site Characterization Report, November 2021 JP-5 Release in Adit 3, Operable Unit 1*, submitted to the Regulatory Agencies for review on May 19, 2023 (DON 2023g).

Site characterization activities of the perched water zone continue at Adit 3, and an Operable Unit (OU-) 2 report that will evaluate the deep vadose zone is forthcoming. Site characterization sampling locations included six deep nested SVMPs installed in the Adit 3 and Pearl Harbor Tunnels. Two additional deep SVMPs are planned following completion of tank defueling (DoD 2022).

Characterization data are uploaded to EDMS (see Appendix E – Characterization and Remediation Data, Characterization and Remediation Analytical Laboratory Reports, and Environmental Data Report Tables). AECOM conducted gauging of water levels, product levels (where applicable), and headspace VOC readings in boreholes and temporary wells. During the reporting period, continuous pressure transducer data was collected from temporary wells. In addition, soil vapor VOCs, oxygen, carbon dioxide, and methane gases were monitored from sub-slab and deep nested soil vapor monitoring points during this reporting period, as reported in Section 5.1.2.

3.4 Site Characterization at Holding Tank and Leach Tank Area

A multi-phase subsurface site characterization and removal action of contaminated soil at the Holding Tank and Leach Tank area outside Adit 3 (Figure 2) was initiated in January 2022. Phase 1 and 2 sampling locations are shown on Figure 4.

Under Phase 1, 21 soil borings were drilled and sampled in January 2022 using a direct-push rig. The investigation was unable to delineate the extent of contamination in the perched aquifer due to encountering shallow refusal, as documented in a *Technical Memorandum Holding Tank and Leach Tank Characterization, February 2022* (DON 2022b).

(b) (3) (A)

Figure 4
Holding Tank and Leach Tank
Sampling Location Map
Quarterly Release Response Report
Red Hill Bulk Fuel Storage Facility
JBPHH, Oʻahu, Hawaiʻi

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Following consultation with the Regulatory Agencies, the Navy conducted Phase 2 field work during March 9–17, 2022 to complete vertical delineation of the petroleum in subsurface soil and to characterize petroleum impacts in the shallow perched water body located at approximately 30 ft bgs in the study area. Subsurface soil samples and organic vapor headspace readings were collected at eight soil borings from data gap locations, and groundwater grab samples were collected from three temporary monitoring wells within the perched groundwater zone. The chemical constituents evaluated were TPH-g, TPH-d, and TPH-o; benzene, toluene, ethylbenzene, and total xylenes (BTEX); and naphthalene, 1-methylnaphthalene, and 2-methylnaphthalene (N, 1MN, and 2MN).

The Phase 2 findings led to excavation and removal of both tanks and approximately 97 tons of soil in May 2022. Waste characterization soil samples were collected and analyzed for TPH-g, TPH-d, and TPH-o prior to the excavation event, and the excavated soil was properly disposed of at a permitted landfill. Removal activities continued with a second soil removal action in September–October 2022 that removed approximately 1,000 cubic yards (1,712 tons) of additional petroleum-contaminated soil. Soil samples were collected using multi-increment sampling methods. After sampling, all excavated soil was properly disposed of at a permitted landfill.

Details and results were presented to the Regulatory Agencies in a *Final Technical Memorandum, Phase 2 Holding Tank and Leach Tank Characterization, November 2021 Pipeline Release* (DON 2023j) on July 13, 2023. In addition, a *Draft Closure Report, Concrete Tank Removal* was provided to the Regulatory Agencies for comment on February 24, 2023 (DON 2023a). Once the removal action confirmation sampling results have been evaluated, the Navy will develop site-specific risk-based action levels following the DOH HEER Environmental Hazard Evaluation process and, if necessary, develop and implement an Environmental Hazard Management Plan in accordance with HEER guidelines.

3.5 Planning for Site Characterization at the Collection, Holding, and Transfer Tank

Site characterization activities are being planned as part of a Phase 1 assessment to characterize the nature and lateral extent of petroleum hydrocarbon impacts in near-surface soil around the CHT Tank located outside Adit 3 (see Figure 2). Additional activities will include characterizing and quantifying the amount of LNAPL, petroleum-contaminated water, and petroleum-impacted sludge stored in four fractionation (frac) tanks of recovered material near Adit 1 at Pearl Harbor to quantify the amount of petroleum recovered. Site characterization plans were presented to the Regulatory Agencies for comment in a *Site Characterization Plan Addendum – Collection, Hold, and Transfer Tank Overflow Site Characterization, November 2021 Release* on December 7, 2022 (DON 2022i). Based on Regulatory Agency comments received, a revised Site Characterization Plan Addendum was published and submitted for Regulatory Agency review in December 2023 (DON 2023n).

3.6 Inspection of Water Development Tunnel

Inspections of the Red Hill Shaft water development tunnel were conducted using a submersible remotely operated vehicle (ROV) to better understand the extent of impact in the tunnel and to potentially identify areas of fluid infiltration. Cameras on the cable-controlled ROV recorded downward, forward, and upward video of the first 515 ft of the tunnel, which investigators then reviewed and evaluated. An initial inspection conducted on January 13, 2022 was followed by a second June 14–15, 2022 inspection; the results are reported in a *Findings from ROV Inspection #2 Video Review of Red Hill Water Development Tunnel* technical memorandum (DON 2022g).

3.7 Single-Event Groundwater Sampling at DH-43 and BWS2253J1 Well

In a single sampling event in October 2022, the Navy collected split samples with BWS at monitoring wells DH-43 (State Well ID No. 3-2253-02), located adjacent to Red Hill in Moanalua Valley, and BWS2253J1 Well (State Well ID No. 3-2253-006), located beside an aboveground BWS water tank southwest of the Red Hill fuel storage tanks adjacent to the Facility boundary and RHMW09. The split sampling was conducted to obtain data to further evaluate potential impacts to groundwater southeast and south of the Facility. The Navy's samples were analyzed for the parameters identified in Section 6.3.2. Details and analytical results were reported in the December 21, 2022 Quarterly RRR (DON 2022k).

3.8 Remediation Pilot Test Planning

The Navy is conducting pilot and bench-scale tests to evaluate potential technologies for remediating fuel released to the environment by the November 2021 Release. The objectives are to assess the technologies' effectiveness in heterogenous volcanic lithologies, assess the constructability of the technologies, and identify design parameters prior to full-scale implementation.

The proposed field pilot testing consists of short-duration soil vapor extraction (SVE) and air sparging (AS) pilot tests, a 6-month SVE pilot test, a 24-month natural source-zone depletion (NSZD) study, and a laboratory JP-5 weathering treatability study. Following the testing period, 18 months of SVE system operation is planned.

The Navy provided to the Regulatory Agencies for comment a *Draft Shallow SVE/AS Work Plan* (WP) on January 9, 2023 (DON 2023b); a *Draft NSZD WP* on February 23, 2023 (DON 2023d); and a *Draft Deep SVE WP* on February 27, 2023 (DON 2023c).

In April 2023, the Navy authorized the installation of components of the Shallow SVE/AS and the Deep SVE study, Components consisted of AS points, shallow and deep SVMPs, a shallow SVE well, and a Hume line SVE point. Deep SVE wells will be installed following completion of tank defueling (DoD 2022).

4.0 Site Investigation Objectives

Sampling activities in response to the three fuel releases include routine sampling and other investigation activities associated with soil vapor and groundwater monitoring and site characterization, as described below.

4.1 Soil Vapor

Soil Vapor Sampling at the Tank Farm. The Navy installed SVMPs below each of the active Red Hill fuel storage tanks in the mid-2000s to collect data that provide additional layers of protection to screen for potential releases (Figure 3) (DON 2007). These SVMPs have been monitored monthly since 2008 for total volatile organic compound (VOC) vapors as a release detection screening tool that operates in conjunction with other leak detection systems used at the Facility. More frequent (e.g., weekly) monitoring of some or all of the below-tank SVMPs has been conducted since the May 2021 Release to further characterize the specific VOCs associated with the May 2021 Release and to evaluate the extent of weathering that has occurred.

Adit 3 Soil Vapor Monitoring. Routine monitoring of the SVMPs installed in the tunnel floor near Adit 3 and in the Pearl Harbor Tunnel using handheld PIDs has been conducted to further characterize the nature and extent of impacts from the November 2021 Release near Adit 3. Results have been used to identify initial hotspots and to direct additional subsurface soil, LNAPL, and groundwater studies to develop a

complete conceptual site model (CSM) for development of the current remedial pilot studies and future feasibility studies and remedial designs. The SVMPs are monitored monthly and following rain events that exceed 1 inch per 24 hours. The data are available in EDMS (see Appendix E–- Characterization and Remediation Data, Characterization and Remediation Analytical Laboratory Reports, and Environmental Data Report Tables).

The six deep nested SVMPs installed in the Adit 3 and Pearl Harbor Tunnels will be used to provide estimates of radius of influence for the SVE pilot study (Section 3.8) as well as site characterization data during the installation phase. Two additional deep nested SVMPs are proposed to be installed following completion of tank defueling (DoD 2022).

4.2 Free-Product Gauging and Monitoring Well Headspace Measurements

AOC Oil/Water Interface Measurements. The Navy continues to collect monthly oil/water interface measurements from monitoring wells located in the tunnel in response to the January 2014 Release. The objective of the measurements is to evaluate whether free product has reached groundwater at specific monitoring well locations.

Gauging, Headspace, and Water Level Measurements at Adit 3. Free product gauging and headspace measurements are conducted prior to the collection of groundwater samples. The objectives of the free product gauging and groundwater monitoring well headspace measurements are to evaluate whether free product has reached groundwater at specific monitoring well locations and to monitor for the presence of free product in Red Hill Shaft. In-well pressure transducers have been collecting water level data from seven temporary wells located in the Adit 3 Tunnel, west of the train track wye, where shallow perched water has been observed. These results are expected to inform on the fate and transport of LNAPL from the November 2021 Release within this section of the tunnel.

4.3 Groundwater

The objective of groundwater sample collection and analysis from monitoring wells underneath the tank farm and in the vicinity of Red Hill Shaft is to evaluate the nature and extent of impacts of the 2021 Releases to the basal groundwater aquifer. Free product gauging and headspace measurements are also conducted during groundwater sampling activities, as described in Section 5.2.

Groundwater sample collection from June 5, 2023 onward has been consolidated to include NOI, groundwater LTM, delineation, and sentinel groundwater sampling programs into one comprehensive, optimized groundwater sampling program (DON 2023h). This program optimizes the sampling programs for targeted sampling for faster laboratory turnaround times and more efficient data analyses. Sections 5.3 and 6.3 provide details of the Consolidated Groundwater Sampling Program.

Defueling–- Groundwater Monitoring Network. The September 2023 *GWPP Update – Defueling Revision* (DON 2023m) addressed monitoring for potential impacts to the environment if an inadvertent spill occurred during the Facility's defueling process, including activities to be conducted to ensure that steps are taken to protect groundwater until the defueling process is complete. The Update identified three categories of groundwater monitoring locations for the Facility defueling effort, as listed in Table 4-1.

Table 4-1: GWPP Groundwater Monitoring Network Categories for Facility Defueling Effort

Primary Release Detection Wells	Secondary Release Detection Wells		Sentinel Wells
Sampled weekly.	Sampled monthly or weekly if there was a GWPP action level exceedance for the Primary Release Detection Wells.		Sampled monthly or weekly if there was a GWPP action level exceedance in the Secondary Release Detection Wells.
RHMW01R	RHMW04	RHMW18	RHMW12A
RHMW02	RHMW06	RHMW19	NMW24
RHMW03	RHMW09	RHMW20	NMW25
RHMW05	RHMW10	RHP01	NMW32
RHMW08	RHMW11	RHP02	NMW30
RHMW2254-01	RHMW13	RHP03	NMW33
RHP07	RHMW14	RHP04A, 04B, 04C	HDMW2253-03
	RHMW15	RHP05	
	RHMW16	RHP06	
	RHMW17	RHP08	

4.4 Data Usability

The usability of data collected depends on its quality, which in turn depends on a variety of factors. Adhering to proper sample collection techniques, observing and documenting chain of custody procedures, and using Department of Defense (DoD)-accredited laboratories and approved analytical methods ensure that the quality of data generated meets site characterization objectives.

The DOH document *Evaluation of Environmental Hazards at Sites with Contaminated Soil and Groundwater* (DOH 2017, Volume 2, Section 6) provides guidance on characterizing petroleum-impacted soil and groundwater ("Soil, Soil Vapor and Groundwater Action Levels for TPH") and is summarized as follows:

- Petroleum is a complex mixture that degrades into potentially toxic metabolites.
- Non-specific aliphatic and aromatic compounds and related degradation compounds compose the majority of the mass collectively referred to as TPH.
- Risk to human health and the environment posed by petroleum releases is evaluated in terms of both TPH and individual "indicator" compounds such as BTEX as well as N, 1MN, and 2MN and other targeted polynuclear aromatic hydrocarbons (PAHs). The latter compose only a small percentage of the total mass in fuels and in vapors but can pose a significant risk due to their higher toxicity and can be important for evaluating risk.
- For risk evaluation, samples are evaluated for additives known or suspected to have been pre-blended into the fuel. Such additives can potentially include antioxidants, biocides, and fuel system ice inhibitors.

The following bullets identify soil borings as part of the LNAPL characterization process, including the following delineation methods for soil:

- If the depth of the source of a release is known, then the approximate upper extent of that release can be inferred.
- Headspace measurements for volatile organics will typically show an increase in concentration within the LNAPL zones. Plotting these on a simple chart of depth against concentration will typically show the inferred bulk LNAPL zone (mobile or residual).
- Visual and olfactory observations are typically logged as well, giving another indication of the presence of LNAPL.
- Soil samples are often collected and analyzed chemically, which will give another set of clear LNAPL indications. In general, TPH analytical results (for the appropriate fuel carbon range) greater than 250 milligrams per kilogram (mg/kg) are indicative of residual LNAPL (because site soil has a limited sorptive capacity).

Petroleum-related target analytes identified in the above guidance are listed in Table 4-2, and relevant DOH EALs are listed in Table 4-3.

Table 4-2: Target Analytes for Middle-Distillate Contaminated Media

Petroleum Product	Media	Recommended Target Analytes
Middle Distillates (e.g., diesel, kerosene, Stoddard solvents, heating fuels, jet fuels)	Soil Vapor	TPH, BTEX, N, and methane
	Groundwater	TPH, BTEX, N, 1MN, and 2MN

Source: (DOH 2017, Volume 2, Table 6-1).

Table 4-3: DOH Environmental Action Levels

Analytical Method	Analyte	EALs	
		Soil Vapor (µg/m^3) [a]	Groundwater (µg/L) [b]
SW-8260	TPH-g	4.9×10^6	500 / **300**
	Benzene	6,300	170 / **5**
	Toluene	1.8×10^7	**40** / 1,000
	Ethylbenzene	2×10^5	**30** / 700
	Xylenes	3.5×10^5	**20** / 10,000
SW-8270	N	1.1×10^4	21 / **17**
	1MN	9.8×10^5	**10** / 27
	2MN	5.6×10^4	**10** / 24
SW-8015	TPH-d	2.2×10^6	500 / **400**
	TPH-o	N/A	**500** / 2,400

Source: Hawai‘i Department of Health Environmental Action Level Surfer (Fall 2017) (DOH 2017).
Bold Value: Tier 1 EAL used for groundwater data screening.
µg/L micrograms per liter
µg/m^3 micrograms per cubic meter

N/A not applicable; EAL not provided
N naphthalene
1MN 1-methylnaphthalene
2MN 2-methylnaphthalene
TPH-g TPH-gasoline range organics
TPH-d TPH-diesel range organics
TPH-o TPH-oil range organics
[a] Soil Vapor EALs = (Commercial / Industrial Shallow Soil Vapor Action Levels) (Table C)
[b] Groundwater EALs = (Odor Taste Threshold) / (Drinking Water Toxicity)

5.0 Field Activities

Field activities performed during this reporting period to characterize soil vapor and groundwater are described below. Summaries of site characterization activities associated with the Adit 3 and Pearl Harbor Tunnel and the Holding Tank and Leach Tank area are included below. As noted in Section 3.0, the data for these two investigations are documented in separate reports (DON 2023g; 2022j).

Analytical methods for the samples collected are identified in Section 6.3, and analytical results are presented in Section 9.0.

5.1 Soil Vapor Monitoring

5.1.1 Below-Tank SVMPs

Total VOC concentrations at below-tank SVMPs were measured monthly in the field using hand-held PIDs at all SVMPs below Tanks 2 through 18 and 20. SVMP locations are shown on Figure 3.

In accordance with the *GWPP Update – Defueling Revision* (DON 2023m), all below-tank SVMPs were monitored twice weekly using a PID at the locations shown on Figure 3. These SVMP PID readings were compared against GWPP specific action levels for each SVMP. In addition, analytical samples were collected monthly using passivated canisters from SVMPs SV15S, 15D, 17S, 17D, 18S, 18D, 20M, and 20D for analysis at a fixed-base analytical laboratory.

5.1.2 Adit 3 and Pearl Harbor Tunnel SVMPs

Six SVMP monitoring events were conducted during this reporting period, as part of implementing the *Preliminary Site Characterization Plan* (DON 2022a) and *LNAPL Site Characterization Plan* (DON 2022e) (Section 3.3) including both planned monthly SVMP monitoring events and out-of-frequency events conducted in response to rainfall events. Figure 5 shows the organic vapor concentrations measured during the reporting period. No laboratory soil vapor testing was conducted at SVMPs within the Adit 3 or Pearl Harbor tunnels during the current reporting period.

5.1.3 SVE/NSZD Pilot Project at Adit 3

Field work conducted for the Shallow SVE and NSZD pilot project at Adit 3 (see Section 3.8) during this reporting period includes:

- Completed installation of the 6-inch SVE trunk line connecting the SVE system on the exterior of Adit 3 to extraction points within Adit 3. Shallow SVE pilot system startup is pending completion of tank defueling (DoD 2022).

Event No	Date	A3+300	A3+250	A3+200	A3+150	A3+100	A3+050	A3a+000	A3b+000	A3-025	A3a-050	A3b-050	A3-075	A3-100	A3-125	A3a-150	A3b-150	A3-175	A3a-200	A3b-200	A3-225	A3-250	A3-275	A3a-300	A3b-300	A3-325	A3a-350	A3b-350	A3-375	A3-375-05.0	A3-400	A3-425	A3-450
65	11/7/2023	7	1	1	1	1	1	1	3	1	1	1	Tight	2	2	2	3	1	3	6	Tight	40	63	3	3	30	16	39	9	3	1	1	1
66	12/1/2023*	3	0	0	0	0	1	0	0	0	0	1	Tight	1	2	1	1	1	2	2	Tight	23	44	2	2	14	11	25	4	4	0	0	0
67	12/8/2023*	0	0	0	0	0	1	0	0	0	0	0	Tight	0	1	0	0	0	0	2	Tight	18	47	2	3	19	11	29	4	3	0	0	0
68	12/15/2023*	2	0	0	0	0	0	0	1	0	1	1	Tight	1	2	1	1	1	2	2	Tight	35	58	2	3	20	15	22	4	3	1	1	1
69	12/22/2023*	5	1	1	1	1	1	1	2	1	1	1	Tight	2	3	2	1	1	4	2	Tight	31	45	3	4	21	16	29	20	6	2	2	2
70	12/29/2023*	4	1	1	2	1	1	1	2	1	1	1	Tight	3	4	3	3	3	6	6	Tight	37	69	5	5	22	16	30	7	5	1	1	1

(b) (3) (A)

Event No.	Date	A3+500	A3+475	A3+450	A3+425	A3+400	A3a+375	A3b+375
65	11/7/2023	3	1	1	2	1	0	1
66	12/1/2023*	1	0	1	1	0	1	0
67	12/8/2023*	0	0	0	0	0	0	0
68	12/15/2023*	1	0	0	0	0	0	0
69	12/22/2023*	2	1	1	1	1	1	1
70	12/29/2023*	1	1	1	1	1	1	1

Date	2S+300	2S+275	2S+250	2S+225	2S+200	2S+175	2S+150	2S+125	2S+100	1S+038	1S+068	2S+075	2S+075-05.0	2S+050	2S+025
11/7/2023	1	1	1	1	2	2	2	2	70	2	2	27	6	3	6
12/1/2023*	0	0	1	1	1	1	1	3	43	1	1	21	7	1	1
12/8/2023*	0	0	0	0	0	0	0	1	53	0	0	26	7	2	3
12/15/2023*	2	2	2	2	2	3	3	4	87	2	1	33	11	2	3
12/22/2023*	3	3	3	3	4	4	5	7	62	3	4	30	11	2	3
12/29/2023*	2	2	2	2	3	4	2	4	53	2	2	34	9	4	3

Figure 5. **Soil Vapor Monitoring Results, November 7 – December 29, 2023 Adit 3 Tunnel and Pearl Harbor Tunnel**

Notes
* denotes out-of-frequency sampling events that were conducted in response to a significant rain event that exceeded 1 inch in 24 hours. An additional follow-up sampling event is conducted 7 days after the initial event.

Scale
ppmv
862
650
550
450
350
250
150
50
0

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5.2 Free Product Gauging and Monitoring Well Headspace Measurements

AOC Gauging. Free product gauging (i.e., oil/water interface measurements) data were collected monthly at in-tunnel monitoring wells RHMW01R, RHMW02, RHMW03, and RHMW05.

Consolidated Groundwater Sampling Program. Free product gauging and PID headspace measurements were conducted monthly as part of the Consolidated Groundwater Sampling Program (DON 2023h) (see Section 3.2):

- Free product gauging was conducted at the groundwater monitoring wells listed in Section 5.3 using a clear bailer in addition to an oil/water interface probe. An ultraviolet light was also used at Red Hill Shaft (RHMW2254-01) to check for the presence of free product.
- Headspace PID measurements were collected from inside the well casing immediately after well cap removal.

RHMW12A and RHMW16 have submerged well screens. HDMW2253-03 is a deep monitoring well installed by the State of Hawai‘i Department of Land and Natural Resources with a solid casing to approximately 50 ft below the water table. RHMW11, RHMW13, RHMW14, and RHMW15 are closed systems with sampling ports below the water level surface and as a result LNAPL would likely not be able to enter these wells.

Defueling Gauging and Measurements. Free product gauging and PID headspace measurements were conducted weekly for in-tunnel and delineation wells as part of the Defueling GWPP sampling events.

Adit 3 Gauging and Measurements. During the reporting period, free product gauging, organic vapor headspace, and water level measurements were collected weekly at 15 boreholes and seven temporary wells located within Adit 3. In addition, continuous water level measurements were collected at the temporary wells using in-well pressure transducers.

5.3 Groundwater Sampling

Groundwater sampling was conducted monthly in accordance with the Consolidated Groundwater Sampling Program (DON 2023h). The following locations were monitored during this reporting period (see Figure 1):

- Groundwater sampling point RHMW2254-01 at Red Hill Shaft; in-tunnel monitoring wells RHMW01R, RHMW02, RHMW03, and RHMW05; and the following wells external to the lower access tunnel:
  - RHMW04, RHMW06, RHMW08, RHMW13-05, RHMW15-05, RHMW16, RHMW17, RHMW18, and RHMW20, located within the Facility boundary along its northern border
  - RHMW09, RHMW10, and RHMW19, located within the Facility boundary along its southern border
  - RHMW11-05, RHMW12A, RHMW14-03, and HDMW2253-03, located north of the Facility boundary on the grounds of the Hālawa Correctional Facility
- Delineation wells RHP01, RHP02, RHP03, RHP04A/04B/04C, and RHP07, located within the Facility boundary in a cluster surrounding Red Hill Shaft, and RHP05, RHP06, and RHP08, located just outside the Facility boundary south of Red Hill Shaft

- Sentinel wells at locations northwest (NMW24), south (NMW25 and NMW30), and southwest (NMW32 and NMW33) of the Facility boundary

All samples were collected using low-flow sample collection methodology in accordance with the Consolidated Groundwater Sampling Program (DON 2023h).

During the tank defueling effort, sampling frequency increased in accordance with the *GWPP Update – Defueling Revision*.

5.3.1 Single-Screen Monitoring Well Sampling

Prior to collecting groundwater samples, the single-screen monitoring wells were purged of standing water in the well casings. These monitoring locations each contain a dedicated bladder pump, which was used to purge the well and collect samples. The groundwater wells were purged using low-flow sampling methodology at flow rates of approximately 0.10–0.30 liter per minute or less to minimize VOC loss and drawdown.

To operate the pump, a portable air compressor with an in-line filter was connected to a QED Environmental Systems MicroPurge MP10 Controller, which was then connected to the pump. The compressor was turned on to power the pump, and the controller was adjusted to achieve a flow rate of approximately 0.10–0.30 liter per minute or less. Compressed nitrogen gas was used to purge and sample these single-screen monitoring wells.

Water quality parameters were monitored on a periodic basis during well purging using an In-Situ Inc. smarTROLL multiparameter handheld water quality meter to automate data entry of the parameters into a digitized format. Parameters measured included total dissolved solids, pH, temperature, specific conductivity, dissolved oxygen (DO), turbidity, oxidation-reduction potential (ORP), and salinity. The water quality parameters were used to evaluate whether the natural characteristics of the aquifer formation water were present within the monitoring wells before the samples were collected. A minimum of six readings were collected at each well during the purging process. When feasible depending on the well's inside diameter allowing space for both the bladder pump tubing and calibrated tape, water level measurements were collected and recorded during purging to detect indications of drawdown; if drawdown approaching 0.2 ft was detected, the rate of low-flow purging was reduced. Purging was considered complete when at least three consecutive water quality measurements stabilized within the specified range for each parameter noted in groundwater sampling logs and in accordance with NAVFAC Pacific Environmental Restoration Program Project Procedure I-C-3, *Monitoring Well Sampling* (DON 2015). The readings were recorded in the groundwater sampling logs. Sampling logs can be furnished upon request.

Once water quality parameters stabilized, groundwater samples were immediately collected from the wells using the bladder pumps. Groundwater samples for all single-screen monitoring wells were collected no more than 2.5 hours after purging was completed. Groundwater samples were collected in sample containers that were pre-preserved (as necessary) and provided by the analytical laboratory. Samples collected for ferrous iron and non-volatile dissolved organic carbon (NVDOC) analyses were filtered in the field using new 0.45-micron and 0.20-micron filters, respectively, attached at the end of the pump/probe discharge tubing.

5.3.2 Multilevel Monitoring Well Sampling

Due to the multilevel design of monitoring wells RHMW11, RHMW13, RHMW14, and RHMW15, purging was not required immediately prior to collecting groundwater from the sampled monitoring zone, because the sampling ports extend into the surrounding formation and there is no filter pack. Groundwater

was collected using sampling probes from the following multilevel monitoring zones: RHMW11 Zone 5, RHMW13 Zone 5, RHMW14 Zone 3, and RHMW15 Zone 5.

A string of four sealed 250-mL sample containers was connected to the sampling probe, which was lowered to each monitoring zone, and the containers filled with groundwater from the formation through a sampling port in the central casing of the well. Once sample containers were filled, the sampling port was closed, and the probe and container string were brought to the surface. The groundwater was then transferred to the appropriate laboratory-supplied containers. For collection of groundwater quality parameters, the sample containers were flushed with nitrogen to remove air from within the containers prior to collection of groundwater. The nitrogen flush was performed to minimize DO enrichment due to high water pressure in the formation, which would otherwise have forced air in the sample containers to mix into the groundwater collected. Groundwater quality parameters were collected at least three times during the sampling of each multilevel monitoring well zone and recorded in the groundwater sampling logs. Sampling logs can be furnished upon request.

Groundwater samples were collected in sample containers that were pre-preserved (as necessary) and provided by the analytical laboratory. Samples collected for ferrous iron and NVDOC were filtered in the field using new, single-use 0.45-micron and 0.20-micron filters, respectively, attached at the end of the pump/probe discharge tubing.

Groundwater sampling at multilevel monitoring well zones requires a few hours for each zone due to the limited volume (1 liter) collected from each deployment of the sample container string. During the Second Quarter 2019 Groundwater LTM event, a one-time evaluation was conducted to determine whether the groundwater geochemistry changes during sampling. Three additional aliquots of groundwater (from run #2, run #7, and run #13) were collected from RHMW11-05 and analyzed for anions and alkalinity. The results indicated that the groundwater geochemistry is consistent during the 4-hour sampling duration at RHMW11-05. Data related to these samples were presented in the *Second Quarter 2019 Groundwater Monitoring Report* (DON 2019c).

5.4 Decontamination

Decontamination activities were performed in accordance with NAVFAC Pacific Environmental Restoration Program Project Procedure I-F, *Equipment Decontamination* (DON 2015). A staging and decontamination area was established near each well location. Non-disposable sampling equipment (e.g., water level meter, oil/water interface probe, and multilevel monitoring well sample container string) was decontaminated at the beginning of each day and after purging and sampling each well. The decontamination process included washing and scrubbing the equipment with stiff-bristled nylon brushes and a non-phosphate detergent (e.g., Alconox) solution, followed by rinsing once with isopropyl alcohol and twice with distilled water. Liquid wastes generated during decontamination activities were captured and containerized in properly labeled, U.S. Department of Transportation-approved 55-gallon drums or other suitable temporary containers and managed as investigation-derived waste (IDW).

5.5 Investigation-Derived Waste Management

IDW generated during the monitoring events consisted of purged groundwater from the monitoring wells and decontamination water. The IDW was handled, stored, and labeled in accordance with NAVFAC Pacific Environmental Restoration Program Project Procedure I-A-6, *Investigation-Derived Waste Management* (DON 2015). Fluid from wells with PFAS exceeding the RSLs was containerized separately from the other well locations. All IDW was containerized in clearly labeled, 55-gallon-capacity drums, covered with a tarp, and stored on site in an area designated by the Navy pending disposal. Disposable

personal protective equipment and sampling equipment and supplies were collected in plastic trash bags and disposed of as municipal waste.

6.0 Sample Control Procedures

Prior to sampling, the field team inspected all supplies and consumables to ensure that they were acceptable for use. Sampling and sample handling procedures were designed to ensure that samples were consistently collected, labeled, preserved, and transported in a manner that maintained their integrity for their intended purposes.

6.1 Sample Containers and Preservation

Sample container, preservative, and holding time requirements for soil vapor and groundwater are listed in Table 6-1. The samples were preserved as indicated and analyzed within the required holding times. The containers, preservatives, and holding times are specified in the respective EPA or SW-846 methods.

Table 6-1: Sample Containers, Preservatives, and Holding Times

Parameter	Number/Type of Containers per Sample	Preservative	Holding Time
Soil Vapor			
Total VOCs, TPH-g, BTEX, N, 1MN, and 2MN; oxygen, carbon dioxide, methane, and helium	1 × passivated canister	N/A	30 days
Groundwater			
VOCs			
BTEX	2 × 40-mL vials, Teflon-lined septum caps	No headspace, cool to ≤6°C and adjust to pH <2 with HCl	Maximum holding time is 7 days if pH >2 or 14 days if pH <2
TPH			
TPH-g	2 × 40-mL vials, Teflon-lined septum caps	No headspace, cool to ≤6°C and adjust to pH <2 with HCl	Maximum holding time is 7 days if pH >2 or 14 days if pH <2
TPH-d, TPH-o (without and with SGC)	2 × 1-L amber glass (Energy Laboratories), Teflon-lined lid or 2 x 250-mL amber glass (SGS-Orlando), Teflon-lined lid	Cool to ≤6°C and adjust to pH <2 with H_2SO_4 or cool to ≤6°C if unpreserved	Maximum holding time is 7 days if pH >2 or 14 days if pH <2 / 40 days a
SVOCs, PAHs			
SVOCs (phenol)	2 × 1-L amber glass, Teflon-lined lid	Cool to ≤6°C	7 days / 40 days a
Full suite PAHs including N, 1MN, and 2MN	2 × 250-mL glass amber glass, Teflon-lined lid	Cool to ≤6°C	7 days / 40 days a
SVOCs (2-(2-methoxyethoxy)-ethanol)	2 × 250-mL glass amber glass, Teflon-lined lid	Cool to ≤6°C	7 days / 40 days a

Parameter	Number/Type of Containers per Sample	Preservative	Holding Time
Lead Scavengers			
1,2-Dibromoethane	2 × 40-mL vials, Teflon-lined septum caps	No headspace, cool to ≤6°C, and adjust to pH <2 with HCl	Maximum holding time is 7 days if pH >2 or 14 days if pH <2
1,2-Dichloroethane	2 × 40-mL vials, Teflon-lined septum caps	No headspace, cool to ≤6°C, and adjust to pH <2 with HCl	Maximum holding time is 7 days if pH >2 or 14 days if pH <2
Natural Attenuation Parameters			
Methane	2 × 40-mL vials, Teflon-lined septum caps	No headspace, cool to ≤6°C, and adjust to pH <2 with HCl	Maximum holding time is 7 days if pH >2 or 14 days if pH <2
Ferrous Iron	1 × 250-mL brown plastic	Cool to ≤6°C, and adjust to pH <2 with HCl	7 days
Nitrate	1 × 250 mL plastic	Cool to ≤6°C	48 hours
Alkalinity (total, bicarbonate, carbonate)	1 × 250 mL plastic	Cool to ≤6°C	14 days
Nitrate-nitrite	1 × 250 mL plastic	Cool to ≤6°C and adjust to pH <2 with HSO	28 days
Non-Volatile Dissolved and Total Organic Carbon			
NVDOC, TOC	2 × 40-mL amber VOA vials, Teflon-lined lid	Cool to ≤6°C and adjust to pH <2 with HCl	28 days
DOC	2 × 40-mL amber VOA vials, Teflon-lined lid	Cool to ≤6°C and adjust to pH <2 with HCl	28 days
Groundwater Chemistry			
Total Silica, Bromide, chloride, fluoride, sulfate	1 × 250 mL plastic	Cool to ≤6°C	28 days
Dissolved Silica	1 × 250 mL plastic	Field filtered, cool to ≤6°C	28 days
Total calcium, total magnesium, total manganese, total potassium, total sodium	1 × 250 mL plastic	Cool to ≤6°C and adjust to pH <2 with HNO_3	6 months

°C degree Celsius
1-MN 1-methylnaphthalene
2-MN 2-methylnaphthalene
DOC dissolved organic carbon
H_2SO_4 sulfuric acid
HCl hydrochloric acid
HDPE high-density polyethylene
HNO_3 nitric acid
L liter

mL milliliter
N naphthalene
N/A not applicable (holding times not provided)
NVDOC non-volatile dissolved organic carbon
SGC silica gel cleanup
SVOC semivolatile organic compound
TOC total organic carbon
VOA volatile organic analysis

[a] *x* days / *y* days = *x* days from sample collection to extraction / *y* days for analysis of extracts following extraction

6.2 Sample Handling and Chain of Custody

The samples were labeled and logged in accordance with NAVFAC Pacific Environmental Restoration Program Project Procedure III-E, *Record Keeping, Sample Labeling, and Chain-of-Custody Procedures* (DON 2015). Immediately after collection, all samples were labeled, logged in the field logbooks, custody-sealed, sealed with tape, and placed in a resealable plastic bag. To meet the recommended holding time for nitrate analysis, efforts were made to ship samples to the laboratory on the day of collection. Samples not shipped on the day of collection were stored in secure and controlled cold storage overnight and shipped the following day.

Prior to shipping, the samples were logged in a chain-of-custody form and loaded into a cooler with double-bagged wet ice. Packed coolers were sent by field personnel via express-courier overnight shipping in custody-sealed coolers to Eurofins (located in Seattle, Washington and Denver, Colorado), SGS Orlando (Orlando, Florida), SGS Anchorage (Anchorage, Alaska), Agriculture & Priority Pollutants Laboratories, Inc. (Clovis, California), and Energy Laboratories, Inc. (Billings, Montana).

Chain-of-custody documentation was maintained for samples during all phases of sample collection, transport, and receipt and internal transfer within the laboratory. Sample transport and custody details are provided in the chain-of-custody records in the laboratory reports indexed in Appendix C (soil vapor) and Appendix D (groundwater).

6.3 Laboratory Analyses

The analytical methods, analytes, and applicable screening criteria for the soil vapor and groundwater samples are identified below.

6.3.1 Soil Vapor Analyses

Passivated canister samples collected from below the tanks were analyzed for VOCs by Method TO-15; total VOCs (C5–C12) by Method TO-3; and oxygen, carbon dioxide, and methane by ASTM D1946.

6.3.2 Groundwater Analyses

First implemented in June 2023, the Consolidated Groundwater Sampling Program (DON 2023h) is an integration of the various groundwater monitoring programs (NOI, groundwater LTM, delineation well, and sentinel well sampling) into one overall program based on the substantial amount of laboratory results, DOH guidance, and the composition of the fuels stored at the Facility.

The following ten primary COPCs were established in February 2016 (EPA Region 9 and DOH 2016) for the AOC investigations and the groundwater LTM program and remain the same for the Consolidated Groundwater Sampling Program:

- TPH-g, TPH-d, and TPH-o
- N, 1MN, and 2MN
- BTEX

Additional PAHs analyzed for sampling also continue as part of the Consolidated Groundwater Sampling Program, since some PAHs are potentially associated with jet fuels at low concentrations. NVDOC has also been added to the natural attenuation parameter (NAP) list for monthly sampling.

Table 6-2 summarizes the analytical list for the Consolidated Groundwater Sampling Program, which includes monthly analytes, analytical methods, and screening criteria.

Table 6-2: Consolidated Groundwater Sampling Program – Monthly

Parameter	Analytical Method	Analyte	Groundwater Screening Criterion (DOH EAL) (µg/L)
TPH	EPA 8015	TPH-g	300
	EPA 8015	TPH-d	400
		TPH-o	500
Total TPH	—	Reported as a non-overlapping sum of TPH-g/d/o with BTEX,1MN, 2MN, N subtracted	—
TPH with SGC	EPA 8015 / DEP FL PRO	TPH-d	—
		TPH-o	—
VOCs	EPA 8260	Benzene	5
		Ethyl Benzene	30
		Toluene	40
		Total Xylenes	20
AOC / Groundwater LTM PAHs	EPA 8270 SIM	1-MN	10
		2-MN	10
		Naphthalene	17

Parameter	Analytical Method	Analyte	Groundwater Screening Criterion (DOH EAL) (µg/L)
Additional PAHs	EPA 8270 SIM	Acenaphthene	20
		Acenaphthylene	240
		Anthracene	0.18
		Benzo(a)anthracene	0.029
		Benzo(a)pyrene	0.2
		Benzo(b)fluoranthene	0.22
		Benzo(g,h,i)perylene	0.13
		Benzo(k)fluoranthene	0.4
		Chrysene	1
		Dibenzo(a,h)anthracene	0.022
		Fluoranthene	13
		Fluorene	240
		Indeno(1,2,3-cd)pyrene	0.095
		Phenanthrene	210
		Pyrene	68
Fuel Additives	EPA 8270	Phenol	300
Lead Scavengers [a]	EPA 8011	1,2-Dibromoethane	0.04
	EPA 8260	1,2-Dichloroethane	5
NAPs	RSK 175M	Methane	—
	EPA 9060A	TOC	—
	EPA 9060A	NVDOC	—

Source: (DON 2023h)
— not applicable
[a] Discontinued if 1 year of sampling at newly constructed wells shows levels are below DOH EALs.

6.3.2.1 GROUNDWATER ACTION LEVELS FOR TANK DEFUELING

The *GWPP Update – Defueling Revision* identified action levels for the increased frequency of monitoring conducted during the tank defueling effort (DON 2023m). Primary Release Detection Well COPCs for action-level evaluation were the polynuclear aromatic hydrocarbon (PAH) compounds N, 1MN, and 2MN; and TPH fractions (TPH-d and TPH-o). Action levels are listed in Table 6-3.

Table 6-3: Action Levels for Primary Release Detection Wells

Primary Release Detection Well	Action Level (µg/L)				
	TPH-d	TPH-o	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene
RHMW01R	597	384	0.3	0.7	0.3
RHMW02	2,617	382	27	16	11
RHMW03	289	409	0.3	0.3	0.3
RHMW05	123	380	0.3	0.3	0.3
RHMW2254-01	111	376	0.28	0.25	0.25
RHMW08 [a]	111	376	0.28	0.25	0.25
RHP07 [a]	111	376	0.28	0.25	0.25

µg/L micrograms per liter
TPH-d total petroleum hydrocarbons - diesel range organics
TPH-o total petroleum hydrocarbons - residual oil range organics
[a] Action levels for RHMW08 and RHP07 are based on the evaluations of RHMW2245-01.

Secondary Release Detection Wells and Sentinel Wells were tested for the petroleum related compounds listed in Table 6-4 and screened against the DOH Environmental Action Levels (EALs).

Table 6-4: Action Levels for Secondary Release Detection Wells and Sentinel Wells – DOH EALs, Groundwater IS Current or Potential Source of Drinking Water

Contaminant	Action Level (µg/L)
TPH (gasolines)	300
TPH (middle distillates)	400
TPH (residual fuels)	500
Benzene	5
Toluene	40
Ethylbenzene	30
Xylenes	20
1-Methylnaphthalene	10
2-Methylnaphthalene	10
Naphthalene	17
1, 2-Dibromoethane[a]	0.04
1,2-Dichloroethane[a]	5
Phenol	300
2-(2-Methoxyethoxy)ethanol [a, b]	800
Acenaphthene	20
Acenaphthylene	236
Anthracene	0.18

Contaminant	Action Level (µg/L)
Benzo(a)anthracene	0.03
Benzo(a)pyrene	0.20
Benzo(b)fluoranthene	0.22
Benzo(g,h,i)perylene	0.13
Benzo(k)fluoranthene	0.40
Chrysene	1
Dibenzo(a,h)anthracene	0.022
Fluoranthene	13
Fluorene	236
Indeno(1,2,3-cd)pyrene	0.1
Phenanthrene	214
Pyrene	68

Source: Appendix 1, Table D-1a (<150m to Surface Water Body) and Table D-1b (>150m to Surface Water Body) (DOH 2017).

[a.] 1,2-Dibromoethane, 1,2-Dichloroethane, and 2-(2-Methoxyethoxy)ethanol are additional compounds that will be included in Secondary Release Detection Monitoring Wells and Sentinel Well analyses associated with the defueling GWPP events.

[b] 2-(2-Methoxyethoxy)ethanol (CAS No. 111-77-3) is a common de-icing additive that the Navy has added to jet fuel (JP-5 and JP-8). It has no established EAL; the action level (800 µg/L) is from EPA (2023) Regional Screening Levels (RSLs) for residential exposure, for noncarcinogenic health risks.

In the event of a GWPP action level exceedance for the Primary Release Detection Wells, 4 consecutive weeks of monitoring was conducted for both the Primary Release and Secondary Release Detection Wells. If no GWPP action level exceedances occurred during the 4 weeks, then groundwater monitoring returned to weekly monitoring of the Primary Release Detection Wells and monthly monitoring of the Secondary Release Detection and Sentinel Wells until the end of defueling.

6.3.2.2 SPLIT-SAMPLE TESTING

Split sampling and performance testing results documented in detail in the *Third Quarter 2018 Groundwater Monitoring Report* (DON 2018a) showed that although both laboratories' processes and protocols were in accordance with EPA Method 8015, the EPA Region 9 laboratory had higher TPH-d and PAH recoveries than the Navy-contracted laboratory for analytes present in groundwater samples at high concentrations (EPA Region 9 and DOH 2017a, 2018; DON 2018b). The differences in recoveries were due to the EPA Region 9 laboratory protocols being more effective at recovering higher TPH-d and PAH concentrations, especially for samples with higher concentrations of polar hydrocarbons and metabolites. Changes made to the Navy-contracted laboratory's protocols included: using calibration standards identical to those used by the EPA Region 9 laboratory; sample acidification to pH less than 5 prior to extraction; switching extraction methodologies from EPA Method 3510C (separatory funnel liquid-liquid extraction) to EPA Method 3520C (continuous liquid-liquid extraction); using a rotary evaporator for extract condensation; and reducing the field-collected sample volume for optimal extraction within the liquid-liquid extractor vessel. After the method optimizations, there were no apparent differences in the TPH and PAH concentration trends between EPA Region 9 laboratory and Navy-contracted laboratory results.

7.0 Field Observations During Sampling

Field observations recorded during the soil vapor and groundwater sampling activities this reporting period are described below.

7.1 Soil Vapor Monitoring Observations

During this reporting period, soil vapor monitoring was conducted twice weekly at the below-tank SVMPs. Soil vapor monitoring was also conducted monthly (plus additional out-of-frequency monitoring) at the subslab and shallow SVMPs installed in the tunnel system by Adit 3 near Red Hill Shaft. Historical soil vapor monitoring observations can be found in the previous Quarterly RRR (DON 2023p).

Two Adit 3 subslab SVMPs (A3-075 and A3-225) have been consistently poor vapor producers, with sampling results designated as "tight" to indicate vacuum is pulled when sampling and readings could not be obtained potentially due to low-permeability soil directly underneath the tunnel floor.

7.2 Free Product Gauging and Monitoring Well Headspace Observations

A summary of free product gauging and groundwater monitoring well headspace measurements collected during the Consolidated Groundwater Sampling Program and Defueling GWPP sampling events is provided in Appendix B.2.1. Historical free product gauging and groundwater well headspace measurements are presented in the previous RRR (DON 2023p). Except for free product observed in temporary monitoring wells screened in the shallow perched water located beneath the Adit 3 tunnel floor, no free product was observed during the reporting period in any groundwater monitoring well during any sampling event, regardless of the detection method used (either oil/water interface probe or bailer), including no observation in samples collected from the multilevel wells RHMW11, RHMW13, RHMW14, and RHMW15 equipped with closed sampling ports.

Groundwater monitoring well headspace concentrations were generally low. Readings were 3 parts per million by volume (ppmv) or less and occurred only occasionally throughout this reporting period with the exception of NMW30 (10.0 ppmv), RHMW17 (6.7 ppmv), and RHP06 (44.1 ppmv). RHP06 had a reading of 44.1 ppmv on November 15, but TPH results were non-detect. All other headspace readings at RHP06 were 0.0–0.4 ppmv.

At Adit 3, A3-010-TW showed a temporary increased thickness of LNAPL during the period, as indicated in Table 7-1. At all other locations within Adit 3, LNAPL thickness ranged from not observed to 0.10 ft (at A3-040-TW) during this reporting period.

Table 7-1: LNAPL Thickness Increase Observed at Adit 3 (A3-010-TW), October 2023–January 2024

Date	Thickness (ft)
10/20/2023	0.12
10/27/2023	Sheen
11/03/2023	0.20
11/10/2023	0.24
11/17/2023	0.21
11/21/2023	0.21
12/01/2023	0.23

Date	Thickness (ft)
12/08/2023	0.05
12/15/2023	0.08
12/22/2023	0.03
12/29/2023	0.05
01/05/2024	0.06

7.3 Groundwater Level Measurements

Depths to groundwater were gauged from the notched and surveyed top of casing using calibrated water level measuring tapes at single-screen monitoring well locations prior to sampling. The measuring tape correction factors were updated as described in a December 14, 2022 letter from the U.S. Geological Survey and are included in Appendix B.2.2. Additionally, a Heron or Solinst oil/water interface probe was used to detect LNAPL, which was measured if present.

The oil/water interface probe and water level measuring tapes were decontaminated between well measurements by washing with a non-phosphate detergent solution and rinsing with isopropyl alcohol and distilled water to prevent cross-contamination. Measuring points for all single-screen monitoring wells are detailed in three well elevation survey reports. The measuring point elevations have been updated to reflect the well elevation survey report revised on January 7, 2022 (DON 2018c; 2018e; 2019a) and to include recent elevations surveyed from July 2022 to present, all presented in Appendix B.2.2. Historical groundwater level measurements can be found in the previous RRR (DON 2023p) and Groundwater Long-Term Monitoring (GW LTM) Report (DON 2023o).

During the reporting period, groundwater elevations beneath and near the site ranged from 11.83 to 18.63 feet above msl, as presented in Appendix B.2.2. Basal groundwater elevations ranged from 16.11 to 18.63 feet above msl except for NMW33. Groundwater elevations from single-screen wells have generally increased in comparison to Third Quarter 2023 groundwater elevations, except at monitoring well NMW32.

Additionally, due to the design of the multilevel monitoring wells, depths to groundwater cannot be measured in the monitoring zones of RHMW11, RHMW13, RHMW14, and RHMW15. Instead, transducers are used in these wells to measure potentiometric elevations. Cumulative results of water pressure, temperature, and elevation for multilevel monitoring wells were last presented in Appendix D of the *Fourth Quarter 2020 Groundwater Monitoring Report* (DON 2021a).

7.4 Groundwater Sampling Observations

The following observations were noted during groundwater sampling field activities this reporting period:

- A decaying or metallic odor was observed during most sampling events at RHMW11.
- Yellow flakes were observed in the water collected from HDMW2253-03.
- Organic or sulfurous odors were observed consistently at RHMW02 and intermittently at RHMW01R.

8.0 Data Quality

Field and laboratory QC measures implemented during this reporting period are described below. When applicable, corrective actions were implemented when control limits for field or laboratory QC

measurements were not met. Results are reported in the associated laboratory and data validation reports (indexed in Appendix C and Appendix D).

8.1 Laboratory Quality Control

The following laboratory QC samples were collected and analyzed.

8.1.1 Soil Vapor Samples

Laboratory QC samples included method blank, laboratory control sample (LCS), and laboratory control sample duplicate (LCSD) analyses.

8.1.2 Groundwater Samples

Laboratory QC samples included method blanks, LCSs/LCSDs, matrix spikes/matrix spike duplicates (MSs/MSDs), and duplicates, as described in the DoD *Quality Systems Manual Version 5.4* (DoD and DOE 2021) and the AOC *Red Hill Sampling and Analysis Plan Addendum 01* (DON 2017d).

8.2 Field Quality Control

8.2.1 Soil Vapor Samples

Analytical soil vapor samples were collected by Element Environmental, LLC.

8.2.2 Groundwater Samples

Field QC samples for groundwater including trip blanks and equipment rinsates were collected according to procedures described in NAVFAC Pacific Environmental Restoration Program Project Procedure III-B, *Field QC Samples* (Water, Soil) (DON 2015). Field QC samples are listed in Table 8-1.

Table 8-1: Measurement Performance Criteria – Field QC Samples

QC Sample	Analytical Group [a]	Frequency	DQI	Measurement Performance Criterion
Field duplicate	VOCs, TPH-g, TPH-d, TPH-o, PAHs, SVOCs	10% of primary samples collected per matrix per analytical method	Field sampling precision	RPD ≤50% water [b]
Field blank	VOCs, TPH-g, TPH-d, TPH-o, PAHs, SVOCs	Once per source of decontamination water per sampling event	Adequacy of the decontamination water quality or potential for contamination due to field conditions	≤1/2 of LOQ
Equipment blank	VOCs, TPH-g, TPH-d, TPH-o, PAHs, SVOCs	5% of primary samples collected per matrix per analytical method	Adequacy of the decontamination process	≤1/2 of LOQ
Trip blank	VOCs, TPH-g, methane, lead scavengers	At minimum, one per cooler per analytical method containing VOCs, TPH-g, methane, or lead scavenger samples	Contamination during sample transport	≤1/2 of LOQ

% percent
DQI data quality indicator
LOQ limit of quantitation
RPD relative percent difference
[a] See Table 6-1 for the list of analytes within analytical groups.
[b] Per Project Procedures Manual Section II, *Data Validation Procedures* (DON 2015).

In addition, because unexpected detections of phthalate and PAH compounds had previously been observed in the data set, collection of extra field blanks and equipment blanks was added for PAHs and SVOCs beginning the week of March 7, 2022. Field blanks were collected by pouring decontamination water directly into the sample bottles, and equipment blanks were collected by pouring decontamination water over the water level indicator and collecting the rinsate into sample bottles.

8.2.3 Sample Control Procedures

Field instruments were calibrated each morning prior to starting field activities. The PID was calibrated with 100 parts per million (ppm) isobutylene calibration gas. The multi-gas monitor was calibrated with 100 ppm isobutylene calibration gas and a multi-gas monitor calibration gas composed of 50 ppm carbon monoxide, 25 ppm dihydrogen sulfide, 19 percent oxygen, and 50 percent of the lower explosive limit of methane. The water quality meter was calibrated with an auto-calibration solution prior to recording measurements.

To assess the effectiveness of the equipment decontamination process, one equipment blank sample was collected from the reusable sample container used during the multilevel monitoring well zone sampling. The equipment blank sample was collected on site by pouring distilled water onto the decontaminated multilevel monitoring well sample container string and then into the sample containers. A field blank sample was also collected to assess the quality of the locally sourced Menehune Water Company distilled water used to collect the equipment blank. The field blank was collected by pouring distilled water directly into sample containers. The field blank and equipment blank samples were analyzed for the same COPCs as the groundwater samples.

Because all single-screen monitoring locations have dedicated bladder pumps installed, no field or equipment blanks were collected from single-screen monitoring locations.

To help assess the precision of the data collection activity, including sampling and analysis, field duplicates were collected at the same approximate time as their respective primary samples. During the current sampling period, one field duplicate was collected from NMW32, RHMW08, RHMW10, RHMW16, and RHP06.

One trip blank was used for each sampling location for VOCs (TPH-g, BTEX, methane, and lead scavengers) to evaluate the condition of the samples in each shipment. The hermetically sealed trip blank samples were prepared by the field team using laboratory-provided VOC-free water immediately prior to the sampling event and kept chilled until the sampling day. Trip blanks remained with the associated groundwater samples in the cooler during the field event and during sample shipment to the laboratory.

8.3 Data Quality Assessment

The objective of data validation is to provide data of known quality for project decisions. Data quality is judged in terms of precision, accuracy, representativeness, comparability, completeness, and sensitivity. The analytical laboratory data for the groundwater sampling events were submitted to a third-party data validator, ESI (Environmental Standards, Inc.) or EDS (Environmental Data Services, Ltd.), for data validation and assessment. The following summary includes results provided during this reporting period that completed full data validation. Samples not meeting the acceptance criteria were qualified with a flag indicating a deficiency in the data. Groundwater data with validation qualifiers and reason codes are available in the Red Hill EDMS (see Appendix E - Data Validation Qualifier Tables).

8.3.1 Precision

Precision is defined as the reproducibility of replicate measurements. Precision is evaluated by the RPD of field duplicates (FDs), laboratory control sample/laboratory control sample duplicate (LCS/LCSD), matrix spike/matrix spike duplicate (MS/MSD), and laboratory duplicate results. Field duplicate and MS/MSD samples were collected at a rate of approximately 10 percent of primary samples. Field duplicates were sent to the laboratory along with the primary samples.

An RPD outside the numerical QC limit in MS/MSD samples, LCS/LCSDs, or FDs indicates poor precision. Thus, the actual analyte concentration has a larger potential variance from the measured value than recommended in the Project Quality Assurance Project Plan. Possible causes of poor precision include sample matrix interference, improper sample collection or handling, inconsistent sample preparation, and poor instrument stability.

The following exceptions to the groundwater RPD performance criterion of ≤20% for QC samples and ≤50% for field duplicates were reported during data validation:

- Four PAH samples were qualified as estimated due to field duplicate imprecision.
- Three NVDOC samples were qualified as estimated due to MS/MSD imprecision.
- One nitrate/nitrite sample was qualified as estimated due to MS/MSD imprecision.

Primary and field duplicate RPDs are presented in Table 8-2 for duplicate pairs in which the COPC was detected in one or both samples. When COPCs are not detected in the primary and field duplicate samples, the RPD is within control limits. RPDs could not be calculated when a primary or duplicate sample is not detected.

Table 8-2: Field Duplicate Analyte RPDs

Analyte	Screening Criterion (µg/L)	Sample ID	Concentration (µg/L)	RPD [a,b]
RHMW01R				
TPH-d	400	RHMW01R-WGN01LF-2312WK2-DF	86.2 J	8%
		RHMW01R-WGFD01LF-2312WK2-DF	91.3 J	
		RHMW01R-WGN01LF-2312WK3-DF	100 U	—
		RHMW01R-WGFD01LF-2312WK3-DF	103 J	
		RHMW01R-WGN01LF-2312WK4-DF	92.1 J	3.6%
		RHMW01R-WGFD01LF-2312WK4-DF	95.5 J	
		RHMW01R-WGN01LF-2401-DF	89.8 J	6%
		RHMW01R-WGFD01LF-2401-DF	86.6 J	
		RHMW01R-WGN01LF-2401WK2-DF	114 J	17%
		RHMW01R-WGFD01LF-2401WK2-DF	95.9 J	
		RHMW01R-WGN01LF-2401WK3-DF	85.5 J	7%
		RHMW01R-WGFD01LF-2401WK3-DF	90.4 J	
TPH-d SGC	—	RHMW01R-WGFD01LF-2312WK2-DF	90.7 J	6%
		RHMW01R-WGN01LF-2312WK2-DF	85.6 J	
		RHMW01R-WGN01LF-2401WK2-DF	92.3 J	—
		RHMW01R-WGFD01LF-2401WK2-DF	100 U	
		RHMW01R-WGN01LF-2401WK3-DF	100 U	—
		RHMW01R-WGFD01LF-2401WK3-DF	91.0 J	
TPH-d	400	RHMW02-WGN01LF-2310WK3-DF	990	17%
		RHMW02-WGFD01LF-2310WK3-DF	1170	
		RHMW02-WGN01LF-2310WK4-DF	1270	9%
		RHMW02-WGFD01LF-2310WK4-DF	1390	
		RHMW02-WGN01LF-2310WK5-DF	1140	18%
		RHMW02-WGFD01LF-2310WK5-DF	1300	
		RHMW02-WGN01LF-2311WK2-DF	1360	10%

Analyte	Screening Criterion (µg/L)	Sample ID	Concentration (µg/L)	RPD [a,b]
TPH-d (cont'd)	400	RHMW02-WGFD01LF-2311WK2-DF	1,500	10%
		RHMW02-WGN01LF-2311WK3-DF	1,530	3%
		RHMW02-WGFD01LF-2311WK3-DF	1,480	
		RHMW02-WGN01LF-2311WK4-DF	1,080	3%
		RHMW02-WGFD01LF-2311WK4-DF	1,110	
		RHMW02-WGN01LF-2312WK2-DF	1,250	3%
		RHMW02-WGFD01LF-2312WK2-DF	1,210	
		RHMW02-WGN01LF-2312WK3-DF	991	10%
		RHMW02-WGFD01LF-2312WK3-DF	1,100	
		RHMW02-WGN01LF-2312WK4-DF	1,030	8%
		RHMW02-WGFD01LF-2312WK4-DF	1,110	
RHMW02				
TPH-d	400	RHMW02-WGN01LF-2401WK2-DF	1,080	3%
		RHMW02-WGFD01LF-2401WK2-DF	1,110	
		RHMW02-WGN01LF-2401WK3-DF	942	3%
		RHMW02-WGFD01LF-2401WK3-DF	912	
TPH-d SGC	—	RHMW02-WGN01LF-2310WK3-DF	814	20%
		RHMW02-WGFD01LF-2310WK3-DF	992	
		RHMW02-WGN01LF-2310WK4-DF	992	0.1%
		RHMW02-WGFD01LF-2310WK4-DF	991	
		RHMW02-WGN01LF-2310WK5-DF	1,060	12%
		RHMW02-WGFD01LF-2310WK5-DF	1,190	
		RHMW02-WGN01LF-2311WK2-DF	1,110	3%
		RHMW02-WGFD01LF-2311WK2-DF	1,140	
		RHMW02-WGN01LF-2311WK3-DF	1,360	3%
		RHMW02-WGFD01LF-2311WK3-DF	1,320	
		RHMW02-WGN01LF-2311WK4-DF	920	3%
		RHMW02-WGFD01LF-2311WK4-DF	948	
		RHMW02-WGFD01LF-2312WK2-DF	1,030	16%
		RHMW02-WGN01LF-2312WK2-DF	1,210	
		RHMW02-WGN01LF-2312WK3-DF	908	7%
		RHMW02-WGFD01LF-2312WK3-DF	969	
		RHMW02-WGN01LF-2312WK4-DF	720	14%
		RHMW02-WGFD01LF-2312WK4-DF	828	
		RHMW02-WGN01LF-2401WK2-DF	944	4%
		RHMW02-WGFD01LF-2401WK2-DF	980	
		RHMW02-WGN01LF-2401WK3-DF	849	2%

Analyte	Screening Criterion (µg/L)	Sample ID	Concentration (µg/L)	RPD [a,b]
TPH-d SGC (cont'd)	—	RHMW02-WGFD01LF-2401WK3-DF	834	2%
TPH-o	500	RHMW02-WGN01LF-2310WK4-DF	160 U	—
		RHMW02-WGFD01LF-2310WK4-DF	88.5 J	
		RHMW02-WGN01LF-2310WK5-DF	150 U	—
		RHMW02-WGFD01LF-2310WK5-DF	90.6 J	
		RHMW02-WGN01LF-2311WK2-DF	101 J	18%
		RHMW02-WGFD01LF-2311WK2-DF	121 J	
		RHMW02-WGN01LF-2311WK3-DF	99.4 J	8%
		RHMW02-WGFD01LF-2311WK3-DF	91.6 J	
		RHMW02-WGN01LF-2311WK4-DF	160 U	—
		RHMW02-WGFD01LF-2311WK4-DF	92.5 J	
		RHMW02-WGN01LF-2312WK2-DF	86.7 J	8%
		RHMW02-WGFD01LF-2312WK2-DF	93.8 J	
TPH-o	500	RHMW02-WGN01LF-2312WK4-DF	88.6 J	5%
		RHMW02-WGFD01LF-2312WK4-DF	84.4 J	
		RHMW02-WGN01LF-2401WK2-DF	88.6 J	—
		RHMW02-WGFD01LF-2401WK2-DF	170 U	
TPH-o SGC	—	RHMW02-WGN01LF-2310WK5-DF	81.3 J	—
		RHMW02-WGFD01LF-2310WK5-DF	160 U	
		RHMW02-WGN01LF-2311WK2-DF	91.8 J	65%
		RHMW02-WGFD01LF-2311WK2-DF	89.2 J	
		RHMW02-WGN01LF-2311WK3-DF	87.3 J	—
		RHMW02-WGFD01LF-2311WK3-DF	170 U	
1MN	10	RHMW02-WGN01LF-2310WK3-DF	3.1	7%
		RHMW02-WGFD01LF-2310WK3-DF	2.9	
		RHMW02-WGN01LF-2310WK4-DF	3.1	25%
		RHMW02-WGFD01LF-2310WK4-DF	2.5	
		RHMW02-WGN01LF-2310WK5-DF	2.9	7%
		RHMW02-WGFD01LF-2310WK5-DF	3.1	
		RHMW02-WGN01LF-2311WK2-DF	2.0	16%
		RHMW02-WGFD01LF-2311WK2-DF	1.7	
		RHMW02-WGN01LF-2311WK3-DF	3.4 J	14%
		RHMW02-WGFD01LF-2311WK3-DF	3.9 J	
		RHMW02-WGN01LF-2311WK4-DF	1.6 J	0%
		RHMW02-WGFD01LF-2311WK4-DF	1.6 J	
		RHMW02-WGN01LF-2312WK2-DF	2.4	12%

Analyte	Screening Criterion (µg/L)	Sample ID	Concentration (µg/L)	RPD [a,b]
1MN (cont'd)	10	RHMW02-WGFD01LF-2312WK2-DF	2.7	12%
		RHMW02-WGN01LF-2312WK3-DF	1.4	35%
		RHMW02-WGFD01LF-2312WK3-DF	2.0	
		RHMW02-WGN01LF-2312WK4-DF	1.3	46%
		RHMW02-WGFD01LF-2312WK4-DF	0.81 J	
		RHMW02-WGN01LF-2401WK2-DF	1.8	0%
		RHMW02-WGFD01LF-2401WK2-DF	1.8	
		RHMW02-WGN01LF-2401WK3-DF	1.2	9%
		RHMW02-WGFD01LF-2401WK3-DF	1.1	
2MN	10	RHMW02-WGN01LF-2310WK3-DF	2.3	9%
		RHMW02-WGFD01LF-2310WK3-DF	2.1	
		RHMW02-WGN01LF-2310WK4-DF	1.7	27%
		RHMW02-WGFD01LF-2310WK4-DF	1.3	
		RHMW02-WGN01LF-2310WK5-DF	1.7	11%
		RHMW02-WGFD01LF-2310WK5-DF	1.9	
2MN	10	RHMW02-WGN01LF-2311WK2-DF	0.98	19%
		RHMW02-WGFD01LF-2311WK2-DF	0.81 J	
		RHMW02-WGN01LF-2311WK3-DF	1.7 J	26%
		RHMW02-WGFD01LF-2311WK3-DF	2.2 J	
		RHMW02-WGN01LF-2311WK4-DF	0.81 J	3%
		RHMW02-WGFD01LF-2311WK4-DF	0.79 J	
		RHMW02-WGN01LF-2312WK2-DF	0.91	19%
		RHMW02-WGFD01LF-2312WK2-DF	1.1	
		RHMW02-WGN01LF-2312WK3-DF	0.5 J	45%
		RHMW02-WGFD01LF-2312WK3-DF	0.79 J	
		RHMW02-WGN01LF-2312WK4-DF	0.58 J	—
		RHMW02-WGFD01LF-2312WK4-DF	0.42 U	
		RHMW02-WGN01LF-2401WK2-DF	0.73 J	4%
		RHMW02-WGFD01LF-2401WK2-DF	0.76 J	
		RHMW02-WGN01LF-2401WK3-DF	0.44 J	15 %
		RHMW02-WGFD01LF-2401WK3-DF	0.38 J	
N	17	RHMW02-WGN01LF-2310WK3-DF	7.2	1%
		RHMW02-WGFD01LF-2310WK3-DF	7.3	
		RHMW02-WGN01LF-2310WK4-DF	7.9	15%
		RHMW02-WGFD01LF-2310WK4-DF	6.8	
		RHMW02-WGN01LF-2310WK5-DF	7.8	3%
		RHMW02-WGFD01LF-2310WK5-DF	8.0	

Analyte	Screening Criterion (µg/L)	Sample ID	Concentration (µg/L)	RPD [a,b]
N (cont'd)	17	RHMW02-WGN01LF-2311WK2-DF	5.1	8%
		RHMW02-WGFD01LF-2311WK2-DF	4.7	
		RHMW02-WGN01LF-2311WK3-DF	9.3	10%
		RHMW02-WGFD01LF-2311WK3-DF	10.3	
		RHMW02-WGN01LF-2311WK4-DF	3.0	3%
		RHMW02-WGFD01LF-2311WK4-DF	2.9	
		RHMW02-WGN01LF-2312WK2-DF	7.4	10%
		RHMW02-WGFD01LF-2312WK2-DF	8.2	
		RHMW02-WGN01LF-2312WK3-DF	3.6 J	27%
		RHMW02-WGFD01LF-2312WK3-DF	4.7 J	
		RHMW02-WGN01LF-2312WK4-DF	2.8 J	38%
		RHMW02-WGFD01LF-2312WK4-DF	1.9 J	
		RHMW02-WGN01LF-2401WK2-DF	3.4	6%
		RHMW02-WGFD01LF-2401WK2-DF	3.6	
		RHMW02-WGN01LF-2401WK3-DF	2.6	8%
		RHMW02-WGFD01LF-2401WK3-DF	2.4	
RHMW17				
TPH-g	300	RHMW17-WGN01LF-2312WK4-DF	50.0 U	19%
		RHMW17-WGFD01LF-2312WK4-DF	41.5 J	
TPH-d	400	RHMW17-WGN01LF-2401-DF	100	15%
		RHMW17-WGFD01LF-2401-DF	85.7	
TPH-o	500	RHMW17-WGN01LF-2401-DF	89.9 J	14%
		RHMW17-WGFD01LF-2401-DF	124 J	
TPH-o SGC	—	RHMW17-WGN01LF-2401-DF	80.3 J	29%
		RHMW17-WGFD01LF-2401-DF	107 J	

Notes:

— not calculable
% percent
J estimated value
J- estimated low
N/A not applicable
U non-detect value
UJ non-detect estimate value

[a] Field duplicate RPD measurement performance criterion for groundwater is 50 percent in accordance with the criteria presented in Table 5-1 of the SAP (DON 2017b, 2018c) and Table 3-2 of the SAP addenda (DON 2017d, 2018g).

[b] RPD = $\frac{|(x2 - x1)|}{((X2+X1)/2)}$

No primary or field duplicate RPDs violated the performance criterion. No other precision concerns were identified for data validated during the reporting period.

8.3.2 Accuracy

Accuracy is defined as the degree of conformity of a measurement to a standard or true value. Accuracy is evaluated through measurement of the percent recovery (%R) of an analyte in a reference standard or spiked sample. Accuracy also encompasses the percent difference (%D) between the initial calibration verification (ICV) and the continuing calibration verification (CCV). Accuracy limits for internal standards, surrogates, LCS, MS, and MSD samples are either prescribed by the DoD or established by the individual laboratory.

Initial and continuing calibration results provide a means of evaluating accuracy within a particular sample delivery group (SDG). Relative response factor (RRF), percent relative standard deviation (%RSD), and percent difference (%D) are the three major parameters used to measure the effectiveness of instrument calibration. RRF is a measure of the relative spectral response of an analyte compared to its internal standard. %RSD is an expression of the linearity of instrument response. %D is a comparison of a continuing calibration instrumental response with its initial response. %RSD and %D exceedances suggest routine instrumental anomalies, which typically impact all sample results for the affected compounds.

The acceptance criteria for accuracy are dependent on the analytical method and based on historical laboratory or DoD data.

The following groundwater data validated during the reporting period deviated from the established QC criteria and have been qualified as estimated (J), estimated biased low (J-), estimated biased high (J+), or not-detected estimated (UJ). Not-detected results are at the limit of detection (LOD):

- Twenty primary and four field duplicate not detected results and one detected result for VOC were qualified as UJ and J respectively because the %D for the initial or closing CCV exceeded control limits.
- Four primary and two field duplicate not detected results for VOCs were qualified as UJ because of QC samples recovering outside the acceptance limit.
- Four primary not detected results for EDB was qualified as UJ because of QC samples recovering outside the acceptance limit.
- Two primary not detected results for EDB were qualified as UJ because the %D for the initial or closing CCV exceeded control limits.
- 191 primary and 19 field duplicate not detected results for 2-2-MEE were qualified as UJ because of QC samples recovering outside the acceptance limit.
- One primary and one field duplicate not detected result for 2-2-MEE was qualified as UJ because the %D for the initial or closing CCV exceeded control limits.
- Seven primary not detected result for phenol was qualified as UJ because the %D for the initial or closing CCV exceeded control limits.
- Twenty-one primary and three field duplicate not detected results, and 11 detected results for PAHs were qualified as UJ and J respectively because the %D for the initial and closing CCV exceeded control limits.
- 133 primary and 12 field duplicate not detected results for PAHs were qualified as UJ due to high %RSDs (%RSD > 15%). 19 primary and six field duplicate detected results for PAHs were qualified as J due to high % RSDs.

- Four primary and one field duplicate not detected result for PAHs were qualified as UJ and one primary detected result was qualified as J+ because of QC samples recovering outside the acceptance limit.
- One primary not detected result for TPH-d was qualified as UJ because of QC samples recovering outside the acceptance limit.
- Two primary and two field duplicate detected results for TPH-o, and one primary and one field duplicate detected results for TPH-o SGC were qualified as J because of QC samples recovering outside the acceptance limit.
- Two primary not detected, and one detected result for TOC were qualified as UJ and J- respectively because of QC samples recovering below the acceptance limit.
- One primary not detected, and four detected results for NVDOC were qualified as UJ and J respectively because of QC samples recovering below the acceptance limit.
- Two primary detected result for sodium were qualified as J+ because of QC samples recovering outside the acceptance limit.

Rejected data occurred due to significant deficiencies in meeting the published method and project QC criteria, as described in Section 8.3.4.

8.3.3 Representativeness

Representativeness is the degree to which data accurately and precisely represent a characteristic of a population, parameter variations at a sampling point, or an environmental condition. Representativeness can be supported by using regulator-approved, industry-standard sampling and analysis protocols that were developed to address a specific data quality objective of the sampled medium.

During the sampling rounds for this reporting period:

- Groundwater samples for the Consolidated Groundwater Sampling Program were collected in accordance with procedures described in the DOH-approved AOC Statement of Work Sections 6 and 7, Work Plan/Scope of Work (DON 2017a) and the associated project Sampling and Analysis Plan and addenda (DON 2017b; 2017c; 2017d), including standardized sample collection methods identified in NAVFAC Pacific Environmental Restoration Program Project Procedure I-C-3, Monitoring Well Sampling (DON 2015):
  - This procedure outlines collection of groundwater samples from a specific depth directly beneath the water table using a low-flow pumping strategy. Samples consist generally of dissolved constituents within the aquifer; the samples will not collect LNAPL or compounds in the LNAPL/groundwater interface (if one existed).
  - Results from these samples represent groundwater from one depth, below the water table.
- Prior to the Consolidated Groundwater Sampling Program (DON 2023h), groundwater samples from wells that are screened across the water table were collected with a bailer, based on DOH's request:[1]
  - Sampling with a bailer was requested to collect water at the groundwater/air interface along with any potential LNAPL that may be present. Sampling with a bailer may introduce air and

[1] Email from L. Galvez, DOH-HEER, to S. Eng, Navy Region Hawaii; May 28, 2021.

turbulence to the sample, which may volatilize VOCs in the groundwater matrix. The bailer technique is also less repeatable and therefore adds a degree of variability into the results, which may be less representative of actual conditions at the water table.

- In addition, DOH requested no purging be associated with this method; therefore, the methodology is likely to be affected by any localized equilibrium within the well and filter pack, and the results may not represent water flowing through the aquifer.
- This methodology is contrary to the DOH Technical Guidance Manual for the Implementation of the Hawaii State Contingency Plan (TGM) (DOH 2023), which "recommends that low-flow purging and sampling approaches be utilized whenever feasible in order to improve the representativeness of the sample data."

Representativeness is evaluated through compliance with the method-recommended sample holding time and sample preservation methods and through the analysis of blank samples, including method blank, equipment blank, field blank, and trip blank samples (DoD 2021). All sample holding times, sample preservation, and any impacts of associated blank contamination have been evaluated in accordance with EPA SW-846 method recommendations and DoD *Quality Systems Manual Version 5.4* (DoD and DOE 2021) during validation.

The following detected sampling results for the groundwater and sump water data were reported below the LOD and were qualified as not detected (U) at the LOD due to field, equipment, laboratory, instrument, or trip blank contamination:

- 23 TPH-g, two TPH-o, 56 NVDOC, 91 TOC, two nitrate-nitrite, and one manganese groundwater results were qualified not detected (U) due to contamination in field, equipment, laboratory, instrument, or trip blanks.

The following detected results reported above the LOD and less than or equal to five times the blank contamination were flagged due to field, equipment, instrument, lab or trip blank contamination:

- One TPH-g detected result was flagged as J due to contamination in the trip blank.
- 22 NVDOC detected results were flagged as J+ due to contamination in the lab blank.
- Nine TOC detected results were flagged as J+ due to contamination in the lab blank.

Pending validation, detections in the field blanks and equipment blanks are summarized to aid in discussion of the analytical results. Field blank and equipment blank detections with final results are available in the data validation table available through the Red Hill EDMS (see Appendix E – Data Validation Qualifier Tables).

The following groundwater results were flagged for the specified methods due to samples being extracted or analyzed beyond the method-recommended holding times:

- One TPH-d not detected result was flagged as UJ and one TPH-d detected result was flagged as J- due to sample preparation occurring beyond the method-recommended holding time. Additionally, six not detected results were flagged as UJ due to cooler temperature received outside of control limits.
- One TPH-d SGC result was flagged as J due to sample preparation occurring beyond the method-recommended holding time.

six not detected results were flagged as UJ due to cooler temperature received outside of control limits.

- One TPH-o SGC result was flagged as J due to sample preparation occurring beyond the method-recommended holding time.
- Five TPH-g not detected results and one detected result were flagged as UJ and J- respectively, due to cooler temperature received outside of control limits.
- Four PAH not detected results were flagged as UJ due to sample preparation occurring beyond the method-recommended holding time.
- One methane not detected result was flagged as UJ due to sample analysis occurring beyond the method-recommended holding time.
- Nine VOC not detected result was flagged as UJ due to sample analysis occurring beyond the method-recommended holding time. Additionally, six not detected results were flagged as UJ due to cooler temperature received outside of control limits.
- One SVOC not detected result was flagged as UJ due to sample preparation occurring beyond the method-recommended holding time.
- 12 2-2-MEE not detected results were flagged as UJ due to sample preparation occurring beyond the method-recommended holding time.
- Two ferrous iron not detected result was flagged as UJ due to sample analysis occurring beyond the method-recommended holding time.
- Two EDB not detected results were flagged as UJ due to cooler temperature received outside of control limits.
- One DOC detected result was flagged as J- due to not meeting sample preservation/collection requirements.
- Six TOC detected result was flagged as J- due to not meeting sample preservation/collection requirements.

No other representativeness concerns were identified during validation of the sample results.

8.3.4 Completeness

Completeness is defined as the overall percentage of valid analytical results (including estimated results) compared to the total number of analytical results reported by the analytical laboratory.

Rejected data (R) occurred due to significant deficiencies in meeting the published method and project QC criteria. The presence or absence of the compound cannot be supported by the data provided and is excluded for data usability and assessment.

Validated data provided during the reporting period included 12 results that were rejected due to QC samples significantly exceeding control limits. Results that were impacted include the following:

- One PAH and five 2-2-MEE primary samples, and one field duplicate for 2-2-MEE were rejected (R) because the sample was prepared outside the method-required holding time.
- One 2-2-MEE primary sample was rejected (R) due to QC samples having recoveries significantly outside the acceptance limit

- Four TOC primary samples were rejected since sample preservation/collection requirements were not met.

Based on the frequency of sampling and the quantity of data collected, the loss of these data points does not constitute a significant data gap for the sampling events. The completeness of the data (99.8 percent) met the 90 percent completeness goal.

8.3.5 Comparability

Comparability expresses the confidence with which one data set can be compared to another. Comparability can be related to accuracy and precision because these quantities are measures of data reliability. Data with acceptable precision and accuracy are considered comparable if collection techniques, analytical procedures, methods, and reporting are equivalent.

The laboratories used standard analytical methods for all analyses. In all cases, the detection limits and LODs attained were below the specified LOQs. Target analytes detected below the LOQs flagged (J) by the laboratory are considered estimated. The data presented can be compared to and evaluated against regulatory standards as required for this report.

8.3.6 Sensitivity

The LOQs are established by the laboratory based on the LODs or instrument detection limits and limits established for the various methods. The LOQs and LODs for samples may require adjustment by the laboratory due to matrix interference or when high levels of target analytes necessitate dilution before analysis. Matrix interference and sample dilutions decrease sensitivity and increase the LOQs/LODs. No results in this data set had increased LOQs or LODs that impacted sensitivity and data usability.

8.4 Data Quality Assessment Conclusions

The precision, accuracy, representativeness, comparability, completeness, and sensitivity criteria were evaluated by Environmental Standards, Inc. in Valley Forge, Pennsylvania, and Environmental Data Services, Ltd. in Pittsburgh, Pennsylvania, the project third-party data validators for groundwater samples. Complete validation reports received to date are listed in Appendix D.

Groundwater sample analysis and third-party data validation are ongoing and pending completion for a number of samples collected during this reporting period. These pending sample results will be included in the next Quarterly Release Response Report. Laboratory and field data quality will be fully assessed pending availability of additional laboratory and third-party data validation reports.

The third-party data assessment for the provided data concluded that 99.8 percent of the data generated during the sampling events reported herein are usable for the intended purpose with the limitations described above.

9.0 Analytical Results

Analytical results for soil vapor and groundwater samples collected during this reporting period are presented below, along with the results of free product gauging and headspace measurements performed as part of the Consolidated Groundwater Sampling Program (DON 2023h). No soil samples associated with monitoring well installation were collected during this reporting period.

9.1 Soil Vapor Analytical Results

9.1.1 Below-Tank Sampling Locations

AOC soil vapor measurements of total VOCs collected below the fuel storage tanks since January 2014 are provided in EDMS (see Appendix E - Soil Vapor Measurements Below Tanks) and the DOH Red Hill Technical Documents web pages.[2] Soil vapor PID measurements of total VOCs for Tanks 2 through 18 and 20 are presented in Appendix A.1; and soil chromatograms for passivated canister samples collected below Tanks 15, 17, 18, and 20 for laboratory reports validated during this reporting period are presented in Appendix A.2. PID measurements during tank defueling are presented in Appendix A.3. Soil vapor analytical data reports for passivated canister samples collected below the fuel storage tanks are indexed in Appendix C and available in EDMS (see Appendix E - Soil Vapor Analytical Laboratory Reports).

Laboratory results for below-tank SVMPs during this reporting period are consistent with recent monitoring periods. The cumulative results are consistent with natural attenuation and weathering of LNAPL in the environment, indicating that the vapor impacts from the May 2021 Release have attenuated.

9.1.2 Adit 3 Tunnel Sampling Locations

During this reporting period, SVMPs in the Adit 3 Tunnel were monitored monthly, as well as additional out-of-frequency monitoring events. Figure 5 shows the results of soil vapor monitoring from subslab and shallow SVMPs installed in the floor of the Adit 3 and Pearl Harbor Tunnels during the reporting period. As shown on the figure, the results showed fluctuations over time. An overall decrease in concentrations measured has been observed since the commencement of monitoring in December 2021. Historical soil vapor monitoring observations can be found in the previous RRR (DON 2023p).

9.2 Free Product Gauging and Monitoring Well Headspace Measurements

Free product gauging results and headspace measurements collected during the reporting period are presented in Section 5.2 and Appendix B.2.1. Free product was not detected at any monitoring location outside the Adit 3 Tunnel, as discussed in Section 7.2.

9.3 Groundwater Analytical Results

Groundwater samples were analyzed for the parameters and methods described in Section 6.0.

Appendix B.1 summarizes samples collected, laboratory analytical methods, and status of SDG reports. The sampling events covered in this report include data that have been validated within this reporting period; i.e., those for which Level II and Level IV data packages have been issued and validated. Appendix B.4.1 provides groundwater monitoring well results compared to the EALs for each analyte group. TPH and PAH groundwater results collected during this reporting period are graphically displayed over time in Appendix B.4.2. Appendix B.5 provides chromatograms of detections and exceedances observed during the current period. Final Level II and IV analytical reports and data validation reports are indexed in Appendix D. Historical analytical results are presented in the previous RRR (DON 2023p) and GW LTM Report (DON 2023o).

Analytical results for the current reporting period are summarized in Table 9-1. Summary statistics for all sample results validated during this reporting period are presented in Table 9-2. TPH and PAH groundwater analytical results are depicted on Figure 6 through Figure 10.

[2] https://health.hawaii.gov/ust/ust-home-test/ust-red-hill-project-main/#technical-docs

Table 9-1: Summary of Groundwater Analytical Results, Current Reporting Period

Monitoring Location	COPC, Fuel Additive, or Lead Scavenger Detection Below Screening Criterion	Analyte Concentration Exceeding Screening Criterion
RHMW2254-01	TPH-g TPH-d (ND after SGC) TPH-o (ND after SGC)	None
RHMW01R	TPH-d (lower after SGC) TPH-o (ND after SGC) 1-Methylnaphthalene Naphthalene	TPH-o: 545 µg/L (screening criterion: 500 µg/L)
RHMW02	TPH-g TPH-d (lower after SGC) TPH-o (lower after SGC) Ethylbenzene Xylenes 1-Methylnaphthalene 2-Methylnaphthalene Naphthalene	TPH-d: 2,110; 1,190; 1,460; 1,850; 990; 1,170; 1,270; 1,390; 1,140; 1,300; 1,090; 1,270; 1,360; 1,500; 1,530; 1,480; 1,080; 1,110; 693; 835; 1,250; 1,210; 991; 1,100; 1,030; 1,110; 1,050; 1,080; 1,110; 942; and 912 µg/L (screening criterion: 400 µg/L) (below SSRBL: 4,500 µg/L)
RHMW03	TPH-d (ND after SGC) TPH-o (ND after SGC)	None
RHMW04	TPH-d (lower after SGC) TPH-o (lower after SGC)	None
RHMW05	TPH-d (ND after SGC)	None
RHMW08	TPH-d (ND after SGC) TPH-o (lower after SGC)	None
RHMW09	TPH-d (ND after SGC)	None
RHMW11-05	TPH-g	None
RHMW13-04	TPH-g TPH-d (ND after SGC) TPH-o (ND after SGC)	None
RHMW13-05	TPH-o (ND after SGC)	None
RHMW14-03	TPH-o (ND after SGC)	None
RHMW16	TPH-g Naphthalene	None
RHMW17	TPH-g TPH-d (ND after SGC) TPH-o (lower after SGC)	TPH-d: 1,040; 884 µg/L (screening criterion: 400 µg/L) TPH-o: 791; 687 µg/L (screening criterion: 500 µg/L)
RHMW18	TPH-d (lower after SGC) TPH-o (lower after SGC) Toluene	None
RHMW19	TPH-d (lower after SGC) TPH-o (lower after SGC)	None

Monitoring Location	COPC, Fuel Additive, or Lead Scavenger Detection Below Screening Criterion	Analyte Concentration Exceeding Screening Criterion
RHMW20	TPH-d (ND after SGC) TPH-o (lower after SGC)	None
RHP02	TPH-g TPH-d (ND after SGC) TPH-o (detected after SGC) Chrysene	None
RHP04A	TPH-g	None
RHP04B	TPH-d (ND after SGC) TPH-o (ND after SGC)	None
RHP04C	TPH-g	None
RHP05	TPH-g TPH-d (lower after SGC) TPH-o (lower after SGC)	None
RHP07	TPH-d (ND after SGC)	None
RHP08	TPH-g Chrysene	None
NMW25	TPH-g TPH-d (ND after SGC) TPH-o (lower after SGC)	None
NMW30	TPH-d (ND after SGC) TPH-o (ND after SGC) Toluene	None
NMW33	TPH-d (ND after SGC) TPH-o (ND after SGC)	None

µg/L micrograms per liter
COPC chemical of potential concern
ND non-detect
SGC silica gel cleanup
SSRBL Site-Specific Risk-Based Level
TPH-d total petroleum hydrocarbons – diesel range organics
TPH-o total petroleum hydrocarbons – residual oil range organics

Table 9-2. Summary of Currrent Analytical Groundwater Results

Chemical of Concern	CAS	Method	Units	Number of Samples [a, b, c]	Number of Non-Detects	Number of Detects	Detection Frequency	Minimum Detected Value		Maximum Detected Value		Location of Minimum Detect	Location of Maximum Detect	Project Screening Criteria		
								Value [1]	Qualifier	Value [1]	Qualifier			Criteria	Number of Exceedances	Exceedance Frequency
TPH and Fuel Related Compounds																
TPH-g	PHCC6C10	8015	µg/L	461	444	17	3.7%	3.26	J	57.6	J	RHMW11-05	RHP04A	300	0	0.0%
TPH-d	PHCC10C24	8015	µg/L	560	476	84	15.0%	55.3	J	2110		NMW30	RHMW02	400	33	5.9%
TPH-d with Silica Gel Cleanup	PHCC10C24SGC	8015	µg/L	93	37	56	60.2%	80.3	J	1620		RHMW01R	RHMW02	—	0	0.0%
TPH-o	PHCC24C40	8015	µg/L	560	513	47	8.4%	82.1	J	791		RHMW08	RHMW17	500	3	0.5%
TPH-o with Silica Gel Cleanup	PHCC24C40SGC	8015	µg/L	93	74	19	20.4%	ND		498		—	RHMW17	—	0	0.0%
BTEX, Full Suite VOCs, and Lead																
Benzene	71-43-2	8260	µg/L	461	461	0	0.0%	ND		ND		—	—	5	0	0.0%
Ethylbenzene	100-41-4	8260	µg/L	461	460	1	0.2%	0.0912	J	0.0912	J	RHMW02	RHMW02	30	0	0.0%
Toluene	108-88-3	8260	µg/L	461	456	5	1.1%	0.49	J	5.2		RHMW18	RHMW18	40	0	0.0%
Xylenes	1330-20-7	8260	µg/L	461	460	1	0.2%	0.121	J	0.121	J	RHMW02	RHMW02	20	0	0.0%
Lead Scavengers																
1,2-Dibromoethane	106-93-4	8011	µg/L	333	333	0	0.0%	ND		ND		—	—	0.04	0	0.0%
1,2-Dichloroethane	107-06-2	8260	µg/L	362	362	0	0.0%	ND		ND		—	—	5	0	0.0%
Fuel Additives																
Phenol	108-95-2	SW8270	µg/L	461	461	0	0.0%	ND		ND		—	—	58	0	0.0%
2-(2- Methoxyethoxy)-ethanol	111-77-3	8270	µg/L	330	330	0	0.0%	ND		ND		—	—	800	0	0.0%
AOC / Groundwater LTM PAHs																
1-Methylnaphthalene	90-12-0	8270 SIM	µg/L	559	517	42	7.5%	0.57	J	3.9	J	RHMW01R	RHMW02	10	0	0.0%
2-Methylnaphthalene	91-57-6	8270 SIM	µg/L	559	529	30	5.4%	0.36	J	2.4		RHMW02	RHMW02	10	0	0.0%
Naphthalene	91-20-3	8270 SIM	µg/L	559	524	35	6.3%	0.34	J	10.3		RHMW16	RHMW02	17	0	0.0%
PAHs																
Acenaphthene (SIM)	83-32-9	8270SIM	µg/L	460	460	0	0.0%	ND		ND		—	—	15	0	0.0%
Acenaphthylene (SIM)	208-96-8	8270SIM	µg/L	460	460	0	0.0%	ND		ND		—	—	13	0	0.0%
Anthracene (SIM)	120-12-7	8270SIM	µg/L	460	460	0	0.0%	ND		ND		—	—	0.02	0	0.0%
Benzo(a)anthracene (SIM)	56-55-3	8270SIM	µg/L	460	460	0	0.0%	ND		ND		—	—	0.027	0	0.0%
Benzo(a)pyrene (SIM)	50-32-8	8270SIM	µg/L	460	460	0	0.0%	ND		ND		—	—	0.06	0	0.0%
Benzo(b)fluoranthene (SIM)	205-99-2	8270SIM	µg/L	460	460	0	0.0%	ND		ND		—	—	0.22	0	0.0%
Benzo(g,h,i)perylene (SIM)	191-24-2	8270SIM	µg/L	460	460	0	0.0%	ND		ND		—	—	0.13	0	0.0%
Benzo(k)fluoranthene (SIM)	207-08-9	8270SIM	µg/L	460	460	0	0.0%	ND		ND		—	—	0.4	0	0.0%
Chrysene (SIM)	218-01-9	8270SIM	µg/L	460	458	2	0.4%	0.037	J	0.037	J	RHP08	RHP08	1	0	0.0%
Dibenzo(a,h)anthracene (SIM)	53-70-3	8270SIM	µg/L	460	460	0	0.0%	ND		ND		—	—	0.022	0	0.0%
Fluoranthene (SIM)	206-44-0	8270SIM	µg/L	460	460	0	0.0%	ND		ND		—	—	0.8	0	0.0%
Fluorene (SIM)	86-73-7	8270SIM	µg/L	460	460	0	0.0%	ND		ND		—	—	3.9	0	0.0%
Indeno(1,2,3-cd)pyrene (SIM)	193-39-5	8270SIM	µg/L	460	460	0	0.0%	ND		ND		—	—	0.095	0	0.0%
Phenanthrene (SIM)	85-01-8	8270SIM	µg/L	460	460	0	0.0%	ND		ND		—	—	2.3	0	0.0%
Pyrene (SIM)	129-00-0	8270SIM	µg/L	460	460	0	0.0%	ND		ND		—	—	4.6	0	0.0%
Natural Attenuation Parameters																
Total Organic Carbon	TOC	9060	µg/L	176	104	72	40.9%	296	J	5580		RHMW16	RHMW18	—	0	0.0%
NV Dissolved Organic Carbon	DOC	9060	µg/L	144	48	96	66.7%	500		6300		RHP08	RHMW11-05	—	0	0.0%
Methane	74-82-8	SW8015	µg/L	209	121	88	42.1%	0.16	J	3670		RHMW12A	RHMW02	—	0	0.0%

Note[1]: The minimum and maximum detected values are given for each analyte. If the analyte was not detected in any sample, "ND" is shown for minimum or maximum detected values.

Note[2]: If the minimum or maximum result value occurs at more than one location only the location of the first occurrence is given.

[a] Includes normal and field duplicate samples.

[b] Does not include sample results rejected by validation.

[c] Wells sampled during this reporting period include the following: HDMW2253-03, NMW24, NMW25, NMW30, NMW32, NMW33, RHMW01R, RHMW02, RHMW03, RHMW04, RHMW05, RHMW06, RHMW08, RHMW09, RHMW10, RHMW11-05, RHMW12A, RHMW13-04, RHMW13-05, RHMW14-03, RHMW15-05, RHMW16, RHMW17, RHMW19, RHMW20, RHMW2254-01, RHP01, RHP02, RHP03, RHP04A, RHP04B, RHP04C, RHP05, RHP06, RHP07, and RHP08.

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TPH-d Sample Results – Red Hill Monitoring Wells

(b) (3) (A)

TPH-d Sample Results – Plume Delineation Wells

(b) (3) (A)

TPH-d Sample Results – Sentinel Wells

(b) (3) (A)

Figure 6: TPH-d Groundwater Analytical Results Summary

TPH-o Sample Results – Red Hill Monitoring Wells

(b) (3) (A)

TPH-o Sample Results – Plume Delineation Wells

(b) (3) (A)

TPH-o Sample Results – Sentinel Wells

(b) (3) (A)

Figure 7: TPH-o Groundwater Analytical Results Summary

Naphthalene Sample Results – Red Hill Monitoring Wells

(b) (3) (A)

Naphthalene Sample Results – Plume Delineation Wells

(b) (3) (A)

Naphthalene Sample Results – Sentinel Wells

(b) (3) (A)

Figure 8: Naphthalene Groundwater Analytical Results Summary

1-Methylnaphthalene Sample Results – Red Hill Monitoring Wells

(b) (3) (A)

1-Methylnaphthalene Sample Results – Plume Delineation Wells

(b) (3) (A)

1-Methylnaphthalene Sample Results – Sentinel Wells

(b) (3) (A)

Figure 9: 1-Methylnaphthalene Groundwater Analytical Results Summary

2-Methylnaphthalene Sample Results – Red Hill Monitoring Wells

(b) (3) (A)

2-Methylnaphthalene Sample Results – Plume Delineation Wells

(b) (3) (A)

2-Methylnaphthalene Sample Results – Sentinel Wells

(b) (3) (A)

Figure 10: 2-Methylnaphthalene Groundwater Analytical Results Summary

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Detected sample concentrations for data validated during the current reporting period are described by analyte below. The extent and magnitude of groundwater contamination are further evaluated in Section 10.1.

9.3.1 TPH

Three TPH ranges were analyzed as COPCs: TPH-gasoline range organics (TPH-g), TPH-diesel range organics (TPH-d), and TPH-oil range organics (TPH-o). These are representative of gasoline, middle distillates (kerosene, jet, and diesel fuels), and heavy oils (motor oil), respectively.

9.3.1.1 TPH-G

TPH-g was detected at low concentrations once at RHMW2254-01, RHMW13-04, RHMW16, RHP04A, RHP05, NMW25, and RHP08, and twice at RHMW02, RHMW11-05, RHMW17, RHP02, RHP04C. There were no exceedances above the EAL**.** Many of the low-level detections have been attributed to lab contamination or are close to the detection limit in the range of instrument noise. Concentrations remained stable and consistent with historical ranges for all wells.

9.3.1.2 TPH-D

Exceedances of the 400 µg/L EAL were reported for all samples at in-tunnel well RHMW02 (which consistently exceeds the EAL) and two samples (primary and duplicate) at outlying well RHMW17 during the June 15, 2023 sampling event. The maximum detected TPH-d concentration for the in-tunnel wells was 2,110 µg/L at RHMW02.

As depicted in Appendix B.5, the sample exceedances from RHMW02 exhibited chromatographic profiles with peaks spanning the carbon range (C10–C24) characteristic of some dissolved components of jet fuel and a "hump" in the TPH-d range consistent with metabolites from JP-5/JP-8 and degraded jet fuels in general. The corresponding SGC chromatograms for RHMW02 have been typical of dissolved aromatic hydrocarbons expected from jet fuel. However, results from SGS Orlando are atypical. with less removal of polar matter because of the use of a shake method, which is less efficient in removing polar materials. As a result, the chromatograms after SGC still show some of the polar "hump," and the concentrations reported after SGC are higher than expected.

The TPH-d exceedances at RHMW17 (primary and field duplicate samples) occurred concurrently when transducers were deployed within the well. The chromatograms are not characteristic of fuel, water soluble components of fuel or fuel metabolites but have several large discrete peaks. GC/MS analysis of these samples indicated the presence of n,n-diethyl-3-methylbenzamide (DEET). DEET is an active component of insect repellents. DEET formulations include propellants and petroleum derived carriers. Other fuel related COPCs (PAHs and BTEX) were not detected. The TOC concentrations for this sampling event is one of the highest observed for the well (7,600 µg/L). Subsequent sampling events were not detected.

No TPH-d exceedances were reported for the other sampling locations.

As shown on Figure 6, TPH-d was detected below the EAL at in-tunnel wells RHMW2254-01, RHMW01R, RHMW03, RHMW05, and RHP07; at outlying wells RHMW04, RHMW08, RHMW09, RHMW13-04 (multilevel well), RHMW17, RHMW18, RHMW19, and RHMW20; at delineation wells RHP02, RHP04B, and RHP05; and sentinel wells NMW25, NMW30, and NMW33.

Detected TPH-d sample concentrations from monitored wells for data validated during the current reporting period are summarized as follows:

- TPH-d concentrations at in-tunnel wells appear to be stable or decreasing, with RHMW02 exhibiting consistent EAL exceedances. The chromatographic fingerprints from the detections at RHMW01R are consistent with being impacted by potential metabolites that are mostly removed by SGC. Because RHMW01R is situated in proximity to RHMW02, it may be impacted by natural attenuation processes occurring at RHMW02. TPH-d concentrations for RHMW03, RHMW05, and RHP07 were not detected in the majority of the sampling events, with one sporadic low-level detection. The chromatographic profiles for these wells were not consistent with those observed in RHMW01R and RHMW02 and were not characteristic of dissolved fuel components or fuel metabolites.
- TPH-d concentrations at outlying, delineation, and sentinel wells appear to be stable, and TPH-d was not detected in the majority of the sampling events, with sporadically occurring low-level detections. Delineation well RHP04B concentrations have been decreasing since the inception of monitoring. RHMW18 is a newly constructed well and the TPH-d concentrations are most likely attributable to a lubricant or grease introduced during drilling, as evidenced by concentrations continuing to decline over time.
- TPH-d concentrations at RHMW2254-01 (Red Hill Shaft) consistently exceeded the EAL immediately following the November 2021 Release, but have not exceeded the EAL since March 2022, with only one detection (128 J µg/L) for data validated during this reporting period.

The chromatograms for all outlying, delineation, and sentinel well TPH-d detected concentrations are not characteristic of fuel, water-soluble components of fuel, or fuel metabolites. Chromatograms either exhibited a few relatively large discrete peaks in the TPH-d range or short, broad peaks along the baseline from the ~C22 to C40 range and beyond. SGC resulted in partial and selective removal of the peaks. One sampling event from RHMW17 showed evidence of the presence of insect repellent.

9.3.1.3 TPH-o

Exceedances above the EAL of 500 µg/L were reported once at in-tunnel well RHMW01R and at outlying well RHMW17 for two samples (primary and duplicate) during the June 15, 2023 sampling event and concurrent with the TPH-d exceedances. As depicted in Appendix B.5, the chromatographic pattern for the TPH-o exceedance at RHMW01R shows a continuum of bumps along the baseline from the ~C22 to C40 TPH-o range and beyond. The chromatographic profile is not typical or consistent with fuels, dissolved fuel components or fuel metabolites. There is complete removal of the fingerprint with SGC, suggesting the detection is from polar constituents. The chromatograms for RHMW17 (primary and field duplicate samples) are not characteristic of fuel, water soluble components of fuel or fuel metabolites and the TPH-o is primarily due to a single peak. DEET (insect repellent) was identified in the TPH-d range of these samples from RHMW17. Other fuel related COPCs (PAHs and BTEX) were not detected. The TOC concentrations for this sampling event is one of the highest observed for the well (7,600 µg/L). RHMW17 occurred concurrently when transducers were deployed within the well. Subsequent sampling events were not detected. No TPH-o exceedances were reported for the other sampling locations.

As shown on Figure 7, TPH-o was detected below the EAL at in-tunnel wells RHMW2254-01, RHMW01R, RHMW02, and RHMW03; at outlying wells RHMW04, RHMW08, multilevel wells RHMW13-04, RHMW13-05, and RHMW14-03, and RHMW17, RHMW18, RHMW19, and RHMW20; at delineation wells RHP04B and RHP05; and at sentinel wells NMW25, NMW30, and NMW33.

Detected TPH-o sample concentrations from monitored wells for data validated during the current reporting period are summarized as follows:

- TPH-o concentrations at in-tunnel wells appear to be stable or decreasing. The chromatographic fingerprints from the detections can be considered impacted by potential metabolites that are entirely removed by SGC. TPH-o concentrations were not detected in the majority of the sampling events, with one or two sporadic detections for the majority of the in-tunnel wells except for RHMW02 in which TPH-o was detected for half of the sampling events validated during the reporting period. The chromatographic profiles for these wells except for RHMW02 were not characteristic of dissolved fuel components. The TPH-o detections at RHMW02 are attributed to some dissolved components of the jet fuel "hump" in the TPH-d range**.**
- TPH-o concentrations at outlying, delineation, and sentinel wells appear to be stable, with TPH-o not detected in the majority of the sampling events, and one or two sporadic low-level detections.
- TPH-o detections in one sampling event from RHMW17 are potentially due to contamination by insect repellents.
- RHMW18 is a newly constructed well, and the TPH-o concentrations is most likely attributed to a lubricant or grease introduced during drilling; concentrations continue to decline over time.
- TPH-o concentrations at RHMW2254-01 (Red Hill Shaft) consistently exceeded the EAL immediately following the November 2021 Release, but have not exceeded the EAL since March 2022, with only one detection (223 J µg/L) reported for data validated during this reporting period.

The chromatograms for all outlying, delineation, and sentinel well TPH-o detected concentrations are not characteristic of fuel, water-soluble components of fuel, or fuel metabolites. Chromatograms exhibited a short, broad peak(s) along the baseline from the ~C22 to C40 range and beyond. SGC resulted in entire removal of the peak. The chromatograms for one sampling event for RHMW17 (primary and field duplicate samples) shows that the TPH-o is primarily due to a single peak. DEET (insect repellent) was identified in the TPH-d range in these samples from RHMW17.

Similar to previous reporting periods, samples were reanalyzed for TPH-d/o due to laboratory contamination, as stated in the case narratives of the laboratory reports.

TPH-o was removed by SGC for majority of the outlying and sentinel wells, and all of the in-tunnel and delineation wells which indicate that the bulk of TPH-o are polar compounds.

Table 9-3 presents a comparison of TPH-d and TPH-o concentrations with and without SGC for detected wells validated during the reporting period.

9.3.2 Lead Scavengers

1,2-Dibromoethane and 1,2-dichloroethane were not detected at any sampling location for data validated during this reporting period.

The scoping completion letter for AOC Statement of Work Sections 6 and 7 dated February 4, 2016 (EPA Region 9 and DOH 2016) required that lead scavengers (1,2-dichloroethane and 1,2-dibromoethane) be analyzed for at least 1 year of sampling, and indicated that lead scavenger testing can be then discontinued at a given well if analyte concentrations remain below DOH EALs.

Lead scavengers were analyzed in groundwater samples collected from RHMW03, which have previously completed at least 1 year of sampling with analyte concentrations remaining below DOH EALs. However, during the weekly sampling events, an exceedance for 1,2-dibromoethane occurred on December 9, 2022 which prompted monitoring for at least 1 year of sampling. RHMW03 has been sampled for

1,2-dibromoethane at least 1 year from the exceedance, in accordance with the SAP and addenda (DON 2017b; 2017c; 2017d; 2021b), and results have been non-detect during all monitoring events. LODs are below the respective screening criteria.

In accordance with the February 4, 2016, scoping completion letter, RHMW03 underwent 1 year of monitoring for 1,2-dibromoethane. Concentrations were non-detect and below groundwater action levels. Thus, testing for 1,2-dibromoethane will be discontinued for RHMW03.

1,2-Dibromoethane analytical results for RHMW03 are presented in Table 9-4. Full analytical and validation reports are presented in the JBPHH EDMS and in previous groundwater monitoring reports.

9.3.3 BTEX

As was the case during the previous reporting period, no BTEX EAL exceedances were reported for any well location data validated during this reporting period. BTEX was detected at the following locations:

- Ethylbenzene and total xylene were detected once at in-tunnel well RHMW02; concentrations remained stable and consistent with historical ranges for RHMW02.
- Toluene was detected twice at sentinel well NMW30 in October 2023 and three times at RHMW18 in December 2023 and January 2024. Toluene was not detected at any wells in November 2023.
- Benzene was not detected at any well locations.

BTEX was not detected at any other monitoring well locations validated during this reporting period.

9.3.4 SVOCs

Phenol was monitored in accordance with the Consolidated Groundwater Sampling Program. Phenol was not detected at any in-tunnel, outlying, delineation, or sentinel wells.

9.3.5 PAHs

Non-pyrogenic PAHs are commonly found in petroleum, including middle distillates such as JP-5. Non-pyrogenic PAHs that are present in kerosene or jet fuels include 1MN, 2MN, N, and, to lesser extents, acenaphthene, acenaphthylene, and fluorene.

Pyrogenic PAHs, or heavy PAHs, are not found in fuels, but are commonly associated with combustion products and associated atmospheric deposition and urban run-off. Pyrogenic PAHs are anthracene, fluoranthene, pyrene, benzo(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, indeno(1,2,3-c,d)anthracene, and benzo(b,h,i)perylene. PAHs that are heavier than naphthalenes, acenaphthene, acenaphthylene, and fluorene are removed from jet fuel sources during the distillation process. Phenanthrene can be found in both fuels and combustion sources.

No PAH EAL exceedances were reported for any wells with data validated during this reporting period.

Consistent with historical data, PAH COPCs (N, 1MN, and 2MN) were consistently detected primarily at in-tunnel wells RHMW01R and RHMW02, as shown on Figure 8, Figure 9, and Figure 10, respectively. Naphthalene was also detected once at RHMW16, and chrysene was also detected once at RHP02 and RHP08, with both detections being close to their detection limits suggesting the PAH detections may be attributed to baseline noise. TPH-d/o was not detected at these wells, which suggests that the PAH detections are not fuel-related. In addition, subsequent sampling events were non-detect for PAHs. Other non-pyrogenic (petrogenic) PAHs were not detected at any wells validated during this reporting period.

Table 9-3: Comparison of TPH Concentrations Without and With Silica Gel Cleanup

Location	Lab[a]	SDG	Sample ID	Sampling Date	Type	TPH-d Result (µg/L)		TPH-d with SGC Result (µg/L)		Percent of Polar Compounds (SGC Result) in Non-SGC TPH-d Result	TPH-o Result (µg/L)		TPH-o with SGC Result (µg/L)		Percent of Polar Compounds (SGC Result) in Non-SGC TPH-o Result
RHP04B	SGS Orlando	FC7027	RHP04B-WGN01LF-2306WK2	6/14/2023	Primary	**304**		<100	U	100%	**85.9**	J	<160	U	100%
RHMW01R	SGS Orlando	FC7026	RHMW01R-WGN01LF-2306WK2	6/15/2023	Primary	**392**		**266**		32%	**106**	J	<170	U	100%
RHMW02	SGS Orlando	FC7026	RHMW02-WGN01LF-2306WK2	6/15/2023	Primary	**2110**		**1620**		23%	**131**	J	<160	U	100%
RHMW05	SGS Orlando	FC7026	RHMW05-WGN01LF-2306WK2	6/15/2023	Primary	**138**	J	<100	U	100%	<160	U	<160	U	—
RHMW17	SGS Orlando	FC7026	RHMW17-WGFD01LF-2306WK2	6/15/2023	Field Duplicate	**1040**		**611**		41%	**791**		**498**		59%
RHMW17	SGS Orlando	FC7026	RHMW17-WGN01LF-2306WK2	6/15/2023	Primary	**884**		**575**		35%	**687**		**487**		41%
RHP07	SGS Orlando	FC7027	RHP07-WGN01LF-2306WK2	6/15/2023	Primary	**91.4**	J	<100	U	100%	<170	U	<170	U	—
RHMW01R	SGS Orlando	FC9377	RHMW01R-WGN01LF-2309	9/5/2023	Primary	**158**	J	**125**	J	21%	<160	U	<160	U	—
RHMW02	SGS Orlando	FC9446	RHMW02-WGN01LF-2309	9/7/2023	Primary	**1190**		**477**		60%	<160	U	<160	U	—
RHP04B	SGS Orlando	FC9542	RHP04B-WGN01LF-2309	9/11/2023	Primary	**88.4**	J	<100	U	100%	<160	U	<160	U	—
RHMW01R	SGS Orlando	FC10295	RHMW01R-WGN01LF-2310	10/4/2023	Primary	**242**		**168**	J	31%	<160	U	<160	U	—
RHMW13-05	SGS Orlando	FC10336	RHMW13-05-WGN01G-2310	10/5/2023	Primary	<100	U	<100	U	—	**95.2**	J	<170	U	100%
RHMW19	SGS Orlando	FC10295	RHMW19-WGN01LF-2310	10/5/2023	Primary	**343**		**141**	J	59%	**163**	J	**86.5**	J	88%
RHMW02	SGS Orlando	FC10336	RHMW02-WGN01LF-2310	10/6/2023	Primary	**1460**		**846**		42%	**89.5**	J	<170	U	100%
RHMW04	SGS Orlando	FC10336	RHMW04-WGN01LF-2310	10/6/2023	Primary	**232**	J-	**113**	J	51%	**141**	J	**104**	J	36%
NMW33	Energy	B23100745	NMW33-WGN01LF-23Q4	10/9/2023	Primary	**105**	J	<141	U	100%	**281**	J	<141	U	100%
RHMW02	Energy	B23100745	RHMW02-WGN01LF-23Q4	10/9/2023	Primary	**1850**		**151**	J	92%	**145**	J	<143	U	100%
RHMW03	Energy	B23100745	RHMW03-WGN01LF-23Q4	10/9/2023	Primary	**66.9**	J	<141	U	100%	**164**	J	<141	U	100%
RHMW13-04	Energy	B23101113	RHMW13-04-WGN01G-23Q4	10/10/2023	Primary	**89.2**	J	<141	U	100%	**211**	J	<141	U	100%
RHMW01R	Energy	B23101113	RHMW01R-WGN01LF-23Q4	10/12/2023	Primary	**385**		**85.3**	J	78%	**545**		<141	U	100%
RHMW2254-01	Energy	B23101113	RHMW2254-01-WGN01LF-23Q4	10/12/2023	Primary	**128**	J	<141	U	100%	**223**	J	<141	U	100%
RHP04B	Energy	B23101113	RHP04B-WGN01LF-23Q4	10/12/2023	Primary	**119**	J	<145	U	100%	**150**	J	<145	U	100%
NMW30	Energy	B23101659	NMW30-WGN01LF-23Q4	10/19/2023	Primary	**55.3**	J	<145	U	100%	<145	U	<145	U	—
RHMW02	SGS Orlando	FC10638	RHMW02-WGFD01LF-2310WK3-DF	10/20/2023	Field Duplicate	**1170**		**992**		18%	<150	U	<150	U	—
RHMW02	SGS Orlando	FC10638	RHMW02-WGN01LF-2310WK3-DF	10/20/2023	Primary	**990**		**814**		22%	<160	U	<160	U	—
RHMW01R	SGS Orlando	FC10716	RHMW01R-WGN01LF-2310WK4-DF	10/24/2023	Primary	**202**	J	**167**	J	21%	<170	U	<170	U	—
RHMW14-03	SGS Orlando	FC10716	RHMW14-03-WGN01G-2310WK4-DF	10/24/2023	Primary	<110	U	<110	U	—	**190**	J	<170	U	100%
RHMW17	SGS Orlando	FC10745	RHMW17-WGN01LF-2310WK4-DF	10/25/2023	Primary	**128**	J	<110	U	100%	**110**	J	<170	U	100%
RHMW02	SGS Orlando	FC10809	RHMW02-WGFD01LF-2310WK4-DF	10/27/2023	Field Duplicate	**1390**		**991**		29%	**88.5**	J	<160	U	100%
RHMW02	SGS Orlando	FC10809	RHMW02-WGN01LF-2310WK4-DF	10/27/2023	Primary	**1270**		**992**		22%	<160	U	<160	U	—
RHMW01R	SGS Orlando	FC10882	RHMW01R-WGN01LF-2310WK5-DF	10/31/2023	Primary	**247**		**233**		6%	<170	U	<170	U	—
RHMW02	SGS Orlando	FC10974	RHMW02-WGFD01LF-2310WK5-DF	11/3/2023	Field Duplicate	**1300**		**1190**		8%	**90.6**	J	<160	U	100%
RHMW02	SGS Orlando	FC10974	RHMW02-WGN01LF-2310WK5-DF	11/3/2023	Primary	**1140**		**1060**		7%	<150	U	**81.3**	J	[b]—
RHMW01R	SGS Orlando	FC11019	RHMW01R-WGN01LF-2311-DF	11/6/2023	Primary	**260**		**194**	J	25%	<170	U	<170	U	—
RHMW01R	SGS Orlando	FC11063C	RHMW01R-WGN01LF-2311	11/7/2023	Primary	**200**	J	**161**	J	20%	<170	U	<170	U	—
RHMW02	SGS Orlando	FC11063	RHMW02-WGFD01LF-2311-DF	11/7/2023	Field Duplicate	**1270**		**941**		26%	**97.4**	J	<170	U	100%
RHMW02	SGS Orlando	FC11063	RHMW02-WGN01LF-2311-DF	11/7/2023	Primary	**1090**		**833**		24%	<170	U	<170	U	—
RHP02	SGS Orlando	FC11097	RHP02-WGN01LF-2311-DF	11/8/2023	Primary	**121**	J	<100	U	100%	<170	U	<170	U	—
RHMW01R	SGS Orlando	FC11221	RHMW01R-WGN01LF-2311WK2-DF	11/13/2023	Primary	**253**		**180**	J	29%	<170	U	<170	U	—
RHMW02	SGS Orlando	FC11366	RHMW02-WGFD01LF-2311WK2-DF	11/17/2023	Field Duplicate	**1500**		**1140**		24%	**121**	J	**89.2**	J	36%
RHMW02	SGS Orlando	FC11366	RHMW02-WGN01LF-2311WK2-DF	11/17/2023	Primary	**1360**		**1110**		18%	**101**	J	**91.8**	J	10%
RHMW03	SGS Orlando	FC11366	RHMW03-WGN01LF-2311WK2-DF	11/17/2023	Primary	<100	U	<100	U	—	**84**	J	<170	U	100%
RHMW02	SGS Orlando	FC11473	RHMW02-WGFD01LF-2311WK3-DF	11/21/2023	Field Duplicate	**1480**		**1320**		11%	**91.6**	J	<170	U	100%
RHMW02	SGS Orlando	FC11473	RHMW02-WGN01LF-2311WK3-DF	11/21/2023	Primary	**1530**		**1360**		11%	**99.4**	J	**87.3**	J	14%
RHMW03	SGS Orlando	FC11473	RHMW03-WGN01LF-2311WK3-DF	11/21/2023	Primary	<100	U	<100	U	—	**96**	J	<170	U	100%
RHP02	SGS Orlando	FC11474	RHP02-WGN01LF-2311WK3-DF	11/22/2023	Primary	<100	U	<100	U	—	**85.1**	J	**102**	J	[b]—
RHMW01R	SGS Orlando	FC11477	RHMW01R-WGN01LF-2311WK3-DF	11/24/2023	Primary	**244**		**168**	J	31%	<170	U	<170	U	—
RHMW01R	SGS Orlando	FC11651	RHMW01R-WGN01LF-2311WK4-DF	12/1/2023	Primary	**244**		**217**		11%	<160	U	<160	U	—
RHMW02	SGS Orlando	FC11651	RHMW02-WGFD01LF-2311WK4-DF	12/1/2023	Field Duplicate	**1110**		**948**		15%	**92.5**	J	<170	U	100%
RHMW02	SGS Orlando	FC11651	RHMW02-WGN01LF-2311WK4-DF	12/1/2023	Primary	**1080**		**920**		15%	<160	U	<160	U	—
RHMW09	SGS Orlando	FC11688	RHMW09-WGN01LF-2312-DF	12/4/2023	Primary	**85.3**	J	<100	U	100%	<170	U	<170	U	—
RHP05	SGS Orlando	FC11754	RHP05-WGN01LF-2312-DF	12/6/2023	Primary	**135**	J	**112**	J	17%	**92.7**	J	<160	U	100%
NMW25	SGS Orlando	FC11804	NMW25-WGN01LF-2312	12/7/2023	Primary	**81.7**	J	<100	U	100%	**114**	J	**101**	J	13%
NMW30	SGS Orlando	FC11804	NMW30-WGN01LF-2312	12/7/2023	Primary	**103**	J	<100	U	100%	**94**	J	<160	U	100%
RHMW01R	SGS Orlando	FC11848	RHMW01R-WGFD01LF-2312-DF	12/8/2023	Field Duplicate	**102**	J	<100	U	100%	<160	U	<160	U	—
RHMW01R	SGS Orlando	FC11848	RHMW01R-WGN01LF-2312-DF	12/8/2023	Primary	**107**	J	**80.3**	J	25%	<160	U	<160	U	—
RHMW02	SGS Orlando	FC11848	RHMW02-WGFD01LF-2312-DF	12/8/2023	Field Duplicate	**835**		**645**		23%	<160	U	<160	U	—
RHMW02	SGS Orlando	FC11848	RHMW02-WGN01LF-2312-DF	12/8/2023	Primary	**693**		**539**		22%	<160	U	<160	U	—
RHMW01R	SGS Orlando	FC12040	RHMW01R-WGFD01LF-2312WK2-DF	12/15/2023	Field Duplicate	**93.1**	J	**90.7**	J	3%	<170	U	<170	U	—
RHMW01R	SGS Orlando	FC12040	RHMW01R-WGN01LF-2312WK2-DF	12/15/2023	Primary	**86.2**	J	**85.6**	J	1%	<170	U	<170	U	—
RHMW02	SGS Orlando	FC12040	RHMW02-WGFD01LF-2312WK2-DF	12/15/2023	Field Duplicate	**1210**		**1030**		15%	**93.8**	J	<170	U	100%
RHMW02	SGS Orlando	FC12040	RHMW02-WGN01LF-2312WK2-DF	12/15/2023	Primary	**1250**		**1210**		3%	**86.7**	J	<170	U	100%
RHMW08	SGS Orlando	FC12097	RHMW08-WGN01LF-2312WK3-DF	12/18/2023	Primary	**164**	J	<100	U	100%	**106**	J	**87.6**	J	21%
RHP02	SGS Orlando	FC12097	RHP02-WGN01LF-2312WK3-DF	12/18/2023	Primary	<100	U	<100	U	—	**96.7**	J	<170	U	100%
RHMW01R	SGS Orlando	FC12136	RHMW01R-WGFD01LF-2312WK3-DF	12/19/2023	Field Duplicate	**103**	J	**92**	J	11%	<170	U	<170	U	—
RHMW02	SGS Orlando	FC12136	RHMW02-WGFD01LF-2312WK3-DF	12/19/2023	Field Duplicate	**1100**		**969**		12%	<170	U	<170	U	—
RHMW02	SGS Orlando	FC12136	RHMW02-WGN01LF-2312WK3-DF	12/19/2023	Primary	**991**		**908**		8%	<160	U	<160	U	—

Notes:

Non-bold text indicates non-detected value

Bold text indicates detected value, but below the Environmental Action Level (EAL).

Bold and orange shaded text indicates exceeds the Department of Health Tier 1 EAL.

Specific EPA method revision used for analyses vary by lab and compound. The lab report associated with a sample specifies the exact method revision used.

— = not analyzed or not applicable

µg/L = microgram per liter (same as parts per billion)

[a] = SGS uses 3510 extraction method for Consolidated. Energy uses 3520 extraction method for Quarterly.

[b] = Percent polars not calculable, SGC results higher than non-SGC results.

J = estimated value

J- = estimated value, low bias

J+ = estimated value, high bias

U = nondetect value

SGC = Silica Gel Cleanup

TPH-d = total petroleum hydrocarbons-diesel range organics

TPH-o = total petroleum hydrocarbons-residual range

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Table 9-4: Lead Scavenger Analytical Results Summary Table

							VOC
							1,2-Dibromoethane (EDB)
							µg/L
							DOH EALs
		Sample					>150m
Location	Field Sample ID	Type	Matrix	Sample Date	Laboratory	SDG	0.04
RHMW03	RHMW03-WGN01LF-2401-DF	N	WG	01/02/2024	SGSO	FC12338	0.0140 U
	RHMW03-WGN01LF-2312-DF	N	WG	12/08/2023	SGSO	FC11848	0.0150 UJ
	RHMW03-WGN01LF-2311-DF	N	WG	11/10/2023	SGSO	FC11171	0.014 U
	RHMW03-WGN01LF-2310	N	WG	10/06/2023	ENRB	B23100765	0.00490 U
	RHMW03-WGN01LF-2309	N	WG	09/07/2023	ENRB	B23090593	0.00500 U
	RHMW03-WGN01LF-2308	N	WG	08/03/2023	ENRB	B23080484	0.00510 UJ
	RHMW03-WGN01LF-2307	N	WG	07/05/2023	ENRB	B23070303	0.00980 U
	RHMW03-WGN01LF-2306WK2	N	WG	06/14/2023	ENRB	B23061472	0.00490 U
	RHMW03-WGN01B-2305WK5	N	WG	05/31/2023	EUT2	5801278501	0.00580 U
	RHMW03-WGN01B-2305WK4	N	WG	05/23/2023	EUT2	580-127619-1	0.00560 U
	RHMW03-WGN01B-2305WK3	N	WG	05/16/2023	EUT2	5801273931	0.00580 U
	RHMW03-WGN01B-2305WK2	N	WG	05/09/2023	EUT2	580-127036-1	0.00590 U
	RHMW03-WGN01B-2305WK1	N	WG	05/02/2023	EUT2	5801268371	0.00570 U
	RHMW03-WGN01B-2304WK4	N	WG	04/25/2023	EUT2	5801265581	0.00570 U
	RHMW03-WGN01B-2304WK1	N	WG	04/04/2023	EUT2	5801256441	0.00570 U
	RHMW03-WGN01B-2303WK4	N	WG	03/28/2023	EUT2	5801253581	0.00580 U
	RHMW03-WGN01B-2303WK3	N	WG	03/21/2023	EUT2	5801251251	0.00570 UJ
	RHMW03-WGN01B-2303WK2	N	WG	03/14/2023	EUT2	5801248301	0.00570 U
	RHMW03-WGN01B-2303WK1	N	WG	03/07/2023	EUT2	5801244591	0.00590 U
	RHMW03-WGN01B-2302WK4	N	WG	02/28/2023	EUT2	5801241141	0.00580 U
	RHMW03-WGN01B-2302WK3	N	WG	02/21/2023	EUT2	5801239071	0.00580 U
	RHMW03-WGN01B-2302WK2	N	WG	02/14/2023	EUT2	5801236021	0.00580 U
	RHMW03-WGN01B-2301WK4	N	WG	01/24/2023	EUT2	5801227141	0.00570 UJ
	RHMW03-WGN01B-2301WK3	N	WG	01/17/2023	EUT2	5801224201	0.00580 U
	RHMW03-WGN01B-2301WK2	N	WG	01/10/2023	EUT2	5801220611	0.00590 U
	RHMW03-WGN01B-2301WK1	N	WG	01/04/2023	EUT2	5801218681	0.00570 U
	RHMW03-WGN01B-2212WK4	N	WG	12/28/2022	EUT2	5801217031	0.00580 U
	RHMW03-WGN01B-2212WK3	N	WG	12/20/2022	EUT2	5801214971	0.00560 U
	RHMW03-WGN01B-2212WK1	N	WG	12/9/2022	EUT2	5801211101	**0.110**

Notes:

Detects are displayed in bold font. Analytical results exceeding the screening criteria are highlighted in blue.
Project Screening Levels from: State of Hawaii, Department of Health Environmental Action Levels (EALs) >150m

N	Normal Sample
VOC	Volatile Organic Compound

Matrix

WG	Ground Water

Units

µg/L	Micrograms per Liter

Qualifier

U	The analyte was not detected and was reported as less than the limit of detection.
UJ	The analyte was not detected and was reported as less than the limit of detection. However, the associated result is flagged as estimated based on quality control criteria concerns.

Laboratory

EUT2	Eurofins Environment Testing TestAmerica, Tacoma, WA
ENRB	Energy Lab, Inc., Billings, MT
SGSO	SGS North America, Inc., Orlando, FL

9.3.6 Natural Attenuation Parameters

As described in the Red Hill CSM report (DON 2019b, Section 7.3), the natural attenuation evaluation uses the following lines of evidence:

- Use of current and historical groundwater primary indicators (COPC data) to demonstrate contaminant concentration over time.
- Use of secondary lines of evidence (general groundwater chemistry parameters and NAPs) to evaluate whether natural attenuation processes are active at the site and the rate at which such processes can reduce contaminant concentrations to below screening levels.
- Comparison of TPH-d and TPH-o with and without SGC to evaluate the degree of weathering of dissolved fuel hydrocarbons based on the fraction of polar-weathered hydrocarbons and total recoverable hydrocarbons.

Natural attenuation parameter measurements collected during the Fourth Quarter 2023 LTM groundwater monitoring field activities are representative of electron donors utilized in microbial respiration, including DO, nitrate, and sulfate; direct microbial byproducts including soluble ferrous iron, soluble manganese and methane; and geochemical indicators of microbial processes, including ORP and alkalinity.

DISSOLVED OXYGEN AND OXIDATION-REDUCTION POTENTIAL

Dissolved oxygen is beneficially consumed by microorganisms first while aerobically metabolizing the hydrocarbon plume; oxygen provides the greatest amount of energy to the petroleum-degrading microorganisms. Groundwater flow with a continuous source of DO maintains the aerobic biodegradation process. Dissolved oxygen concentrations greater than 1 milligram per liter (mg/L) are considered aerobic, while DO concentrations less than 1 mg/L are considered anaerobic. Oxygen depleted water travels faster than the plume and may be used to confirm groundwater flow direction.

Oxidation reduction potential is the measure of the tendency of a chemical species to acquire electrons (reduction) or lose electrons (oxidation) in a solution. ORP trends downward as oxygen is consumed (e.g., ORP values will be lower in a hydrocarbon plume undergoing aerobic biodegradation). Negative ORP values are characteristic of a strongly reducing environment favorable for anaerobic biodegradation.

DO concentrations and ORP values for the current quarterly event were consistent with previous measurements. Measurement and distribution of DO from the current monitoring event confirms that the aquifer is naturally aerobic, with concentrations at 27 wells ranging from 2.12 mg/L to 8.64 mg/L. Typical oxygen-saturated groundwater has oxygen levels ranging between 8 and 9 mg/L.

During the current monitoring event, anaerobic conditions (DO < 1 mg/L) were detected at nine locations, including wells with current detections of dissolved TPH (RHMW01, RHMW02, RHMW03, and RHP04B). Recently installed offsite well NMW30 and newly installed upgradient well RHMW18 also exhibited DO < 1 mg/L; additional monitoring is required to confirm geochemical conditions at these wells.

Other wells with very low DO concentrations include RHMW08 and RHMW15-05, both with historical detections of TPH and both generally located spatially between the tank farm release locations and Red Hill Shaft, thereby potentially confirming ground water flow from the tank release locations to the shaft. Low DO and ORP was also observed at HDMW2253-03, which is an uncased deep exploratory well that was not installed by the Navy.

Highly reducing conditions (negative ORP) favorable for lower-energy anaerobic biodegradation via methanogenesis, sulfate reduction, and iron reduction were measured at three onsite wells (RHMW01R,

RHMW02, and RHP04B), all of which either consistently or intermittently exhibited the presence of dissolved TPHs. Newly installed offsite well NMW30 also exhibited a negative ORP reading, however additional monitoring is required to confirm the geochemistry at this location.

NITRATE

Following oxygen depletion, denitrification (conversion of nitrate to nitrogen) or nitrate reduction (conversion of nitrate to nitrite to ammonia) is the preferred path for anaerobic biodegradation, with denitrification preferred over nitrate reduction.

Nitrate was not detected above 0.12 mg/L at RHMW01R, RHMW02, and RHMW18, coincident with the presence of TPH and low DO and ORP measurements. Nitrate was also not detected at RHMW11-05, a location with historical detections of dissolved hydrocarbons. Depressed concentrations of nitrate, compared to background, were also measured at RHP04B and NMW30, two wells with intermittent detections of dissolved hydrocarbons.

Remaining wells had nitrate concentrations similar to or greater than historical background nitrate levels for the site, with the highest concentrations being detected at offsite wells NMW25, NMW32, and NMW33.

MANGANESE

Following depletion of nitrate, insoluble manganese (Mn+4) is reduced to soluble manganese (Mn+2) in support of anaerobic biodegradation of petroleum compounds, resulting in a higher soluble manganese concentration within the plume. Review of site data indicates concentrations ranging from non-detect at the laboratory detection limit of 6.8 µg/L to 120 µg/L at the three wells sampled for dissolved manganese. The concentration of 120 µg/L was detected at offsite well NMW30, a newly installed well that has exhibited intermittent concentrations of dissolved hydrocarbons, while RHMW18, also a newly installed well with detectable TPH concentrations, exhibited an estimated soluble manganese concentration of 8.8 µg/L. Offsite well NMW33 was non-detect for soluble manganese. Dissolved manganese was not sampled for at source area wells RHMW01R, RHMW02, and RHMW03.

FERROUS IRON

Ferrous iron is a metabolic byproduct of biodegradation of hydrocarbons, resulting from reduction of insoluble ferric iron by anaerobic microorganisms to dissolved ferrous iron. During anaerobic degradation, the concentrations of ferrous iron will increase within the plume to concentrations above background.

Ferrous iron was detected in wells RHMW01R, RHMW02, and RHP04B, all of which exhibit consistent or intermittent detections of dissolved hydrocarbons, DO concentrations less than 1 mg/L, and negative ORP results indicating likely anaerobic biodegradation supported by iron reduction. Ferrous iron oxidizes back to ferric iron in the presence of oxygen. Ferrous iron was also detected at HDMW2253-0 in the presence of low DO but positive ORP. Concentrations ranged from 0.23 J mg/L (RHP04B) to 1.6 mg/L (RHMW02). All other locations were below detection limits, coincident with DO levels greater than 1 mg/L.

SULFATE

At a lower energy level, sulfate reduction follows ferric iron reduction in the petroleum biodegradation process. As sulfate is consumed by anaerobic microbial activity within a hydrocarbon plume, a corresponding increase of sulfide is expected.

The lowest sulfate concentrations observed were at RHMW02 and RHMW01R at 3 and 4.9 mg/L, respectively (both wells consistently exhibit elevated dissolved hydrocarbons). The highest detected

concentration was 96 mg/L at offsite well NMW25. Reduced sulfate concentrations in RHMW01R and RHMW02 suggest that sulfate-reducing biodegradation of hydrocarbons is occurring at those locations.

METHANE

Methanogenesis (reduction of carbon dioxide and generation of methane as a metabolic byproduct) follows sulfate reduction. During anaerobic biodegradation, the concentration of methane will increase to levels above background within and downgradient of the plume. Increases of methane in groundwater may be indicative of anaerobic degradation at the corresponding location or upgradient.

Methane was detected in the samples from RHMW2254-01, NMW25, NMW30, RHMW11-05, RHMW12A, RHMW13-04, RHMW14-03, RHMW17, RHMW20, RHP01, RHP04C, RHP06, and RHP08 at concentrations less than 1 µg/L.

At wells RHP04B and HDMW2253, methane was detected at concentrations of 2.1 and 2.5 µg/L, respectively. However, methane concentrations at wells RHMW01R and RHMW02 were significantly elevated over the other wells, with detected concentrations of 1,020 and 3,670 µg/L, respectively. Elevated methane concentrations at RHMW01R and RHMW02 suggest that methanogenic biodegradation is occurring in proximity to these wells.

ALKALINITY

Alkalinity is the measure of the aquifers ability to buffer changes in pH, including changes resulting from biologically generated acids. Additionally, increased alkalinity may be an indication of microbial activity, which results in an increase in carbon dioxide. However, carbon dioxide is also consumed by methanogenic processes.

The greatest levels of alkalinity are measured at recently installed offsite wells NMW25, NMW32, and NMW33 and at source area wells RHMW02 and RHMW03. Elevated alkalinity at RHMW02 and RHMW03 may be attributable to the presence of carbon dioxide produced by biodegradation processes occurring at these locations, which is underscored by historical detections of TPH. However, elevated alkalinity at the other monitoring locations may be attributable to aquifer geochemistry.

TOTAL AND DISSOLVED ORGANIC CARBON

For this Fourth Quarter 2023 monitoring event, TOC was analyzed for all groundwater samples; DOC was analyzed for newly installed monitoring wells NMW30, NMW33, and RHMW18. TOC results for RHMW02 and RHMW03 were consistent with historical TPH, SGC TPH, and NAP data, indicating that petroleum constituents and petroleum biodegradation by-products were present at these wells, contributing to TOC concentrations. Additionally, the TOC concentrations were higher than corresponding TPH concentrations (e.g., for RHMW02, TOC was 5 mg/L [5,000 µg/L] and TPH-d was 1.85 mg/L [1,850 µg/L]), suggesting that the TPH method may not capture all polar compounds and hydrocarbon metabolites present in the groundwater, as evidenced by TPH SGC analyses (refer to Table 9-3). Additionally, the TOC concentrations at other locations may also indicate the presence of polar compounds and metabolites not captured in the TPH extraction or not related to petroleum.

NAP CONCENTRATIONS

Graphs of groundwater NAP results are presented in Appendix B.3. Evaluation of NAP data from the Fourth Quarter 2016 GW LTM event (DON 2016) onward indicates that there is no evidence that seasonal variations (i.e., wet- and dry-season effects) influence NAP concentrations, and thus biodegradation in groundwater at the Red Hill monitoring well network. Multiple NAP parameter observations, including a

decrease in electron acceptors and an increase in metabolic by products compared to background concentrations, indicate that active biodegradation is occurring at Red Hill.

At wells RHMW01R and RHMW02, which exhibit consistent detections of dissolved hydrocarbons, and wells RHMW03 and RHP04B, DO levels are < 1 mg/L, indicating that aerobic respiration of oxygen as a primary source of energy for petroleum degrading microorganisms is occurring. In conjunction, ORP levels are negative in three of these wells. With continued groundwater pumping at Red Hill Shaft, an influx of groundwater with higher concentrations of DO should continue to provide oxygen for continued aerobic biodegradation of the hydrocarbon plume.

In conjunction with reducing conditions at the wells noted immediately above, evidence of subsequent anaerobic biodegradation facilitated by nitrate, iron, sulfate and carbon dioxide reduction is provide by lower concentrations of terminal electron acceptors (nitrate and sulfate) and increased concentrations of metabolic byproducts (dissolved ferrous iron and methane).

Additionally, Table 9-3 illustrates weathering of non-polar petroleum fractions to weathered polar fractions, again supporting natural attenuation processes.

While variability exists in the comprehensive data sets, sufficient evidence is realized to conclude that natural attenuation via biodegradation and other natural attenuation processes is occurring in proximity to documented release points and will continue to occur given the geochemical conditions evident in the aquifer.

Additional evaluation of natural source-zone depletion and natural attenuation at the Facility is discussed in the AOC Statement of Work Sections 6 and 7 CSM report (DON 2019b) and IRR Report (DON 2020b).

10.0 Summary of Results and Extent and Magnitude of Contamination

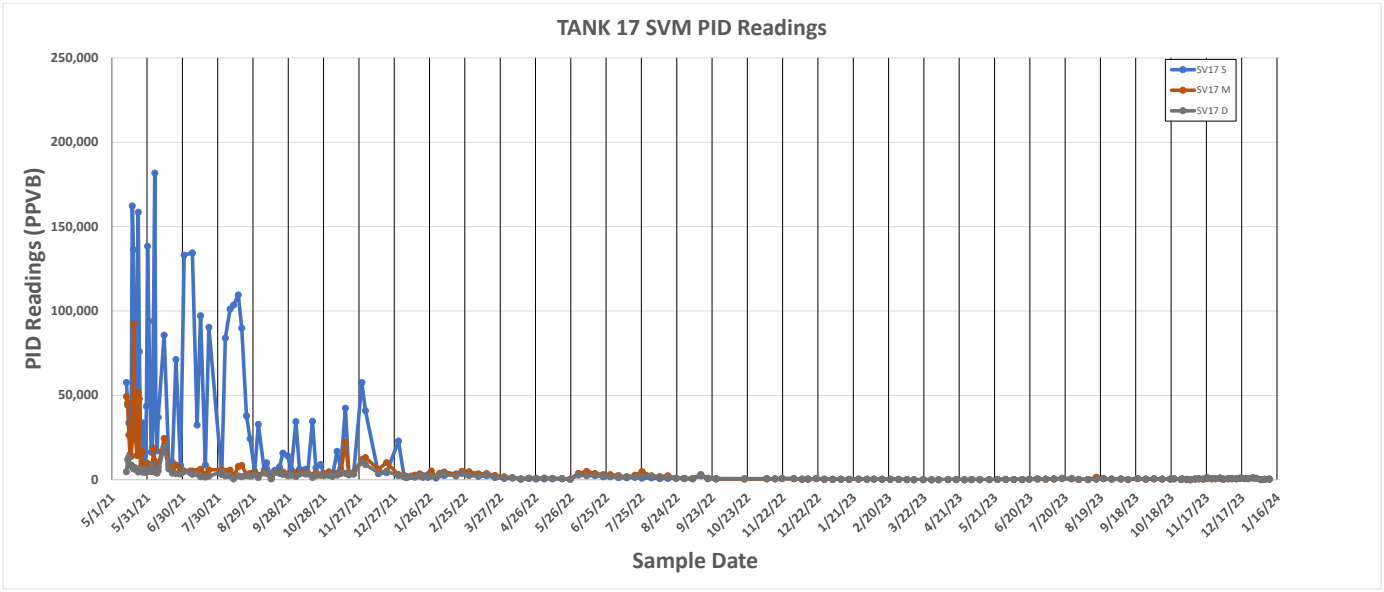
The reporting period's analytical results presented in Section 9.0 are summarized below, and historical context is provided for evaluating the impacts of prior releases.

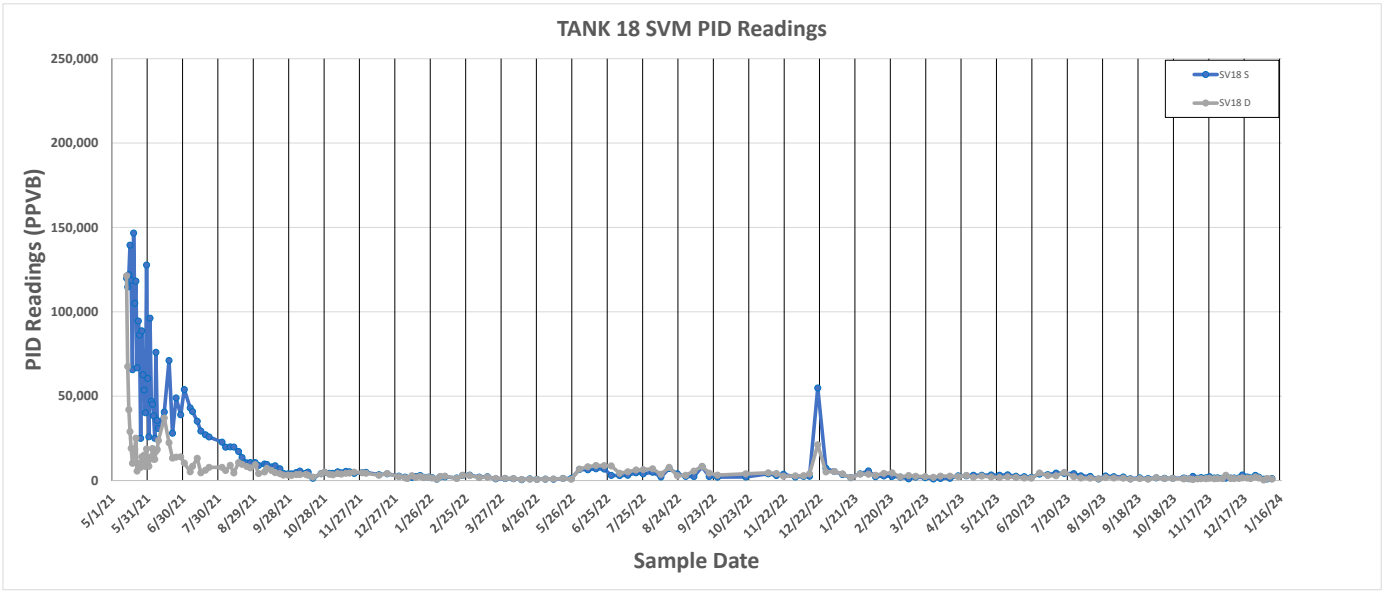
10.1 Soil Vapor Impacts

PID results for SVMPs at Tanks 17, 18, and 20 since the May 2021 Release are charted on Figure 11.

As indicated on the figure, PID readings under those tanks have declined significantly since the May 2021 Release:

- At Tank 17, the highest PID reading (181,733 ppbv) was recorded on June 6, 2021 at SV17S.
- At Tank 18, the highest PID reading (146,667 ppbv) was recorded on May 19, 2021 at SV18S.
- At Tank 20, the highest PID reading (232,667 ppbv) was recorded on May 13, 2021 at SV20M.





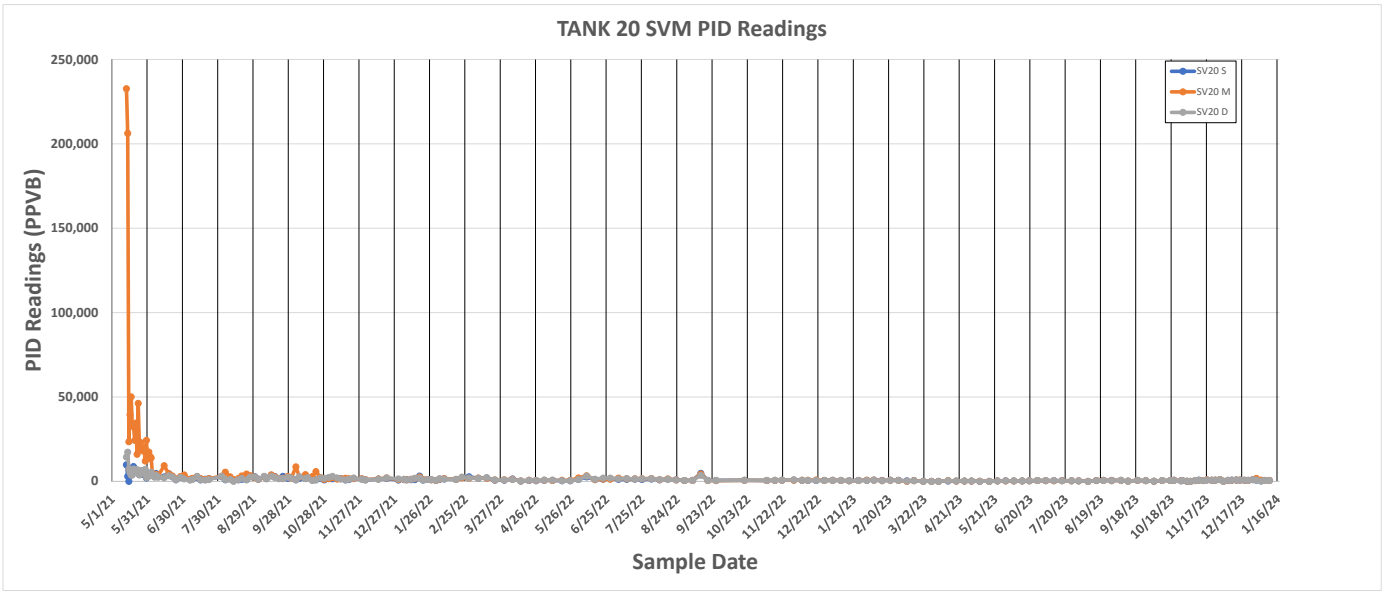


Figure 11: SVM PID Readings for Tanks 17, 18, and 20 Since May 2021

The following observations are consistent with continued long-term biodegradation and weathering of the May 2021 Release:

- For this reporting period, all PID readings were within the range observed prior to the May 2021 Release.
- As documented in prior Quarterly RRRs, passivated canister samples collected in 2021 and early 2022 and analyzed for total VOCs by Method TO-15 and Method TO-3 served to further document weathering of the May 2021 Release over time.

Laboratory results of passivated canister samples collected during the current reporting period were similar to prior recent results and are indicative of low to non-detect concentrations of petroleum vapors from highly weathered residual fuel.

10.2 Groundwater Impacts

Summary statistics include all groundwater samples completing validation during this reporting period regardless of sample collection date.

Table 9-2 presents summary statistics of groundwater results for all groundwater sampling results presented in Section 9.3. Table 10-1 presents the summary of groundwater concentrations detected above the DOH EALs as distilled from the summary statistics.

In summary, TPH-d and TPH-o were most often detected at in-tunnel sampling locations and appear to be stable. With one exception, naphthalenes were only detected for in-tunnel wells RHMW02 and RHMW01R.

Exceedances for TPH-d included in the reporting period were for all sampling events from RHMW02 due to soluble fuel components and fuel metabolites (consistent with historical results for this well) and one sampling event from RHMW17 likely due to the presence of insect repellent. The same sampling event from RHMW17 also exceeded the TPH-o EAL. RHMW01R had one TPH-o exceedance with no identifiable chromatographic profile. There were no other exceedances for any other target compound in any groundwater samples included in this reporting period.

Chromatographic profiles for the low-level detections of TPH-d and TPH-o included in this reporting period for the groundwater monitoring wells are distinctly different from what is expected from fuels, dissolved fuel components, or metabolites.

Additional details are summarized below.

Table 10–1: Summary of Current Groundwater Result Exceedances

					Analyte	TPH-d		TPH-o	
					CAS No.	PHCC10C24		PHCC24C40	
					Method	8015		8015	
					DOH Tier 1 EAL	400		500	
					Units	µg/L		µg/L	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result		Result	
RHMW02	Low-Flow	SGS Orlando	RHMW02-WGN01LF-2306WK2	6/15/2023	Primary	2110		—	
RHMW17	Low-Flow	SGS Orlando	RHMW17-WGN01LF-2306WK2	6/15/2023	Primary	884		687	
RHMW17	Low-Flow	SGS Orlando	RHMW17-WGFD01LF-2306WK2	6/15/2023	Field Duplicate	1040		791	
RHMW02	Low-Flow	SGS Orlando	RHMW02-WGN01LF-2309	9/7/2023	Primary	1190		—	
RHMW02	Low-Flow	SGS Orlando	RHMW02-WGN01LF-2310	10/6/2023	Primary	1460		—	
RHMW02	Low-Flow	Energy	RHMW02-WGN01LF-23Q4	10/9/2023	Primary	1850		—	
RHMW01R	Low-Flow	Energy	RHMW01R-WGN01LF-23Q4	10/12/2023	Primary	—		545	
RHMW02	Low-Flow	SGS Orlando	RHMW02-WGN01LF-2310WK3-DF	10/20/2023	Primary	990		—	
RHMW02	Low-Flow	SGS Orlando	RHMW02-WGFD01LF-2310WK3-DF	10/20/2023	Field Duplicate	1170		—	
RHMW02	Low-Flow	SGS Orlando	RHMW02-WGN01LF-2310WK4-DF	10/27/2023	Primary	1270		—	
RHMW02	Low-Flow	SGS Orlando	RHMW02-WGFD01LF-2310WK4-DF	10/27/2023	Field Duplicate	1390		—	
RHMW02	Low-Flow	SGS Orlando	RHMW02-WGN01LF-2310WK5-DF	11/3/2023	Primary	1140		—	
RHMW02	Low-Flow	SGS Orlando	RHMW02-WGFD01LF-2310WK5-DF	11/3/2023	Field Duplicate	1300		—	
RHMW02	Low-Flow	SGS Orlando	RHMW02-WGN01LF-2311-DF	11/7/2023	Primary	1090		—	
RHMW02	Low-Flow	SGS Orlando	RHMW02-WGFD01LF-2311-DF	11/7/2023	Field Duplicate	1270		—	
RHMW02	Low-Flow	SGS Orlando	RHMW02-WGN01LF-2311WK2-DF	11/17/2023	Primary	1360		—	
RHMW02	Low-Flow	SGS Orlando	RHMW02-WGFD01LF-2311WK2-DF	11/17/2023	Field Duplicate	1500		—	
RHMW02	Low-Flow	SGS Orlando	RHMW02-WGN01LF-2311WK3-DF	11/21/2023	Primary	1530		—	
RHMW02	Low-Flow	SGS Orlando	RHMW02-WGFD01LF-2311WK3-DF	11/21/2023	Field Duplicate	1480		—	
RHMW02	Low-Flow	SGS Orlando	RHMW02-WGN01LF-2311WK4-DF	12/1/2023	Primary	1080		—	
RHMW02	Low-Flow	SGS Orlando	RHMW02-WGFD01LF-2311WK4-DF	12/1/2023	Field Duplicate	1110		—	
RHMW02	Low-Flow	SGS Orlando	RHMW02-WGN01LF-2312-DF	12/8/2023	Primary	693		—	
RHMW02	Low-Flow	SGS Orlando	RHMW02-WGFD01LF-2312-DF	12/8/2023	Field Duplicate	835		—	
RHMW02	Low-Flow	SGS Orlando	RHMW02-WGN01LF-2312WK2-DF	12/15/2023	Primary	1250		—	
RHMW02	Low-Flow	SGS Orlando	RHMW02-WGFD01LF-2312WK2-DF	12/15/2023	Field Duplicate	1210		—	
RHMW02	Low-Flow	SGS Orlando	RHMW02-WGN01LF-2312WK3-DF	12/19/2023	Primary	991		—	
RHMW02	Low-Flow	SGS Orlando	RHMW02-WGFD01LF-2312WK3-DF	12/19/2023	Field Duplicate	1100		—	
RHMW02	Low-Flow	SGS Orlando	RHMW02-WGN01LF-2312WK4-DF	12/26/2023	Primary	1030		—	
RHMW02	Low-Flow	SGS Orlando	RHMW02-WGFD01LF-2312WK4-DF	12/26/2023	Field Duplicate	1110		—	
RHMW02	Low-Flow	SGS Orlando	RHMW02-WGN01LF-2401-DF	1/5/2024	Primary	1050		—	
RHMW02	Low-Flow	SGS Orlando	RHMW02-WGN01LF-2401WK2-DF	1/12/2024	Primary	1080		—	
RHMW02	Low-Flow	SGS Orlando	RHMW02-WGFD01LF-2401WK2-DF	1/12/2024	Field Duplicate	1110		—	
RHMW02	Low-Flow	SGS Orlando	RHMW02-WGN01LF-2401WK3-DF	1/19/2024	Primary	942		—	
RHMW02	Low-Flow	SGS Orlando	RHMW02-WGFD01LF-2401WK3-DF	1/19/2024	Field Duplicate	912		—	

Acronyms and Footnotes:
CAS-Chemical Abstracts Service
J-estimated: the analyte was positively identified; the quantitation is an estimation
ND-not detected
V-results have been validated
µg/L-microgram per Liter
%-percent
Bold and orange shaded text indicates exceeds the Department of Health Tier 1 EAL.
Green text indicates results have completed third-party validation.

10.2.1 Red Hill Network Wells

The following compounds were not detected in any samples included in this reporting period:

- Benzene
- Lead scavengers: 1,2-dibromomethane and 1,2-dichloroethane.
- Fuel Additives: phenol and 2-(2-methoxyethoxy)-ethanol
- PAHs (except COPCs N, 1MN, and 2MN)

Additional details for each of the compounds detected in groundwater are summarized below.

TPH-g was detected at low concentrations once or twice in ten outlying wells and in two in-tunnel wells with many of the low-level detections attributed to lab contamination or were close to the detection limit and in the range of instrument noise.

TPH-d and TPH-o were most often detected at in-tunnel sampling locations and appear to be stable.

Exceedances for TPH-d were for all sampling events from RHMW02 due to soluble fuel components and fuel metabolites (consistent with historical results for this well). An exceedance during one sampling event from RHMW17 is likely due to the presence of insect repellent with DEET as an active ingredient. The same sampling event from RHMW17 also exceeded the TPH-o EAL. RHMW01R had one TPH-o exceedance with no identifiable chromatographic profile.

Chromatographic profiles for the low-level detections of TPH-d and TPH-o included in this reporting period for the Red Hill and outlying wells are distinctly different from what is expected from fuels, dissolved fuel components, or metabolites.

Ethylbenzene and xylenes were detected only in RHMW02 at concentrations stable and consistent with historical ranges for this well. Also consistent with historical data, PAH COPCs (N, 1MN, and 2MN) were consistently detected primarily at in-tunnel wells RHMW01R and RHMW02. Naphthalene was also detected once at RHMW16 which was close to the detection limit and may be attributed to baseline noise.

In summary, in-tunnel wells RHMW01R and RHMW02 are stable with consistent detections of TPH-d, N, 1MN, 2MN and with less frequency, TPH-o. The chromatograms are consistent with dissolved fuel compounds and fuel metabolites. The outlying wells are also stable with infrequent low-level detections of TPH-d and TPH-o inconsistent with fuel sources. A sampling event from RHMW17 shows the presence of insect repellant that includes DEET as an active ingredient. In addition, RHMW18 is a newly constructed well, and the TPH-o concentrations are most likely attributed to a lubricant or grease introduced during drilling since concentrations continue to decline over time.

10.2.2 Delineation Wells

The delineation wells are stable, with the few low-level detections of TPH-g likely due to lab contamination and few low-level detections of TPH-d and TPH-o. Chrysene was also detected once at RHP02 and RHP08, and both concentrations were close to the detection limit and may be attributed to baseline noise.

10.2.3 Sentinel Wells

The sentinel wells are stable, with only a few low-level detections of toluene, TPH-g, TPH-d, and TPH-o. Toluene and TPH-g concentrations are near the detection limit and are likely due to laboratory contamination. TPH-d and TPH-o were detected in NMW25, NMW30, and NMW33.

10.3 Defueling Impacts

Soil Vapor Monitoring. SVMP PID readings taken at the Tank Farm during defueling did not exceed any of the GWPP specific Action Levels. The PID readings and SVMP specific GWPP action levels are presented in Appendix A.3.

Groundwater Monitoring. From October 16 through November 24, 2023 the Primary and Secondary Release Detection Wells were monitored weekly due to a trigger exceedance (0.8 µg/L) of 1MN (1.3 µg/L) at RHMW01R which occurred on October 17, 2023 (see Table 10-2). The concentration of 1MN was consistent with monitoring events prior to defueling. Subsequent exceedances of 1MN at RHMW01R occurred for 5 consecutive weeks, then concentrations continued to decline through the completion of defueling.

On December 18, 2023, TPH-d exceeded the trigger level (111 µg/L) at RHMW08 (164 J µg/L). The trigger level at RHMW08 was not exceeded during the four subsequent weeks during which defueling activities were completed; therefore, weekly groundwater monitoring ended on January 19, 2024. Defueling activities included removal of fuel from the tank mains and flowable tank bottoms. Non-flowable residue remaining in the tank bottoms will be removed during the Facility Closure process, which will follow defueling.

Defueling data evaluation is provided in Table 10-2. Defueling results are provided in Appendix B.4.1 and depicted graphically in Appendix B.4.2.3.

Table 10-2: Summary of Defueling Groundwater Monitoring Analytical Results

SAMPLING EVENT WEEK	TYPES OF MONITORING	EXCEEDANCE	SIGNIFICANT OBSERVATIONS	ACTIONS TAKEN	DATA EVALUATION
10/16/2023	GW-Primary Release Detection Wells	GW-Primary Release Detection Wells	Trigger exceedance at RHMW01R for 1-Mn (1.3 ug/L)	Additional sampling at the Primary and Secondary Release Detection Wells weekly for 4 weeks instead of monthly.	17OCT23 field notes for RHMW01R indicate an "organic odor" and a headspace VOC reading of 0.3 ppm. Prior to defueling, RHMW01R 15JUN23 field notes indicated a "sulfuric scent". Additionally, RHMW01R 01AUG23 field notes indicated a "very light organic odor" and a headspace VOC reading of 0.1 ppm. Prior to defueling, on 07JUL23, there was a similar 1-Mn concentration, 1.3 ug/L. The RHMW01R chromatogram shows a hump around the range of baseline noise that is consistent with jet fuel metabolites and may have some impacts from RHMW02 since the monitoring well is situated next to and downstream from RHMW02 which is consistent to previously reported NOI data.
	Soil Vapor	Soil Vapor-No exceedances			
10/23/2023	GW-Primary and Secondary Release Detection Wells	GW-Primary Release Detection Wells	Trigger exceedance at RHMW01R for 1-Mn (1.3 ug/L)	Additional sampling at the Primary and Secondary Release Detection Wells weekly for 4 weeks instead of monthly.	24OCT23 field notes for RHMW01R indicate an "organic odor" and a headspace VOC reading of 0.1 ppm. As above, and during the first (17OCT23) and second week (24OCT23) of defueling, the RHMW01R 1-Mn concentration exceeded the trigger level. The chromatogram is consistent with jet fuel metabolites.
	Soil Vapor	Soil Vapor-No exceedances			
10/30/2023	GW-Primary and Secondary Release Detection Wells	GW-Primary Release Detection Wells	Trigger exceedances at RHMW01R for 1-Mn (1.4 ug/L) and N (0.34 J ug/L)	Additional sampling at the Primary and Secondary Release Detection Wells weekly for 4 weeks instead of monthly. A split sample for 1-Mn was collected and analyzed by a second lab which confirmed the trigger exceedance (1.2 ug/L)	As above, the RHMW01R 1-Mn concentration exceeded the trigger level. N concentrations have not exceeded the trigger level for previous groundwater events. The chromatogram is consistent with jet fuel metabolites.
	Soil Vapor	Soil Vapor-No exceedances			
11/6/2023	GW-Primary and Secondary Release Detection Wells	GW-Primary Release Detection Wells	Trigger exceedances at RHMW01R for 1-Mn (1.5 ug/L) and N (0.35 J ug/L)	Additional sampling at the Primary and Secondary Release Detection Wells weekly for 4 weeks instead of monthly.	As above, the RHMW01R 1-Mn concentration exceeded the trigger level. N concentrations have exceeded the trigger level for two consecutive weeks (31OCT23, 06NOV23) since the start of defueling. The chromatogram is consistent with jet fuel metabolites.
	Soil Vapor	Soil Vapor-No exceedances			
11/13/2023	GW-Primary and Secondary Release Detection Wells	GW-Primary Release Detection Wells	Trigger exceedance at RHMW01R for 1-Mn (1.1 ug/L)	Additional sampling at the Primary and Secondary Release Detection Wells weekly for 4 weeks instead of monthly.	As above, the RHMW01R 1-Mn concentration exceeded the trigger level. Prior to defueling, on 07JUL23, there was a similar 1-Mn concentration, 1.3 ug/L. Since the start of defueling defueling, 1-Mn has consistently exceeded the trigger level.
	Soil Vapor	Soil Vapor-No exceedances			
11/20/2023	GW-Primary and Secondary Release Detection Wells	GW-Primary Release Detection Wells	Trigger exceedance at RHMW01R for 1-Mn (1.1 ug/L)	Additional sampling at the Primary and Secondary Release Detection Wells weekly for 4 weeks instead of monthly.	As above, the RHMW01R 1-Mn concentration exceeded the trigger level. Prior to defueling, on 07JUL23, there was a similar 1-Mn concentration, 1.3 ug/L. During defueling, 1-Mn has consistently exceeded the trigger level.
	Soil Vapor	Soil Vapor-No exceedances			
11/27/2023	GW-Primary and Secondary Release Detection Wells	GW-No exceedances	—	—	—
	Soil Vapor	Soil Vapor-No exceedances			
12/4/2023	GW-Primary and Secondary Release Detection Wells	GW-No exceedances	—	—	—
	Soil Vapor	Soil Vapor-No exceedances			
12/11/2023	GW-Primary and Secondary Release Detection Wells	GW-No exceedances	—	—	—
	Soil Vapor	Soil Vapor-No exceedances			
12/18/2023	GW-Primary and Secondary Release Detection Wells	GW-Primary Release Detection Wells	Trigger exceedance at RHMW08 for TPH-d (164 J ug/L)	Additional sampling at the Primary and Secondary Release Detection Wells weekly for 4 weeks instead of monthly.	The chromatogram for RHMW08 is not characteristic of fuel, water soluble components of fuel or fuel metabolites. Instead, the chromatographic pattern shows discrete, sharp peaks slightly after the o-terphenyl surrogate. Also, the SGC result is not detected which suggests that compound is polar in nature; hydrocarbons are typically non-polar and would show up as a detect in the SGC result. Additionally, other target compounds such as BTEX and the petrogenic PAHs were not detected.
	Soil Vapor	Soil Vapor-No exceedances			
12/25/2023	GW-Primary and Secondary Release Detection Wells	GW-No exceedances	—	—	—
	Soil Vapor	Soil Vapor-No exceedances			
1/1/2024	GW-Primary and Secondary Release Detection Wells	GW-No exceedances	—	—	—
	Soil Vapor	Soil Vapor-No exceedances			
1/8/2024	GW-Primary and Secondary Release Detection Wells	GW-No exceedances	—	—	—
	Soil Vapor	Soil Vapor-No exceedances			
1/15/2024	GW-Primary and Secondary Release Detection Wells	GW-No exceedances	—	—	—
	Soil Vapor	Soil Vapor-No exceedances			

Notes

No exceedances and TPH-d/o detections are denoted with an emdash (—).
GW - Groundwater
1-Mn - 1-Methylnaphthalene
N - Naphthalene
J - estimated, the analyte was positively identified and the quantitation is an estimation
TPH-d - Total Petroleum Hydrocarbons, Diesel Range
VOC - Volatile Organic Carbon
ppm - parts per million
SGC - silica gel clean-up
BTEX - benzene, toluene, ethylbenzene, xylene
PAH - polycyclic aromatic hydrocarbon

Units

µg/L - micrograms per Liter

11.0 Conclusions and Recommendations

11.1 Conclusions

Soil Vapor Impacts. The magnitude of soil vapor impacts associated with the fuel releases continues to decrease over time, consistent with natural attenuation and weathering of LNAPL in the environment.

Groundwater Impacts. In general, contaminant concentrations appear to be either declining (in most areas) or stable (near the tank farm) over time. Groundwater impacts primarily include elevated concentrations of TPH-d or TPH-o at in-tunnel sampling location RHMW02 and to a much lesser extent at in-tunnel well RHMW01R. Concentrations of all formerly elevated COPCs near Red Hill Shaft have decreased considerably since operation of skimmers, sorbents, and the Red Hill Shaft GAC treatment system commenced, with most results below the detection limit.

Chromatographic profiles for the detected concentrations of TPH-d and TPH-o that did not exceed EALs included during this reporting period for the Red Hill network wells, delineation wells, and sentinel wells are distinctly different from what is expected from fuels, dissolved fuel components, or metabolites.

Exceedances of TPH-d and TPH-o were reported for one sampling event from outlying well RHMW17 with chromatographic profiles distinctly different from fuels, dissolved fuel components, or fuel metabolites. DEET, an active component of insect repellents, was identified in this sampling event. Insect repellents are known to be used by sampling staff.

In addition, the defueling data supports that there have been no impacts as a result of defueling activities.

11.2 Recommendations and Planned Future Actions

The Navy recommends continuing the following activities in coordination with DOH:

- Soil vapor and groundwater sampling
- Site characterization at Adit 3, including installation of additional deep SVMPs and SVE points for the remedial pilot study
- Initial site characterization activities at the CHT Tank area outside Adit 3
- Data gathering and associated analyses

The Navy is also expanding the groundwater monitoring well network (including sentinel wells) as part of plume delineation efforts and to monitor groundwater quality between Red Hill and offsite water supply wells.

Extensive sampling and monitoring activities in response to the fuel releases are ongoing. Associated data evaluation will continue to be performed to support evaluation of:

- Impact and extent of the releases to the environment
- Effectiveness of the Red Hill Shaft GAC pump and treat system in containing impacted groundwater and preventing additional migration of contaminants
- Potential future migration of contaminants and potential impacts to offsite receptors including existing and newly installed Navy wells and additional wells identified while working in coordination with the Honolulu BWS

- Remedial alternatives and future remediation strategies
- Pilot testing for remediation effectiveness and optimization

Upon finalization of all laboratory analyses/reports for the Adit 3 OU-2 saturated zone investigation, the comprehensive set of data will be provided in a format similar to and complementary to the OU-1 vadose zone report that was provided to the Regulatory Agencies in a draft report on May 19, 2023 (DON 2023g).

The Navy will finalize the following reports once comments are received from the Regulatory Agencies:

- Draft Closure Report, Concrete Tank Removal; February 24, 2023
- Draft Site Characterization Report, November 2021 JP-5 Release in Adit 3, Operable Unit 1; May 19, 2023

The Navy will continue site characterization efforts and implement pilot projects once the Regulatory Agencies review and approve the following WPs:

- Draft Natural Source-Zone Depletion Work Plan; February 23, 2023
- Draft Deep Soil Vapor Extraction Work Plan; February 27, 2023
- Site Characterization Plan Addendum, Additional Nested Deep Soil Vapor Monitoring Points in Adit 3 Tunnel; March 8, 2023
- Draft Monitoring Well Installation Work Plan; January 2024

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Appendix A – Soil Vapor Monitoring Results, Current Reporting Period

Appendix A.1 – Soil Vapor PID Concentrations
Appendix A.2 – Soil Vapor Chromatograms
Appendix A.3 – Defueling PID Results

Appendix A.1 – Soil Vapor PID Concentrations

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)

Appendix A.1: Average Soil Vapor PID Concentration Readings at Tanks 2-18 and 20 (ppbv)

Date	SV02 S	SV02 M	SV02 D	SV03 S	SV03 M	SV03 D	SV04 S	SV04 M	SV04 D	SV05 S	SV05 M	SV05 D	SV06 S	SV06 M	SV07 S	SV07 M	SV07 D	SV08 S	SV08 M	SV08 D	SV09 S	SV09 M	SV09 D	SV10 S	SV10 M/D	SV11 S	SV11 M/D	SV12 S	SV12 M	SV12 D	SV13 S	SV13 M	SV13 D	SV14 S	SV14 M	SV14 D	SV15 S	SV15 M	SV15 D	SV16 S	SV16 M	SV16 D	SV17 S	SV17 M	SV17 D	SV18 S	SV18 D	SV20 S	SV20 M	SV20 D
10/10/2023	0	10	19	123	121	61	94	80	50	554	2315	1481	1026	6216	426	347	363	429	312	257	273	287	277	269	294	408	445	341	390	334	318	289	297	339	255	238	250	NC2	221	280	299	276	420	383	427	1345	1207	493	480	459
10/17/2023	72	60	59	101	110	62	110	77	80	213	1013	912	712	4806	379	245	252	296	167	190	240	206	200	212	217	309	300	251	277	327	297	278	298	326	295	285	328	NC2	371	315	334	348	419	387	354	1388	1260	503	493	487
10/20/2023	92	102	172	140	101	81	143	113	94	327	1099	904	992	5159	361	451	284	494	350	312	618	342	395	421	426	384	375	438	458	507	499	452	455	923	645	583	508	NC2	581	519	533	540	581	539	558	NC	NC	633	675	617
10/24/2023	0	0	0	13	0	0	127	152	0	423	983	853	4241	4006	340	252	236	311	222	180	221	202	224	208	212	188	175	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
10/26/2023	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	15	35	85	101	65	78	149	117	106	103	NC2	83	124	145	155	257	274	250	1462	984	362	382	327
10/27/2023	0	0	0	166	0	0	33	3	2	362	3023	619	550	5567	278	184	190	135	124	108	234	260	260	221	228	244	228	169	199	235	250	239	249	262	244	234	387	NC2	411	334	374	450	501	443	496	1335	1067	492	476	477
10/31/2023	71	75	300	139	129	41	130	103	115	61	253	119	56	115	271	302	237	415	276	1006	358	268	236	224	220	0	0	0	0	0	0	0	0	0	0	0	83	NC2	8	0	3	39	254	277	100	1070	1085	54	66	49
11/3/2023	68	71	81	129	96	77	211	188	192	431	826	1175	829	6445	471	372	330	712	856	1128	458	444	509	462	461	0	0	0	0	0	0	0	0	0	0	0	0	NC2	0	0	0	0	0	0	0	2434	571	0	0	0
11/7/2023	0	0	0	61	149	0	43	31	38	779	359	760	780	4765	225	203	143	139	135	111	179	137	129	156	147	244	266	234	260	282	252	186	183	273	269	242	384	NC2	346	315	359	387	381	419	568	1375	1024	461	448	478
11/10/2023	88	59	45	172	175	108	118	114	116	421	1895	1839	1649	6671	517	386	328	346	330	340	410	382	392	404	458	375	299	367	377	415	618	591	920	702	699	803	659	NC2	622	550	601	652	567	538	571	1801	1084	761	596	560
11/14/2023	54	29	15	150	229	221	141	142	159	585	952	1527	1048	6107	581	326	314	372	292	260	361	384	420	449	468	326	355	305	345	358	399	382	393	401	405	387	311	NC2	316	354	383	385	379	365	412	1631	1063	478	498	437
11/17/2023	96	205	233	182	195	186	207	161	139	683	2762	2033	672	7060	598	542	556	636	580	586	354	272	274	265	260	192	212	180	199	175	595	542	513	553	440	487	651	NC2	587	464	493	509	944	696	1451	2255	1376	856	908	748
11/21/2023	779	1027	459	426	434	281	232	203	119	1099	1696	1005	1250	7006	551	494	384	292	308	315	327	305	351	303	323	445	384	466	442	475	383	314	326	513	461	416	331	NC2	376	419	418	398	596	642	550	1549	1136	691	697	684
11/24/2023	692	1082	584	396	647	577	241	318	305	1629	3539	2060	1284	6137	689	624	428	301	312	282	329	307	320	315	324	542	487	552	492	437	485	444	498	710	534	548	655	NC2	696	757	745	629	595	605	671	1633	1201	669	753	786
11/28/2023	319	244	235	609	530	475	570	564	540	922	883	1243	1241	2472	898	839	811	845	824	856	912	822	798	817	812	717	712	755	750	748	760	726	718	773	759	755	740	NC2	732	707	715	722	1030	988	1031	1324	1184	1110	1076	1054
12/1/2023	0	0	0	0	0	0	0	0	0	0	300	833	0	3633	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NC2	0	0	0	0	233	333	467	1467	3167	33	67	67
12/5/2023	1941	2395	1586	891	686	609	422	476	690	777	916	1321	2049	5301	393	547	371	285	275	246	247	250	271	244	253	251	240	316	292	300	316	272	253	322	291	293	307	NC2	237	305	315	288	734	575	517	1536	1230	612	598	563
12/8/2023	238	266	163	249	399	152	174	202	229	745	950	1404	1877	5562	415	457	350	378	397	365	355	312	308	353	356	326	317	387	350	354	407	353	364	432	413	388	353	NC2	343	412	404	379	818	541	661	1482	1158	740	594	665
12/12/2023	413	577	285	295	309	230	188	176	299	701	3393	1610	549	4753	365	356	337	285	267	325	254	283	291	263	260	427	334	523	403	421	681	632	623	684	555	386	366	NC2	379	419	472	443	695	519	543	1578	1306	714	815	799
12/15/2023	1492	2141	1150	936	608	178	207	234	285	881	1029	1193	1136	5686	564	427	453	483	414	360	301	351	310	350	306	424	467	413	394	411	609	577	575	612	626	595	486	NC2	530	595	598	595	838	866	1025	3322	1648	699	744	745
12/19/2023	862	890	743	725	562	497	471	491	584	864	1333	1850	972	6364	697	637	535	453	446	440	403	460	419	417	428	439	384	393	414	463	477	453	411	529	484	472	493	NC2	483	576	598	666	774	646	713	2091	1483	690	619	661
12/22/2023	918	616	977	354	869	605	364	372	415	802	1064	1374	1159	6455	571	372	347	272	387	332	295	286	261	280	291	263	243	276	268	308	422	367	374	400	320	282	356	NC2	355	408	405	408	646	661	733	1611	1151	574	618	616
12/26/2023	31	4	0	131	76	58	46	92	10	730	1217	2148	509	7305	596	431	325	341	329	294	276	285	267	265	255	346	334	316	326	328	510	423	405	506	448	406	520	NC2	521	567	625	597	1037	1094	1277	3037	2125	1031	1030	1048
12/29/2023	1062	2284	1534	432	277	297	771	248	439	1044	1445	2410	1368	7743	974	631	709	302	285	261	434	480	304	233	333	446	442	422	383	347	584	506	487	628	566	449	474	NC2	485	546	550	523	878	819	884	2019	1533	681	1800	764
1/2/2024	0	0	0	0	0	0	9	0	0	348	660	1836	220	4062	93	0	29	0	0	0	91	0	0	29	47	0	0	0	10	24	96	94	101	120	78	60	0	NC2	0	88	155	101	103	103	119	829	370	252	723	199
1/5/2024	18	20	0	0	25	0	0	0	0	218	545	1272	162	2217	231	172	95	155	124	106	125	112	88	100	91	197	178	234	239	258	228	212	232	302	323	298	254	NC2	246	314	278	293	246	237	251	941	1277	549	497	476
1/9/2024	275	209	188	229	217	201	220	190	174	464	709	1861	439	4729	463	350	343	377	321	293	307	280	272	306	287	275	249	289	277	251	420	350	372	377	352	341	346	NC2	409	350	380	390	393	346	350	1151	871	493	547	469

Notes:
Soil vapor concentration readings are reported in parts per billion by volume (ppbv).
Soil vapor readings on October 24, 2023 were collected only from SVMP-02 through SVMP-11; readings from SVMP-12 through SVMP-20 were collected on October 26, 2023.
[1] - SVMP-10M/D, SVMP-11M/D - "M/D" monitoring points were constructed to screen both middle & deep depth intervals along the respective underground storage tank.

Legend:
NC - Not collected
NC2 - Not collected due to obstruction in vapor line
ppbv - parts per billion by volume
SVMP - soil vapor monitoring point

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)

Appendix A.1: Background Tunnel Air Soil Vapor PID Concentration Readings (ppbv)

Date	Tank 2	Tank 3	Tank 4	Tank 5	Tank 6	Tank 7	Tank 8	Tank 9	Tank 10	Tank 11	Tank 12	Tank 13	Tank 14	Tank 15	Tank 16	Tank 17	Tank 18	Tank 20
10/10/2023	63	181	203	440	447	393	370	462	337	372	502	384	530	627	650	711	1515	1242
10/17/2023	81	142	157	105	481	254	231	208	282	347	344	262	389	299	385	606	718	620
10/20/2023	96	177	131	250	333	341	398	353	535	481	528	494	603	651	596	926	NC	831
10/24/2023	15	83	86	323	342	258	308	225	352	234	NC	NC	NC	NC	NC	NC	NC	NC
10/26/2023	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	4	22	96	62	134	259	559	359
10/27/2023	239	151	66	81	557	293	284	197	350	350	366	261	310	419	499	776	1231	690
10/31/2023	257	152	199	154	54	269	273	262	309	0	0	0	138	148	55	539	1381	218
11/3/2023	226	168	294	315	743	425	775	555	587	0	0	0	0	0	0	107	1011	135
11/7/2023	74	61	66	39	343	183	160	129	266	357	286	213	265	327	378	511	1073	526
11/10/2023	151	241	163	485	501	395	437	462	581	388	453	627	582	643	688	987	801	679
11/14/2023	128	271	265	301	291	339	475	490	509	444	396	380	481	420	366	780	1581	614
11/17/2023	190	275	226	504	745	570	561	343	341	219	224	460	420	701	488	1044	1566	614
11/21/2023	83	69	155	88	251	501	280	303	313	376	386	312	384	392	308	765	943	827
11/24/2023	575	85	99	95	250	243	272	281	282	396	332	301	406	509	532	833	1281	1007
11/28/2023	270	451	618	657	741	808	841	840	860	750	777	764	788	756	754	928	1100	1117
12/1/2023	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1200	4700	500
12/5/2023	548	202	229	789	439	356	324	357	312	305	308	307	390	275	289	847	1550	715
12/8/2023	129	127	150	133	505	352	472	271	284	267	277	247	324	220	298	565	945	989
12/12/2023	108	207	169	531	253	350	405	349	313	361	493	770	588	510	580	793	1586	976
12/15/2023	71	65	43	157	68	258	223	231	281	732	664	872	962	807	750	1481	1732	1107
12/19/2023	601	577	516	618	430	395	416	351	372	347	392	346	401	447	670	654	1101	851
12/22/2023	116	110	123	507	349	197	213	193	196	183	187	201	205	268	289	517	618	561
12/26/2023	10	34	18	421	340	215	292	221	200	276	219	299	260	452	379	1107	1381	939
12/29/2023	82	122	98	96	147	245	262	227	226	250	213	385	294	359	344	689	533	555
1/2/2024	199	257	247	421	705	302	208	189	289	314	309	407	314	308	433	462	430	644
1/5/2024	0	3	7	22	96	166	144	180	203	410	379	450	333	377	292	387	621	722
1/9/2024	238	277	251	259	325	414	380	352	363	303	348	404	381	402	450	479	873	616

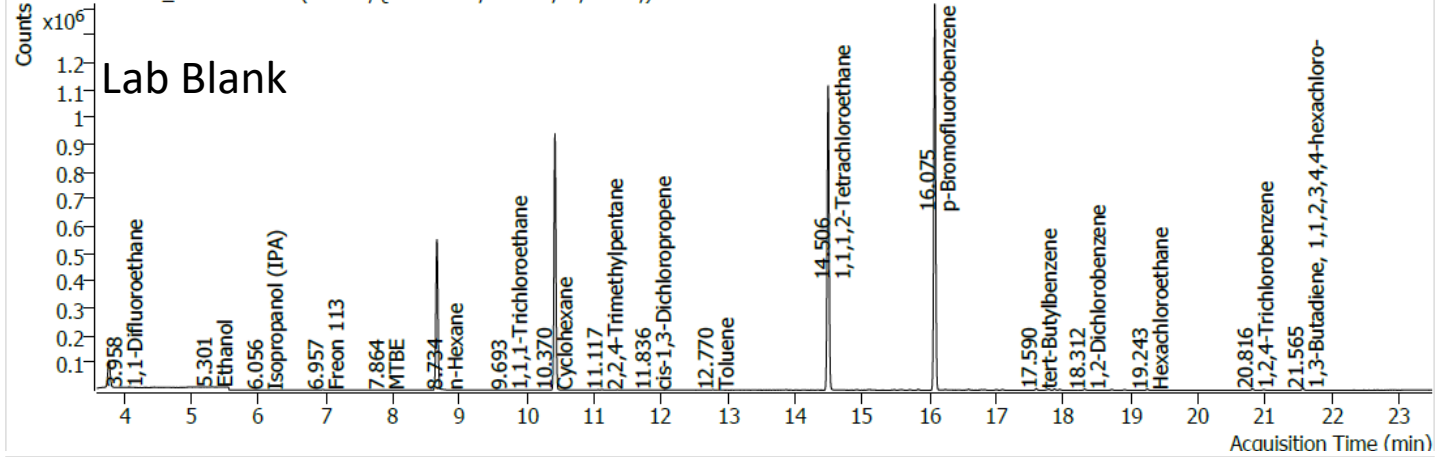
Notes:
Soil vapor concentration readings are reported in parts per billion by volume (ppbv).
Tank readings are background ambient air conditions.

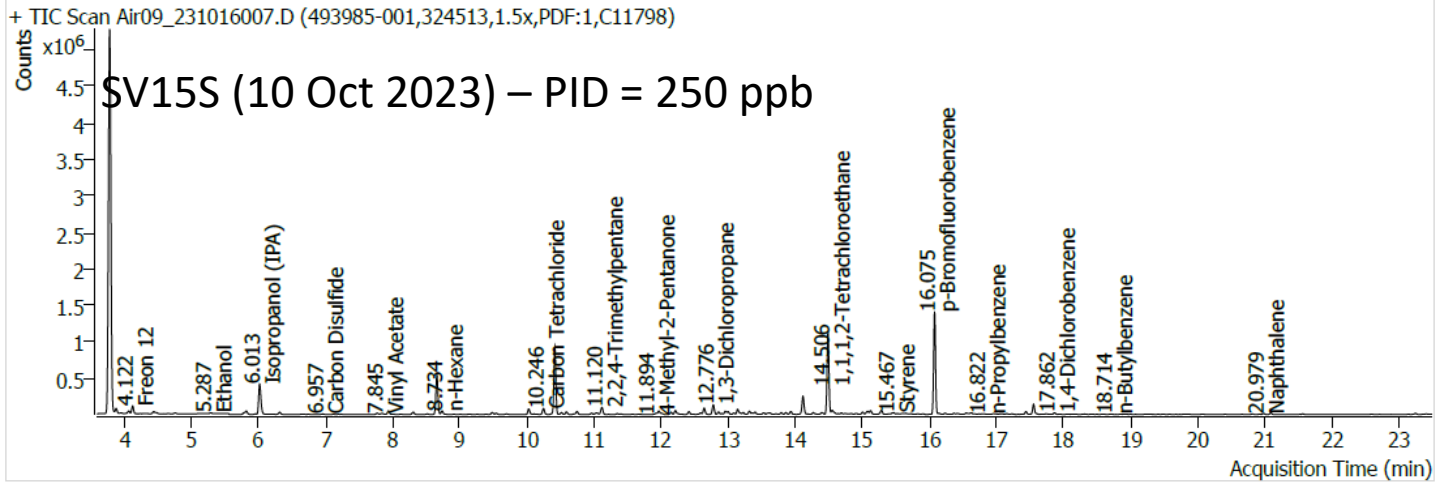
Legend:
NC - Not collected
ppbv - parts per billion by volume

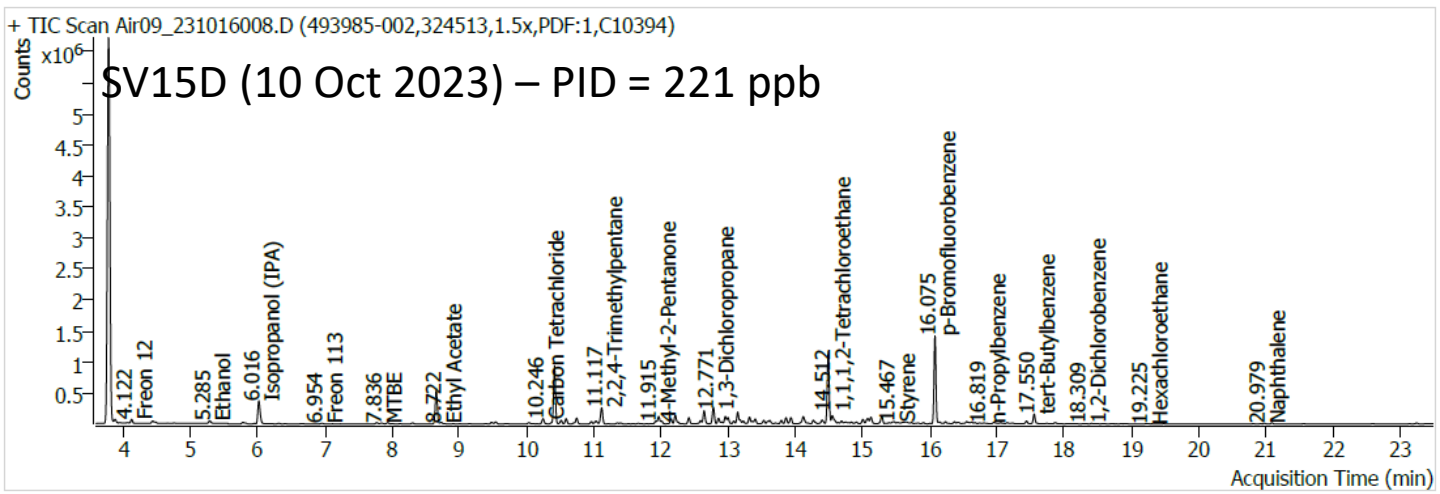
Appendix A.2 – Soil Vapor Chromatograms

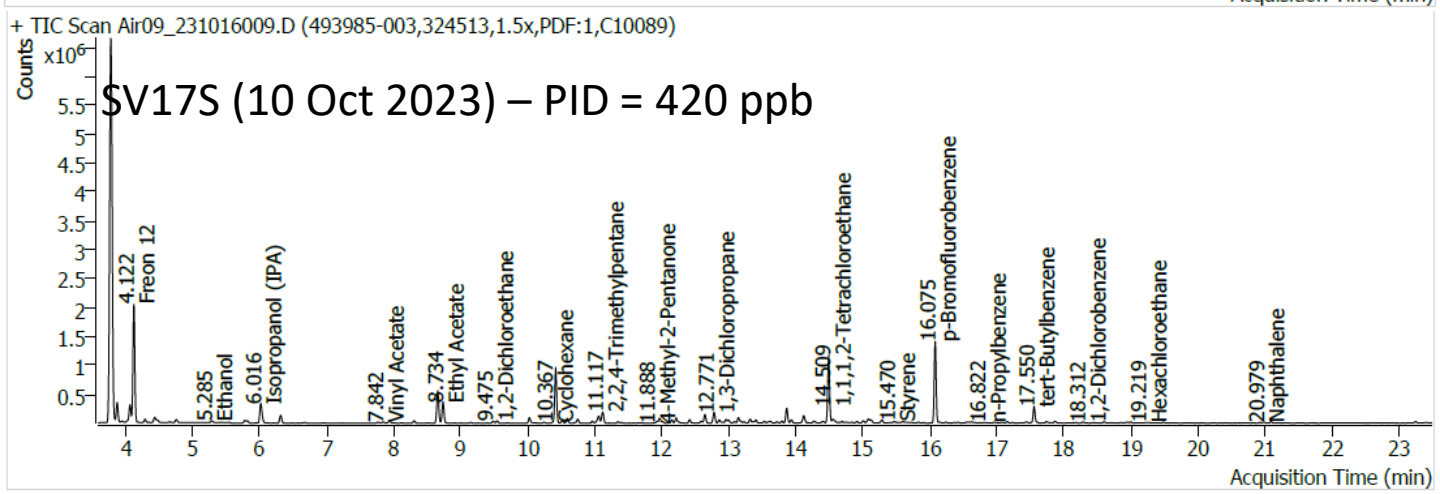
October 2023
Soil Vapor Samples

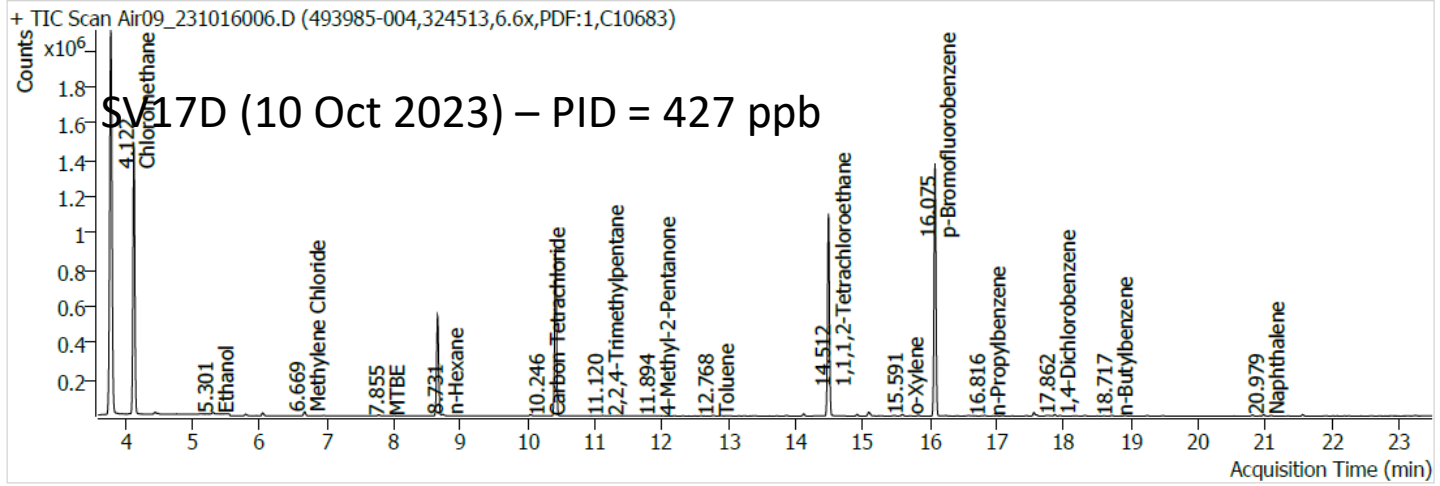
Mass Spec Chromatograms


Lab Blank
Counts
x10^6
3.958 1,1-Difluoroethane
5.301 Ethanol
6.056 Isopropanol (IPA)
6.957 Freon 113
7.864 MTBE
8.734 n-Hexane
9.693 1,1,1-Trichloroethane
10.370 Cyclohexane
11.117 2,2,4-Trimethylpentane
11.836 cis-1,3-Dichloropropene
12.770 Toluene
14.506 1,1,1,2-Tetrachloroethane
16.075 p-Bromofluorobenzene
17.590 tert-Butylbenzene
18.312 1,2-Dichlorobenzene
19.243 Hexachloroethane
20.816 1,2,4-Trichlorobenzene
21.565 1,3-Butadiene, 1,1,2,3,4,4-hexachloro-
Acquisition Time (min)

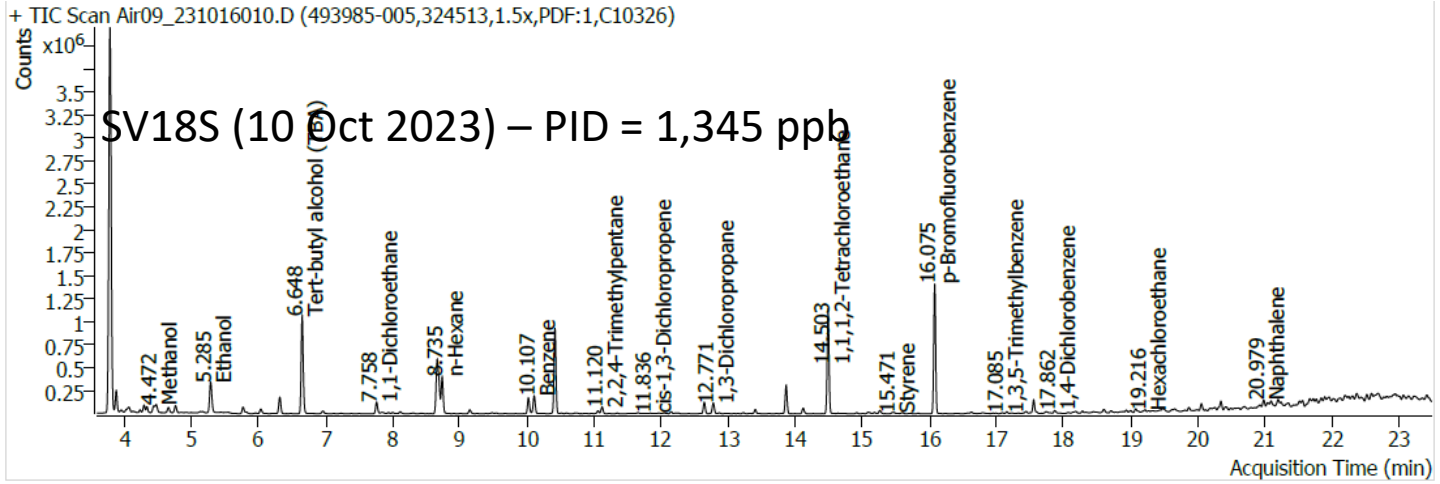

+ TIC Scan Air09_231016007.D (493985-001,324513,1.5x,PDF:1,C11798)
SV15S (10 Oct 2023) – PID = 250 ppb
Counts
x10^6
4.122 Freon 12
5.287 Ethanol
6.013 Isopropanol (IPA)
6.957 Carbon Disulfide
7.845 Vinyl Acetate
8.734 n-Hexane
10.246 Carbon Tetrachloride
11.120 2,2,4-Trimethylpentane
11.894 4-Methyl-2-Pentanone
12.776 1,3-Dichloropropane
14.506 1,1,1,2-Tetrachloroethane
15.467 Styrene
16.075 p-Bromofluorobenzene
16.822 n-Propylbenzene
17.862 1,4-Dichlorobenzene
18.714 n-Butylbenzene
20.979 Naphthalene
Acquisition Time (min)


+ TIC Scan Air09_231016008.D (493985-002,324513,1.5x,PDF:1,C10394)
SV15D (10 Oct 2023) – PID = 221 ppb
Counts
x10^6
4.122 Freon 12
5.285 Ethanol
6.016 Isopropanol (IPA)
6.954 Freon 113
7.836 MTBE
8.722 Ethyl Acetate
10.246 Carbon Tetrachloride
11.117 2,2,4-Trimethylpentane
11.915 4-Methyl-2-Pentanone
12.771 1,3-Dichloropropane
14.512 1,1,1,2-Tetrachloroethane
15.467 Styrene
16.075 p-Bromofluorobenzene
16.819 n-Propylbenzene
17.550 tert-Butylbenzene
18.309 1,2-Dichlorobenzene
19.225 Hexachloroethane
20.979 Naphthalene
Acquisition Time (min)

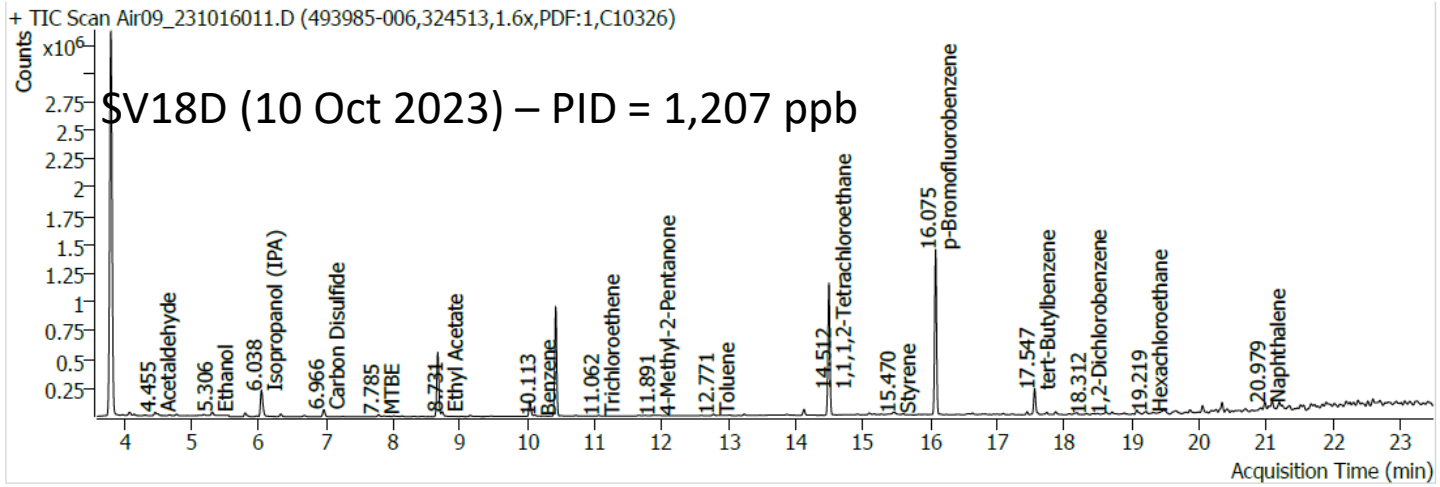

+ TIC Scan Air09_231016009.D (493985-003,324513,1.5x,PDF:1,C10089)
SV17S (10 Oct 2023) – PID = 420 ppb
Counts
x10^6
4.122 Freon 12
5.285 Ethanol
6.016 Isopropanol (IPA)
7.842 Vinyl Acetate
8.734 Ethyl Acetate
9.475 1,2-Dichloroethane
10.367 Cyclohexane
11.117 2,2,4-Trimethylpentane
11.888 4-Methyl-2-Pentanone
12.771 1,3-Dichloropropane
14.509 1,1,1,2-Tetrachloroethane
15.470 Styrene
16.075 p-Bromofluorobenzene
16.822 n-Propylbenzene
17.550 tert-Butylbenzene
18.312 1,2-Dichlorobenzene
19.219 Hexachloroethane
20.979 Naphthalene
Acquisition Time (min)



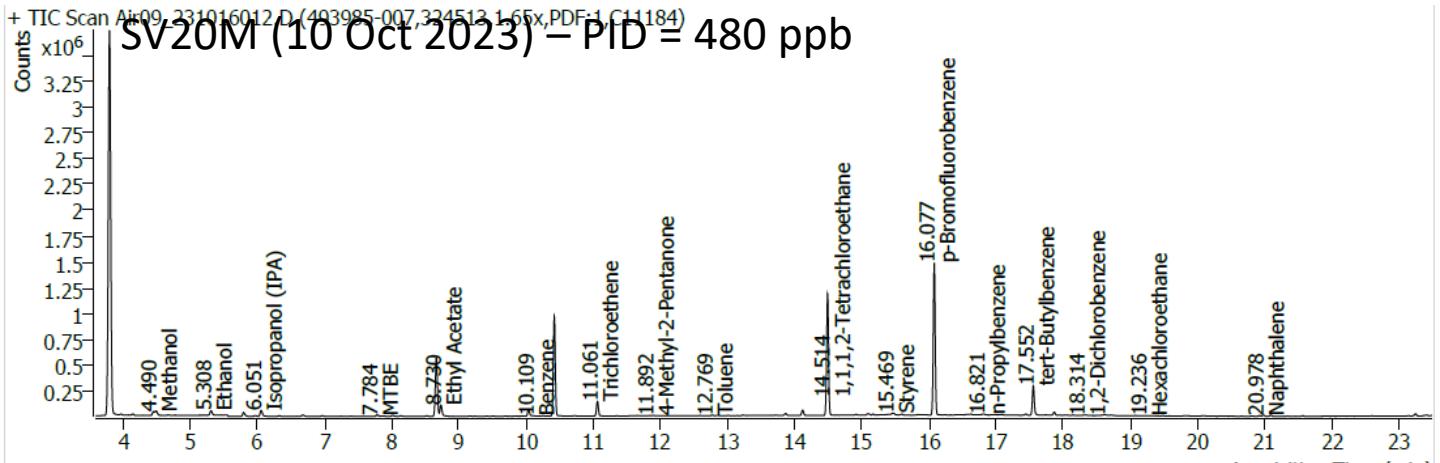
SV17D (10 Oct 2023) – PID = 427 ppb



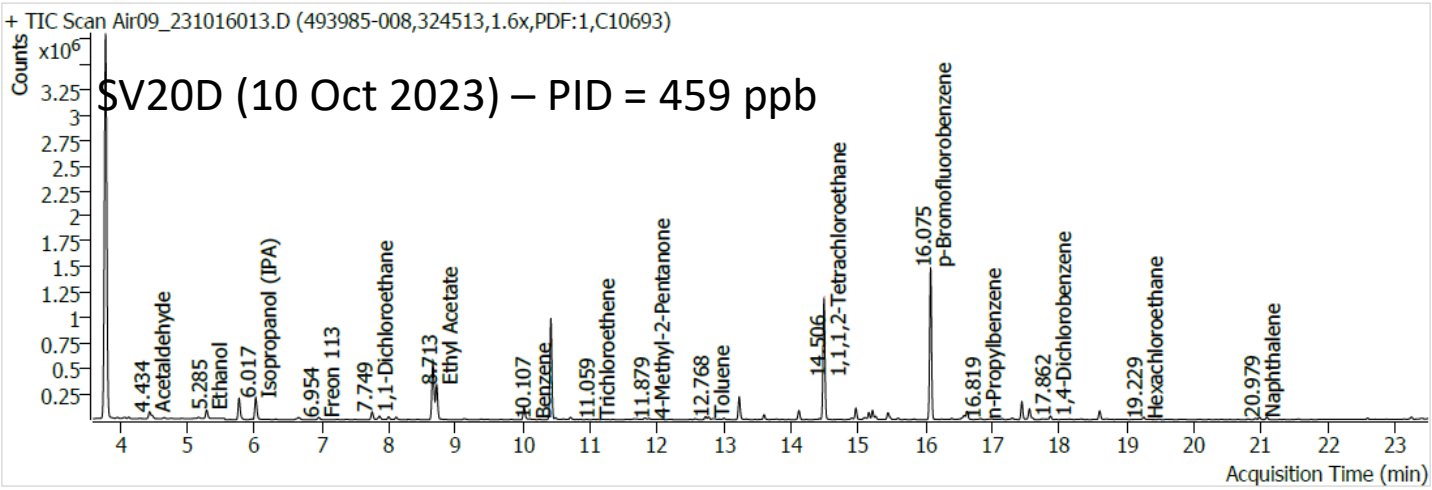
SV18S (10 Oct 2023) – PID = 1,345 ppb



SV18D (10 Oct 2023) – PID = 1,207 ppb

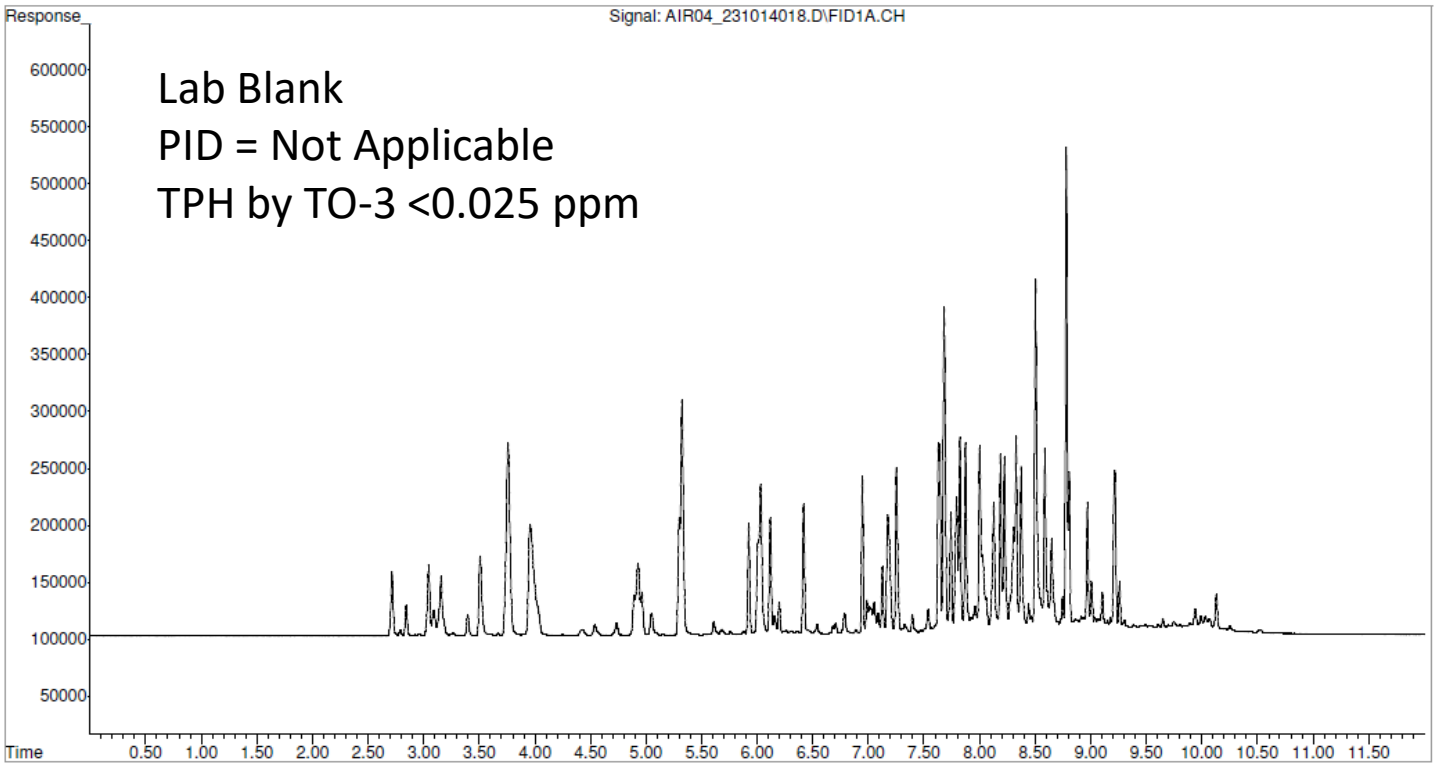


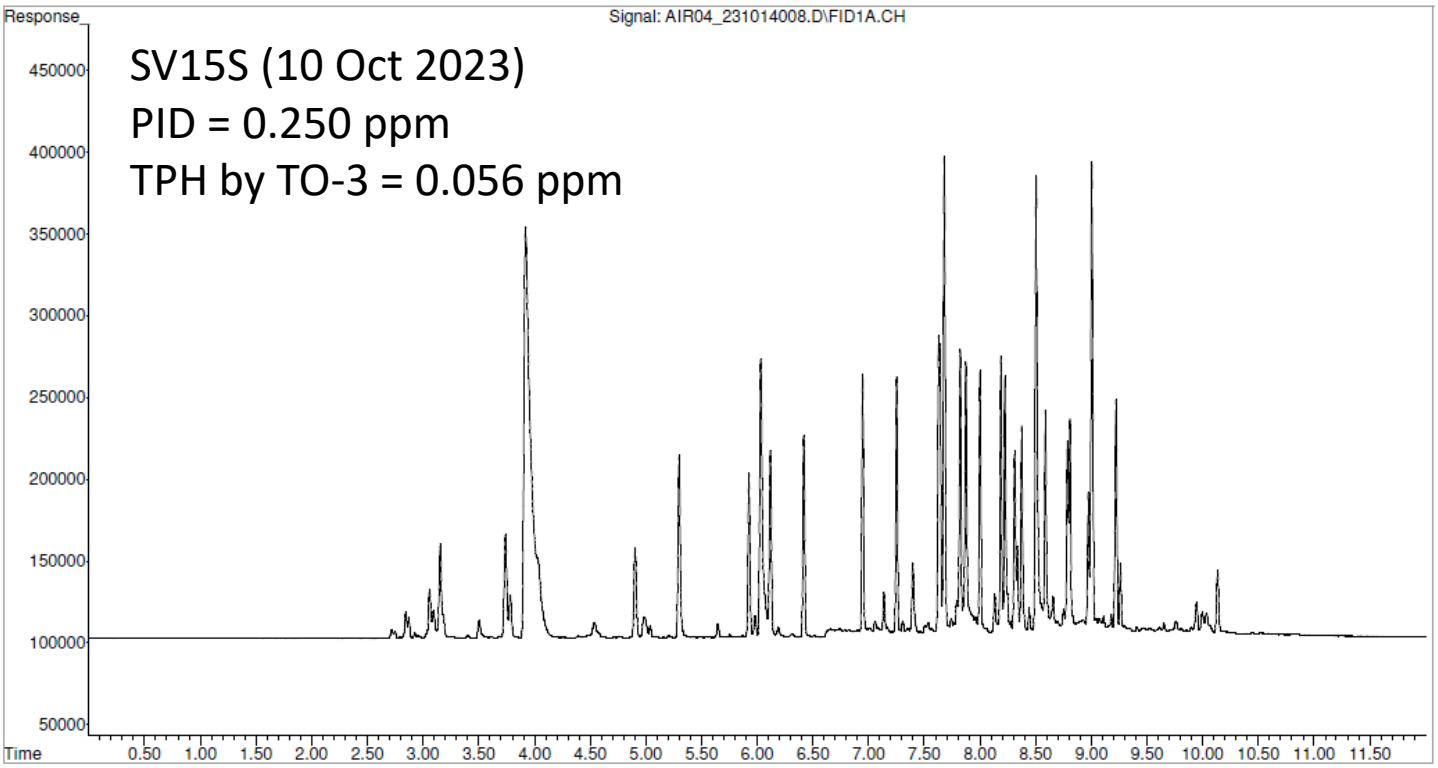
SV20M (10 Oct 2023) – PID = 480 ppb

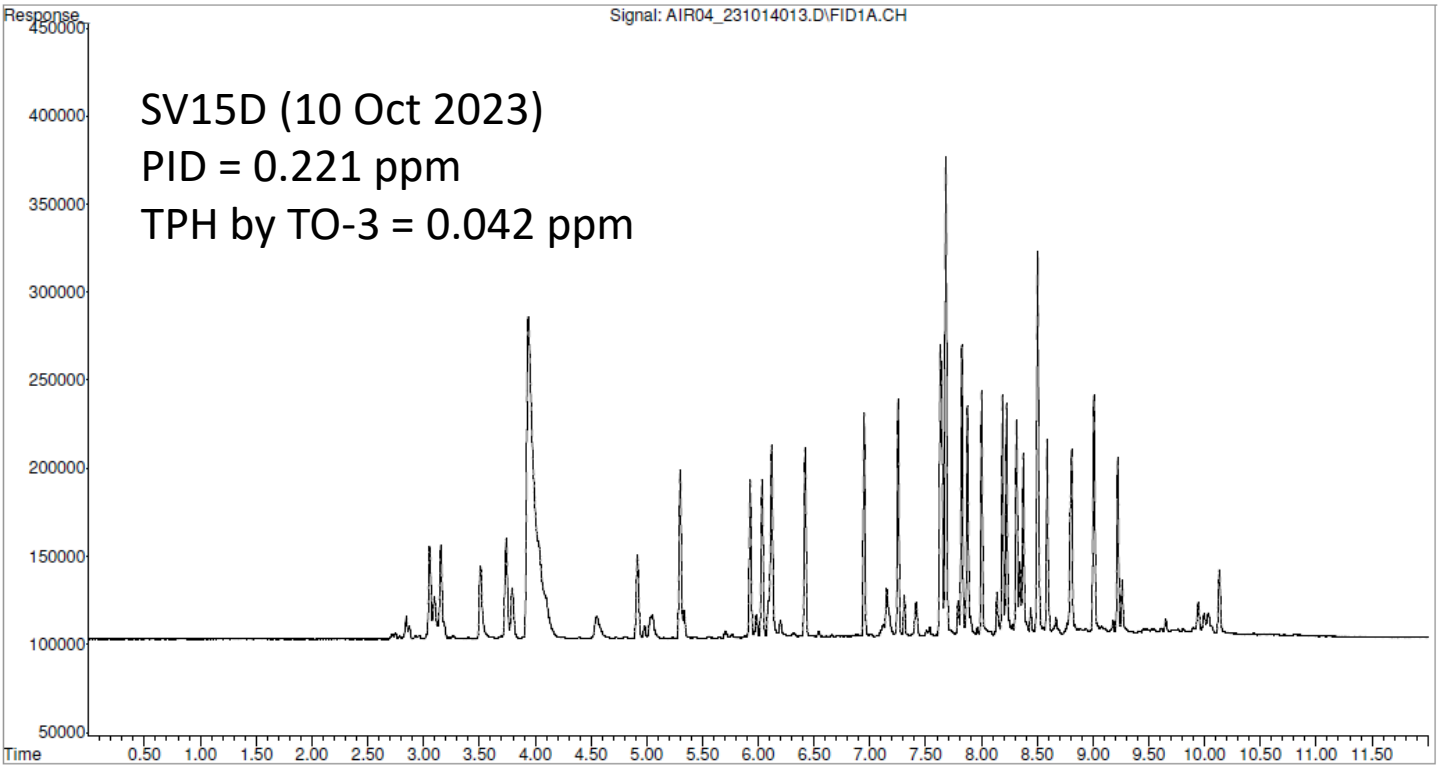

+ TIC Scan Air09_231016013.D (493985-008,324513,1.6x,PDF:1,C10693)
SV20D (10 Oct 2023) – PID = 459 ppb
Counts
x10^6
4.434 Acetaldehyde
5.285 Ethanol
6.017 Isopropanol (IPA)
6.954 Freon 113
7.749 1,1-Dichloroethane
8.713 Ethyl Acetate
10.107 Benzene
11.059 Trichloroethene
11.879 4-Methyl-2-Pentanone
12.768 Toluene
14.506 1,1,1,2-Tetrachloroethane
16.075 p-Bromofluorobenzene
16.819 n-Propylbenzene
17.862 1,4-Dichlorobenzene
19.229 Hexachloroethane
20.979 Naphthalene
Acquisition Time (min)

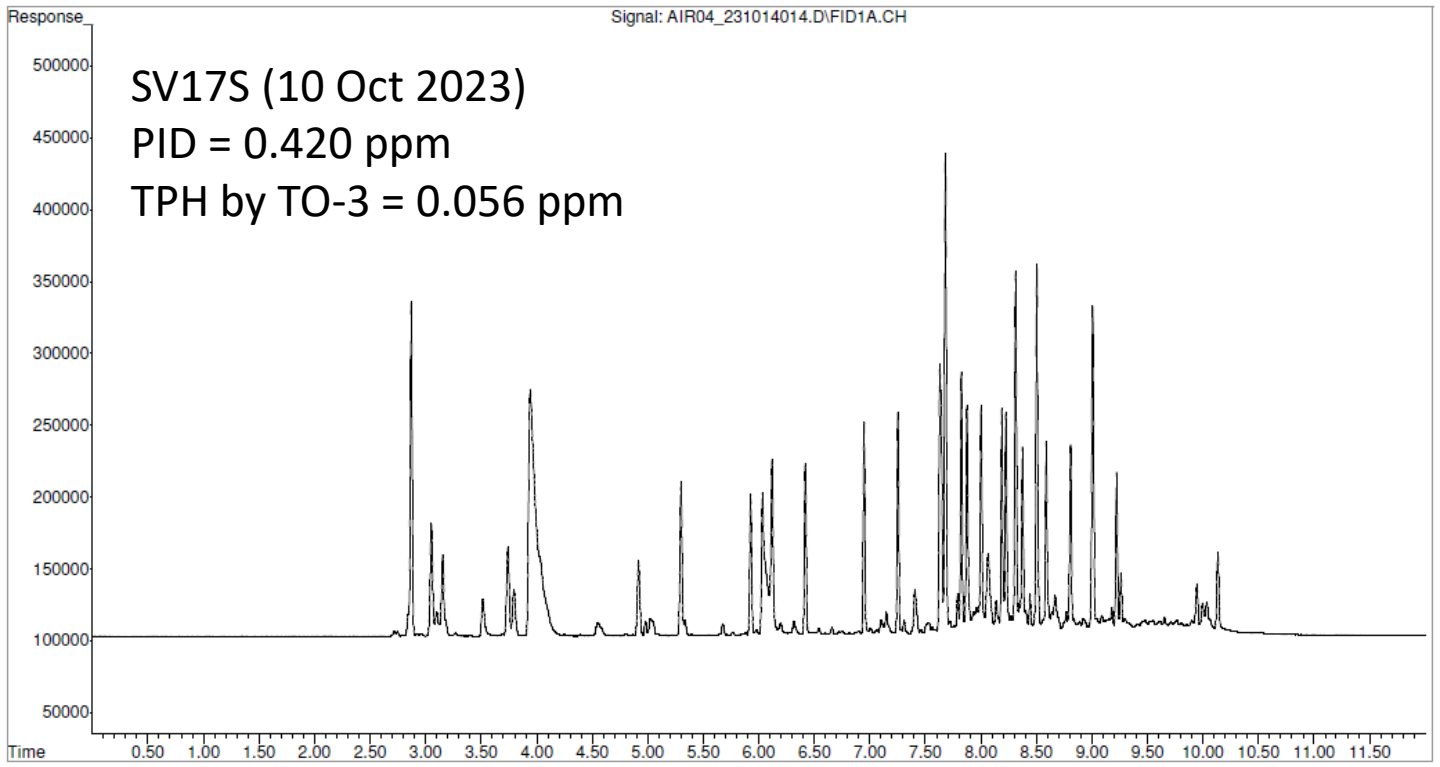
October 2023
Soil Vapor Samples

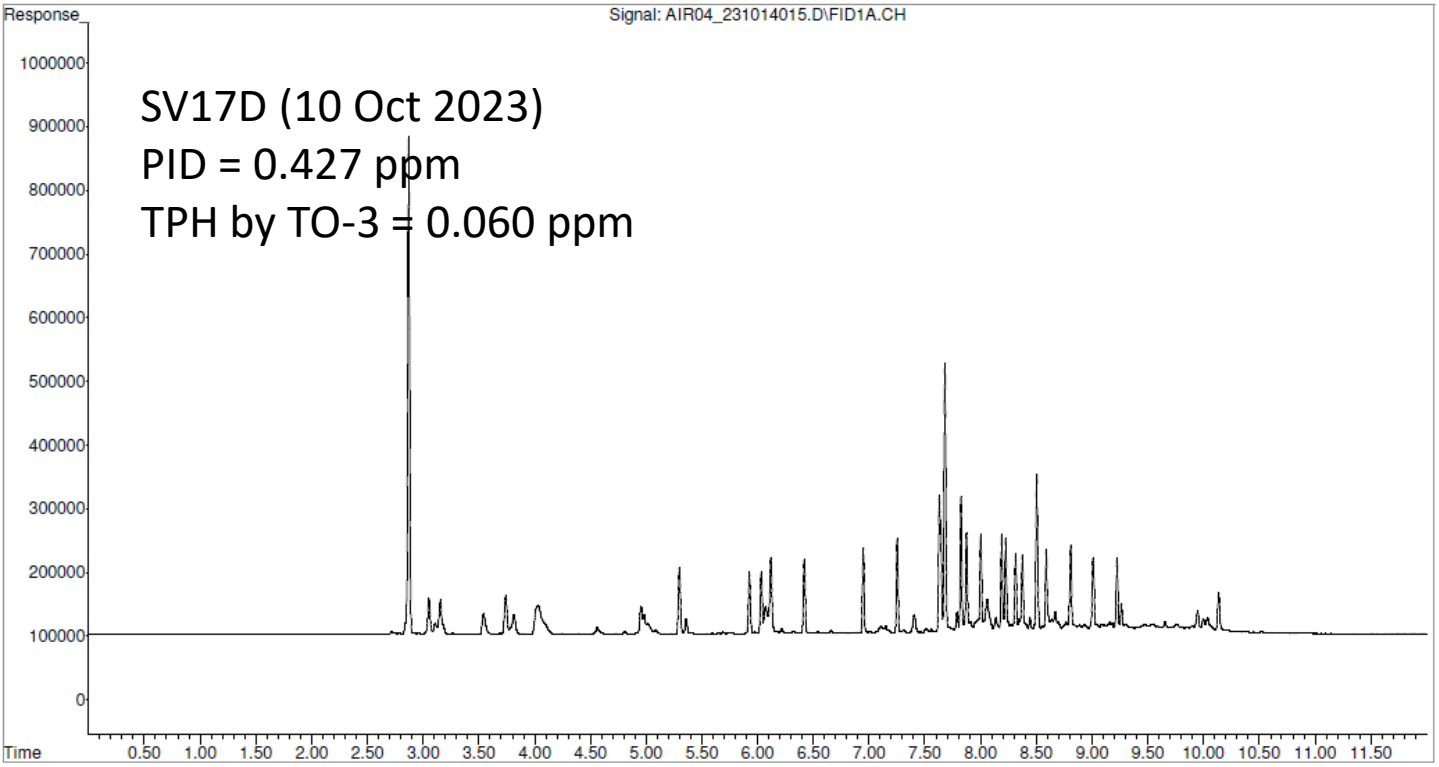
FID Chromatograms

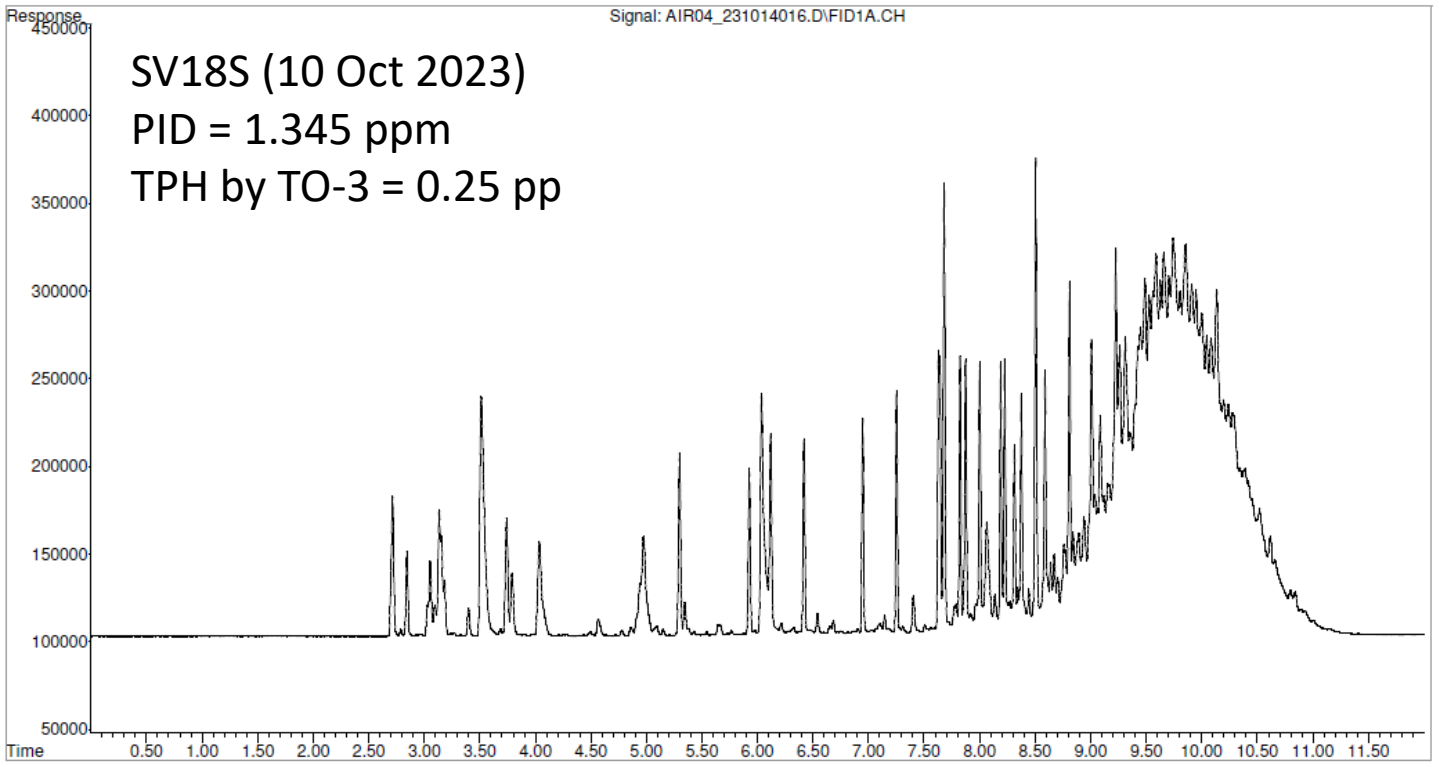

Response
Signal: AIR04_231014018.D\FID1A.CH
Lab Blank
PID = Not Applicable
TPH by TO-3 <0.025 ppm
600000
550000
500000
450000
400000
350000
300000
250000
200000
150000
100000
50000
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

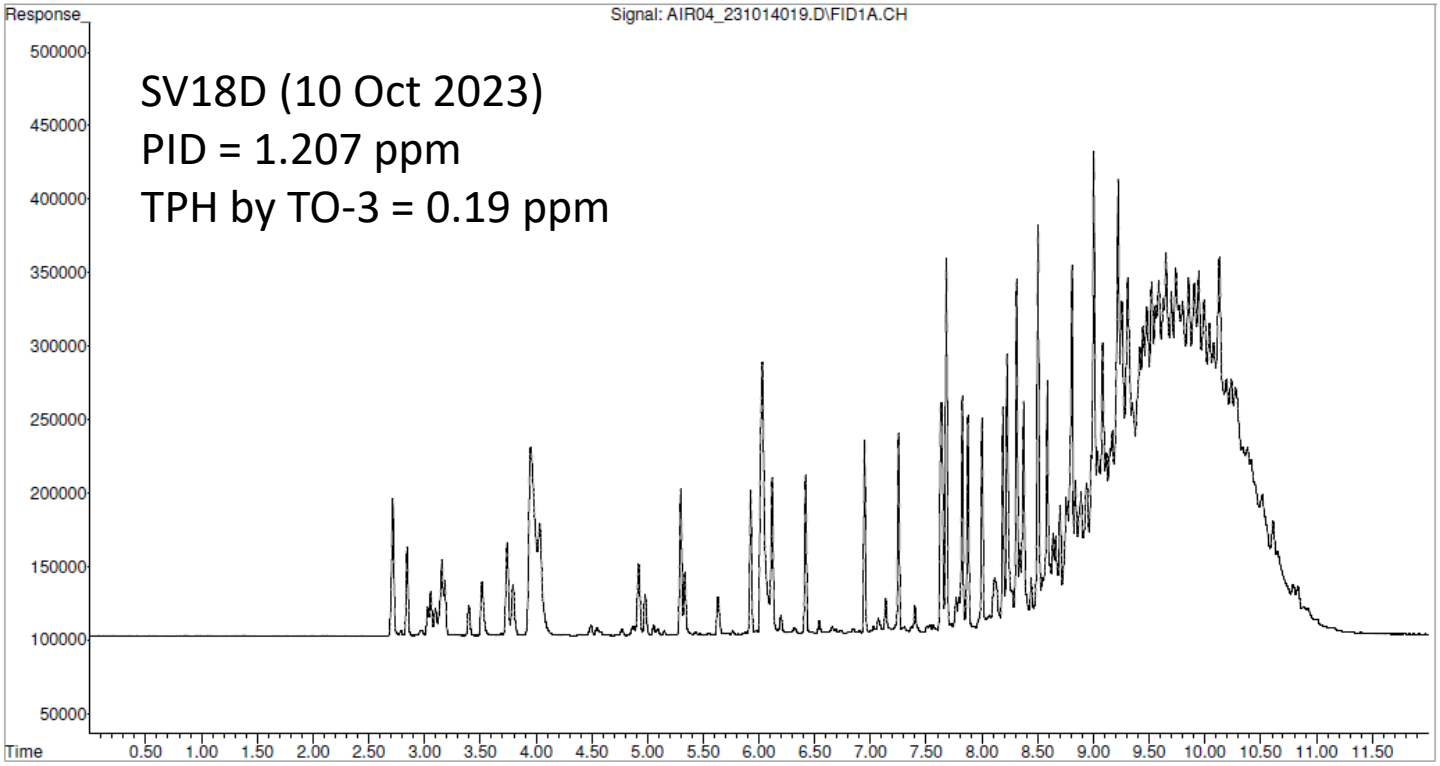

Response
Signal: AIR04_231014008.D\FID1A.CH
SV15S (10 Oct 2023)
PID = 0.250 ppm
TPH by TO-3 = 0.056 ppm
450000
400000
350000
300000
250000
200000
150000
100000
50000
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

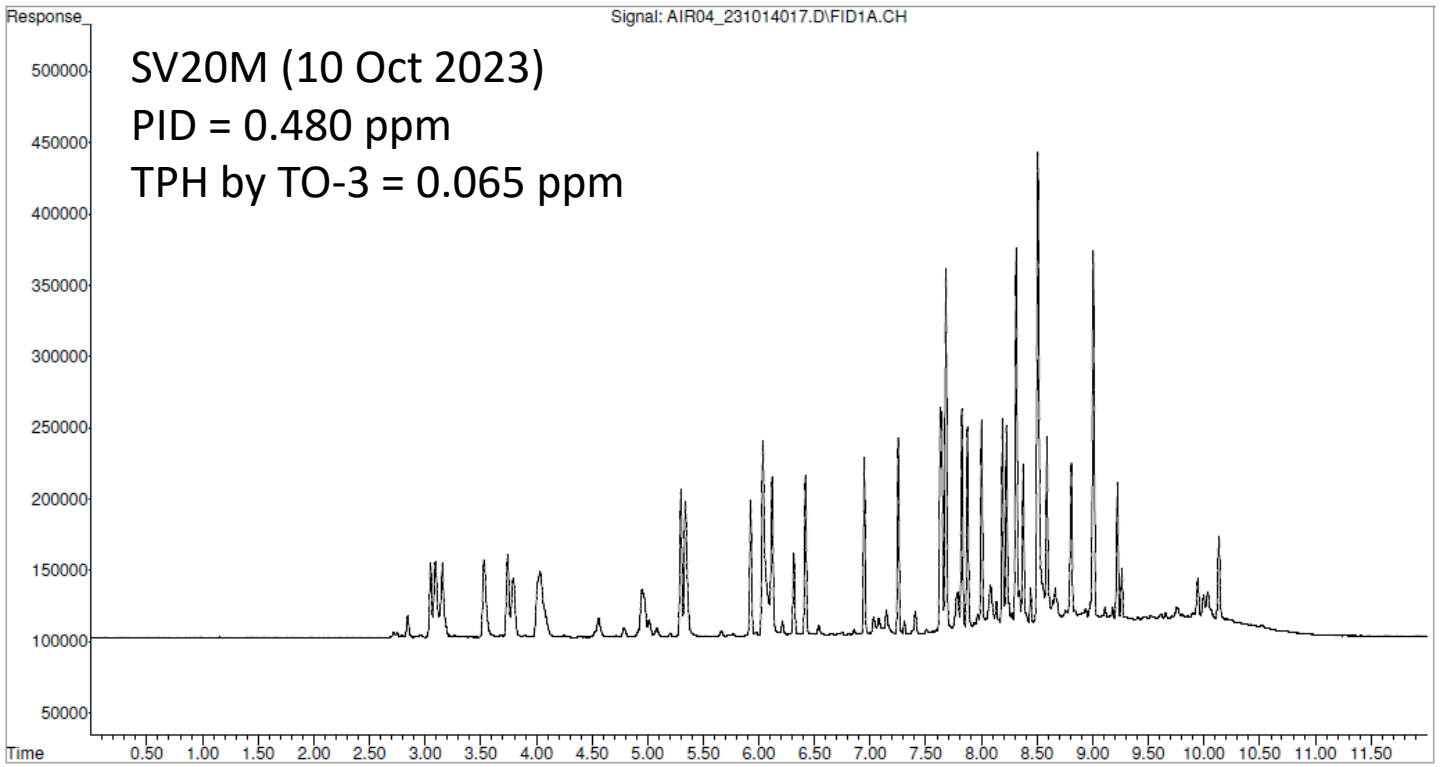

Response
Signal: AIR04_231014013.D\FID1A.CH
SV15D (10 Oct 2023)
PID = 0.221 ppm
TPH by TO-3 = 0.042 ppm
450000
400000
350000
300000
250000
200000
150000
100000
50000
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

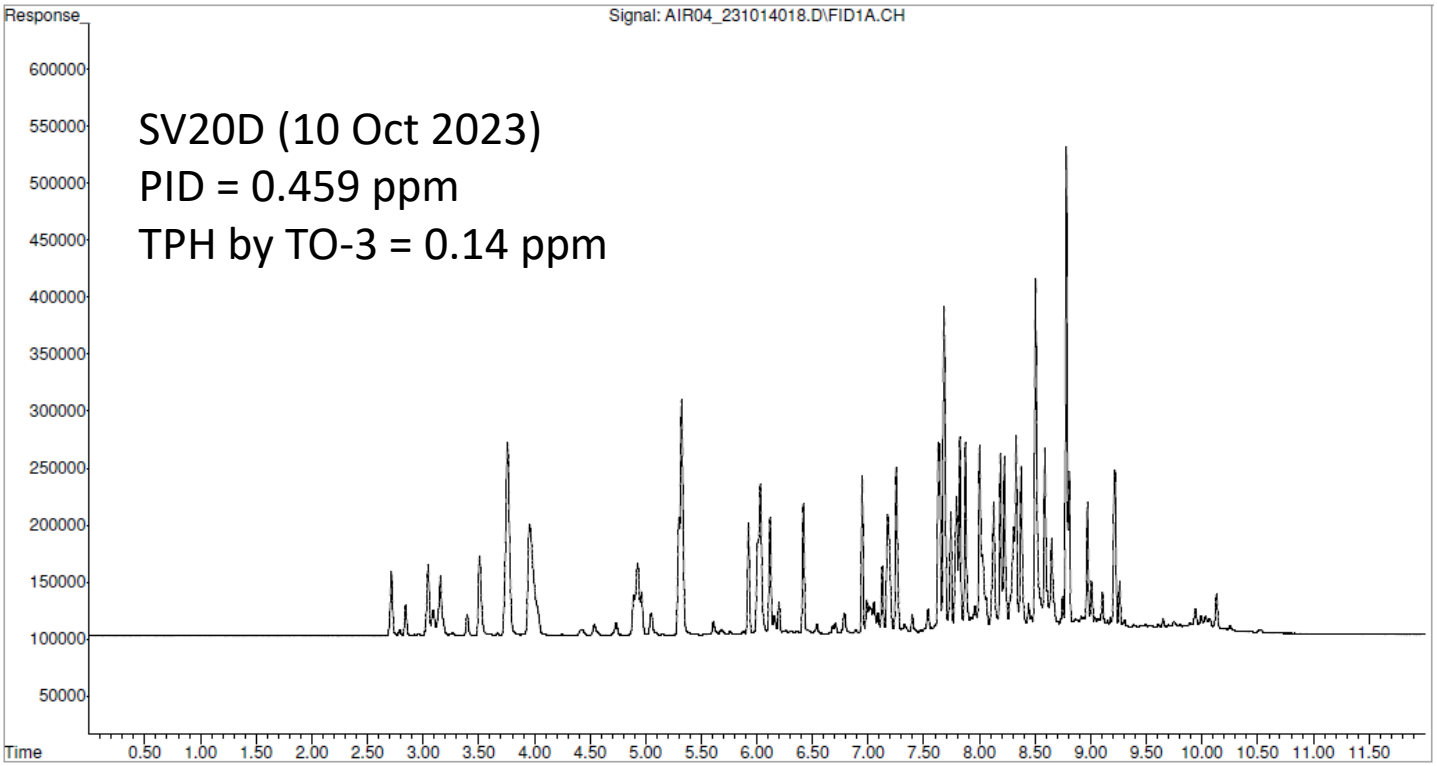

Response
Signal: AIR04_231014014.D\FID1A.CH
SV17S (10 Oct 2023)
PID = 0.420 ppm
TPH by TO-3 = 0.056 ppm
500000
450000
400000
350000
300000
250000
200000
150000
100000
50000
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50


Response_
Signal: AIR04_231014015.D\FID1A.CH
SV17D (10 Oct 2023)
PID = 0.427 ppm
TPH by TO-3 = 0.060 ppm
1000000
900000
800000
700000
600000
500000
400000
300000
200000
100000
0
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50


Response_
Signal: AIR04_231014016.D\FID1A.CH
SV18S (10 Oct 2023)
PID = 1.345 ppm
TPH by TO-3 = 0.25 pp
450000
400000
350000
300000
250000
200000
150000
100000
50000
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

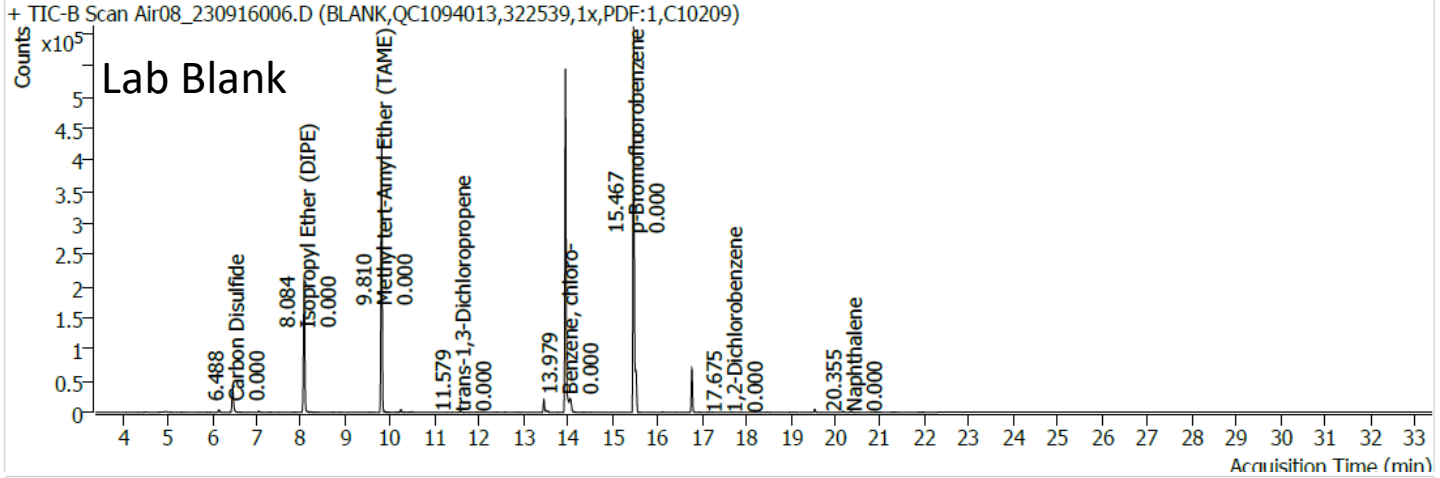

Response
Signal: AIR04_231014019.D\FID1A.CH
SV18D (10 Oct 2023)
PID = 1.207 ppm
TPH by TO-3 = 0.19 ppm
500000
450000
400000
350000
300000
250000
200000
150000
100000
50000
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

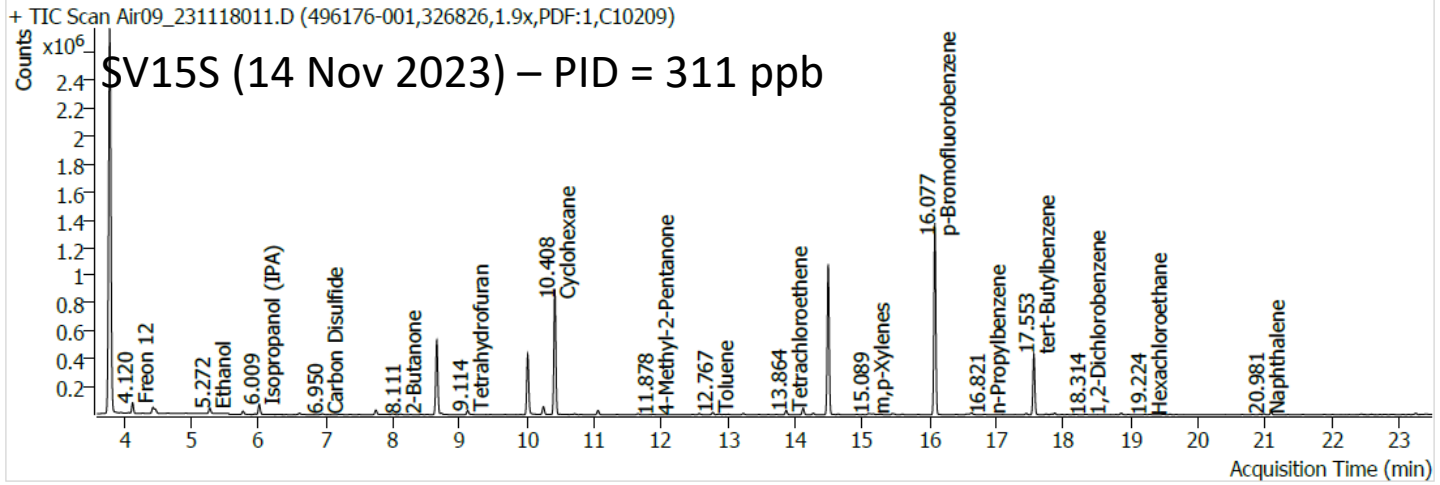

Response
Signal: AIR04_231014017.D\FID1A.CH
SV20M (10 Oct 2023)
PID = 0.480 ppm
TPH by TO-3 = 0.065 ppm
500000
450000
400000
350000
300000
250000
200000
150000
100000
50000
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

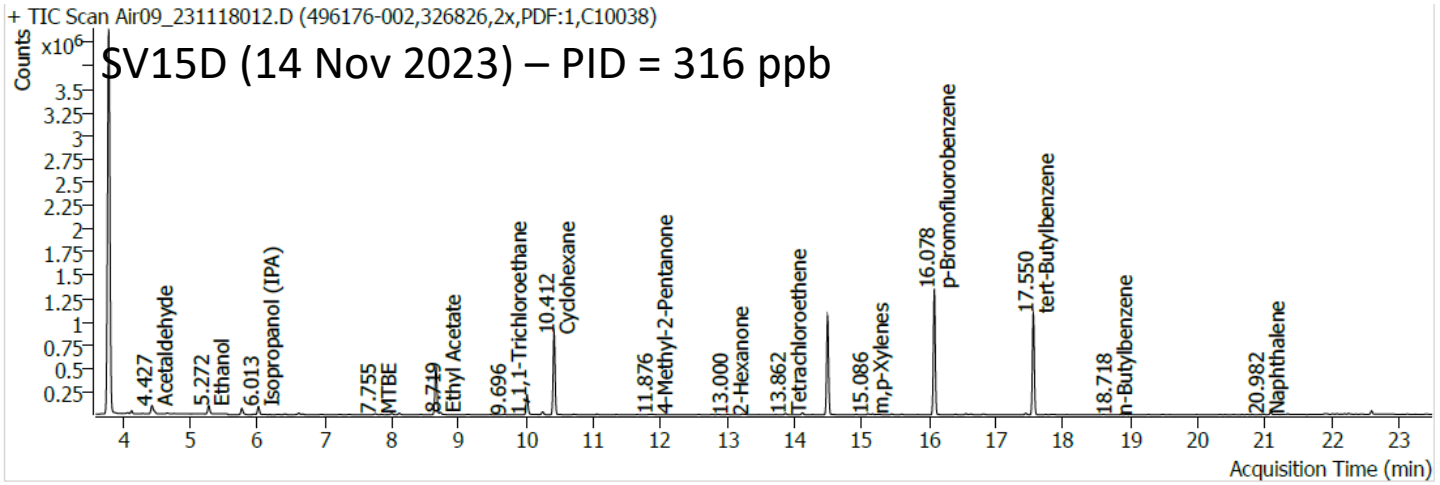

Response
Signal: AIR04_231014018.D\FID1A.CH
SV20D (10 Oct 2023)
PID = 0.459 ppm
TPH by TO-3 = 0.14 ppm
600000
550000
500000
450000
400000
350000
300000
250000
200000
150000
100000
50000
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

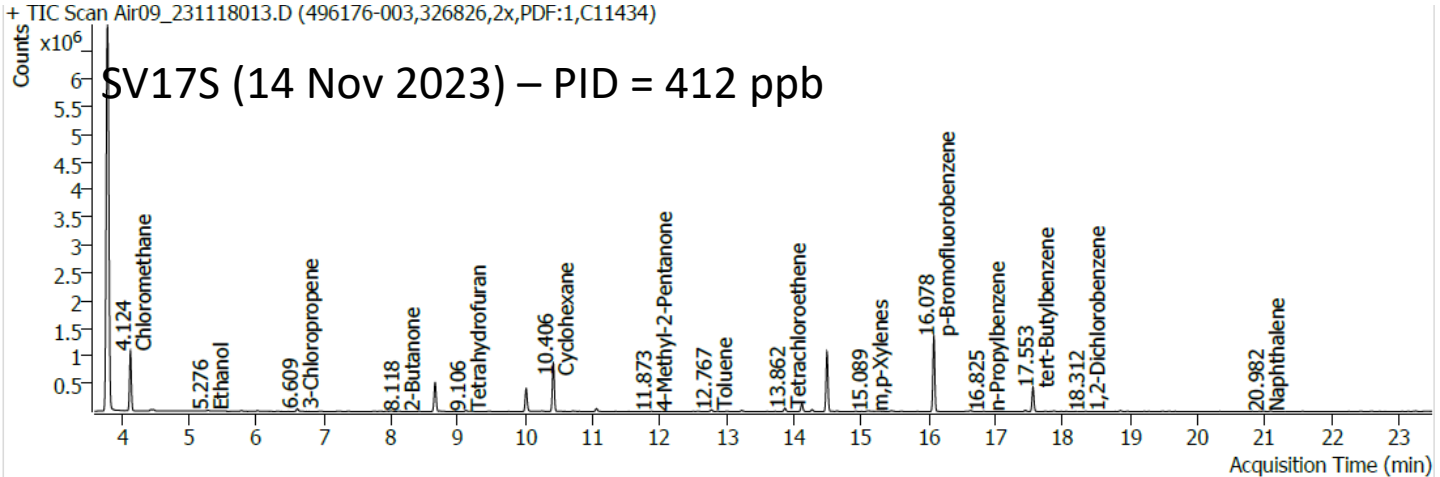
November 2023
Soil Vapor Samples

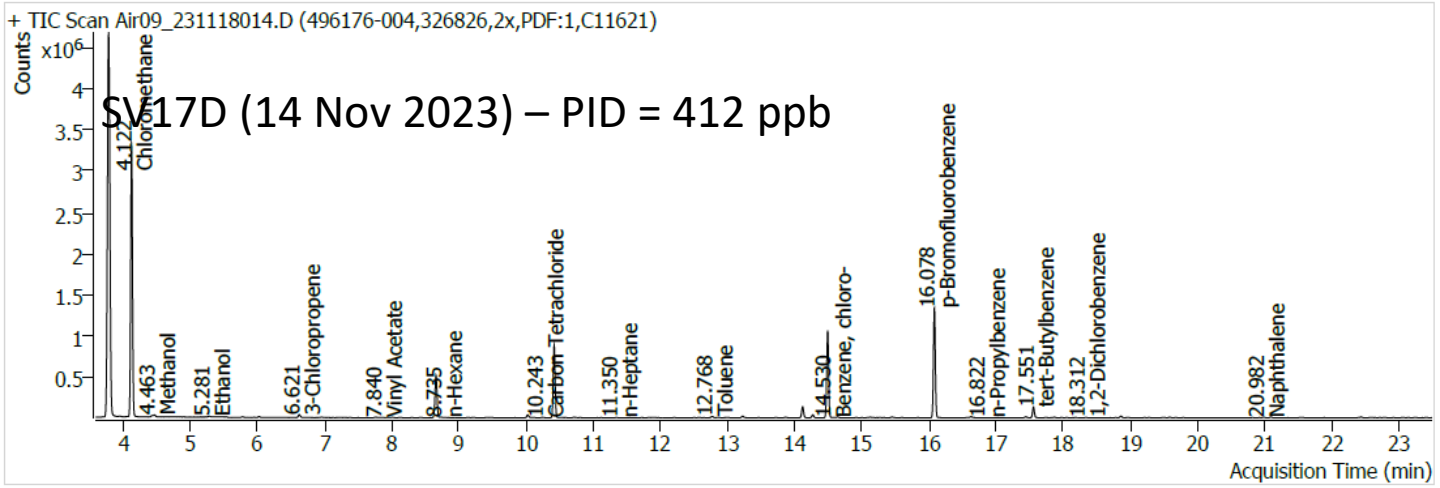
Mass Spec Chromatograms

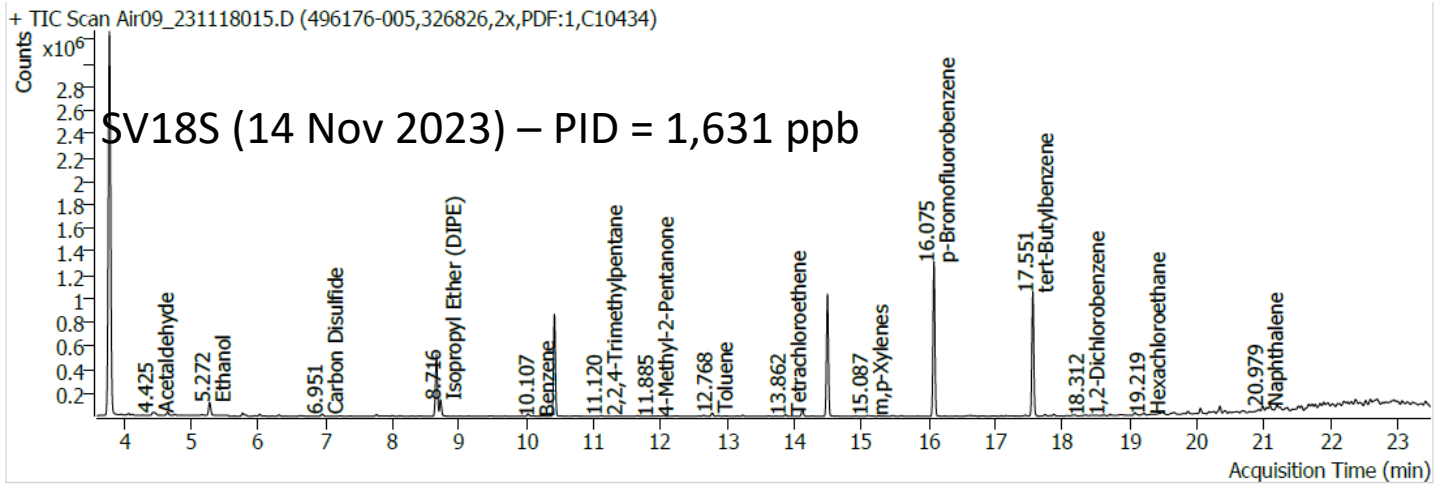

+ TIC-B Scan Air08_230916006.D (BLANK,QC1094013,322539,1x,PDF:1,C10209)
Lab Blank
Counts
x10^5
6.488 Carbon Disulfide 0.000
8.084 Isopropyl Ether (DIPE) 0.000
9.810 Methyl tert-Amyl Ether (TAME) 0.000
11.579 trans-1,3-Dichloropropene 0.000
13.979 Benzene, chloro- 0.000
15.467 p-Bromofluorobenzene 0.000
17.675 1,2-Dichlorobenzene 0.000
20.355 Naphthalene 0.000
Acquisition Time (min)

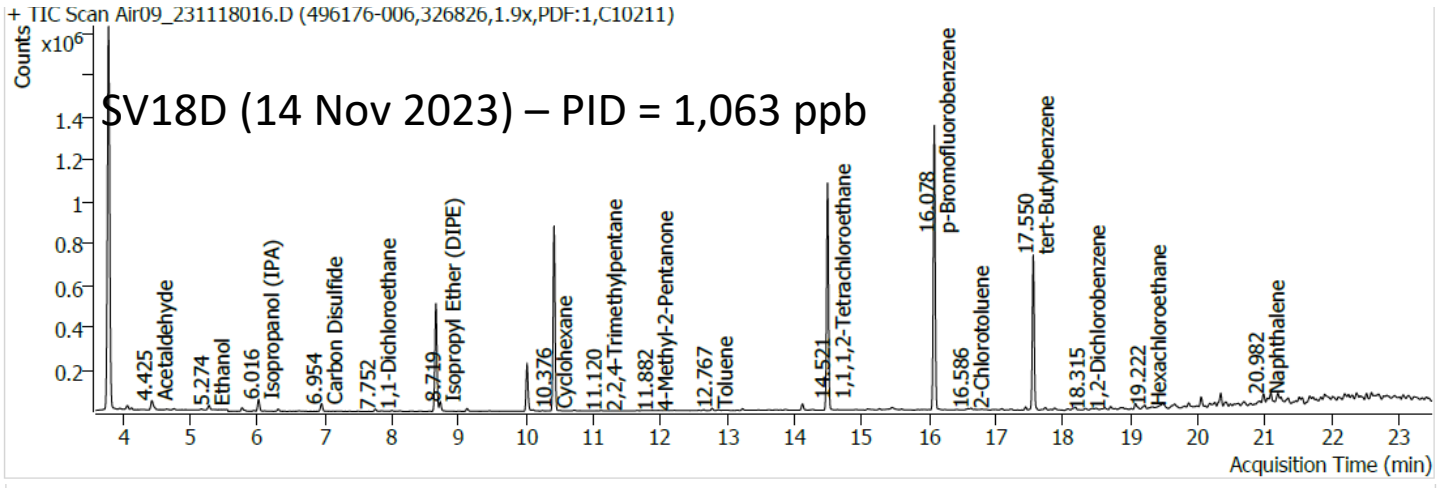

+ TIC Scan Air09_231118011.D (496176-001,326826,1.9x,PDF:1,C10209)
SV15S (14 Nov 2023) – PID = 311 ppb
Counts
x10^6
4.120 Freon 12
5.272 Ethanol
6.009 Isopropanol (IPA)
6.950 Carbon Disulfide
8.111 2-Butanone
9.114 Tetrahydrofuran
10.408 Cyclohexane
11.878 4-Methyl-2-Pentanone
12.767 Toluene
13.864 Tetrachloroethene
15.089 m,p-Xylenes
16.077 p-Bromofluorobenzene
16.821 n-Propylbenzene
17.553 tert-Butylbenzene
18.314 1,2-Dichlorobenzene
19.224 Hexachloroethane
20.981 Naphthalene
Acquisition Time (min)

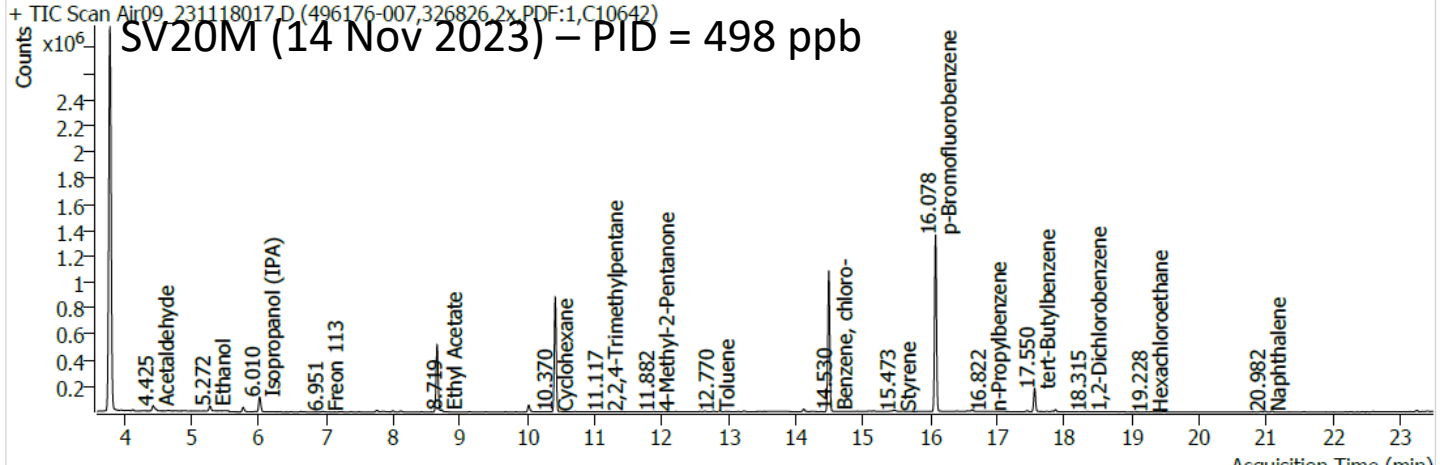

+ TIC Scan Air09_231118012.D (496176-002,326826,2x,PDF:1,C10038)
SV15D (14 Nov 2023) – PID = 316 ppb
Counts
x10^6
4.427 Acetaldehyde
5.272 Ethanol
6.013 Isopropanol (IPA)
7.755 MTBE
8.719 Ethyl Acetate
9.696 1,1,1-Trichloroethane
10.412 Cyclohexane
11.876 4-Methyl-2-Pentanone
13.000 2-Hexanone
13.862 Tetrachloroethene
15.086 m,p-Xylenes
16.078 p-Bromofluorobenzene
17.550 tert-Butylbenzene
18.718 n-Butylbenzene
20.982 Naphthalene
Acquisition Time (min)

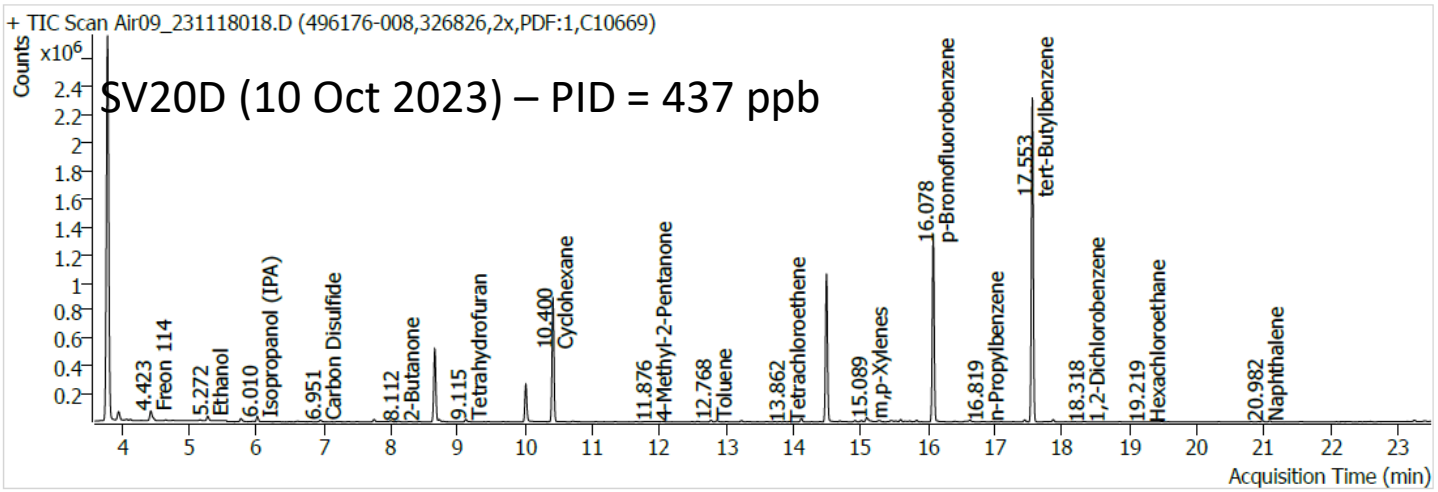

+ TIC Scan Air09_231118013.D (496176-003,326826,2x,PDF:1,C11434)
SV17S (14 Nov 2023) – PID = 412 ppb
Counts
x10^6
4.124 Chloromethane
5.276 Ethanol
6.609 3-Chloropropene
8.118 2-Butanone
9.106 Tetrahydrofuran
10.406 Cyclohexane
11.873 4-Methyl-2-Pentanone
12.767 Toluene
13.862 Tetrachloroethene
15.089 m,p-Xylenes
16.078 p-Bromofluorobenzene
16.825 n-Propylbenzene
17.553 tert-Butylbenzene
18.312 1,2-Dichlorobenzene
20.982 Naphthalene
Acquisition Time (min)


+ TIC Scan Air09_231118014.D (496176-004,326826,2x,PDF:1,C11621)
Counts
x10^6
SV17D (14 Nov 2023) – PID = 412 ppb
4.123 Chloroethane
4.463 Methanol
5.281 Ethanol
6.621 3-Chloropropene
7.840 Vinyl Acetate
8.735 n-Hexane
10.243 Carbon Tetrachloride
11.350 n-Heptane
12.768 Toluene
14.530 Benzene, chloro-
16.078 p-Bromofluorobenzene
16.822 n-Propylbenzene
17.551 tert-Butylbenzene
18.312 1,2-Dichlorobenzene
20.982 Naphthalene
Acquisition Time (min)


+ TIC Scan Air09_231118015.D (496176-005,326826,2x,PDF:1,C10434)
Counts
x10^6
SV18S (14 Nov 2023) – PID = 1,631 ppb
4.425 Acetaldehyde
5.272 Ethanol
6.951 Carbon Disulfide
8.716 Isopropyl Ether (DIPE)
10.107 Benzene
11.120 2,2,4-Trimethylpentane
11.885 4-Methyl-2-Pentanone
12.768 Toluene
13.862 Tetrachloroethene
15.087 m,p-Xylenes
16.075 p-Bromofluorobenzene
17.551 tert-Butylbenzene
18.312 1,2-Dichlorobenzene
19.219 Hexachloroethane
20.979 Naphthalene
Acquisition Time (min)


+ TIC Scan Air09_231118016.D (496176-006,326826,1.9x,PDF:1,C10211)
Counts
x10^6
SV18D (14 Nov 2023) – PID = 1,063 ppb
4.425 Acetaldehyde
5.274 Ethanol
6.016 Isopropanol (IPA)
6.954 Carbon Disulfide
7.752 1,1-Dichloroethane
8.719 Isopropyl Ether (DIPE)
10.376 Cyclohexane
11.120 2,2,4-Trimethylpentane
11.882 4-Methyl-2-Pentanone
12.767 Toluene
14.521 1,1,1,2-Tetrachloroethane
16.078 p-Bromofluorobenzene
16.586 2-Chlorotoluene
17.550 tert-Butylbenzene
18.315 1,2-Dichlorobenzene
19.222 Hexachloroethane
20.982 Naphthalene
Acquisition Time (min)


+ TIC Scan Air09_231118017.D (496176-007,326826,2x,PDF:1,C10642)
Counts
x10^6
SV20M (14 Nov 2023) – PID = 498 ppb
4.425 Acetaldehyde
5.272 Ethanol
6.010 Isopropanol (IPA)
6.951 Freon 113
8.719 Ethyl Acetate
10.370 Cyclohexane
11.117 2,2,4-Trimethylpentane
11.882 4-Methyl-2-Pentanone
12.770 Toluene
14.530 Benzene, chloro-
15.473 Styrene
16.078 p-Bromofluorobenzene
16.822 n-Propylbenzene
17.550 tert-Butylbenzene
18.315 1,2-Dichlorobenzene
19.228 Hexachloroethane
20.982 Naphthalene
Acquisition Time (min)



SV20D (10 Oct 2023) – PID = 437 ppb

November 2023
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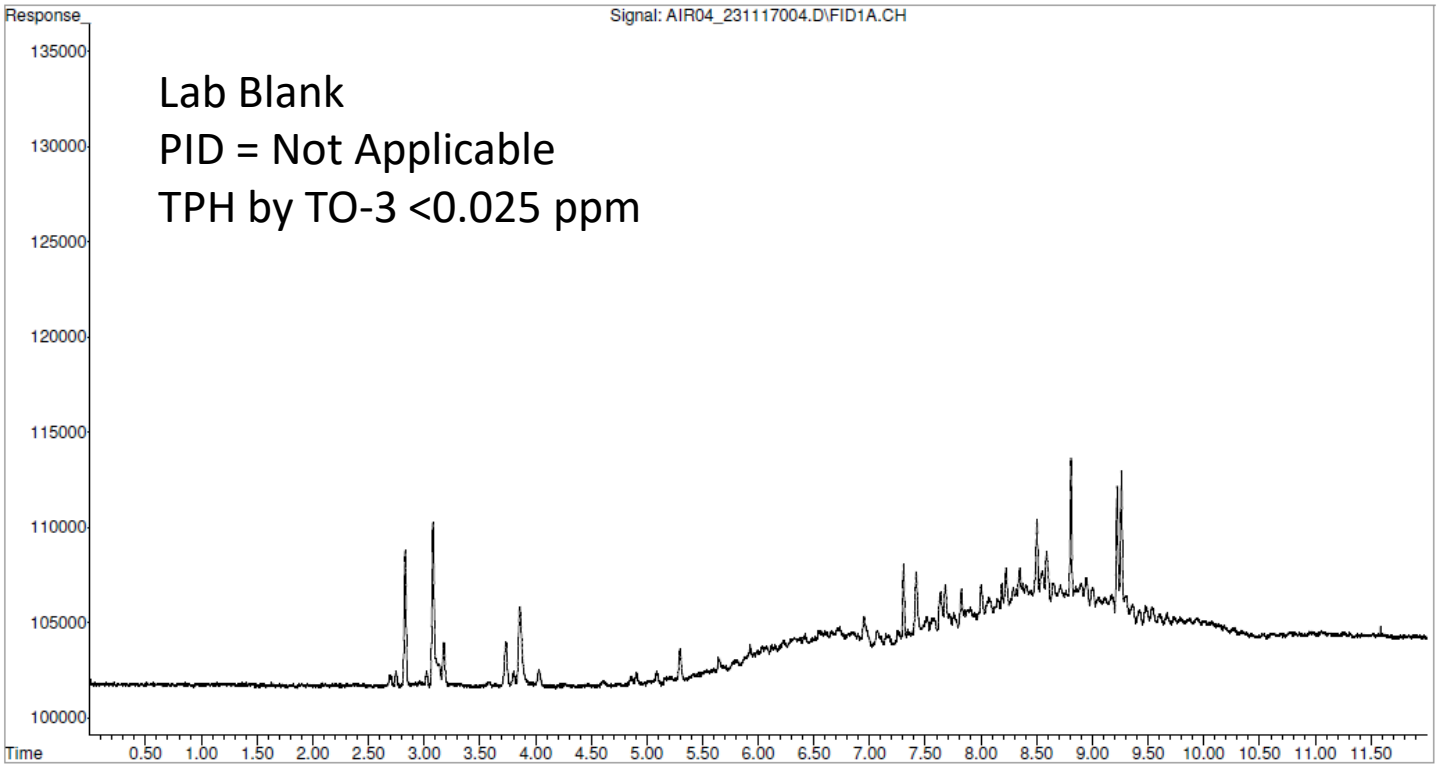
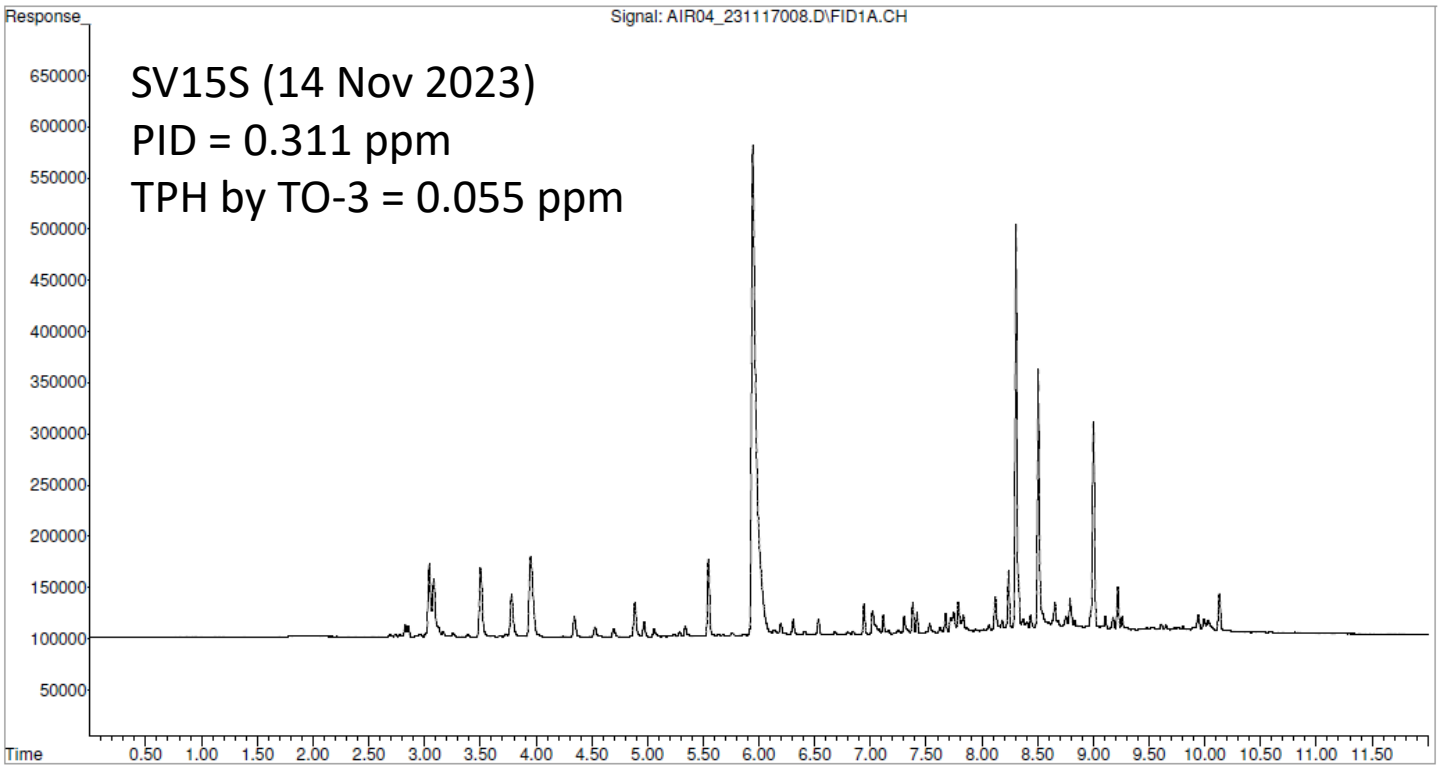
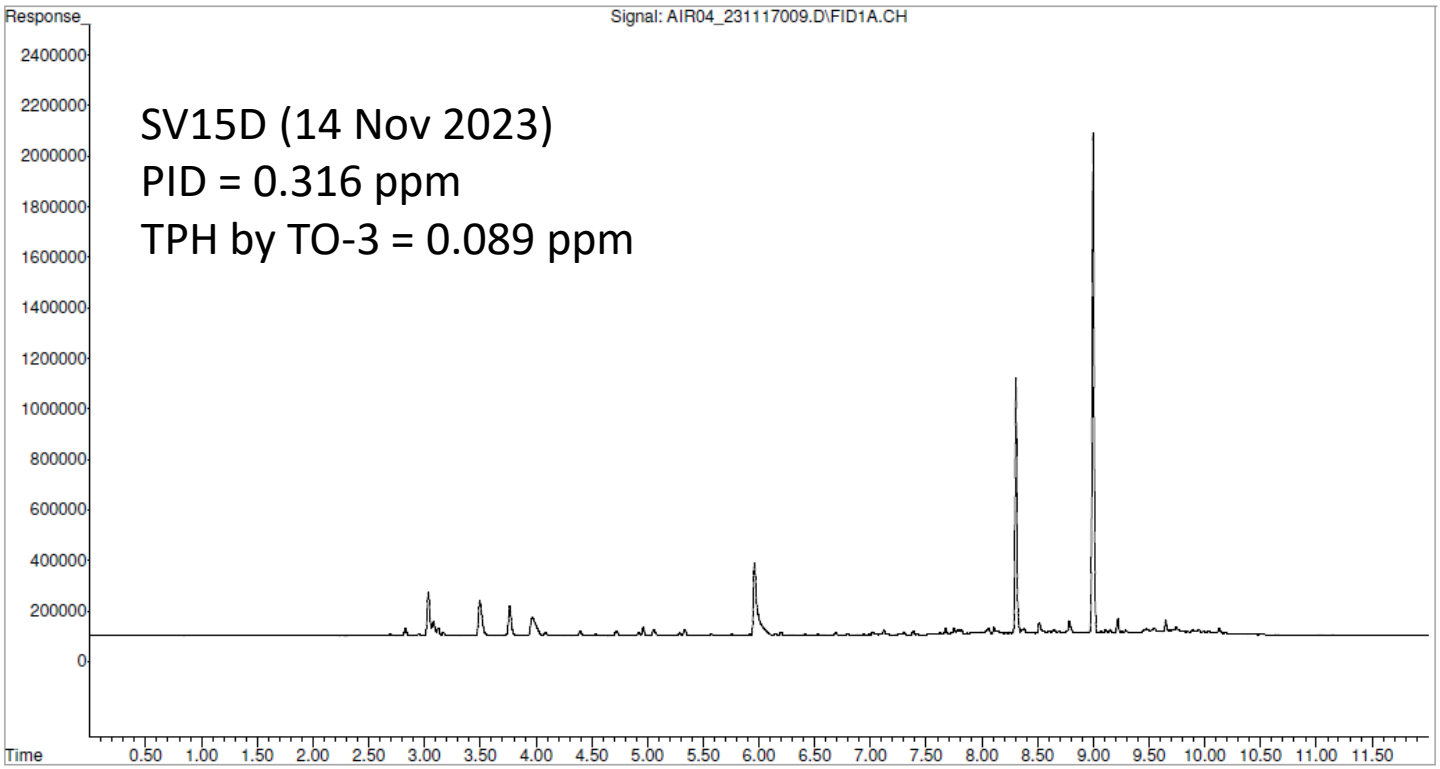
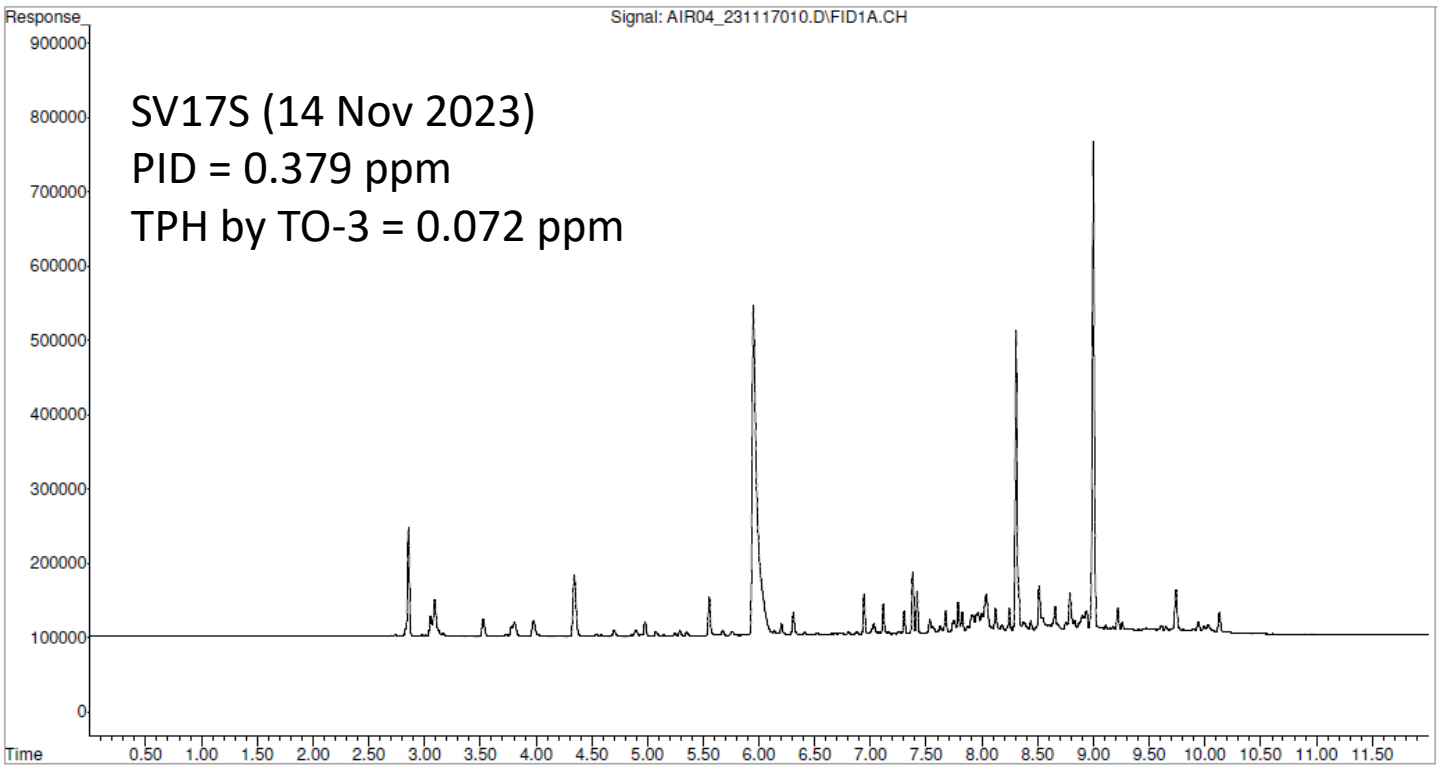
FID Chromatograms


Response_
Signal: AIR04_231117004.D\FID1A.CH
Lab Blank
PID = Not Applicable
TPH by TO-3 <0.025 ppm
135000
130000
125000
120000
115000
110000
105000
100000
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

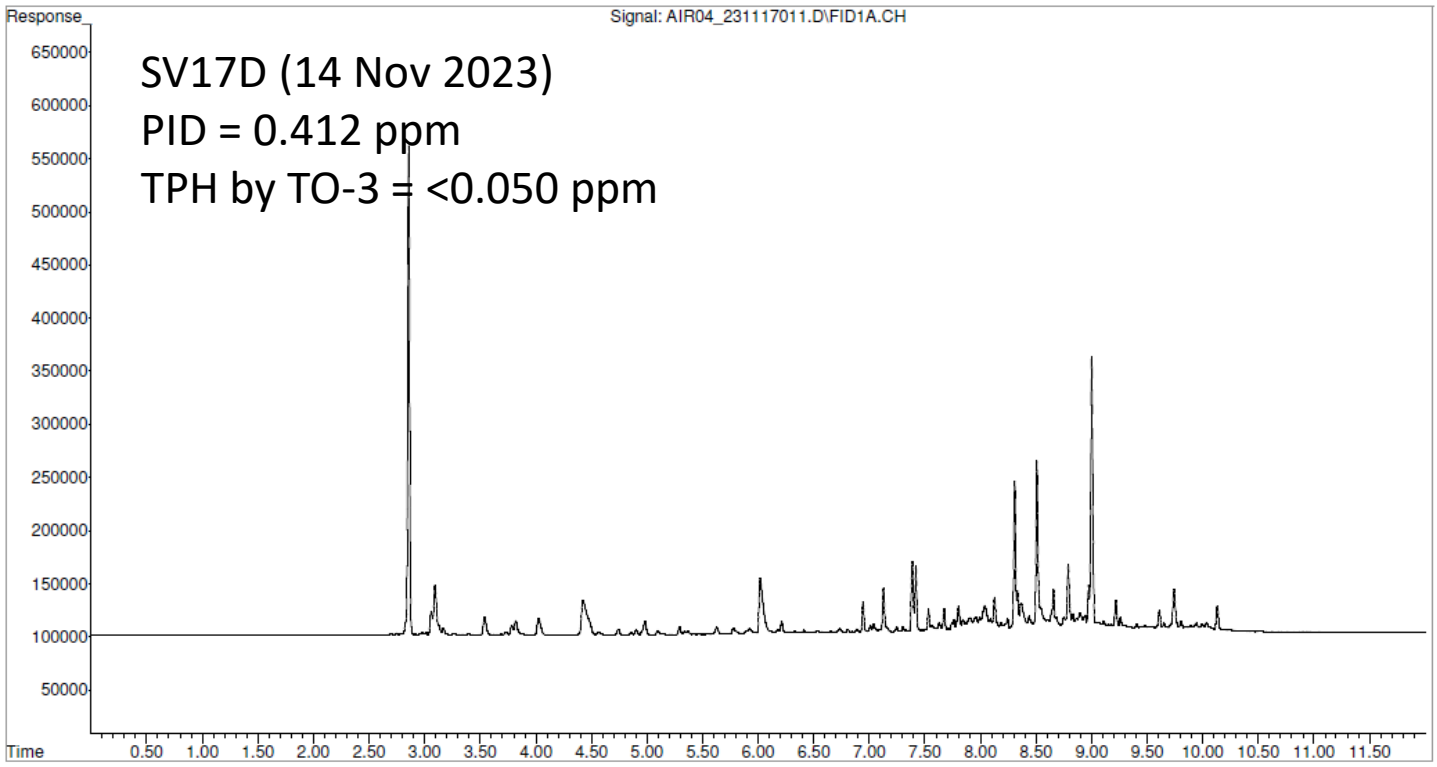

Response_
Signal: AIR04_231117008.D\FID1A.CH
SV15S (14 Nov 2023)
PID = 0.311 ppm
TPH by TO-3 = 0.055 ppm
650000
600000
550000
500000
450000
400000
350000
300000
250000
200000
150000
100000
50000
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50



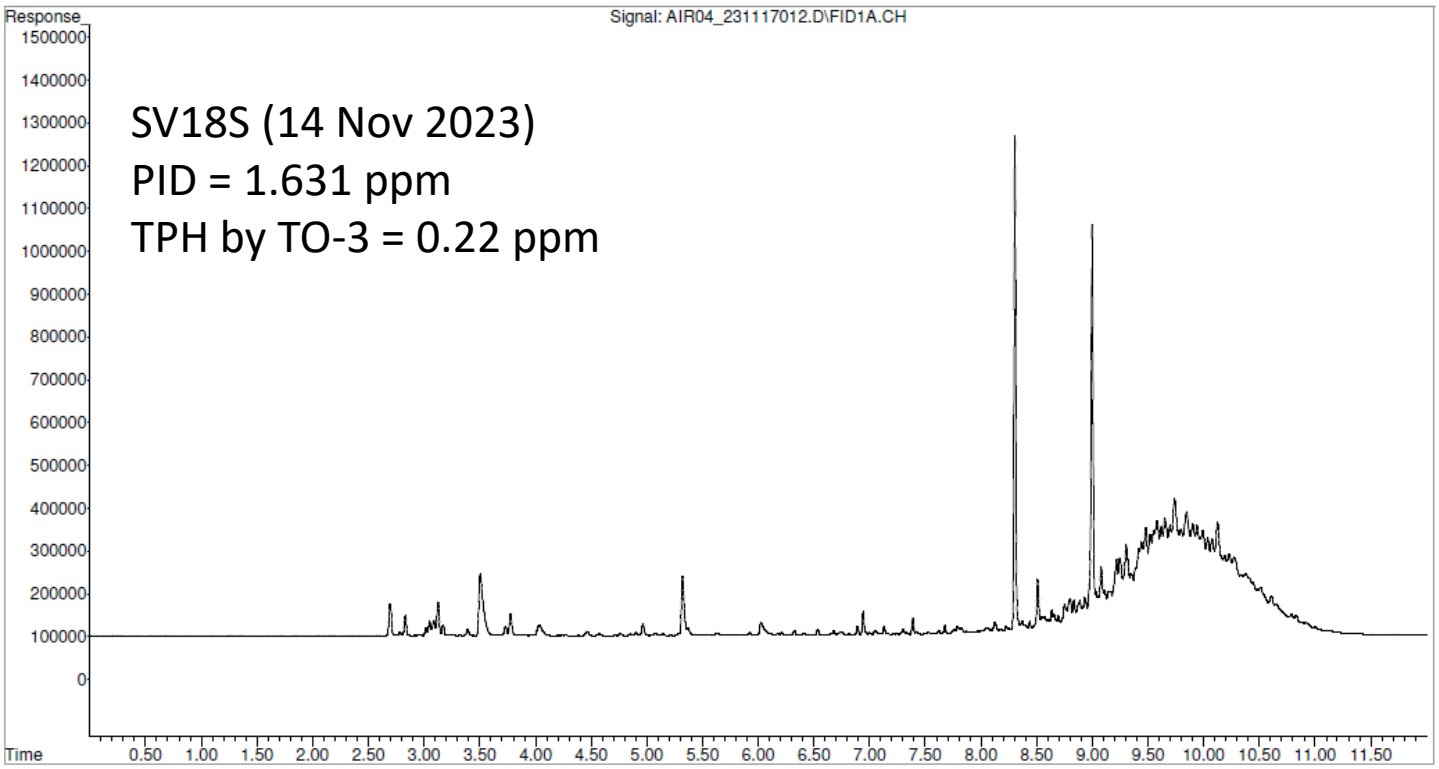
SV15D (14 Nov 2023)
PID = 0.316 ppm
TPH by TO-3 = 0.089 ppm



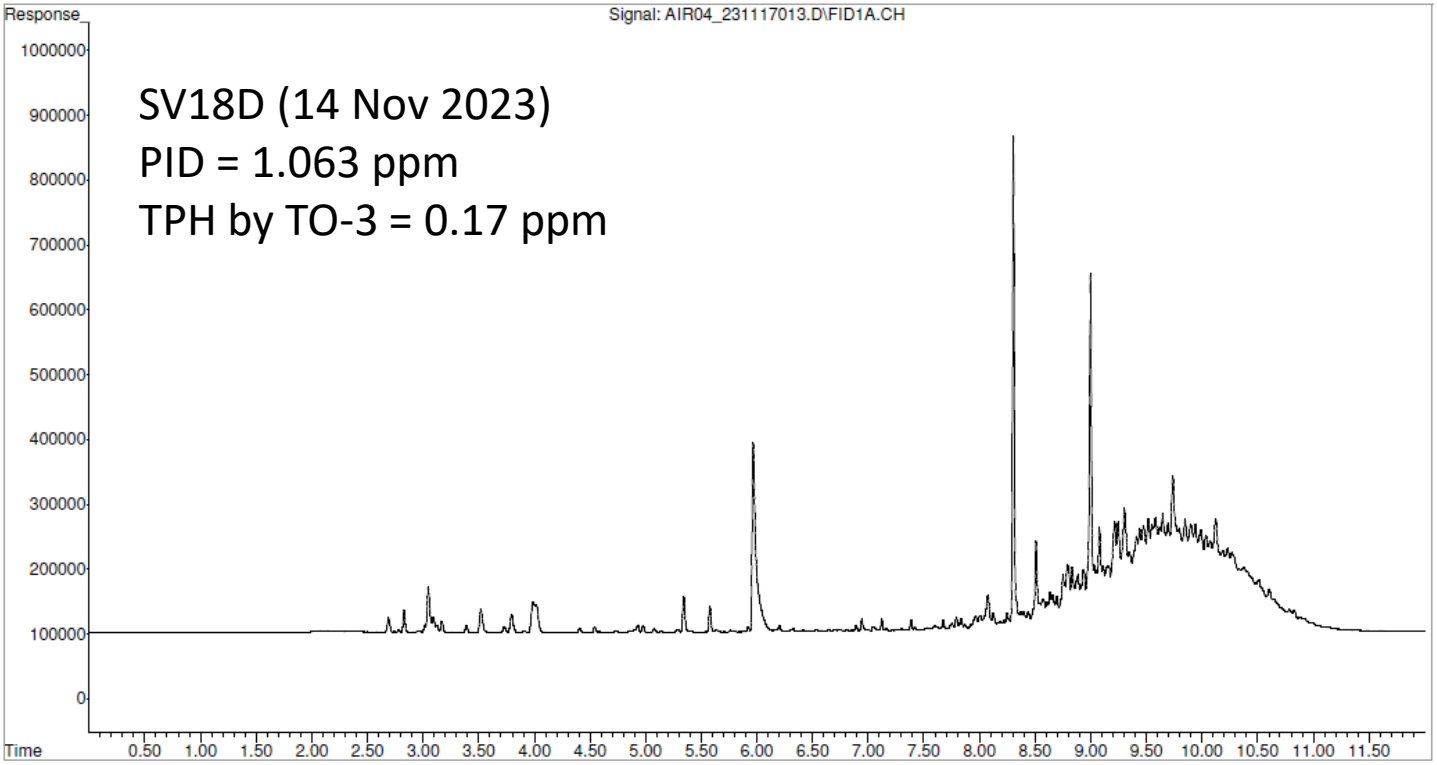
SV17S (14 Nov 2023)
PID = 0.379 ppm
TPH by TO-3 = 0.072 ppm

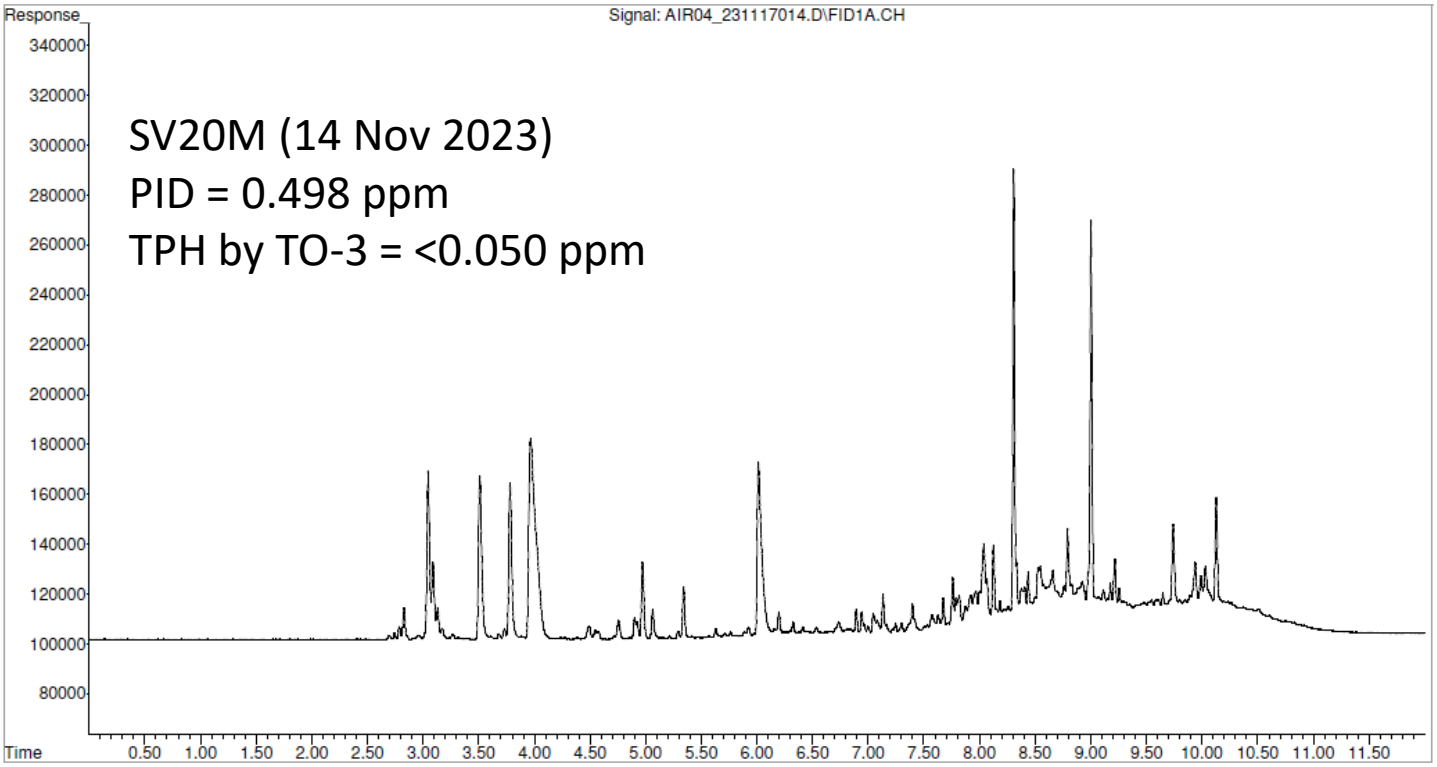


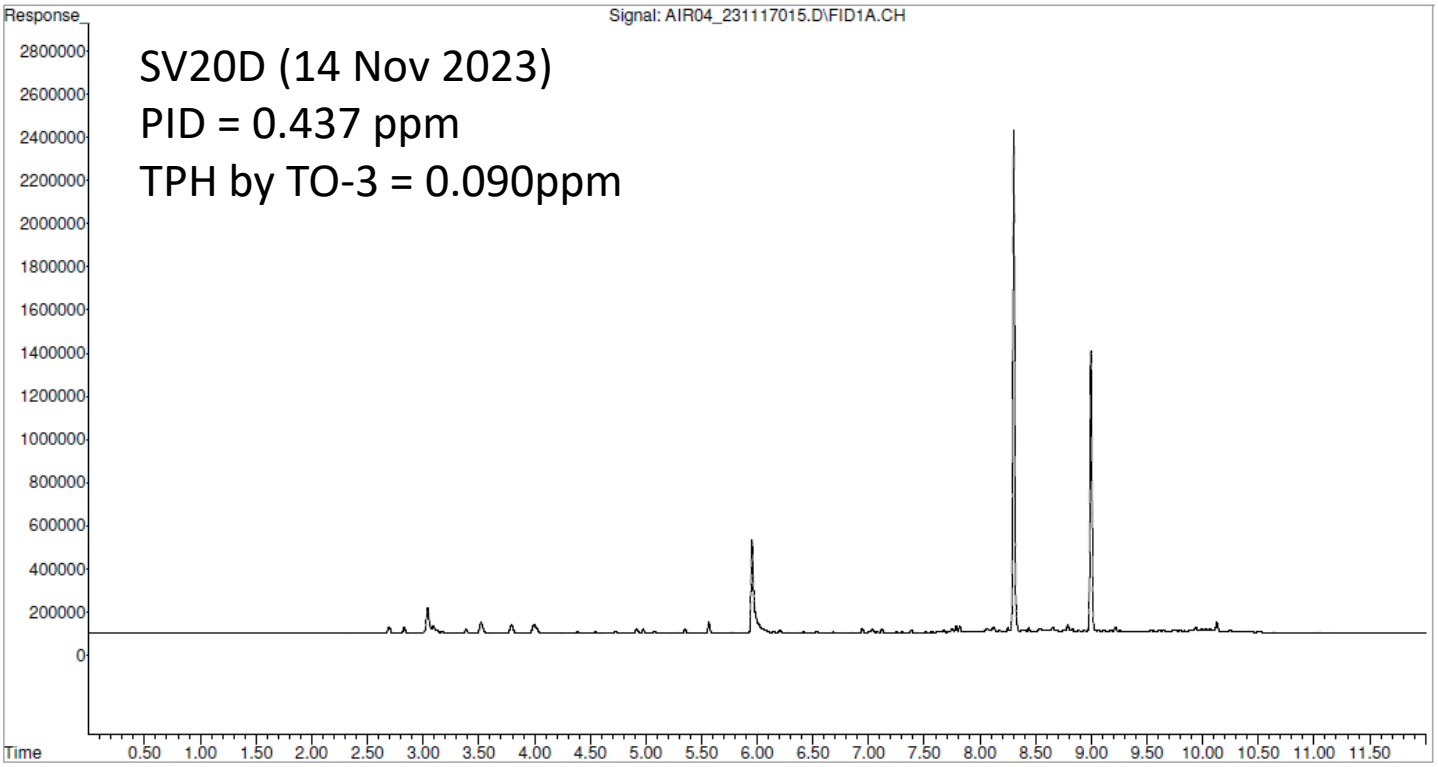
SV17D (14 Nov 2023)
PID = 0.412 ppm
TPH by TO-3 = <0.050 ppm



SV18S (14 Nov 2023)
PID = 1.631 ppm
TPH by TO-3 = 0.22 ppm

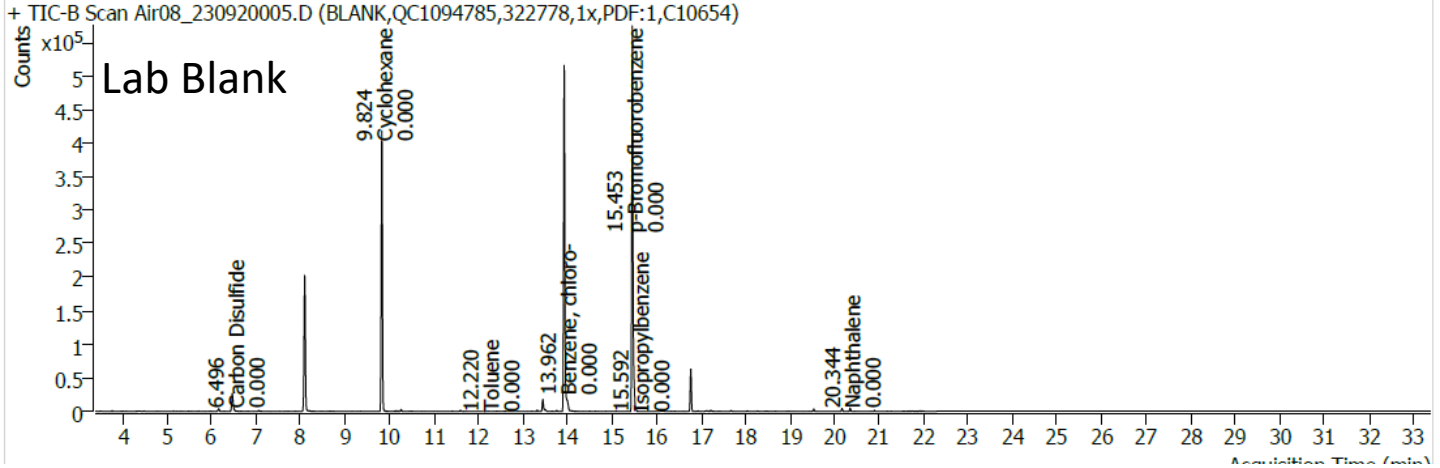

Response
Signal: AIR04_231117013.D\FID1A.CH
SV18D (14 Nov 2023)
PID = 1.063 ppm
TPH by TO-3 = 0.17 ppm
1000000
900000
800000
700000
600000
500000
400000
300000
200000
100000
0
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

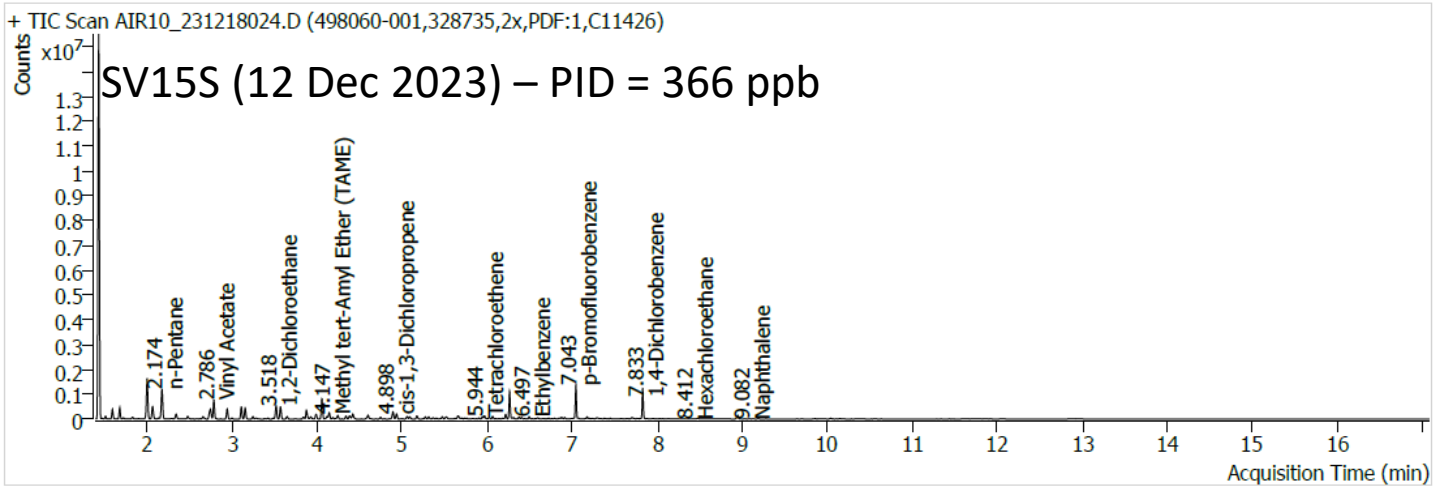

Response
Signal: AIR04_231117014.D\FID1A.CH
SV20M (14 Nov 2023)
PID = 0.498 ppm
TPH by TO-3 = <0.050 ppm
340000
320000
300000
280000
260000
240000
220000
200000
180000
160000
140000
120000
100000
80000
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

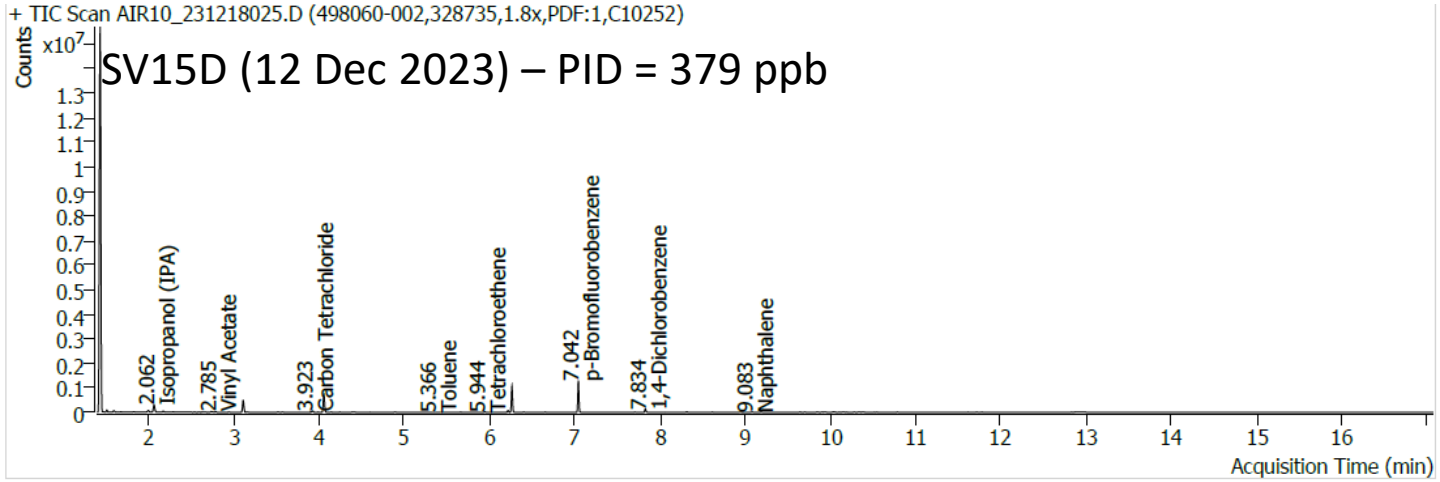

Response_
Signal: AIR04_231117015.D\FID1A.CH
SV20D (14 Nov 2023)
PID = 0.437 ppm
TPH by TO-3 = 0.090ppm
2800000
2600000
2400000
2200000
2000000
1800000
1600000
1400000
1200000
1000000
800000
600000
400000
200000
0
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

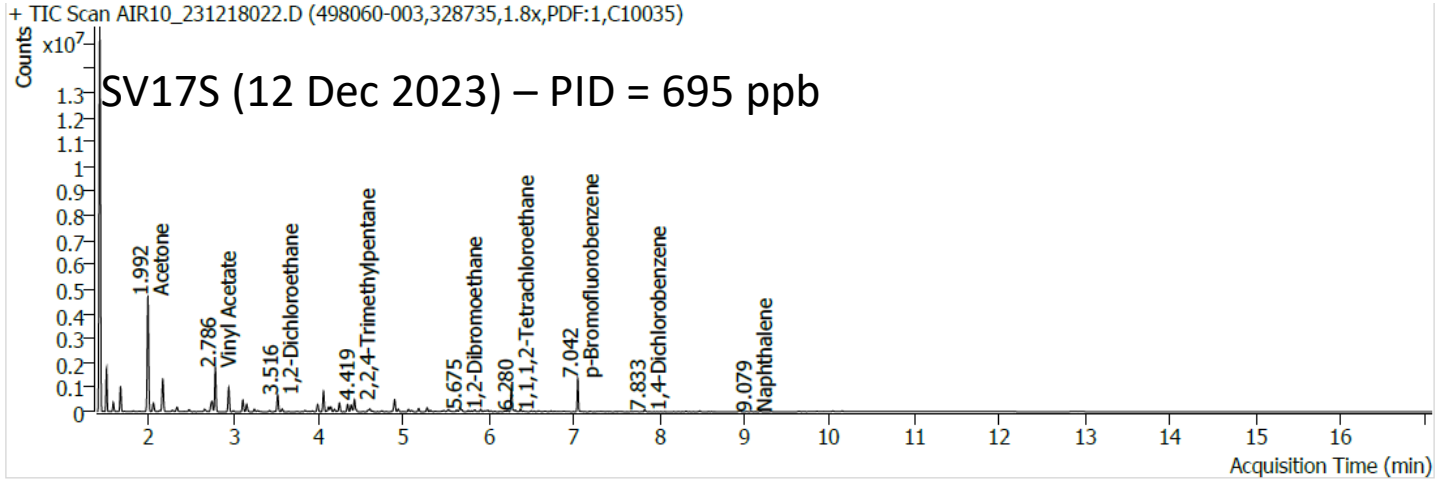
December 2023
Soil Vapor Samples

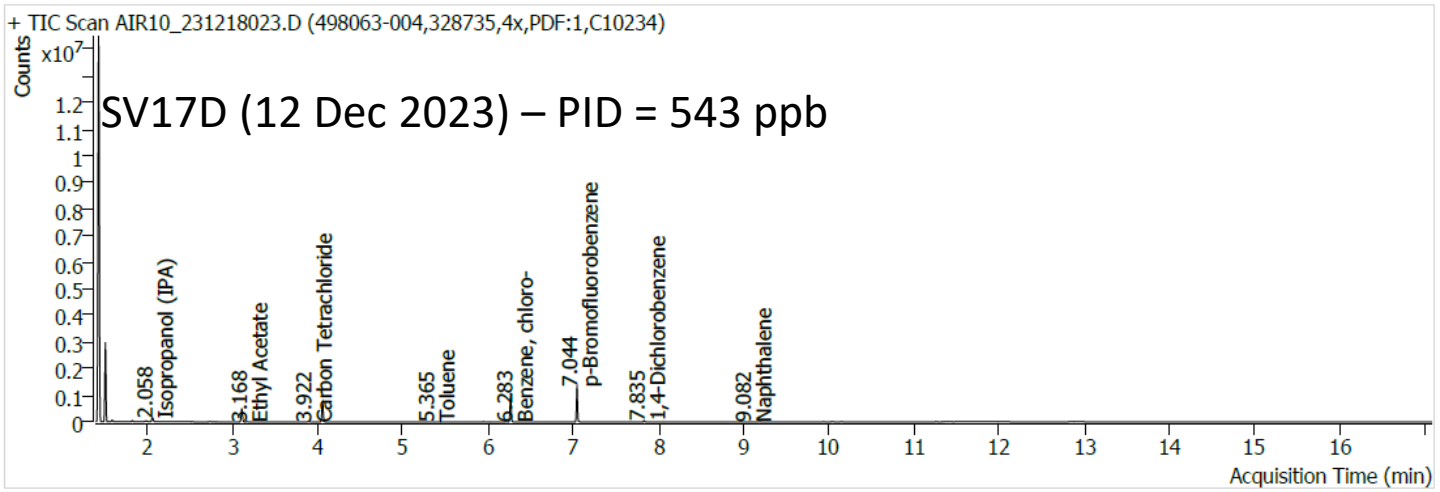
Mass Spec Chromatograms

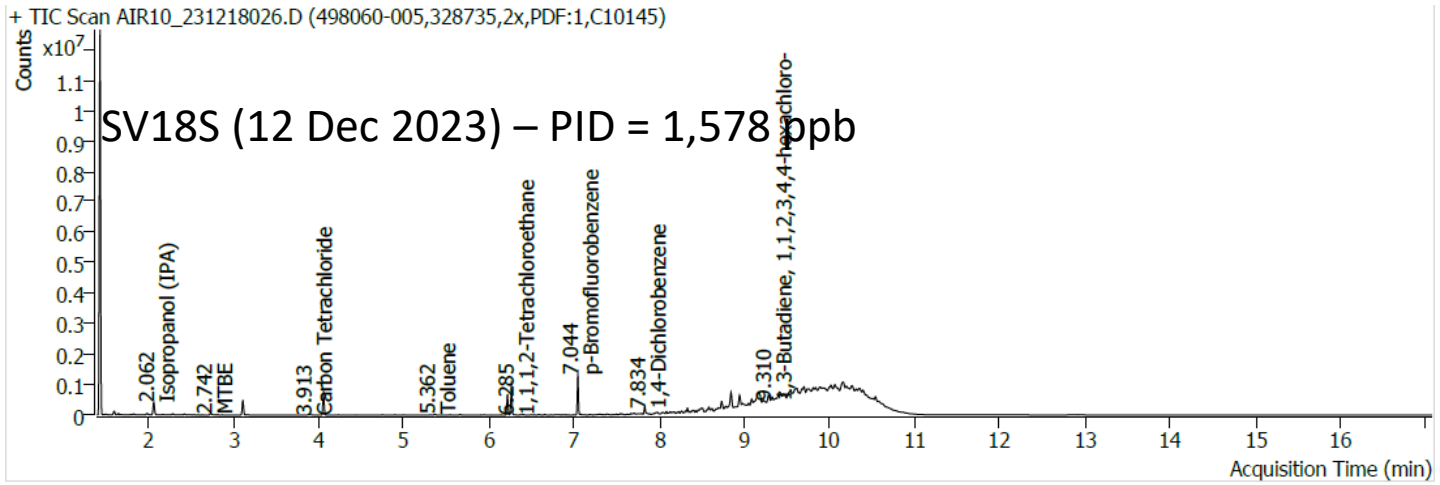

+ TIC-B Scan Air08_230920005.D (BLANK,QC1094785,322778,1x,PDF:1,C10654)
Lab Blank
Counts
x10^5
6.496 Carbon Disulfide 0.000
9.824 Cyclohexane 0.000
12.220 Toluene 0.000
13.962 Benzene, chloro- 0.000
15.453 p-Bromofluorobenzene 0.000
15.592 Isopropylbenzene 0.000
20.344 Naphthalene 0.000

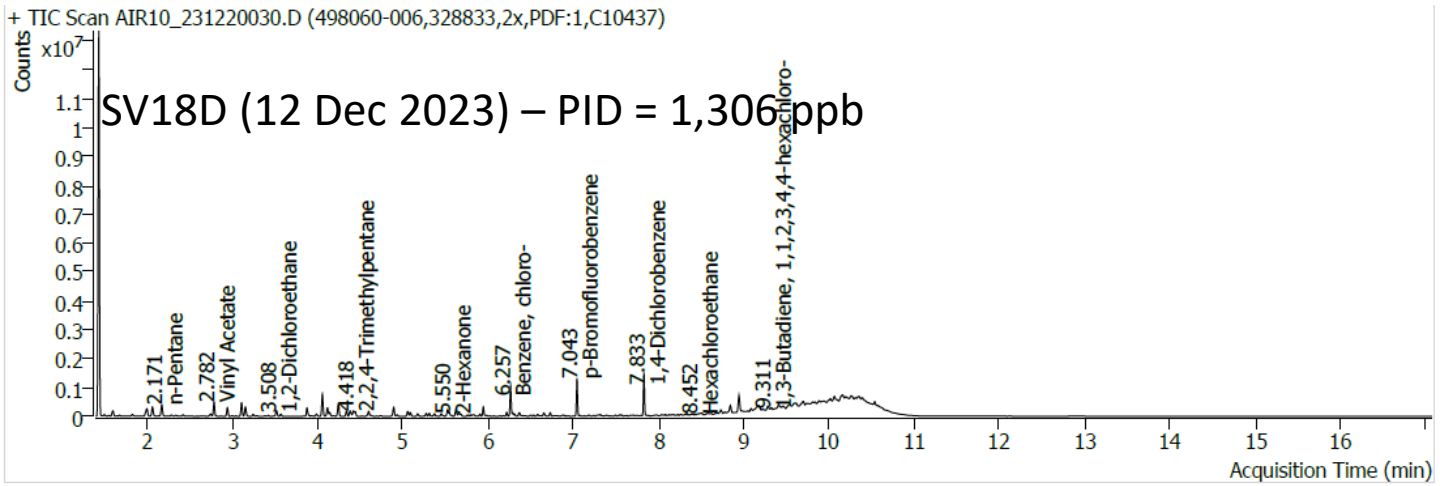

+ TIC Scan AIR10_231218024.D (498060-001,328735,2x,PDF:1,C11426)
SV15S (12 Dec 2023) – PID = 366 ppb
Counts
x10^7
2.174 n-Pentane
2.786 Vinyl Acetate
3.518 1,2-Dichloroethane
4.147 Methyl tert-Amyl Ether (TAME)
4.898 cis-1,3-Dichloropropene
5.944 Tetrachloroethene
6.497 Ethylbenzene
7.043 p-Bromofluorobenzene
7.833 1,4-Dichlorobenzene
8.412 Hexachloroethane
9.082 Naphthalene
Acquisition Time (min)

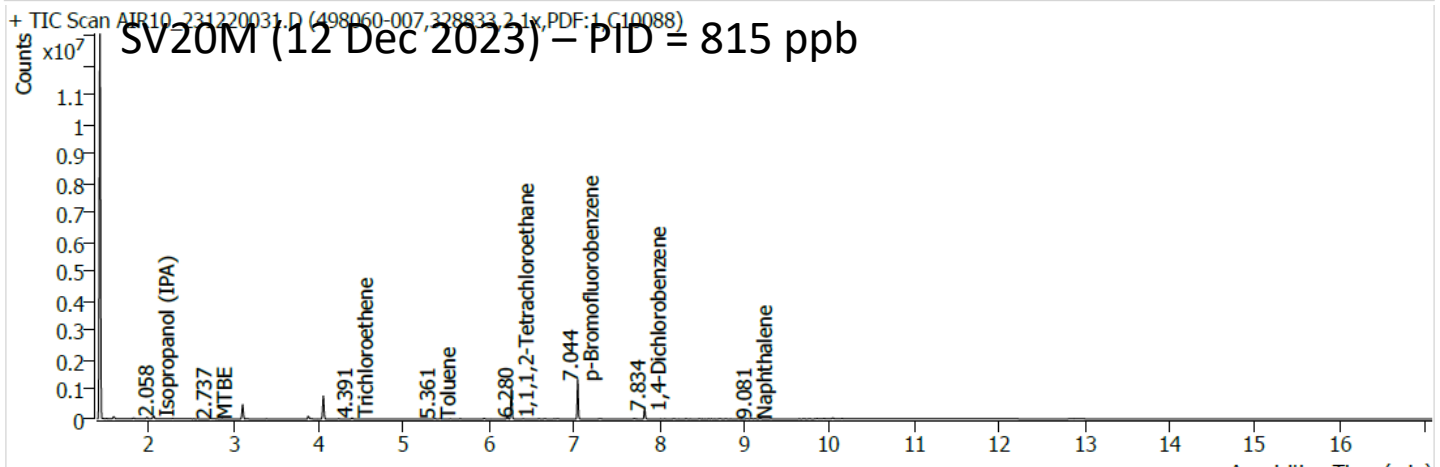

+ TIC Scan AIR10_231218025.D (498060-002,328735,1.8x,PDF:1,C10252)
SV15D (12 Dec 2023) – PID = 379 ppb
Counts
x10^7
2.062 Isopropanol (IPA)
2.785 Vinyl Acetate
3.923 Carbon Tetrachloride
5.366 Toluene
5.944 Tetrachloroethene
7.042 p-Bromofluorobenzene
7.834 1,4-Dichlorobenzene
9.083 Naphthalene
Acquisition Time (min)

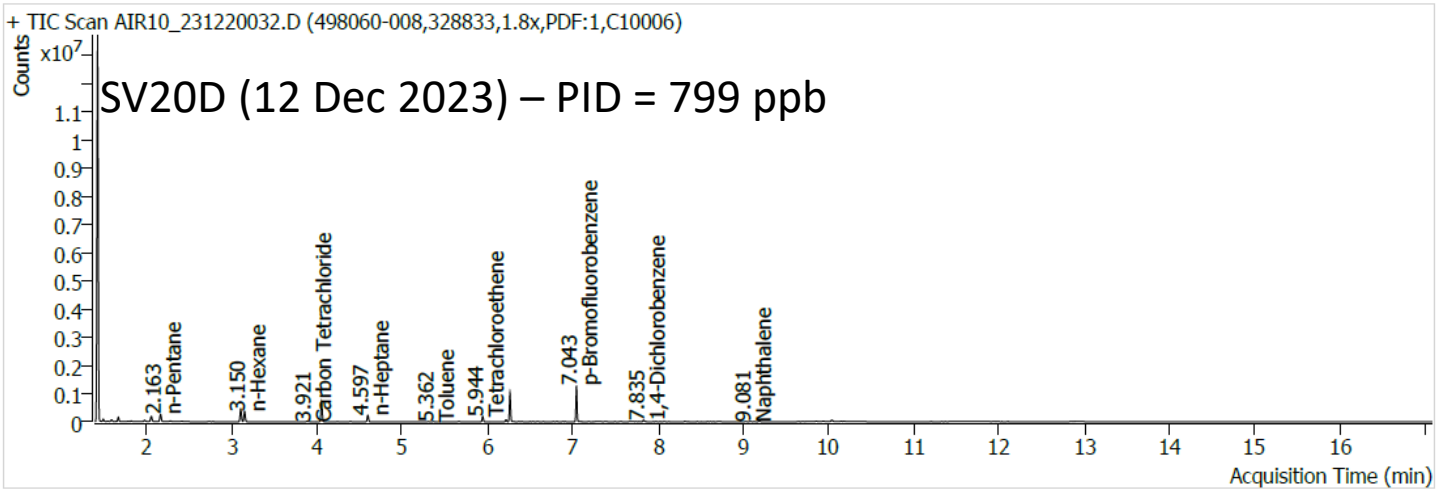

+ TIC Scan AIR10_231218022.D (498060-003,328735,1.8x,PDF:1,C10035)
SV17S (12 Dec 2023) – PID = 695 ppb
Counts
x10^7
1.992 Acetone
2.786 Vinyl Acetate
3.516 1,2-Dichloroethane
4.419 2,2,4-Trimethylpentane
5.675 1,2-Dibromoethane
6.280 1,1,1,2-Tetrachloroethane
7.042 p-Bromofluorobenzene
7.833 1,4-Dichlorobenzene
9.079 Naphthalene
Acquisition Time (min)


+ TIC Scan AIR10_231218023.D (498063-004,328735,4x,PDF:1,C10234)
Counts
x10^7
SV17D (12 Dec 2023) – PID = 543 ppb
2.058 Isopropanol (IPA)
3.168 Ethyl Acetate
3.922 Carbon Tetrachloride
5.365 Toluene
6.283 Benzene, chloro-
7.044 p-Bromofluorobenzene
7.835 1,4-Dichlorobenzene
9.082 Naphthalene
Acquisition Time (min)


+ TIC Scan AIR10_231218026.D (498060-005,328735,2x,PDF:1,C10145)
Counts
x10^7
SV18S (12 Dec 2023) – PID = 1,578 ppb
2.062 Isopropanol (IPA)
2.742 MTBE
3.913 Carbon Tetrachloride
5.362 Toluene
6.285 1,1,1,2-Tetrachloroethane
7.044 p-Bromofluorobenzene
7.834 1,4-Dichlorobenzene
9.310 1,3-Butadiene, 1,1,2,3,4,4-hexachloro-
Acquisition Time (min)

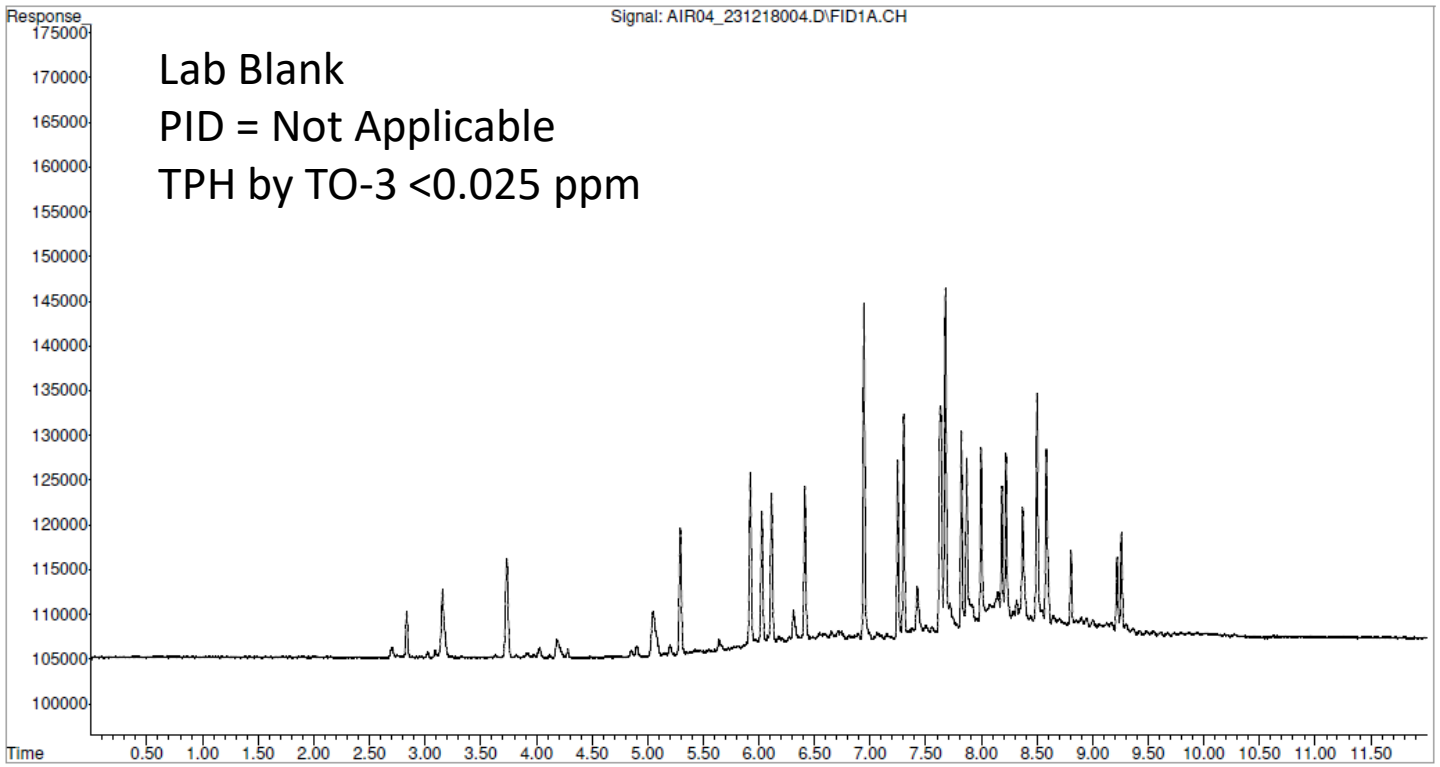

+ TIC Scan AIR10_231220030.D (498060-006,328833,2x,PDF:1,C10437)
Counts
x10^7
SV18D (12 Dec 2023) – PID = 1,306 ppb
2.171 n-Pentane
2.782 Vinyl Acetate
3.508 1,2-Dichloroethane
4.418 2,2,4-Trimethylpentane
5.550 2-Hexanone
6.257 Benzene, chloro-
7.043 p-Bromofluorobenzene
7.833 1,4-Dichlorobenzene
8.452 Hexachloroethane
9.311 1,3-Butadiene, 1,1,2,3,4,4-hexachloro-
Acquisition Time (min)

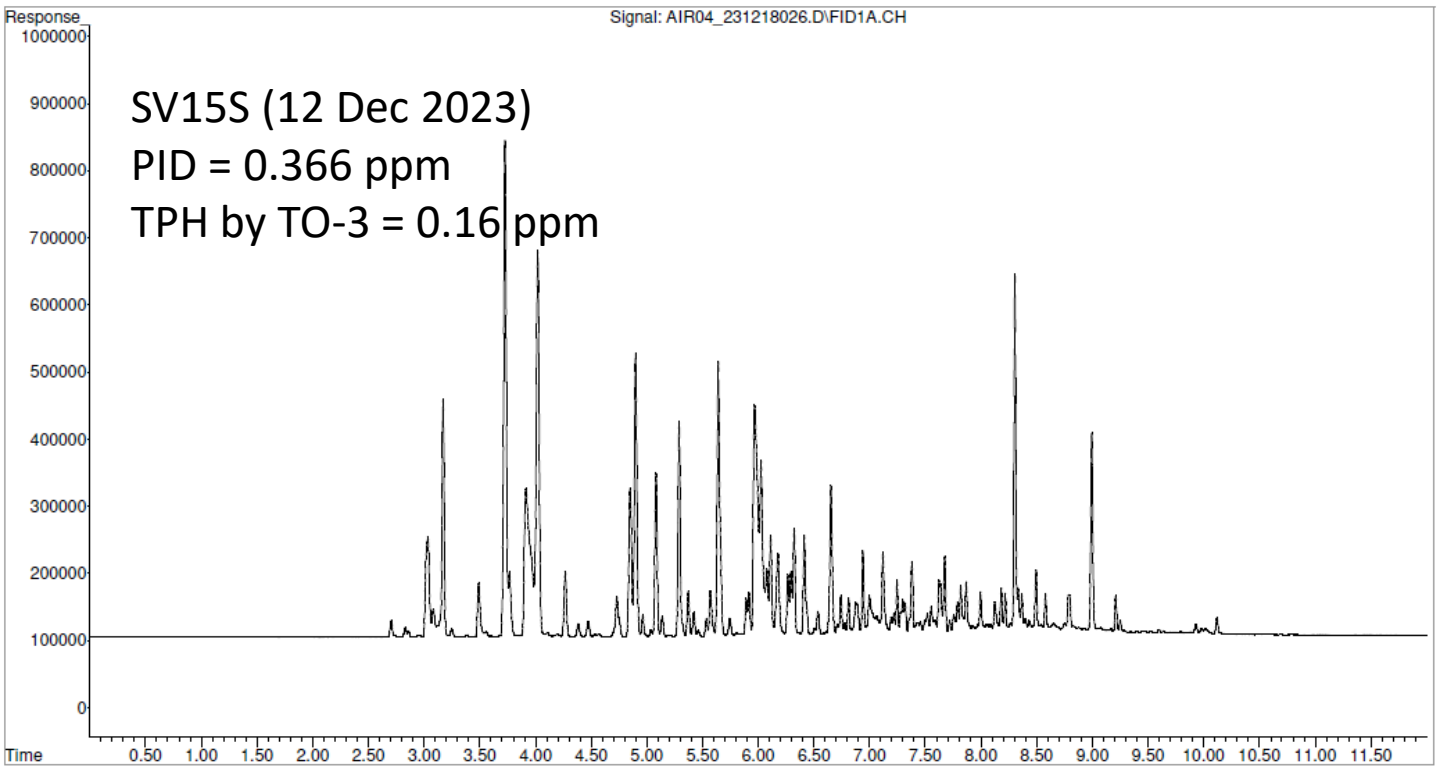

+ TIC Scan AIR10_231220031.D (498060-007,328833,2.1x,PDF:1,C10088)
Counts
x10^7
SV20M (12 Dec 2023) – PID = 815 ppb
2.058 Isopropanol (IPA)
2.737 MTBE
4.391 Trichloroethene
5.361 Toluene
6.280 1,1,1,2-Tetrachloroethane
7.044 p-Bromofluorobenzene
7.834 1,4-Dichlorobenzene
9.081 Naphthalene

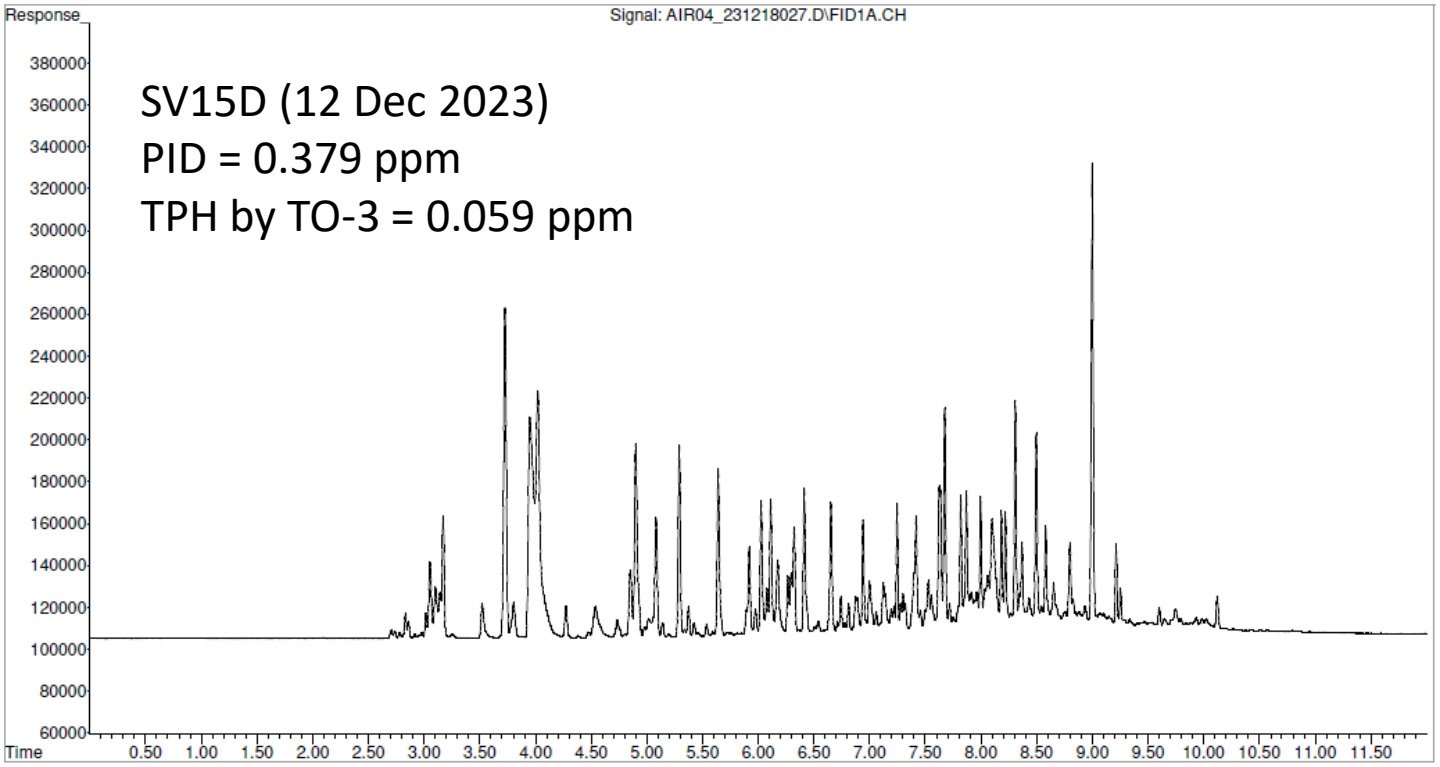

+ TIC Scan AIR10_231220032.D (498060-008,328833,1.8x,PDF:1,C10006)
Counts
x10^7
SV20D (12 Dec 2023) – PID = 799 ppb
2.163 n-Pentane
3.150 n-Hexane
3.921 Carbon Tetrachloride
4.597 n-Heptane
5.362 Toluene
5.944 Tetrachloroethene
7.043 p-Bromofluorobenzene
7.835 1,4-Dichlorobenzene
9.081 Naphthalene
Acquisition Time (min)

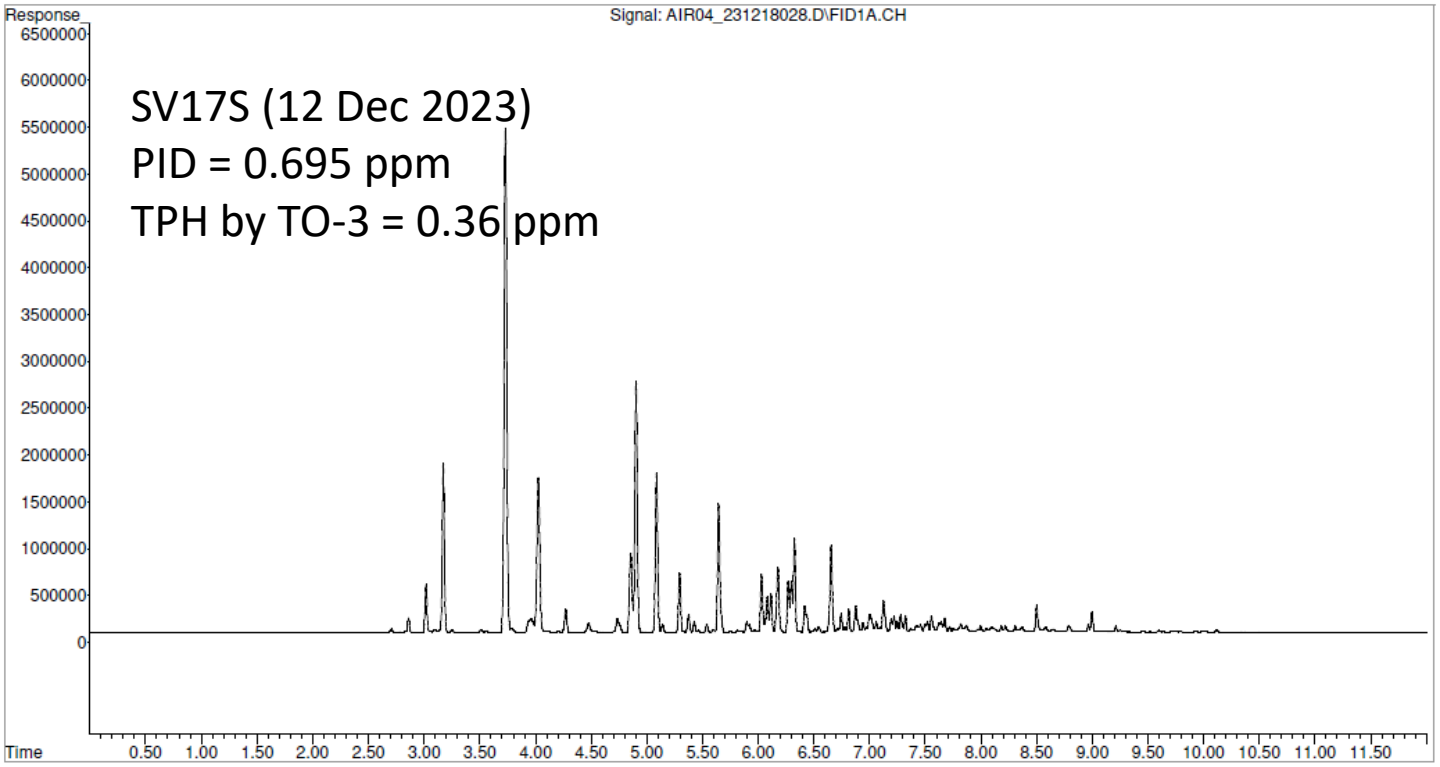
December 2023
Soil Vapor Samples

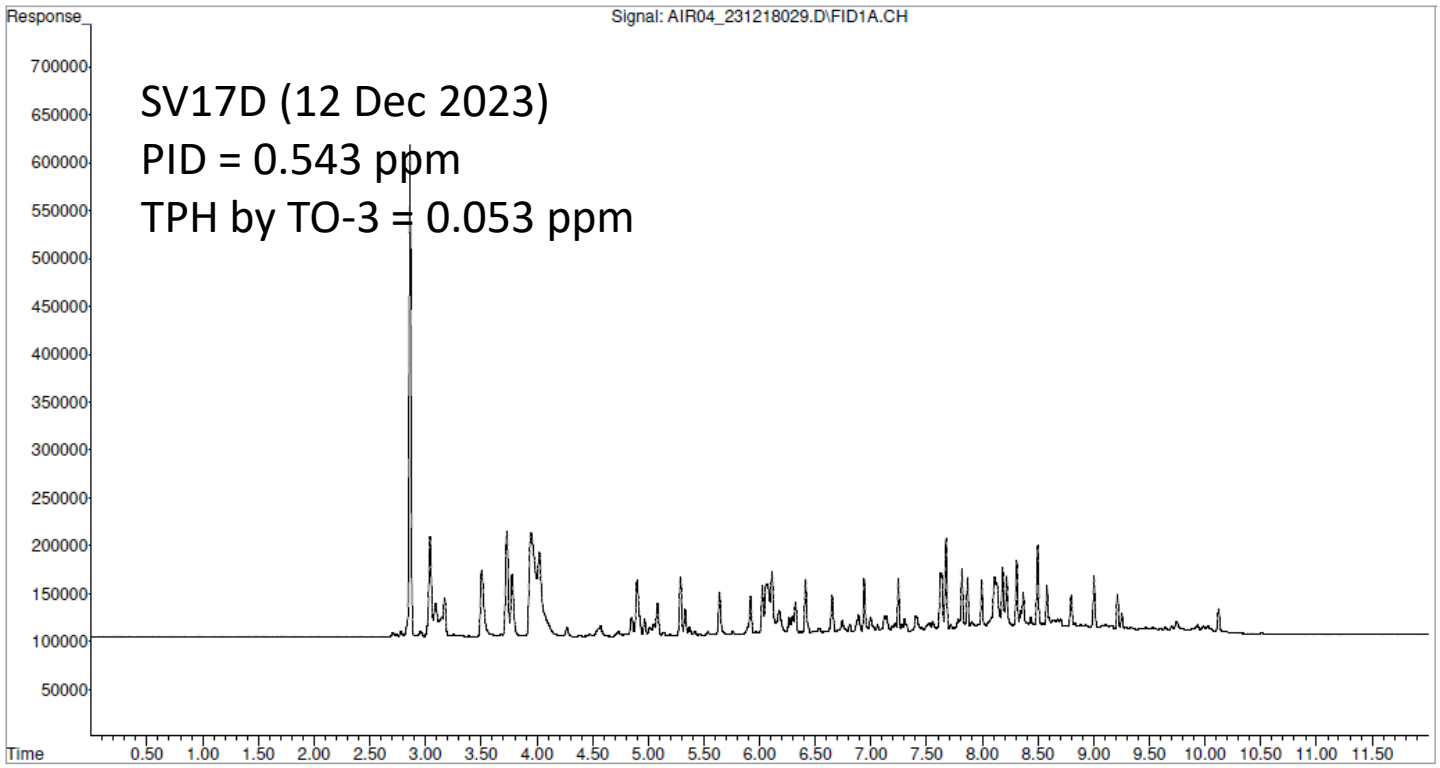
FID Chromatograms

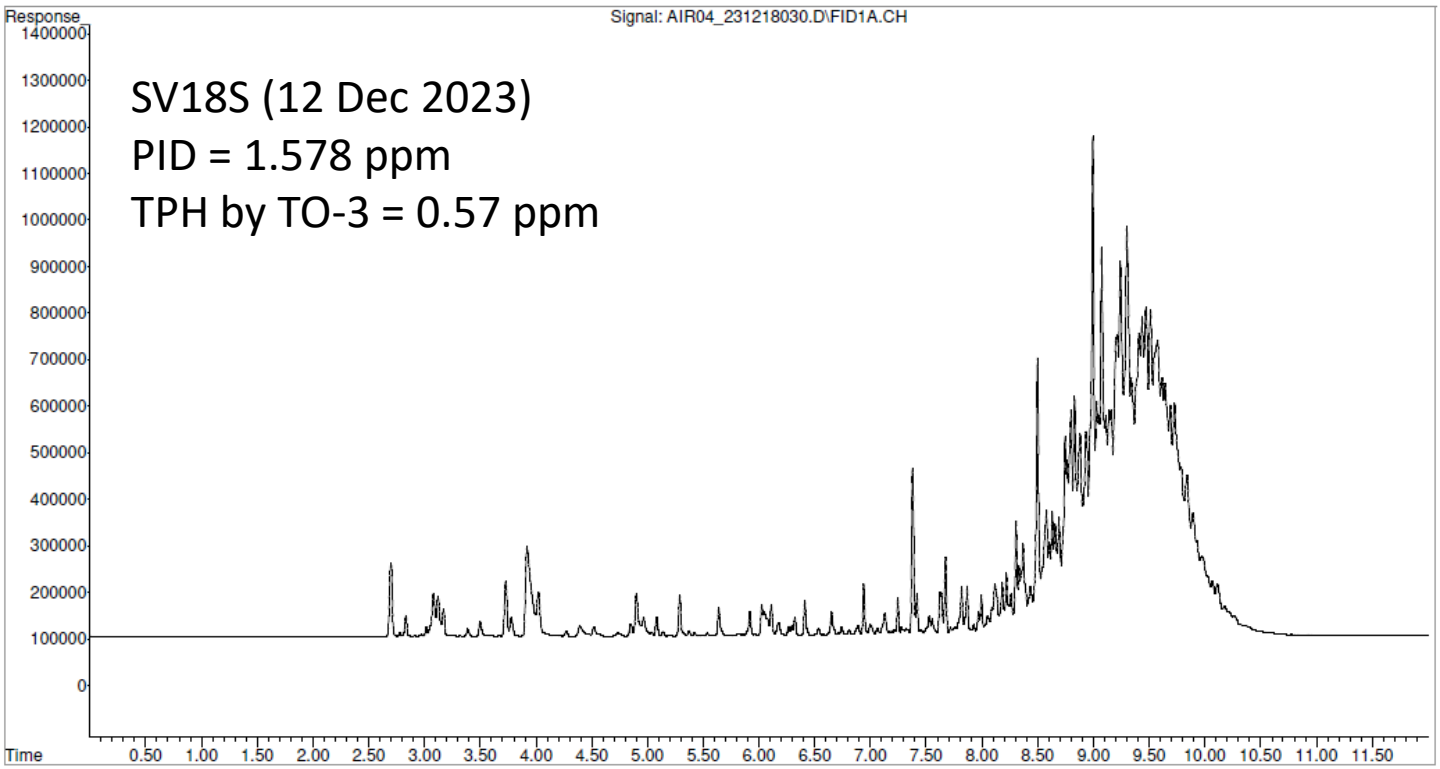

Response
Signal: AIR04_231218004.D\FID1A.CH
Lab Blank
PID = Not Applicable
TPH by TO-3 <0.025 ppm
175000
170000
165000
160000
155000
150000
145000
140000
135000
130000
125000
120000
115000
110000
105000
100000
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

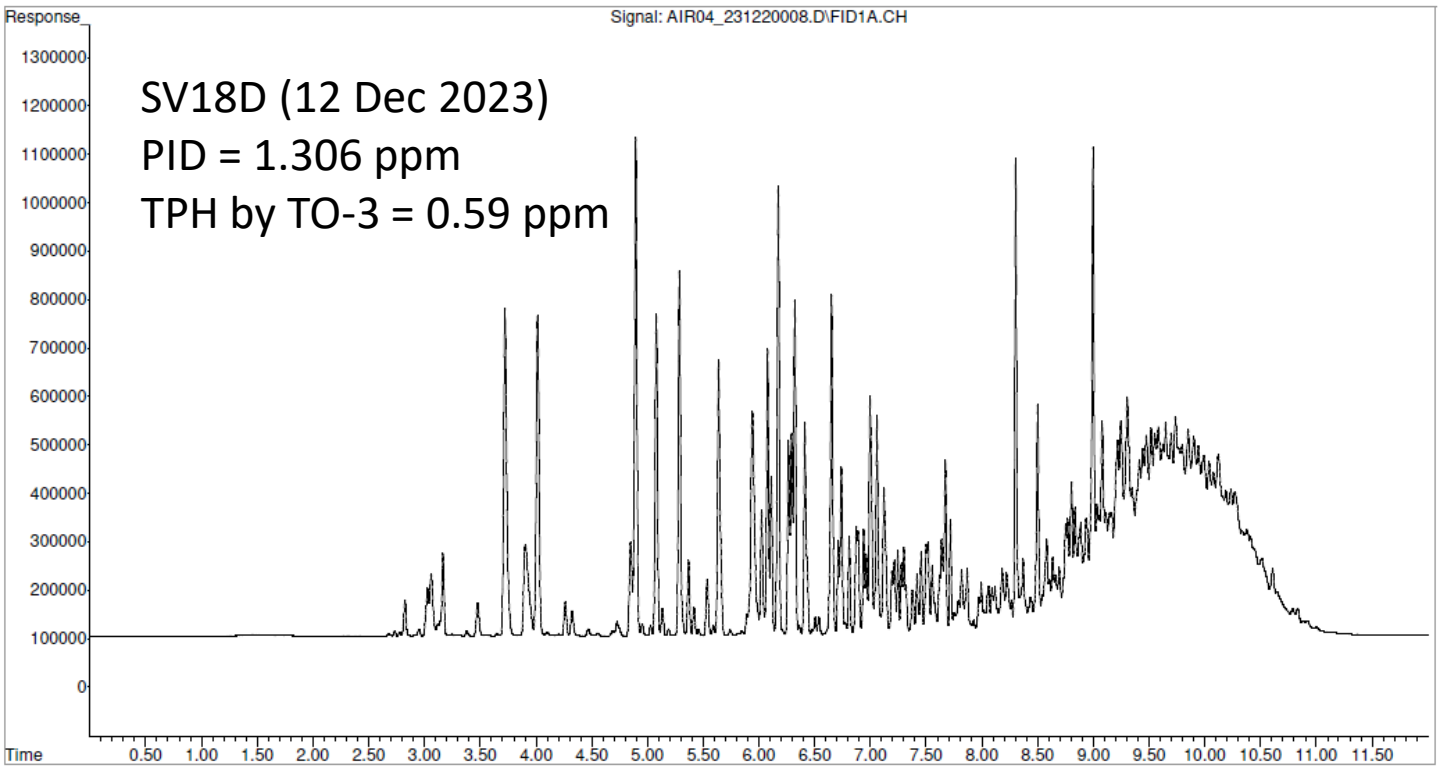

Response
Signal: AIR04_231218026.D\FID1A.CH
SV15S (12 Dec 2023)
PID = 0.366 ppm
TPH by TO-3 = 0.16 ppm
1000000
900000
800000
700000
600000
500000
400000
300000
200000
100000
0
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

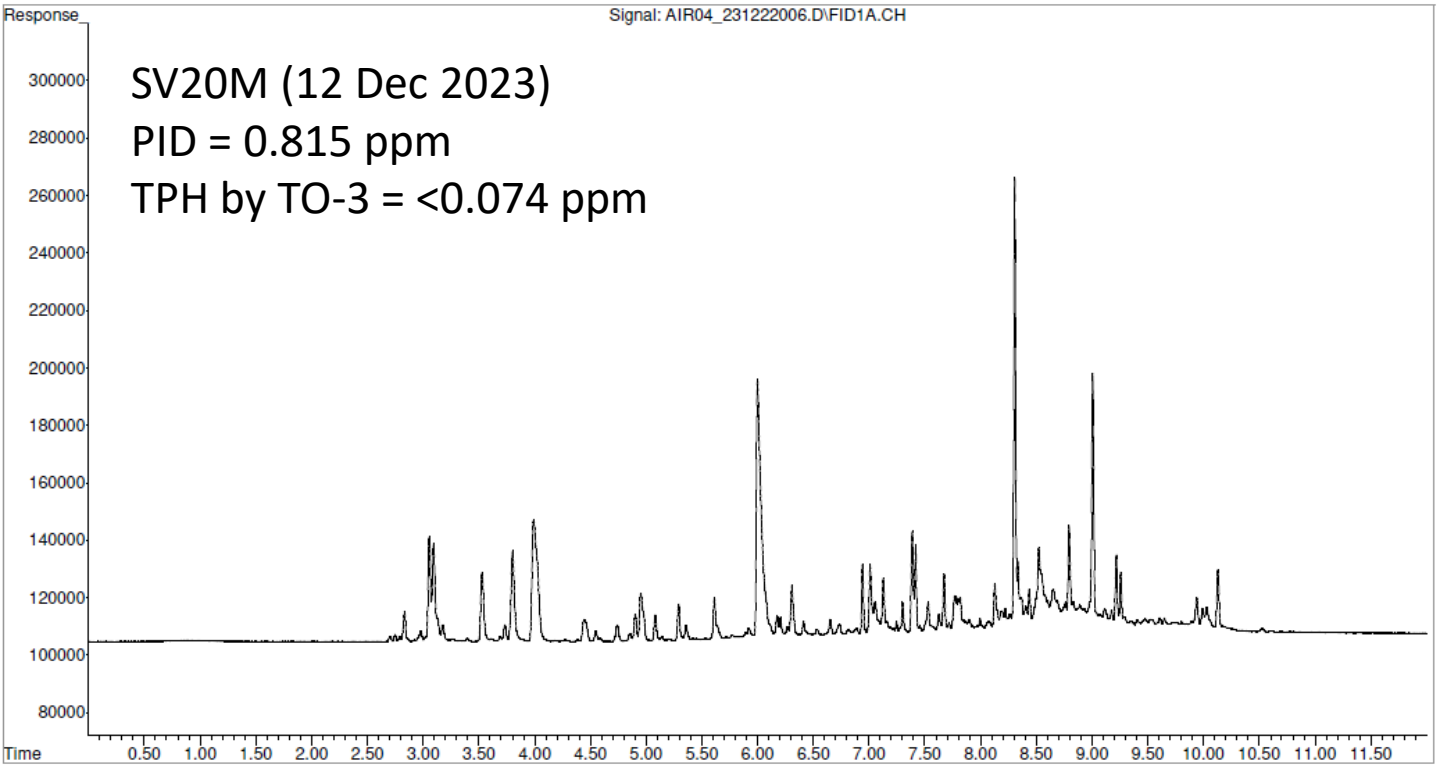

Response_
Signal: AIR04_231218027.D\FID1A.CH
SV15D (12 Dec 2023)
PID = 0.379 ppm
TPH by TO-3 = 0.059 ppm
380000
360000
340000
320000
300000
280000
260000
240000
220000
200000
180000
160000
140000
120000
100000
80000
60000
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

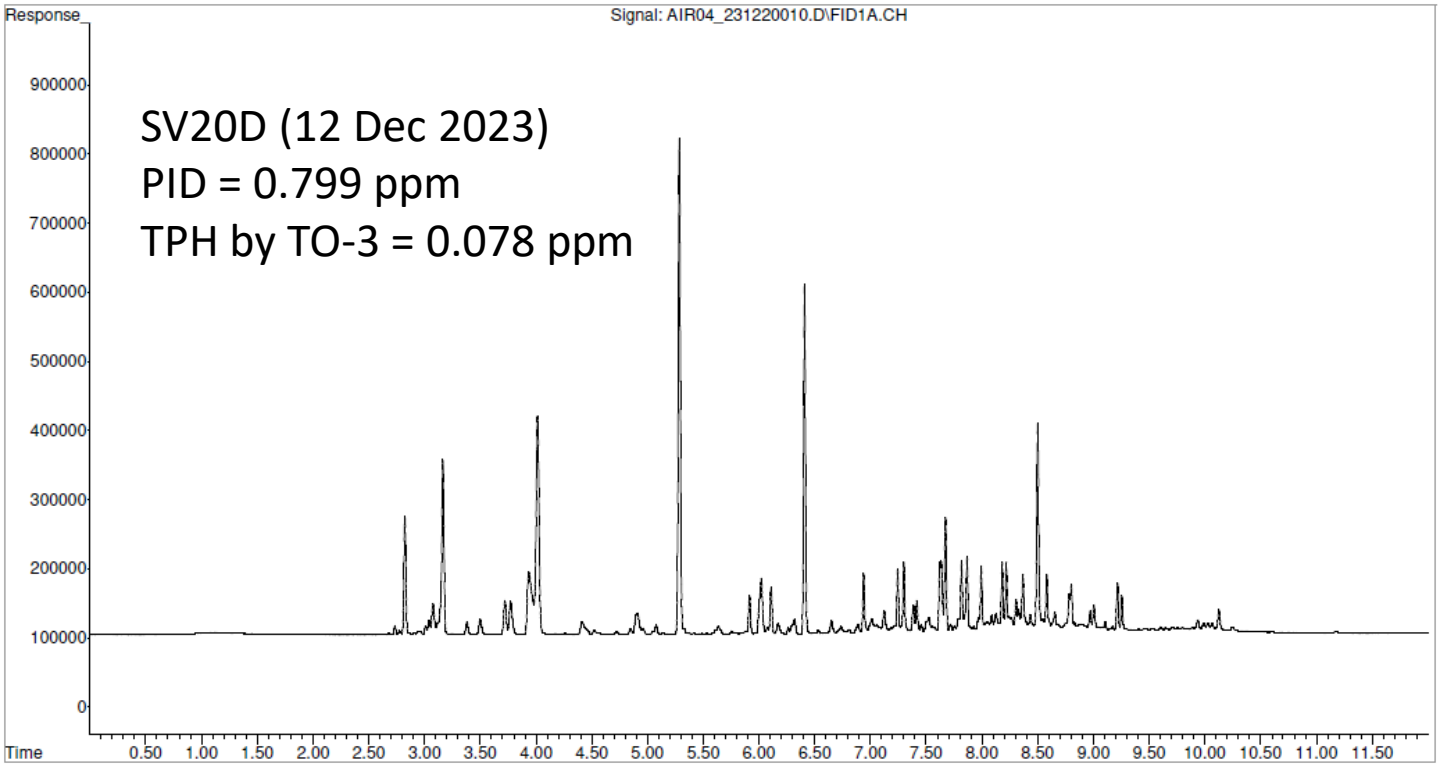

Response_
Signal: AIR04_231218028.D\FID1A.CH
SV17S (12 Dec 2023)
PID = 0.695 ppm
TPH by TO-3 = 0.36 ppm
6500000
6000000
5500000
5000000
4500000
4000000
3500000
3000000
2500000
2000000
1500000
1000000
500000
0
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50


Response_
Signal: AIR04_231218029.D\FID1A.CH
SV17D (12 Dec 2023)
PID = 0.543 ppm
TPH by TO-3 = 0.053 ppm
700000
650000
600000
550000
500000
450000
400000
350000
300000
250000
200000
150000
100000
50000
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50


Response_
Signal: AIR04_231218030.D\FID1A.CH
SV18S (12 Dec 2023)
PID = 1.578 ppm
TPH by TO-3 = 0.57 ppm
1400000
1300000
1200000
1100000
1000000
900000
800000
700000
600000
500000
400000
300000
200000
100000
0
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50


Response_
Signal: AIR04_231220008.D\FID1A.CH
SV18D (12 Dec 2023)
PID = 1.306 ppm
TPH by TO-3 = 0.59 ppm
1300000
1200000
1100000
1000000
900000
800000
700000
600000
500000
400000
300000
200000
100000
0
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50


Response_
Signal: AIR04_231222006.D\FID1A.CH
SV20M (12 Dec 2023)
PID = 0.815 ppm
TPH by TO-3 = <0.074 ppm
300000
280000
260000
240000
220000
200000
180000
160000
140000
120000
100000
80000
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50


Response_
Signal: AIR04_231220010.D\FID1A.CH
SV20D (12 Dec 2023)
PID = 0.799 ppm
TPH by TO-3 = 0.078 ppm
900000
800000
700000
600000
500000
400000
300000
200000
100000
0
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

Appendix A.3 – Defueling PID Results

App. A.3 – RHS Tank Soil Vapor Monitoring
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Weekly Tank Soil Vapor Monitoring

Notes:

Soil vapor concentration readings are reported in parts per billion by volume (ppbv).

Tank readings are background ambient air conditions.

AOC Results exceeding the limit are highlighted in blue.

GWPP Results exceeding the limit are highlighted in green.

GWPP Screening Levels applicable for data collection after 10/16/2023: 50,000 ppbv for SVMPs 01-12, 17-20; 8,000 ppbv for SVMP 13-16.

Soil vapor readings on October 24, 2023 were collected only from SVMP-02 through SVMP-11; readings from SVMP-12 through SVMP-20 were collected on October 26,

[1] - SVMP-10M/D, SVMP-11M/D - "M/D" monitoring points were constructed to screen both middle & deep depth intervals along the respective underground storage tank.

Legend:

AOC - Administrative Order on Consent

GWPP - Groundwater Protection Plan

NC - Not collected

NC1 - Not collected due to tank maintenance

NC2 - Not collected due to obstruction in vapor line

ppbv - parts per billion by volume

ppmv - parts per million by volume

SVMP - soil vapor monitoring point

App. A.3 – RHS Tank Soil Vapor Monitoring
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Weekly Tank Soil Vapor Monitoring

Average Soil Vapor Concentration (ppbv)

Date	SVMP-02D	SVMP-02M	SVMP-02S	SVMP-03D	SVMP-03M	SVMP-03S	SVMP-04D	SVMP-04M	SVMP-04S	SVMP-05D	SVMP-05M	SVMP-05S	SVMP-06M	SVMP-06S	SVMP-07D	SVMP-07M	SVMP-07S
GWPP Action Limits	50000	50000	50000	50000	50000	50000	50000	50000	50000	50000	50000	50000	50000	50000	50000	50000	50000
1/23/2024	0	0	9	122	155	115	80	54	82	1071	3217	1947	1204	4255	251	362	301
1/19/2024	16	19	0	148	144	142	131	129	108	443	488	2638	1083	5738	524	273	396
1/16/2024	0	0	0	5	0	0	10	0	0	174	625	2071	809	4567	248	151	174
1/12/2024	20	33	38	170	251	194	328	293	172	650	1086	2102	1233	3485	539	418	410
1/9/2024	275	209	188	229	217	201	220	190	174	464	709	1861	439	4729	463	350	343
1/5/2024	18	20	0	0	25	0	0	0	0	218	545	1272	162	2217	231	172	95
1/2/2024	0	0	0	0	0	0	9	0	0	348	660	1836	220	4062	93	0	29
12/29/2023	1062	2284	1534	432	277	297	771	248	439	1044	1445	2410	1368	7743	974	631	709
12/26/2023	31	4	0	131	76	58	46	92	10	730	1217	2148	509	7305	596	431	325
12/22/2023	918	616	977	354	869	605	364	372	415	802	1064	1374	1159	6455	571	372	347
12/19/2023	862	890	743	725	562	497	471	491	584	864	1333	1850	972	6364	697	637	535
12/15/2023	1492	2141	1150	936	608	178	207	234	285	881	1029	1193	1136	5686	564	427	453
12/12/2023	413	577	285	295	309	230	188	176	299	701	3393	1610	549	4753	365	356	337
12/8/2023	238	266	163	249	399	152	174	202	229	745	950	1404	1877	5562	415	457	350
12/5/2023	1941	2395	1586	891	686	609	422	476	690	777	916	1321	2049	5301	393	547	371
12/1/2023	0	0	0	0	0	0	0	0	0	0	300	833	0	3633	0	0	0
11/28/2023	319	244	235	609	530	475	570	564	540	922	883	1243	1241	2472	898	839	811
11/24/2023	692	1082	584	396	647	577	241	318	305	1629	3539	2060	1284	6137	689	624	428
11/21/2023	779	1027	459	426	434	281	232	203	119	1099	1696	1005	1250	7006	551	494	384
11/17/2023	96	205	233	182	195	186	207	161	139	683	2762	2033	672	7060	598	542	556
11/14/2023	54	29	15	150	229	221	141	142	159	585	952	1527	1048	6107	581	326	314
11/10/2023	88	59	45	172	175	108	118	114	116	421	1895	1839	1649	6671	517	386	328
11/7/2023	0	0	0	61	149	0	43	31	38	779	359	760	780	4765	225	203	143
11/3/2023	68	71	81	129	96	77	211	188	192	431	826	1175	829	6445	471	372	330
10/31/2023	71	75	300	139	129	41	130	103	115	61	253	119	56	115	271	302	237
10/27/2023	0	0	0	166	0	0	33	3	2	362	3023	619	550	5567	278	184	190
10/26/2023	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
10/24/2023	0	0	0	13	0	0	127	152	0	423	983	853	4241	4006	340	252	236
10/20/2023	92	102	172	140	101	81	143	113	94	327	1099	904	992	5159	361	451	284
10/17/2023	72	60	59	101	110	62	110	77	80	213	1013	912	712	4806	379	245	252

SVMP-08D	SVMP-08M	SVMP-08S	SVMP-09D	SVMP-09M	SVMP-09S	SVMP-10M-D[1]	SVMP-10S	SVMP-11M-D[1]	SVMP-11S	SVMP-12D	SVMP-12M	SVMP-12S	SVMP-13D	SVMP-13M	SVMP-13S	SVMP-14D	SVMP-14M	SVMP-14S
50000	50000	50000	50000	50000	50000	50000	50000	50000	50000	50000	50000	50000	8000	8000	8000	8000	8000	8000
261	199	168	296	415	284	269	236	177	204	254	233	231	181	171	151	231	214	202
233	178	190	190	205	161	302	279	NC1	NC1	NC1	NC1	NC1	460	407	239	479	511	432
376	286	180	576	223	175	176	200	183	216	191	191	232	296	236	257	235	254	250
390	378	350	358	346	336	354	341	391	355	426	430	453	540	385	397	557	551	529
377	321	293	307	280	272	306	287	275	249	289	277	251	420	350	372	377	352	341
155	124	106	125	112	88	100	91	197	178	234	239	258	228	212	232	302	323	298
0	0	0	91	0	0	29	47	0	0	0	10	24	96	94	101	120	78	60
302	285	261	434	480	304	233	333	446	442	422	383	347	584	506	487	628	566	449
341	329	294	276	285	267	265	255	346	334	316	326	328	510	423	405	506	448	406
272	387	332	295	286	261	280	291	263	243	276	268	308	422	367	374	400	320	282
453	446	440	403	460	419	417	428	439	384	393	414	463	477	453	411	529	484	472
483	414	360	301	351	310	350	306	424	467	413	394	411	609	577	575	612	626	595
285	267	325	254	283	291	263	260	427	334	523	403	421	681	632	623	684	555	386
378	397	365	355	312	308	353	356	326	317	387	350	354	407	353	364	432	413	388
285	275	246	247	250	271	244	253	251	240	316	292	300	316	272	253	322	291	293
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
845	824	856	912	822	798	817	812	717	712	755	750	748	760	726	718	773	759	755
301	312	282	329	307	320	315	324	542	487	552	492	437	485	444	498	710	534	548
292	308	315	327	305	351	303	323	445	384	466	442	475	383	314	326	513	461	416
636	580	586	354	272	274	265	260	192	212	180	199	175	595	542	513	553	440	487
372	292	260	361	384	420	449	468	326	355	305	345	358	399	382	393	401	405	387
346	330	340	410	382	392	404	458	375	299	367	377	415	618	591	920	702	699	803
139	135	111	179	137	129	156	147	244	266	234	260	282	252	186	183	273	269	242
712	856	1128	458	444	509	462	461	0	0	0	0	0	0	0	0	0	0	0
415	276	1006	358	268	236	224	220	0	0	0	0	0	0	0	0	0	0	0
135	124	108	234	260	260	221	228	244	228	169	199	235	250	239	249	262	244	234
NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	15	35	85	101	65	78	149	117	106
311	222	180	221	202	224	208	212	188	175	NC	NC	NC	NC	NC	NC	NC	NC	NC
494	350	312	618	342	395	421	426	384	375	438	458	507	499	452	455	923	645	583
296	167	190	240	206	200	212	217	309	300	251	277	327	297	278	298	326	295	285

SVMP-15D	SVMP-15M	SVMP-15S	SVMP-16D	SVMP-16M	SVMP-16S	SVMP-17D	SVMP-17M	SVMP-17S	SVMP-18D	SVMP-18S	SVMP-20D	SVMP-20M	SVMP-20S
8000	8000	8000	8000	8000	8000	50000	50000	50000	50000	50000	50000	50000	50000
159	NC2	152	183	178	NC	209	173	153	1248	1065	364	492	259
516	NC2	541	433	423	495	418	411	351	1108	777	511	573	481
242	NC2	240	369	521	977	236	239	201	1240	598	401	334	314
400	NC2	411	444	399	407	452	414	408	1566	1115	614	638	621
346	NC2	409	350	380	390	393	346	350	1151	871	493	547	469
254	NC2	246	314	278	293	246	237	251	941	1277	549	497	476
0	NC2	0	88	155	101	103	103	119	829	370	252	723	199
474	NC2	485	546	550	523	878	819	884	2019	1533	681	1800	764
520	NC2	521	567	625	597	1037	1094	1277	3037	2125	1031	1030	1048
356	NC2	355	408	405	408	646	661	733	1611	1151	574	618	616
493	NC2	483	576	598	666	774	646	713	2091	1483	690	619	661
486	NC2	530	595	598	595	838	866	1025	3322	1648	699	744	745
366	NC2	379	419	472	443	695	519	543	1578	1306	714	815	799
353	NC2	343	412	404	379	818	541	661	1482	1158	740	594	665
307	NC2	237	305	315	288	734	575	517	1536	1230	612	598	563
0	NC2	0	0	0	0	233	333	467	1467	3167	33	67	67
740	NC2	732	707	715	722	1030	988	1031	1324	1184	1110	1076	1054
655	NC2	696	757	745	629	595	605	671	1633	1201	669	753	786
331	NC2	376	419	418	398	596	642	550	1549	1136	691	697	684
651	NC2	587	464	493	509	944	696	1451	2255	1376	856	908	748
311	NC2	316	354	383	385	379	365	412	1631	1063	478	498	437
659	NC2	622	550	601	652	567	538	571	1801	1084	761	596	560
384	NC2	346	315	359	387	381	419	568	1375	1024	461	448	478
0	NC2	0	0	0	0	0	0	0	2434	571	0	0	0
83	NC2	8	0	3	39	254	277	100	1070	1085	54	66	49
387	NC2	411	334	374	450	501	443	496	1335	1067	492	476	477
103	NC2	83	124	145	155	257	274	250	1462	984	362	382	327
NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
508	NC2	581	519	533	540	581	539	558	NC	NC	633	675	617
328	NC2	371	315	334	348	419	387	354	1388	1260	503	493	487

App. A.3 – RHS Tank Soil Vapor Monitoring
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Weekly Tank Soil Vapor Monitoring

Background Tunnel Air Readings (ppbv)																		
Date	TANK-02	TANK-03	TANK-04	TANK-05	TANK-06	TANK-07	TANK-08	TANK-09	TANK-10	TANK-11	TANK-12	TANK-13	TANK-14	TANK-15	TANK-16	TANK-17	TANK-18	TANK-20
GWPP Action Limits	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1/23/2024	1733	2204	2787	2281	2165	1633	1695	2568	1908	401	394	224	262	252	273	350	464	415
1/19/2024	100	216	227	288	280	319	272	310	293	NC1	NC1	468	507	618	405	516	710	604
1/16/2024	103	105	182	459	440	598	569	649	720	683	649	637	420	612	1487	508	643	565
1/12/2024	283	448	470	458	564	577	540	503	448	497	488	416	551	482	375	650	765	845
1/9/2024	238	277	251	259	325	414	380	352	363	303	348	404	381	402	450	479	873	616
1/5/2024	0	3	7	22	96	166	144	180	203	410	379	450	333	377	292	387	621	722
1/2/2024	199	257	247	421	705	302	208	189	289	314	309	407	314	308	433	462	430	644
12/29/2023	82	122	98	96	147	245	262	227	226	250	213	385	294	359	344	689	533	555
12/26/2023	10	34	18	421	340	215	292	221	200	276	219	299	260	452	379	1107	1381	939
12/22/2023	116	110	123	507	349	197	213	193	196	183	187	201	205	268	289	517	618	561
12/19/2023	601	577	516	618	430	395	416	351	372	347	392	346	401	447	670	654	1101	851
12/15/2023	71	65	43	157	68	258	223	231	281	732	664	872	962	807	750	1481	1732	1107
12/12/2023	108	207	169	531	253	350	405	349	313	361	493	770	588	510	580	793	1586	976
12/8/2023	129	127	150	133	505	352	472	271	284	267	277	247	324	220	298	565	945	989
12/5/2023	548	202	229	789	439	356	324	357	312	305	308	307	390	275	289	847	1550	715
12/1/2023	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1200	4700	500
11/28/2023	270	451	618	657	741	808	841	840	860	750	777	764	788	756	754	928	1100	1117
11/24/2023	575	85	99	95	250	243	272	281	282	396	332	301	406	509	532	833	1281	1007
11/21/2023	83	69	155	88	251	501	280	303	313	376	386	312	384	392	308	765	943	827
11/17/2023	190	275	226	504	745	570	561	343	341	219	224	460	420	701	488	1044	1566	614
11/14/2023	128	271	265	301	291	339	475	490	509	444	396	380	481	420	366	780	1581	614
11/10/2023	151	241	163	485	501	395	437	462	581	388	453	627	582	643	688	987	801	679
11/7/2023	74	61	66	39	343	183	160	129	266	357	286	213	265	327	378	511	1073	526
11/3/2023	226	168	294	315	743	425	775	555	587	0	0	0	0	0	0	107	1011	135
10/31/2023	257	152	199	154	54	269	273	262	309	0	0	0	138	148	55	539	1381	218
10/27/2023	239	151	66	81	557	293	284	197	350	350	366	261	310	419	499	776	1231	690
10/26/2023	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	4	22	96	62	134	259	559	359
10/24/2023	15	83	86	323	342	258	308	225	352	234	NC	NC	NC	NC	NC	NC	NC	NC
10/20/2023	96	177	131	250	333	341	398	353	535	481	528	494	603	651	596	926	NC	831
10/17/2023	81	142	157	105	481	254	231	208	282	347	344	262	389	299	385	606	718	620

Appendix B – Groundwater Monitoring Results, Current Reporting Period

Appendix B.1 – Analytical Program for Groundwater Samples Collected During Current Reporting Period
Appendix B.2 – Monitoring Well Measurements
Appendix B.2.1 – Free Product Gauging, Monitoring Well Headspace Measurements, and General Chemistry Parameters
Appendix B.2.2 – Monitoring Well Water Level Measurements
Appendix B.3 – Natural Attenuation Parameter
Appendix B.4 – Summary of Groundwater Analytical Results
Appendix B.4.1 – Groundwater Analytical Results
Appendix B.4.2 – Groundwater COPC Analytical Charts
Appendix B.4.2.1 – TPH Charts
Appendix B.4.2.2 – PAH Charts
Appendix B.4.2.3 – Defueling Charts
Appendix B.5 – Chromatograms for Groundwater Detections and Exceedances

Appendix B.1 – Analytical Program for Groundwater Samples Collected During Current Reporting Period

Event Status Report
RH Consolidated Groundwater Program
RHS CGW UFP-QAPP

Event Name: Monthly 2023 June
Event ID: 1086

Site	Location	Location Type	Field Sample ID	Begin Depth	End Depth	Matrix	Sample Type	Sample No.	Samp. Method	Sampling Date	Chain of Custody	Shipping Method	Shipment Tracking Number	Laboratory Shipped Date	Laboratory Receipt Date	Lab	SDG	TAT (Days)	Validation TAT (Days)	Review Type	Sampling Status	BNA SIM SGS 18 Analytes (BNASIME)	EDB TC1112 (SW8011)	Methane (RSK175)	NPOC (SW9060A)	Phenol SGS (SW8270)	TOC (SW9060A)	TPH Diesel and Oil SGS (SW8015C)	TPH Diesel and Oil Silica Gel EU SGS (M8015D)	TPH Gasoline SGS (M8015V)	VOCs BTEX and 12DCA SGS (SW8260D)	VOCs BTEX SGS (SW8260D)
Red Hill Bulk Fuel Storage Facility	RHMW01R	WL	RHMW01R-WGN01LF-2306WK2	0	0	WG	N	1	LF	2023-06-15 11:00 AM	2306W2SG-33	UNITED CARGO	016-49046874	6/15/2023	6/17/2023	SGSO	FC7026	10	10	S2BVEM	Sampled	•		•		•		•	•	•		•
	RHMW02	WL	RHMW02-WGN01LF-2306WK2	0	0	WG	N	1	LF	2023-06-15 02:15 PM	2306W2SG-34	UNITED CARGO	016-49046874	6/15/2023	6/17/2023	SGSO	FC7026	10	10	S2BVEM	Sampled	•		•		•		•	•	•		•
	RHMW03	WL	RHMW03-WGN01LF-2306WK2	0	0	WG	N	1	LF	2023-06-14 02:50 PM	2306W2SG-25	UNITED CARGO	016-49046874	6/15/2023	6/17/2023	SGSO	FC7026	10	10	S2BVEM	Sampled; No SGC	•		•		•		•	•	•		•
	RHMW04	WL	RHMW04-WGN01LF-2306WK2	0	0	WG	N	1	LF	2023-06-14 09:50 AM	2306W2SG-19	UNITED CARGO	016-49046874	6/15/2023	6/17/2023	SGSO	FC7026	10	10	S2BVEM	Sampled; No SGC	•		•		•		•	•	•		•
	RHMW05	WL	RHMW05-WGN01LF-2306WK2	0	0	WG	N	1	LF	2023-06-15 12:40 PM	2306W2SG-31	UNITED CARGO	016-49046874	6/15/2023	6/17/2023	SGSO	FC7026	10	10	S2BVEM	Sampled	•		•		•		•	•	•		•
	RHMW06	WL	RHMW06-WGN01LF-2306WK2	0	0	WG	N	1	LF	2023-06-14 01:15 PM	2306W2SG-20	UNITED CARGO	016-49046874	6/15/2023	6/17/2023	SGSO	FC7026	10	10	S2BVEM	Sampled; No SGC	•		•		•		•	•	•		•
	RHMW09	WL	RHMW09-WGN01LF-2306WK2	0	0	WG	N	1	LF	2023-06-13 02:50 PM	2306W2SG-11	UNITED CARGO	016-78785162	6/15/2023	6/17/2023	SGSO	FC7026	10	10	S2BVEM	Sampled; No SGC	•		•		•		•	•	•		•
	RHMW10	WL	RHMW10-WGN01LF-2306WK2	0	0	WG	N	1	LF	2023-06-14 01:30 PM	2306W2SG-15	UNITED CARGO	016-49046874	6/15/2023	6/17/2023	SGSO	FC7026	10	10	S2BVEM	Sampled; No SGC	•		•		•		•	•	•		•
	RHMW17	WL	RHMW17-WGFD01LF-2306WK2	0	0	WG	FD	1	LF	2023-06-15 10:20 AM	2306W2SG-27	UNITED CARGO	016-49046874	6/15/2023	6/17/2023	SGSO	FC7026	10	10	S2BVEM	Sampled	•				•		•	•	•		•
	RHMW17	WL	RHMW17-WGN01LF-2306WK2	0	0	WG	N	1	LF	2023-06-15 10:20 AM	2306W2SG-27	UNITED CARGO	016-49046874	6/15/2023	6/17/2023	SGSO	FC7026	10	10	S2BVEM	Sampled	•		•		•		•	•	•		•
	RHMW19	WL	RHMW19-WGN01LF-2306WK2	0	0	WG	N	1	LF	2023-06-13 11:35 AM	2306W2SG-09	UNITED CARGO	016-78785162	6/15/2023	6/17/2023	SGSO	FC7026	10	10	S2BVEM	Sampled; No SGC	•		•		•		•	•	•		•
	RHMW20	WL	RHMW20-WGN01LF-2306WK2	0	0	WG	N	1	LF	2023-06-14 09:35 AM	2306W2SG-22	UNITED CARGO	016-49046874	6/15/2023	6/17/2023	SGSO	FC7026	10	10	S2BVEM	Sampled; No SGC	•		•		•		•	•	•	•	
	RHP04A	WL	RHP04A-WGN01LF-2306WK2	0	0	WG	N	1	LF	2023-06-14 09:25 AM	2306W2SG-23	UNITED CARGO	016-49046874	6/15/2023	6/17/2023	SGSO	FC7027	10	10	S2BVEM	Sampled; No SGC	•		•		•		•	•	•	•	
	RHP04B	WL	RHP04B-WGN01LF-2306WK2	0	0	WG	N	1	LF	2023-06-14 12:50 PM	2306W2SG-24	UNITED CARGO	016-49046874	6/15/2023	6/17/2023	SGSO	FC7027	10	10	S2BVEM	Sampled	•		•		•		•	•	•	•	
	RHP07	WL	RHP07-WGN01LF-2306WK2	0	0	WG	N	1	LF	2023-06-15 10:35 AM	2306W2SG-32	UNITED CARGO	016-49046874	6/15/2023	6/17/2023	SGSO	FC7027	10	10	S2BVEM	Sampled	•		•		•		•	•	•	•	
																					S2BVEM Count	***27***	***5***	***24***	***16***	***27***	***16***	***27***	***27***	***27***	***10***	***17***
																					S4VEM Count	***0***	***6***	***0***	***8***	***0***	***8***	***0***	***0***	***0***	***0***	***0***
																					Site Location Count	***27***	***11***	***24***	***24***	***27***	***24***	***27***	***27***	***27***	***10***	***17***
																					Total Location Count	***31***	***13***	***28***	***28***	***31***	***28***	***31***	***31***	***31***	***11***	***20***

Note: This event has missing samples in Event Management that are Field QC ONLY. Please refer to the Unplanned Field Samples report to view these samples.

Status	Color
Status Not Determined	
Scheduled for Analysis; Awaiting Field Data	
Chain of Custody Data Loaded and Certified; Awaiting Lab Data	
Laboratory Data Loaded and Certified; Awaiting Validation	
Validation Qualifiers Finalized; Awaiting Approval	
Approval Complete; Data In Production	

Matrix Name	Matrix
Ground Water	WG

Sampling Method	Code
Grab	G
Low-Flow (Slow Purge) Groundwater Pumping	LF

Laboratory Name	Laboratory Code
ALS Laboratory Group, Kelso,	ALGK
Energy Lab, Inc., Billings, MT	ENRB
SGS North America, Inc., Orlando, FL	SGSO

Location Type	Code
Well	WL

Event Status Report
RH Consolidated Groundwater Program
RHS CGW UFP-QAPP

Event Name: Monthly 2023 September

Event ID: 1112

Site	Location	Location Type	Field Sample ID	Begin Depth	End Depth	Matrix	Sample Type	Sample No.	Samp. Method	Sampling Date	Chain of Custody	Shipping Method	Shipment Tracking Number	Laboratory Shipped Date	Laboratory Receipt Date	Lab	SDG	TAT (Days)	Validation TAT (Days)	Review Type	Sampling Status	BNA SIM SGS 18 Analytes (BNASIME)	EDB TC1112 (SW8011)	Methane (RSK175)	NPOC (SW9060A)	Phenol SGS (SW8270)	TOC (SW9060A)	TPH Diesel and Oil SGS (SW8015C)	TPH Diesel and Oil Silica Gel EU SGS (M8015D)	TPH Gasoline SGS (M8015V)	VOCs BTEX and 12DCA SGS (SW8260D)	VOCs BTEX SGS (SW8260D)
Aiea	NMW24	WL	NMW24-WGN01LF-2309	0	0	WG	N	1	LF	2023-09-08 09:10 AM	2309SG-20	UNITED CARGO	016-48963692	9/11/2023	9/13/2023	SGSO	FC9543	10	10	S2BVEM	Sampled; No SGC	•		•		•		•	•	•	•	
																					S2BVEM Count	***1***	***1***	***1***	***1***	***1***	***1***	***1***	***1***	***1***	***1***	***0***
																					Site Location Count	***1***	***1***	***1***	***1***	***1***	***1***	***1***	***1***	***1***	***1***	***0***
Halawa Correctional Facility	HDMW2253-03	WL	HDMW2253-03-WGN01LF-2309	0	0	WG	N	1	LF	2023-09-05 11:00 AM	2309AL-29	FEDEX	783433514502	9/6/2023	9/7/2023	ALGK	K2310020	10	10	S2BVEM	Sampled				•		•					
	HDMW2253-03	WL	HDMW2253-03-WGN01LF-2309	0	0	WG	N	1	LF	2023-09-05 11:00 AM	2309SG-29	UNITED CARGO	016-92273904	9/5/2023	9/7/2023	SGSO	FC9377	10	10	S2BVEM	Sampled; No SGC	•		•		•		•	•	•		•
	RHMW12A	WL	RHMW12A-WGN01LF-2309	0	0	WG	N	1	LF	2023-09-07 09:40 AM	2309SG-11	UNITED CARGO	016-92274501	9/7/2023	9/9/2023	SGSO	FC9446	10	10	S2BVEM	Sampled; No SGC	•		•		•		•	•	•		•
																					S2BVEM Count	***4***	***1***	***4***	***4***	***4***	***4***	***4***	***4***	***4***	***0***	***4***
																					Site Location Count	***4***	***1***	***4***	***4***	***4***	***4***	***4***	***4***	***4***	***0***	***4***
Red Hill Bulk Fuel Storage Facility	NMW25	WL	NMW25-WGN01LF-2309	0	0	WG	N	1	LF	2023-09-07 12:00 PM	2309SG-31	UNITED CARGO	016-92274501	9/7/2023	9/9/2023	SGSO	FC9446	10	10	S2BVEM	Sampled; No SGC	•		•		•		•	•	•	•	
	NMW32	WL	NMW32-WGN01LF-2309	0	0	WG	N	1	LF	2023-09-13 10:20 AM	2309SG-32	UNITED CARGO	016-25181074	9/14/2023	9/15/2023	SGSO	FC9641	10	10	S4VEM	Sampled; No SGC	•		•		•		•	•	•	•	
	RHMW01R	WL	RHMW01R-WGN01LF-2309	0	0	WG	N	1	LF	2023-09-05 01:50 PM	2309AL-01	FEDEX	783433514502	9/6/2023	9/7/2023	ALGK	K2310020	10	10	S2BVEM	Sampled				•		•					
	RHMW01R	WL	RHMW01R-WGN01LF-2309	0	0	WG	N	1	LF	2023-09-05 01:50 PM	2309SG-01	UNITED CARGO	016-92273904	9/5/2023	9/7/2023	SGSO	FC9377	10	10	S2BVEM	Sampled	•		•		•		•	•	•		•
	RHMW02	WL	RHMW02-WGN01LF-2309	0	0	WG	N	1	LF	2023-09-07 10:45 AM	2309SG-02	UNITED CARGO	016-92274501	9/7/2023	9/9/2023	SGSO	FC9446	10	10	S2BVEM	Sampled	•		•		•		•	•	•		•
	RHMW03	WL	RHMW03-WGN01LF-2309	0	0	WG	N	1	LF	2023-09-07 01:40 PM	2309SG-03	UNITED CARGO	016-92274501	9/7/2023	9/9/2023	SGSO	FC9446	10	10	S2BVEM	Sampled; No SGC	•		•		•		•	•	•		•
	RHMW04	WL	RHMW04-WGN01LF-2309	0	0	WG	N	1	LF	2023-09-08 09:20 AM	2309SG-04	UNITED CARGO	016-48963692	9/11/2023	9/13/2023	SGSO	FC9543	10	10	S2BVEM	Sampled; No SGC	•		•		•		•	•	•		•
	RHMW05	WL	RHMW05-WGN01LF-2309	0	0	WG	N	1	LF	2023-09-05 11:00 AM	2309AL-05	FEDEX	783433514502	9/6/2023	9/7/2023	ALGK	K2310020	10	10	S2BVEM	Sampled				•		•					
	RHMW05	WL	RHMW05-WGN01LF-2309	0	0	WG	N	1	LF	2023-09-05 11:00 AM	2309SG-05	UNITED CARGO	016-92273904	9/5/2023	9/7/2023	SGSO	FC9377	10	10	S2BVEM	Sampled; No SGC	•		•		•		•	•	•		•
	RHMW06	WL	RHMW06-WGN01LF-2309	0	0	WG	N	1	LF	2023-09-08 12:10 PM	2309SG-06	UNITED CARGO	016-48963692	9/11/2023	9/13/2023	SGSO	FC9543	10	10	S2BVEM	Sampled; No SGC	•		•		•		•	•	•		•
	RHMW08	WL	RHMW08-WGN01LF-2309	0	0	WG	N	1	LF	2023-09-06 12:45 PM	2309AL-07	FEDEX	783433514502	9/6/2023	9/7/2023	ALGK	K2310020	10	10	S2BVEM	Sampled				•		•					
	RHMW09	WL	RHMW09-WGN01LF-2309	0	0	WG	N	1	LF	2023-09-05 02:15 PM	2309AL-08	FEDEX	783433514502	9/6/2023	9/7/2023	ALGK	K2310020	10	10	S2BVEM	Sampled				•		•					
	RHMW09	WL	RHMW09-WGN01LF-2309	0	0	WG	N	1	LF	2023-09-05 02:15 PM	2309SG-08	UNITED CARGO	016-92273904	9/5/2023	9/7/2023	SGSO	FC9377	10	10	S2BVEM	Sampled; No SGC	•		•		•		•	•	•		•
	RHMW10	WL	RHMW10-WGN01LF-2309	0	0	WG	N	1	LF	2023-09-05 01:20 PM	2309AL-09	FEDEX	783433514502	9/6/2023	9/7/2023	ALGK	K2310020	10	10	S2BVEM	Sampled				•		•					
	RHMW10	WL	RHMW10-WGN01LF-2309	0	0	WG	N	1	LF	2023-09-05 01:20 PM	2309SG-09	UNITED CARGO	016-92273904	9/5/2023	9/7/2023	SGSO	FC9377	10	10	S2BVEM	Sampled; No SGC	•		•		•		•	•	•		•
	RHMW13-05	WL	RHMW13-05-WGN01G-2309	0	0	WG	N	1	G	2023-09-05 09:30 AM	2309AL-12	FEDEX	783433514502	9/6/2023	9/7/2023	ALGK	K2310020	10	10	S2BVEM	Sampled				•		•					
	RHMW13-05	WL	RHMW13-05-WGN01G-2309	0	0	WG	N	1	G	2023-09-05 09:30 AM	2309SG-12	UNITED CARGO	016-92273904	9/5/2023	9/7/2023	SGSO	FC9377	10	10	S2BVEM	Sampled; No SGC	•		•		•		•	•	•		•
	RHMW15-05	WL	RHMW15-05-WGN01G-2309	0	0	WG	N	1	G	2023-09-07 09:15 AM	2309SG-14	UNITED CARGO	016-92274501	9/7/2023	9/9/2023	SGSO	FC9446	10	10	S2BVEM	Sampled; No SGC	•		•		•		•	•	•		•
	RHMW16	WL	RHMW16-WGN01LF-2309	0	0	WG	N	1	LF	2023-09-07 12:35 PM	2309SG-15	UNITED CARGO	016-92274501	9/7/2023	9/9/2023	SGSO	FC9446	10	10	S2BVEM	Sampled	•		•		•		•	•	•		•
	RHMW17	WL	RHMW17-WGFD01LF-2309	0	0	WG	FD	1	LF	2023-09-08 01:50 PM	2309SG-16	UNITED CARGO	016-48963692	9/11/2023	9/13/2023	SGSO	FC9543	10	10	S2BVEM	Sampled; No SGC	•				•		•	•	•		•
	RHMW17	WL	RHMW17-WGN01LF-2309	0	0	WG	N	1	LF	2023-09-08 01:50 PM	2309SG-16	UNITED CARGO	016-48963692	9/11/2023	9/13/2023	SGSO	FC9543	10	10	S2BVEM	Sampled; No SGC	•		•		•		•	•	•		•
	RHMW19	WL	RHMW19-WGN01LF-2309	0	0	WG	N	1	LF	2023-09-05 11:30 AM	2309AL-17	FEDEX	783433514502	9/6/2023	9/7/2023	ALGK	K2310020	10	10	S2BVEM	Sampled				•		•					
	RHMW19	WL	RHMW19-WGN01LF-2309	0	0	WG	N	1	LF	2023-09-05 11:30 AM	2309SG-17	UNITED CARGO	016-92273904	9/5/2023	9/7/2023	SGSO	FC9377	10	10	S2BVEM	Sampled; No SGC	•		•		•		•	•	•		•
	RHMW20	WL	RHMW20-WGN01LF-2309	0	0	WG	N	1	LF	2023-09-06 09:50 AM	2309AL-18	FEDEX	783433514502	9/6/2023	9/7/2023	ALGK	K2310020	10	10	S2BVEM	Sampled				•		•					
	RHMW2254-01	WL	RHMW2254-01-WGN01LF-2309	0	0	WG	N	1	LF	2023-09-06 12:40 PM	2309AL-19	FEDEX	783433514502	9/6/2023	9/7/2023	ALGK	K2310020	10	10	S2BVEM	Sampled				•		•					
	RHP01	WL	RHP01-WGN01LF-2309	0	0	WG	N	1	LF	2023-09-06 11:30 AM	2309AL-21	FEDEX	783433514502	9/6/2023	9/7/2023	ALGK	K2310020	10	10	S2BVEM	Sampled				•		•					
	RHP02	WL	RHP02-WGN01LF-2309	0	0	WG	N	1	LF	2023-09-06 08:55 AM	2309AL-22	FEDEX	783433514502	9/6/2023	9/7/2023	ALGK	K2310020	10	10	S2BVEM	Sampled				•		•					
	RHP03	WL	RHP03-WGN01LF-2309	0	0	WG	N	1	LF	2023-09-08 04:15 PM	2309SG-23	UNITED CARGO	016-48963692	9/11/2023	9/13/2023	SGSO	FC9543	10	10	S2BVEM	Sampled; No SGC	•		•		•		•	•	•	•	

Site	Location	Location Type	Field Sample ID	Begin Depth	End Depth	Matrix	Sample Type	Sample No.	Samp. Method	Sampling Date	Chain of Custody	Shipping Method	Shipment Tracking Number	Laboratory Shipped Date	Laboratory Receipt Date	Lab	SDG	TAT (Days)	Validation TAT (Days)	Review Type	Sampling Status	BNA SIM SGS 18 Analytes (BNASIME)	EDB TC1112 (SW8011)	Methane (RSK175)	NPOC (SW9060A)	Phenol SGS (SW8270)	TOC (SW9060A)	TPH Diesel and Oil SGS (SW8015C)	TPH Diesel and Oil Silica Gel EU SGS (M8015D)	TPH Gasoline SGS (M8015V)	VOCs BTEX and 12DCA SGS (SW8260D)	VOCs BTEX SGS (SW8260D)
	RHP04A	WL	RHP04A-WGN01LF-2309	0	0	WG	N	1	LF	2023-09-11 02:05 PM	2309AL-24	FEDEX	783682684917	9/12/2023	9/13/2023	ALGK	K2310236	10	10	S2BVEM	Sampled				•		•					
	RHP04A	WL	RHP04A-WGN01LF-2309	0	0	WG	N	1	LF	2023-09-11 02:05 PM	2309SG-24	UNITED CARGO	016-21018616	9/12/2023	9/13/2023	SGSO	FC9542	10	10	S4VEM	Sampled; No SGC	•		•		•		•	•	•	•	
	RHP04B	WL	RHP04B-WGN01LF-2309	0	0	WG	N	1	LF	2023-09-11 10:10 AM	2309AL-25	FEDEX	783682684917	9/12/2023	9/13/2023	ALGK	K2310236	10	10	S2BVEM	Sampled				•		•					
	RHP04B	WL	RHP04B-WGN01LF-2309	0	0	WG	N	1	LF	2023-09-11 10:10 AM	2309SG-25	UNITED CARGO	016-21018616	9/12/2023	9/13/2023	SGSO	FC9542	10	10	S4VEM	Sampled	•		•		•		•	•	•	•	
	RHP04C	WL	RHP04C-WGFD01LF-2309	0	0	WG	FD	1	LF	2023-09-08 10:30 AM	2309SG-26	UNITED CARGO	016-48963692	9/11/2023	9/13/2023	SGSO	FC9543	10	10	S2BVEM	Sampled; No SGC	•				•		•	•	•	•	
	RHP04C	WL	RHP04C-WGN01LF-2309	0	0	WG	N	1	LF	2023-09-08 10:30 AM	2309SG-26	UNITED CARGO	016-48963692	9/11/2023	9/13/2023	SGSO	FC9543	10	10	S2BVEM	Sampled; No SGC	•		•		•		•	•	•	•	
	RHP05	WL	RHP05-WGN01LF-2309	0	0	WG	N	1	LF	2023-09-08 02:35 PM	2309SG-27	UNITED CARGO	016-48963692	9/11/2023	9/13/2023	SGSO	FC9543	10	10	S2BVEM	Sampled; No SGC	•		•		•		•	•	•	•	
	RHP06	WL	RHP06-WGFD01LF-2309	0	0	WG	FD	1	LF	2023-09-07 09:10 AM	2309SG-30	UNITED CARGO	016-92274501	9/7/2023	9/9/2023	SGSO	FC9446	10	10	S2BVEM	Sampled; No SGC	•				•		•	•	•	•	
	RHP06	WL	RHP06-WGN01LF-2309	0	0	WG	N	1	LF	2023-09-07 09:10 AM	2309SG-30	UNITED CARGO	016-92274501	9/7/2023	9/9/2023	SGSO	FC9446	10	10	S2BVEM	Sampled; No SGC	•		•		•		•	•	•	•	
	RHP07	WL	RHP07-WGN01LF-2309	0	0	WG	N	1	LF	2023-09-06 09:45 AM	2309AL-28	FEDEX	783433514502	9/6/2023	9/7/2023	ALGK	K2310020	10	10	S2BVEM	Sampled				•		•					
	RHP08	WL	RHP08-WGN01LF-2309	0	0	WG	N	2	LF	2023-09-11 05:15 PM	2309AL-33	FEDEX	783682684917	9/12/2023	9/13/2023	ALGK	K2310236	10	10	S2BVEM	Sampled				•		•					
	RHP08	WL	RHP08-WGN01LF-2309	0	0	WG	N	2	LF	2023-09-11 05:15 PM	2309SG-33	UNITED CARGO	016-21018616	9/12/2023	9/13/2023	SGSO	FC9542	10	10	S4VEM	Sampled; No SGC	•		•		•		•	•	•	•	
																					S2BVEM Count	***28***	***15***	***24***	***28***	***28***	***28***	***28***	***28***	***28***	***11***	***17***
																					S4VEM Count	***4***	***0***	***4***	***0***	***4***	***0***	***4***	***4***	***4***	***4***	***0***
																					Site Location Count	***32***	***15***	***28***	***28***	***32***	***28***	***32***	***32***	***32***	***15***	***17***
																					Total Location Count	***37***	***17***	***33***	***33***	***37***	***33***	***37***	***37***	***37***	***16***	***21***

Note: This event has missing samples in Event Management that are Field QC ONLY. Please refer to the Unplanned Field Samples report to view these samples.

Status	Color
Status Not Determined	
Scheduled for Analysis; Awaiting Field Data	
Chain of Custody Data Loaded and Certified; Awaiting Lab Data	
Laboratory Data Loaded and Certified; Awaiting Validation	
Validation Qualifiers Finalized; Awaiting Approval	
Approval Complete; Data In Production	

Matrix Name	Matrix
Ground Water	WG

Sampling Method	Code
Grab	G
Low-Flow (Slow Purge) Groundwater Pumping	LF

Laboratory Name	Laboratory Code
ALS Laboratory Group, Kelso, WA	ALGK
Energy Lab, Inc., Billings, MT	ENRB
SGS North America, Inc., Orlando, FL	SGSO

Location Type	Code
Well	WL

Event Status Report
RH Groundwater Long Term Monitoring
RHS LTM UFP-QAPP

Event Name: 2023 Q4 GW LTM

Event ID: 1118

Site	Location	Location Type	Field Sample ID	Begin Depth	End Depth	Matrix	Sample Type	Sample No.	Samp. Method	Sampling Date	Chain of Custody	Shipping Method	Shipment Tracking Number	Laboratory Shipped Date	Laboratory Receipt Date	Lab	SDG	TAT (Days)	Validation TAT (Days)	Review Type	Sampling Status	22MEE (SW8270D)	Alkalinity (A2320B)	Alkalinity Historical (A2320B)	Anions SO4 Cl Br F N (E300)	Anions SO4 Cl N (E300)	BNA SIM SGS 18 Analytes (BNASIME)	DOC (SW9060A)	EDB TC1112 (SW8011)	Ferrous Iron (A3500B)	Metals Ca Na Mg Mn K (SW6010D)	Methane (RSK175)	Nitrate Nitrite (E353.2)	Phenol SGS (SW8270)	Silica (A4500D)	TOC (SW9060A)	TPH Diesel and Oil Energy (SW8015C)	TPH Diesel and Oil Silica Gel Energy (M8015D)	TPH Gasoline Energy (M8015V)	VOCs BTEX and 12DCA Energy (SW8260B)	VOCs BTEX Energy (SW8260B)
Alea	NMW24	WL	NMW24-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-13 08:50 AM	23Q4AP-20	FEDEX	785039398955	10/13/2023		APPL	23J0125	10		S4VEM	Sampled; Silica Cancelled	•										•											
	NMW24	WL	NMW24-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-13 08:50 AM	23Q4AP-20	FEDEX	785039398955	10/13/2023		APPL	23J0125	10		S2BVEM	Sampled; Silica Cancelled															•							
	NMW24	WL	NMW24-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-13 08:50 AM	23Q4EN-20	UNITED CARGO	016-50772654	10/16/2023	10/17/2023	ENRB	B23101258	10	10	S2BVEM	Sampled; No SGC								•									•	•	•	•	
	NMW24	WL	NMW24-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-13 08:50 AM	23Q4SG-20	UNITED CARGO	016-50772643	10/16/2023	10/17/2023	SGSO	FC10488	10		S2BVEM	Sampled; DOC cancelled						•	•			•		•		•						
																					S4VEM Count	***1***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***1***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
																					S2BVEM Count	***0***	***1***	***1***	***0***	***1***	***1***	***1***	***1***	***0***	***0***	***1***	***1***	***1***	***1***	***1***	***1***	***1***	***1***	***0***
																					Site Location Count	***1***	***1***	***1***	***0***	***1***	***1***	***1***	***1***	***1***	***0***	***1***	***1***	***1***	***1***	***1***	***1***	***1***	***1***	***0***
Halawa Correctional Facility	HDMW2253-03	WL	HDMW2253-03-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-03 10:10 AM	23Q4AP-29	FEDEX	784583027888	10/3/2023	10/4/2023	APPL	23J0035	10		S2BVEM	Sampled; 2MEE cancelled	•								•											
	HDMW2253-03	WL	HDMW2253-03-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-03 10:10 AM	23Q4EN-29	UNITED CARGO	016-97048744	10/3/2023	10/4/2023	ENRB	B23100332	10	10	S2BVEM	Sampled; No SGC															•	•	•		•
	HDMW2253-03	WL	HDMW2253-03-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-03 10:10 AM	23Q4SG-29	UNITED CARGO	016-97045863	10/3/2023	10/5/2023	SGSO	FC10199	10		S2BVEM	Sampled						•				•		•		•		•				
	HDMW2253-03	WL	HDMW2253-03-WGN02LF-23Q4	0	0	WG	N	1	LF	2023-12-15 10:15 AM	23Q4AP-36	FEDEX	788106491520	12/15/2023	12/16/2023	APPL	23L0135	10		S2BVEM	Sampled	•																			
	RHMW11-05	WL	RHMW11-05-WGN01G-23Q4	0	0	WG	N	1	G	2023-10-09 01:50 PM	23Q4AP-10	FEDEX	784880400480	10/10/2023	10/10/2023	APPL	23J0095	10		S2BVEM	Sampled	•								•											
	RHMW11-05	WL	RHMW11-05-WGN01G-23Q4	0	0	WG	N	1	G	2023-10-09 01:50 PM	23Q4EN-10	UNITED CARGO	016-50961783	10/10/2023	10/11/2023	ENRB	B23100868	10	10	S4VEM	Sampled; No SGC															•		•		•
	RHMW11-05	WL	RHMW11-05-WGN01G-23Q4	0	0	WG	N	1	G	2023-10-09 01:50 PM	23Q4EN-10	UNITED CARGO	016-50961783	10/10/2023	10/11/2023	ENRB	B23100868	10		S2BVEM	Sampled; No SGC																•				
	RHMW11-05	WL	RHMW11-05-WGN01G-23Q4	0	0	WG	N	1	G	2023-10-09 01:50 PM	23Q4SG-10	UNITED CARGO	016-50961772	10/10/2023	10/12/2023	SGSO	FC10364	10		S2BVEM	Sampled						•			•		•		•						
	RHMW12A	WL	RHMW12A-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-12 08:55 AM	23Q4AP-11	FEDEX	784990504379	10/12/2023	10/13/2023	APPL	23J0131	10		S2BVEM	Sampled	•								•											
	RHMW12A	WL	RHMW12A-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-12 08:55 AM	23Q4EN-11	UNITED CARGO	016-09827160	10/12/2023	10/13/2023	ENRB	B23101113	10	10	S2BVEM	Sampled; No SGC								•									•		•		•
	RHMW12A	WL	RHMW12A-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-12 08:55 AM	23Q4EN-11	UNITED CARGO	016-09827160	10/12/2023	10/13/2023	ENRB	B23101113	10		S4VEM	Sampled; No SGC																•				
	RHMW12A	WL	RHMW12A-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-12 08:55 AM	23Q4SG-11	UNITED CARGO	016-09827160	10/12/2023	10/14/2023	SGSO	FC10448	10		S2BVEM	Sampled						•			•		•		•						
	RHMW14-03	WL	RHMW14-03-WGN01G-23Q4	0	0	WG	N	1	G	2023-10-09 09:15 AM	23Q4AP-13	FEDEX	784823278946	10/9/2023	10/10/2023	APPL	23J0095	10		S2BVEM	Sampled	•								•											
	RHMW14-03	WL	RHMW14-03-WGN01G-23Q4	0	0	WG	N	1	G	2023-10-09 09:15 AM	23Q4EN-13	UNITED CARGO	016-97056341	10/9/2023	10/10/2023	ENRB	B23100745	10	10	S2BVEM	Sampled; No SGC															•		•		•
	RHMW14-03	WL	RHMW14-03-WGN01G-23Q4	0	0	WG	N	1	G	2023-10-09 09:15 AM	23Q4EN-13	UNITED CARGO	016-97056341	10/9/2023	10/10/2023	ENRB	B23100745	10		S4VEM	Sampled; No SGC																•				
	RHMW14-03	WL	RHMW14-03-WGN01G-23Q4	0	0	WG	N	1	G	2023-10-09 09:15 AM	23Q4SG-13	UNITED CARGO	016-97056330	10/9/2023	10/11/2023	SGSO	FC10327	10		S2BVEM	Sampled						•			•		•		•						
																					S2BVEM Count	***5***	***4***	***4***	***0***	***4***	***4***	***0***	***1***	***4***	***0***	***4***	***4***	***4***	***0***	***4***	***3***	***2***	***3***	***0***	***3***
																					S4VEM Count	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***1***	***2***	***1***	***0***	***1***
																					Site Location Count	***5***	***4***	***4***	***0***	***4***	***4***	***0***	***1***	***4***	***0***	***4***	***4***	***4***	***0***	***4***	***4***	***4***	***4***	***0***	***4***
	NMW25	WL	NMW25-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-13 12:10 PM	23Q4AP-32	FEDEX	785039398955	10/13/2023		APPL	23J0125	10		S4VEM	Sampled; Silica Cancelled	•								•											
	NMW25	WL	NMW25-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-13 12:10 PM	23Q4AP-32	FEDEX	785039398955	10/13/2023		APPL	23J0125	10		S2BVEM	Sampled; Silica Cancelled															•					
	NMW25	WL	NMW25-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-13 12:10 PM	23Q4EN-32	UNITED CARGO	016-50772654	10/16/2023	10/17/2023	ENRB	B23101258	10	10	S2BVEM	Sampled; No SGC								•									•	•	•	•	
	NMW25	WL	NMW25-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-13 12:10 PM	23Q4SG-32	UNITED CARGO	016-50772643	10/16/2023	10/17/2023	SGSO	FC10488	10		S2BVEM	Sampled; DOC cancelled						•	•			•		•		•						
	NMW30	WL	NMW30-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-19 09:50 AM	23Q4AP-35	FEDEX	785292215757	10/19/2023		APPL	23J0238			S2BVEM	Sampled	•								•						•					
	NMW30	WL	NMW30-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-19 09:50 AM	23Q4EN-35	UNITED CARGO	016-49840066	10/19/2023	10/20/2023	ENRB	B23101659			S2BVEM	Sampled								•									•	•	•	•	
	NMW30	WL	NMW30-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-19 09:50 AM	23Q4SG-35	UNITED CARGO	016-49999073	10/19/2023	10/21/2023	SGSO	FC10617			S2BVEM	Sampled						•	•			•		•								
	NMW32	WL	NMW32-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-10 09:20 AM	23Q4AP-31	FEDEX	784880425819	10/10/2023	10/11/2023	APPL	23J0098	10		S2BVEM	Sampled; Silica Cancelled	•								•						•					
	NMW32	WL	NMW32-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-10 09:20 AM	23Q4EN-31	UNITED CARGO	016-50961783	10/10/2023	10/11/2023	ENRB	B23100868	10	10	S4VEM	Sampled; No SGC								•									•		•	•	
	NMW32	WL	NMW32-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-10 09:20 AM	23Q4EN-31	UNITED CARGO	016-50961783	10/10/2023	10/11/2023	ENRB	B23100868	10		S2BVEM	Sampled; No SGC																•				
	NMW32	WL	NMW32-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-10 09:20 AM	23Q4SG-31	UNITED CARGO	016-50961772	10/10/2023	10/12/2023	SGSO	FC10364	10		S2BVEM	Sampled; DOC cancelled						•	•			•		•		•						
	NMW33	WL	NMW33-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-09 08:25 AM	23Q4AP-34	FEDEX	784823278946	10/9/2023	10/10/2023	APPL	23J0094	10		S2BVEM	Sampled	•								•						•					
	NMW33	WL	NMW33-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-09 08:25 AM	23Q4EN-34	UNITED CARGO	016-97056341	10/9/2023	10/10/2023	ENRB	B23100745	10	10	S2BVEM	Sampled								•									•	•	•	•	
	NMW33	WL	NMW33-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-09 08:25 AM	23Q4SG-34	UNITED CARGO	016-97056330	10/9/2023	10/11/2023	SGSO	FC10327	10		S2BVEM	Sampled						•	•			•		•		•						
	RHMW01R	WL	RHMW01R-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-12 10:05 AM	23Q4AP-01	FEDEX	784990504379	10/12/2023	10/14/2023	APPL	23J0127	10		S2BVEM	Sampled	•								•											
	RHMW01R	WL	RHMW01R-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-12 10:05 AM	23Q4EN-01	UNITED CARGO	016-09827160	10/12/2023	10/13/2023	ENRB	B23101113	10	10	S2BVEM	Sampled															•	•	•		•
	RHMW01R	WL	RHMW01R-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-12 10:05 AM	23Q4SG-01	UNITED CARGO	016-09827160	10/12/2023	10/14/2023	SGSO	FC10448	10		S2BVEM	Sampled						•			•		•		•						
	RHMW02	WL	RHMW02-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-09 09:15 AM	23Q4AP-02	FEDEX	784823278946	10/9/2023	10/10/2023	APPL	23J0093	10		S2BVEM	Sampled	•								•											
	RHMW02	WL	RHMW02-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-09 09:15 AM	23Q4EN-02	UNITED CARGO	016-97056341	10/9/2023	10/10/2023	ENRB	B23100745	10	10	S2BVEM	Sampled															•	•	•		•
	RHMW02	WL	RHMW02-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-09 09:15 AM	23Q4SG-02	UNITED CARGO	016-97056330	10/9/2023	10/11/2023	SGSO	FC10327	10		S2BVEM	Sampled						•			•		•		•						

Site	Location	Location Type	Field Sample ID	Begin Depth	End Depth	Matrix	Sample Type	Sample No.	Samp. Method	Sampling Date	Chain of Custody	Shipping Method	Shipment Tracking Number	Laboratory Shipped Date	Laboratory Receipt Date	Lab	SDG	TAT (Days)	Validation TAT (Days)	Review Type	Sampling Status	22MEE (SW8270D)	Alkalinity (A2320B)	Alkalinity Historical (A2320B)	Anions SO4 Cl Br F N (E300)	Anions SO4 Cl N (E300)	BNA SIM SGS 18 Analytes (BNASIME)	DOC (SW9060A)	EDB TC1112 (SW8011)	Ferrous Iron (A3500B)	Metals Ca Na Mg Mn K (SW6010D)	Methane (RSK175)	Nitrate Nitrite (E353.2)	Phenol SGS (SW8270)	Silica (A4500D)	TOC (SW9060A)	TPH Diesel and Oil Energy (SW8015C)	TPH Diesel and Oil Silica Gel Energy (M8015D)	TPH Gasoline Energy (M8015V)	VOCs BTEX and 12DCA Energy (SW8260B)	VOCs BTEX Energy (SW8260B)
	RHMW03	WL	RHMW03-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-09 10:45 AM	23Q4AP-03	FEDEX	784823278946	10/9/2023	10/10/2023	APPL	23J0095	10		S2BVEM	Sampled	•								•											
	RHMW03	WL	RHMW03-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-09 10:45 AM	23Q4EN-03	UNITED CARGO	016-97056341	10/9/2023	10/10/2023	ENRB	B23100745	10	10	S2BVEM	Sampled								•							•	•	•		•
	RHMW03	WL	RHMW03-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-09 10:45 AM	23Q4SG-03	UNITED CARGO	016-97056330	10/9/2023	10/11/2023	SGSO	FC10327	10		S2BVEM	Sampled						•					•		•		•					
	RHMW04	WL	RHMW04-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-13 11:00 AM	23Q4AP-04	FEDEX	785039398955	10/13/2023	10/14/2023	APPL	23J0126	10		S2BVEM	Sampled	•								•											
	RHMW04	WL	RHMW04-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-13 11:00 AM	23Q4EN-04	UNITED CARGO	016-50772654	10/16/2023	10/17/2023	ENRB	B23101258	10	10	S2BVEM	Sampled; No SGC															•	•	•		•
	RHMW04	WL	RHMW04-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-13 11:00 AM	23Q4SG-04	UNITED CARGO	016-50772643	10/16/2023	10/12/2023	SGSO	FC10488	10		S2BVEM	Sampled						•					•		•		•					
	RHMW05	WL	RHMW05-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-10 11:25 AM	23Q4AP-05	FEDEX	784880425819	10/10/2023	10/11/2023	APPL	23J0116	10		S2BVEM	Sampled	•								•											
	RHMW05	WL	RHMW05-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-10 11:25 AM	23Q4EN-05	UNITED CARGO	016-09824253	10/11/2023		ENRB	B23101127	10	10	S2BVEM	Sampled; No SGC															•		•		•
	RHMW05	WL	RHMW05-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-10 11:25 AM	23Q4EN-05	UNITED CARGO	016-09824253	10/11/2023		ENRB		10		S4VEM	Sampled; No SGC																•			
	RHMW05	WL	RHMW05-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-10 11:25 AM	23Q4SG-05	UNITED CARGO	016-50961772	10/10/2023		SGSO	FC10364	10		S2BVEM	Sampled						•					•		•		•					
	RHMW06	WL	RHMW06-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-13 08:55 AM	23Q4AP-06	FEDEX	785039398955	10/13/2023		APPL	23J0125	10		S4VEM	Sampled	•								•											
	RHMW06	WL	RHMW06-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-13 08:55 AM	23Q4EN-06	UNITED CARGO	016-50772654	10/16/2023	10/17/2023	ENRB	B23101258	10	10	S2BVEM	Sampled; No SGC															•	•	•		•
	RHMW06	WL	RHMW06-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-13 08:55 AM	23Q4SG-06	UNITED CARGO	016-50772643	10/16/2023	10/17/2023	SGSO	FC10488	10		S2BVEM	Sampled						•					•		•		•					
	RHMW08	WL	RHMW08-WGFD01LF-23Q4	0	0	WG	FD	1	LF	2023-10-11 11:20 AM	23Q4AP-07	FEDEX	784936379124	10/11/2023	10/12/2023	APPL	23J0132	10		S2BVEM	Sampled	•																			
	RHMW08	WL	RHMW08-WGFD01LF-23Q4	0	0	WG	FD	1	LF	2023-10-11 11:20 AM	23Q4EN-07	UNITED CARGO	016-09824253	10/11/2023	10/16/2023	ENRB	B23101127	10	10	S2BVEM	Sampled; No SGC															•	•	•		•
	RHMW08	WL	RHMW08-WGFD01LF-23Q4	0	0	WG	FD	1	LF	2023-10-11 11:20 AM	23Q4SG-07	UNITED CARGO	016-09824231	10/11/2023	10/13/2023	SGSO	FC10442	10		S2BVEM	Sampled						•					•									
	RHMW08	WL	RHMW08-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-11 11:20 AM	23Q4AP-07	FEDEX	784936379124	10/11/2023	10/12/2023	APPL	23J0132	10		S2BVEM	Sampled	•								•											
	RHMW08	WL	RHMW08-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-11 11:20 AM	23Q4EN-07	UNITED CARGO	016-09824253	10/11/2023	10/16/2023	ENRB	B23101127	10	10	S2BVEM	Sampled; No SGC															•	•	•		•
	RHMW08	WL	RHMW08-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-11 11:20 AM	23Q4SG-07	UNITED CARGO	016-09824231	10/11/2023	10/13/2023	SGSO	FC10442	10		S2BVEM	Sampled						•					•		•		•					
	RHMW09	WL	RHMW09-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-12 09:05 AM	23Q4AP-08	FEDEX	784990504379	10/12/2023	10/13/2023	APPL	23J0131	10		S2BVEM	Sampled	•								•											
	RHMW09	WL	RHMW09-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-12 09:05 AM	23Q4EN-08	UNITED CARGO	016-09827160	10/12/2023	10/13/2023	ENRB	B23101113	10	10	S2BVEM	Sampled; No SGC															•	•	•		•
	RHMW09	WL	RHMW09-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-12 09:05 AM	23Q4SG-08	UNITED CARGO	016-09827160	10/12/2023	10/14/2023	SGSO	FC10448	10		S2BVEM	Sampled						•					•		•		•					
	RHMW10	WL	RHMW10-WGFD01LF-23Q4	0	0	WG	FD	1	LF	2023-10-10 12:00 PM	23Q4AP-09	FEDEX	784880425819	10/10/2023	10/11/2023	APPL	23J0116	10		S2BVEM	Sampled	•																			
	RHMW10	WL	RHMW10-WGFD01LF-23Q4	0	0	WG	FD	1	LF	2023-10-10 12:00 PM	23Q4EN-09	UNITED CARGO	016-50961783	10/10/2023	10/11/2023	ENRB	B23100868	10	10	S4VEM	Sampled; No SGC															•		•		•
	RHMW10	WL	RHMW10-WGFD01LF-23Q4	0	0	WG	FD	1	LF	2023-10-10 12:00 PM	23Q4EN-09	UNITED CARGO	016-50961783	10/10/2023	10/11/2023	ENRB	B23100868	10		S2BVEM	Sampled; No SGC																•			
	RHMW10	WL	RHMW10-WGFD01LF-23Q4	0	0	WG	FD	1	LF	2023-10-10 12:00 PM	23Q4SG-09	UNITED CARGO	016-50961772	10/10/2023	10/12/2023	SGSO	FC10364	10		S2BVEM	Sampled						•					•									
	RHMW10	WL	RHMW10-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-10 12:00 PM	23Q4AP-09	FEDEX	784880425819	10/10/2023	10/11/2023	APPL	23J0116	10		S2BVEM	Sampled	•								•											
	RHMW10	WL	RHMW10-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-10 12:00 PM	23Q4EN-09	UNITED CARGO	016-50961783	10/10/2023	10/11/2023	ENRB	B23100868	10	10	S4VEM	Sampled; No SGC															•		•		•
	RHMW10	WL	RHMW10-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-10 12:00 PM	23Q4EN-09	UNITED CARGO	016-50961783	10/10/2023	10/11/2023	ENRB	B23100868	10		S2BVEM	Sampled; No SGC																•			
	RHMW10	WL	RHMW10-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-10 12:00 PM	23Q4SG-09	UNITED CARGO	016-50961772	10/10/2023	10/12/2023	SGSO	FC10364	10		S2BVEM	Sampled						•					•		•		•					
	RHMW13-04	WL	RHMW13-04-WGN01G-23Q4	0	0	WG	N	1	G	2023-10-10 11:20 AM	23Q4AP-12	FEDEX	784990504379	10/12/2023	10/13/2023	APPL	23J0131	10		S2BVEM	Sampled	•								•											
	RHMW13-04	WL	RHMW13-04-WGN01G-23Q4	0	0	WG	N	1	G	2023-10-10 11:20 AM	23Q4EN-12	UNITED CARGO	016-09827160	10/12/2023	10/13/2023	ENRB	B23101113	10	10	S2BVEM	Sampled															•	•	•		•
	RHMW13-04	WL	RHMW13-04-WGN01G-23Q4	0	0	WG	N	1	G	2023-10-10 11:20 AM	23Q4SG-12	UNITED CARGO	016-09824242	10/12/2023	10/14/2023	SGSO	FC10448	10		S2BVEM	Sampled						•					•		•		•					
	RHMW15-05	WL	RHMW15-05-WGN01G-23Q4	0	0	WG	N	1	G	2023-10-11 09:45 AM	23Q4AP-14	FEDEX	784936379124	10/11/2023	10/12/2023	APPL	23J0132	10		S2BVEM	Sampled	•								•											
	RHMW15-05	WL	RHMW15-05-WGN01G-23Q4	0	0	WG	N	1	G	2023-10-11 09:45 AM	23Q4EN-14	UNITED CARGO	016-09824253	10/11/2023	10/16/2023	ENRB	B23101127	10	10	S2BVEM	Sampled; No SGC															•	•	•		•
	RHMW15-05	WL	RHMW15-05-WGN01G-23Q4	0	0	WG	N	1	G	2023-10-11 09:45 AM	23Q4SG-14	UNITED CARGO	016-09824231	10/11/2023	10/13/2023	SGSO	FC10442	10		S2BVEM	Sampled						•					•		•		•					
	RHMW16	WL	RHMW16-WGFD01LF-23Q4	0	0	WG	FD	1	LF	2023-10-12 11:00 AM	23Q4AP-15	FEDEX	784990504379	10/12/2023	10/13/2023	APPL	23J0131	10		S2BVEM	Sampled	•																			
	RHMW16	WL	RHMW16-WGFD01LF-23Q4	0	0	WG	FD	1	LF	2023-10-12 11:00 AM	23Q4EN-15	UNITED CARGO	016-09827160	10/12/2023	10/13/2023	ENRB	B23101113	10	10	S2BVEM	Sampled; No SGC															•		•		•
	RHMW16	WL	RHMW16-WGFD01LF-23Q4	0	0	WG	FD	1	LF	2023-10-12 11:00 AM	23Q4EN-15	UNITED CARGO	016-09827160	10/12/2023	10/13/2023	ENRB	B23101113	10		S4VEM	Sampled; No SGC																•			
	RHMW16	WL	RHMW16-WGFD01LF-23Q4	0	0	WG	FD	1	LF	2023-10-12 11:00 AM	23Q4SG-15	UNITED CARGO	016-09827160	10/12/2023	10/14/2023	SGSO	FC10448	10		S2BVEM	Sampled						•					•									
	RHMW16	WL	RHMW16-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-12 11:00 AM	23Q4AP-15	FEDEX	784990504379	10/12/2023	10/13/2023	APPL	23J0131	10		S2BVEM	Sampled	•								•											
	RHMW16	WL	RHMW16-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-12 11:00 AM	23Q4EN-15	UNITED CARGO	016-09827160	10/12/2023	10/13/2023	ENRB	B23101113	10	10	S2BVEM	Sampled; No SGC															•		•		•
	RHMW16	WL	RHMW16-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-12 11:00 AM	23Q4EN-15	UNITED CARGO	016-09827160	10/12/2023	10/13/2023	ENRB	B23101113	10		S4VEM	Sampled; No SGC																•			
	RHMW16	WL	RHMW16-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-12 11:00 AM	23Q4SG-15	UNITED CARGO	016-09827160	10/12/2023	10/14/2023	SGSO	FC10448	10		S2BVEM	Sampled						•					•		•		•					
	RHMW17	WL	RHMW17-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-11 11:05 AM	23Q4AP-16	FEDEX	784936379124	10/11/2023	10/12/2023	APPL	23J0124	10		S2BVEM	Sampled	•								•											
	RHMW17	WL	RHMW17-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-11 11:05 AM	23Q4EN-16	UNITED CARGO	016-09824253	10/11/2023	10/16/2023	ENRB	B23101127	10	10	S2BVEM	Sampled; No SGC															•		•		•
	RHMW17	WL	RHMW17-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-11 11:05 AM	23Q4EN-16	UNITED CARGO	016-09824253	10/11/2023	10/16/2023	ENRB	B23101127	10		S4VEM	Sampled; No SGC																•			
	RHMW17	WL	RHMW17-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-11 11:05 AM	23Q4SG-16	UNITED CARGO	016-09824231	10/11/2023	10/13/2023	SGSO	FC10442	10		S2BVEM	Sampled						•					•		•		•					
	RHMW19	WL	RHMW19-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-12 11:15 AM	23Q4AP-17	FEDEX	784990504379	10/12/2023	10/13/2023	APPL	23J0131	10		S2BVEM	Sampled	•								•											
	RHMW19	WL	RHMW19-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-12 11:15 AM	23Q4EN-17	UNITED CARGO	016-09827160	10/12/2023	10/13/2023	ENRB	B23101113	10	10	S2BVEM	Sampled; No SGC															•	•	•		•
	RHMW19	WL	RHMW19-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-12 11:15 AM	23Q4SG-17	UNITED CARGO	016-09827160	10/12/2023	10/14/2023	SGSO	FC10448	10		S2BVEM	Sampled						•					•		•		•					
	RHMW20	WL	RHMW20-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-10 11:20 AM	23Q4AP-18	FEDEX	784936327995	10/11/2023	10/12/2023	APPL	23J0132	10		S2BVEM	Sampled; Silica Cancelled	•								•											
	RHMW20	WL	RHMW20-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-10 11:20 AM	23Q4EN-18	UNITED CARGO	016-09824253	10/11/2023	10/16/2023	ENRB	B23101127	10	10	S2BVEM	Sampled; No SGC															•		•	•	
	RHMW20	WL	RHMW20-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-10 11:20 AM	23Q4EN-18	UNITED CARGO	016-09824253	10/11/2023	10/16/2023	ENRB	B23101127	10		S4VEM	Sampled; No SGC																•			

Site	Location	Location Type	Field Sample ID	Begin Depth	End Depth	Matrix	Sample Type	Sample No.	Samp. Method	Sampling Date	Chain of Custody	Shipping Method	Shipment Tracking Number	Laboratory Shipped Date	Laboratory Receipt Date	Lab	SDG	TAT (Days)	Validation TAT (Days)	Review Type	Sampling Status	22MEE (SW8270D)	Alkalinity (A2320B)	Alkalinity Historical (A2320B)	Anions SO4 Cl Br F N (E300)	Anions SO4 Cl N (E300)	BNA SIM SGS 18 Analytes (BNASIME)	DOC (SW9060A)	EDB TC11112 (SW8011)	Ferrous Iron (A3500B)	Metals Ca Na Mg Mn K (SW6010D)	Methane (RSK175)	Nitrate Nitrite (E353.2)	Phenol SGS (SW8270)	Silica (A4500D)	TOC (SW9060A)	TPH Diesel and Oil Energy (SW8015C)	TPH Diesel and Oil Silica Gel Energy (M8015D)	TPH Gasoline Energy (M8015V)	VOCs BTEX and 12DCA Energy (SW8260B)	VOCs BTEX Energy (SW8260B)
	RHMW20	WL	RHMW20-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-10 11:20 AM	23Q4SG-18	UNITED CARGO	016-09824231	10/11/2023	10/13/2023	SGSO	FC10442	10		S2BVEM	Sampled; DOC cancelled						•	•					•			•						
	RHMW2254-01	WL	RHMW2254-01-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-12 03:10 PM	23Q4AP-19	FEDEX	785039398955	10/13/2023	10/14/2023	APPL	23J0127	10		S2BVEM	Sampled	•								•										
	RHMW2254-01	WL	RHMW2254-01-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-12 03:10 PM	23Q4EN-19	UNITED CARGO	016-09827160	10/12/2023	10/13/2023	ENRB	B23101113	10	10	S2BVEM	Sampled															•	•	•		•
	RHMW2254-01	WL	RHMW2254-01-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-12 03:10 PM	23Q4SG-19	UNITED CARGO	016-09827160	10/12/2023	10/14/2023	SGSO	FC10448	10		S2BVEM	Sampled						•					•		•		•				
	RHP01	WL	RHP01-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-09 10:25 AM	23Q4AP-21	FEDEX	784823278946	10/9/2023	10/10/2023	APPL	23J0092	10		S2BVEM	Sampled; Silica Cancelled	•								•					•					
	RHP01	WL	RHP01-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-09 10:25 AM	23Q4EN-21	UNITED CARGO	016-97056341	10/9/2023	10/10/2023	ENRB	B23100745	10	10	S2BVEM	Sampled; No SGC							•								•	•	•	•	
	RHP01	WL	RHP01-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-09 10:25 AM	23Q4SG-21	UNITED CARGO	016-97056330	10/9/2023	10/11/2023	SGSO	FC10327	10		S2BVEM	Sampled; DOC cancelled						•	•				•		•		•				
	RHP02	WL	RHP02-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-13 10:40 AM	23Q4AP-22	FEDEX	785039398955	10/13/2023	10/14/2023	APPL	23J0126	10		S2BVEM	Sampled; Silica Cancelled	•								•					•					
	RHP02	WL	RHP02-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-13 10:40 AM	23Q4EN-22	UNITED CARGO	016-50772654	10/16/2023	10/17/2023	ENRB	B23101258	10	10	S2BVEM	Sampled; No SGC							•								•		•	•	
	RHP02	WL	RHP02-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-13 10:40 AM	23Q4EN-22	UNITED CARGO	016-50772654	10/16/2023	10/17/2023	ENRB	B23101258	10		S4VEM	Sampled; No SGC																•			
	RHP02	WL	RHP02-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-13 10:40 AM	23Q4SG-22	UNITED CARGO	016-50772643	10/16/2023	10/17/2023	SGSO	FC10488	10		S2BVEM	Sampled; DOC cancelled						•	•				•		•		•				
	RHP03	WL	RHP03-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-13 12:20 PM	23Q4AP-23	FEDEX	785039398955	10/13/2023		APPL	23J0125	10		S4VEM	Sampled; Silica Cancelled	•								•										
	RHP03	WL	RHP03-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-13 12:20 PM	23Q4AP-23	FEDEX	785039398955	10/13/2023		APPL	23J0125	10		S2BVEM	Sampled; Silica Cancelled														•					
	RHP03	WL	RHP03-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-13 12:20 PM	23Q4EN-23	UNITED CARGO	016-50772654	10/16/2023	10/17/2023	ENRB	B23101258	10	10	S2BVEM	Sampled; No SGC							•								•	•	•	•	
	RHP03	WL	RHP03-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-13 12:20 PM	23Q4SG-23	UNITED CARGO	016-50772643	10/16/2023	10/17/2023	SGSO	FC10488	10		S2BVEM	Sampled; DOC cancelled						•	•				•		•		•				
	RHP04A	WL	RHP04A-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-12 01:55 PM	23Q4AP-24	FEDEX	785039398955	10/13/2023	10/14/2023	APPL	23J0127	10		S2BVEM	Sampled; Silica Cancelled	•								•					•					
	RHP04A	WL	RHP04A-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-12 01:55 PM	23Q4EN-24	UNITED CARGO	016-09827160	10/12/2023	10/13/2023	ENRB	B23101113	10	10	S2BVEM	Sampled; No SGC							•								•	•	•	•	
	RHP04A	WL	RHP04A-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-12 01:55 PM	23Q4SG-24	UNITED CARGO	016-09827160	10/12/2023	10/14/2023	SGSO	FC10448	10		S2BVEM	Sampled; DOC cancelled						•	•				•		•		•				
	RHP04B	WL	RHP04B-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-12 10:40 AM	23Q4AP-25	FEDEX	785039398955	10/13/2023	10/14/2023	APPL	23J0127	10		S2BVEM	Sampled; Silica Cancelled	•								•					•					
	RHP04B	WL	RHP04B-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-12 10:40 AM	23Q4EN-25	UNITED CARGO	016-09827160	10/12/2023	10/13/2023	ENRB	B23101113	10	10	S2BVEM	Sampled							•								•	•	•	•	
	RHP04B	WL	RHP04B-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-12 10:40 AM	23Q4SG-25	UNITED CARGO	016-09827160	10/12/2023	10/14/2023	SGSO	FC10448	10		S2BVEM	Sampled; DOC cancelled						•	•				•		•		•				
	RHP04C	WL	RHP04C-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-13 09:00 AM	23Q4AP-26	FEDEX	785039398955	10/13/2023	10/14/2023	APPL	23J0126	10		S2BVEM	Sampled; Silica Cancelled	•								•					•					
	RHP04C	WL	RHP04C-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-13 09:00 AM	23Q4EN-26	UNITED CARGO	016-50772654	10/16/2023	10/17/2023	ENRB	B23101258	10	10	S2BVEM	Sampled; No SGC							•								•	•	•	•	
	RHP04C	WL	RHP04C-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-13 09:00 AM	23Q4SG-26	UNITED CARGO	016-50772643	10/16/2023	10/17/2023	SGSO	FC10488	10		S2BVEM	Sampled; DOC cancelled						•	•				•		•		•				
	RHP05	WL	RHP05-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-13 09:30 AM	23Q4AP-27	FEDEX	785039398955	10/13/2023	10/14/2023	APPL	23J0126	10		S2BVEM	Sampled; Silica Cancelled	•								•					•					
	RHP05	WL	RHP05-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-13 09:30 AM	23Q4EN-27	UNITED CARGO	016-50772654	10/16/2023	10/17/2023	ENRB	B23101258	10	10	S2BVEM	Sampled; No SGC							•								•		•	•	
	RHP05	WL	RHP05-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-13 09:30 AM	23Q4EN-27	UNITED CARGO	016-50772654	10/16/2023	10/17/2023	ENRB	B23101258	10		S4VEM	Sampled; No SGC																•			
	RHP05	WL	RHP05-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-13 09:30 AM	23Q4SG-27	UNITED CARGO	016-50772643	10/16/2023	10/17/2023	SGSO	FC10488	10		S2BVEM	Sampled; DOC cancelled						•	•				•		•		•				
	RHP06	WL	RHP06-WGFD01LF-23Q4	0	0	WG	FD	1	LF	2023-10-11 08:45 AM	23Q4AP-30	FEDEX	784936379124	10/11/2023	10/12/2023	APPL	23J0132	10		S2BVEM	Sampled; Silica Cancelled	•								•					•					
	RHP06	WL	RHP06-WGFD01LF-23Q4	0	0	WG	FD	1	LF	2023-10-11 08:45 AM	23Q4EN-30	UNITED CARGO	016-09824253	10/11/2023	10/16/2023	ENRB	B23101127	10	10	S2BVEM	Sampled; No SGC							•								•	•	•	•	
	RHP06	WL	RHP06-WGFD01LF-23Q4	0	0	WG	FD	1	LF	2023-10-11 08:45 AM	23Q4SG-30	UNITED CARGO	016-09824231	10/11/2023	10/13/2023	SGSO	FC10442	10		S2BVEM	Sampled						•					•								
	RHP06	WL	RHP06-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-11 08:45 AM	23Q4AP-30	FEDEX	784936379124	10/11/2023	10/12/2023	APPL	23J0132	10		S2BVEM	Sampled; Silica Cancelled	•								•					•					
	RHP06	WL	RHP06-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-11 08:45 AM	23Q4EN-30	UNITED CARGO	016-09824253	10/11/2023	10/16/2023	ENRB	B23101127	10	10	S2BVEM	Sampled; No SGC							•								•	•	•	•	
	RHP06	WL	RHP06-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-11 08:45 AM	23Q4SG-30	UNITED CARGO	016-09824231	10/11/2023	10/13/2023	SGSO	FC10442	10		S2BVEM	Sampled; DOC cancelled						•	•				•		•		•				
	RHP07	WL	RHP07-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-10 09:30 AM	23Q4AP-28	FEDEX	784880425819	10/10/2023	10/11/2023	APPL	23J0098	10		S2BVEM	Sampled; Silica Cancelled	•								•					•					
	RHP07	WL	RHP07-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-10 09:30 AM	23Q4EN-28	UNITED CARGO	016-50961783	10/10/2023	10/11/2023	ENRB	B23100868	10	10	S4VEM	Sampled; No SGC							•								•		•	•	
	RHP07	WL	RHP07-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-10 09:30 AM	23Q4EN-28	UNITED CARGO	016-50961783	10/10/2023	10/11/2023	ENRB	B23100868	10		S2BVEM	Sampled; No SGC																•			
	RHP07	WL	RHP07-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-10 09:30 AM	23Q4SG-28	UNITED CARGO	016-50961772	10/10/2023	10/12/2023	SGSO	FC10364	10		S2BVEM	Sampled; DOC cancelled						•	•				•		•		•				
	RHP08	WL	RHP08-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-11 08:50 AM	23Q4AP-33	FEDEX	784936379124	10/11/2023	10/12/2023	APPL	23J0132	10		S2BVEM	Sampled; Silica Cancelled	•								•					•					
	RHP08	WL	RHP08-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-11 08:50 AM	23Q4EN-33	UNITED CARGO	016-09824253	10/11/2023	10/16/2023	ENRB	B23101127	10	10	S2BVEM	Sampled; No SGC							•								•	•	•	•	
	RHP08	WL	RHP08-WGN01LF-23Q4	0	0	WG	N	1	LF	2023-10-11 08:50 AM	23Q4SG-33	UNITED CARGO	016-09824231	10/11/2023	10/13/2023	SGSO	FC10442	10		S2BVEM	Sampled; DOC cancelled						•	•				•		•		•				
																					S4VEM Count	***4***	***5***	***5***	***0***	***5***	***0***	***0***	***2***	***4***	***0***	***0***	***5***	***0***	***1***	***0***	***4***	***7***	***4***	***2***	***2***
																					S2BVEM Count	***32***	***27***	***27***	***3***	***24***	***36***	***16***	***16***	***28***	***3***	***32***	***27***	***36***	***15***	***32***	***32***	***29***	***32***	***15***	***17***
																					Site Location Count	***36***	***32***	***32***	***3***	***29***	***36***	***16***	***18***	***32***	***3***	***32***	***32***	***36***	***16***	***32***	***36***	***36***	***36***	***17***	***19***
																					Total Location Count	***42***	***37***	***37***	***3***	***34***	***41***	***17***	***20***	***37***	***3***	***37***	***37***	***41***	***17***	***37***	***41***	***41***	***41***	***18***	***23***

Note: This event has missing samples in Event Management that are Field QC ONLY. Please refer to the Unplanned Field Samples report to view these samples.

Status Q4 LTM.xlsx	Color
Matrix Name	Matrix
Sampling Method	Code
Laboratory Name	Laboratory Code
Location Type	Code

Site	Location	Location Type	Field Sample ID	Begin Depth	End Depth	Matrix	Sample Type	Sample No.	Samp. Method	Sampling Date	Chain of Custody	Shipping Method	Shipment Tracking Number	Laboratory Shipped Date	Laboratory Receipt Date	Lab	SDG	TAT (Days)	Validation TAT (Days)	Review Type	Sampling Status	22MEE (SW8270D)	Alkalinity (A2320B)	Alkalinity Historical (A2320B)	Anions SO4 Cl Br F N (E300)	Anions SO4 Cl N (E300)	BNA SIM SGS 18 Analytes (BNASIME)	DOC (SW9060A)	EDB TC1112 (SW8011)	Ferrous Iron (A3500B)	Metals Ca Na Mg Mn K (SW6010D)	Methane (RSK175)	Nitrate Nitrite (E353.2)	Phenol SGS (SW8270)	Silica (A4500D)	TOC (SW9060A)	TPH Diesel and Oil Energy (SW8015C)	TPH Diesel and Oil Silica Gel Energy (M8015D)	TPH Gasoline Energy (M8015V)	VOCs BTEX and 12DCA Energy (SW8260B)	VOCs BTEX Energy (SW8260B)
Status Not Determined			Ground Water	WG		Grab		G		Agriculture & Priority Pollutants Laboratories, Inc.	APPL	Well	WL																													
Scheduled for Analysis; Awaiting Field Data						Low-Flow (Slow Purge) Groundwater Pumping		LF		Energy Lab, Inc., Billings, MT	ENRB																													
Chain of Custody Data Loaded and Certified; Awaiting Lab Data										SGS North America, Inc., Orlando, FL	SGSO																													
Laboratory Data Loaded and Certified; Awaiting Validation																																								
Validation Qualifiers Finalized; Awaiting Approval																																								
Approval Complete; Data In Production																																								

Event Status Report
RH Consolidated Groundwater Program
RHS CGW UFP-QAPP

Event Name: Monthly 2023 October

Event ID: 1117

Site	Location	Location Type	Field Sample ID	Begin Depth	End Depth	Matrix	Sample Type	Sample No.	Samp. Method	Sampling Date	Chain of Custody	Shipping Method	Shipment Tracking Number	Laboratory Shipped Date	Laboratory Receipt Date	Lab	SDG	TAT (Days)	Validation TAT (Days)	Review Type	Sampling Status	BNA SIM SGS 18 Analytes (BNASIME)	EDB TC1112 (SW8011)	Methane (RSK175)	NPOC (SW9060A)	Phenol SGS (SW8270)	TOC (SW9060A)	TPH Diesel and Oil SGS (SW8015C)	TPH Diesel and Oil Silica Gel EU SGS (M8015D)	TPH Gasoline SGS (M8015V)	VOCs BTEX and 12DCA SGS (SW8260D)	VOCs BTEX SGS (SW8260D)
Aiea	NMW24	WL	NMW24-WGN01LF-2310	0	0	WG	N	1	LF	2023-10-02 10:20 AM	2310AL-20	FEDEX	784582920561	10/3/2023	10/4/2023	ALGK	K2311233	10	10	S2BVEM	Sampled				•		•					
	NMW24	WL	NMW24-WGN01LF-2310	0	0	WG	N	1	LF	2023-10-02 10:20 AM	2310EN-20	UNITED CARGO	016-97048744	10/3/2023	10/4/2023	ENRB	B23100338	10	10	S4VEM	Sampled		•									
	NMW24	WL	NMW24-WGN01LF-2310	0	0	WG	N	1	LF	2023-10-02 10:20 AM	2310SG-20	UNITED CARGO	016-50915582	10/2/2023	10/4/2023	SGSO	FC10161	10	10	S4VEM	Sampled; No SGC	•		•		•		•	•	•	•	
																					S4VEM Count	***1***	***1***	***1***	***0***	***1***	***0***	***1***	***1***	***1***	***1***	***0***
																					S2BVEM Count	***0***	***0***	***0***	***1***	***0***	***1***	***0***	***0***	***0***	***0***	***0***
																					Site Location Count	***1***	***1***	***1***	***1***	***1***	***1***	***1***	***1***	***1***	***1***	***0***
Halawa Correctional Facility	HDMW2253-03	WL	HDMW2253-03-WGN01LF-2310	0	0	WG	N	2	LF	2023-10-03 10:10 AM	2310AL-29	FEDEX	784582920561	10/3/2023	10/4/2023	ALGK	K2311233	10	10	S2BVEM	Sampled				•		•					
	HDMW2253-03	WL	HDMW2253-03-WGN01LF-2310	0	0	WG	N	2	LF	2023-10-03 10:10 AM	2310SG-29	UNITED CARGO	016-50918582	10/3/2023	10/5/2023	SGSO	FC10202	10	10	S2BVEM	Sampled; No SGC	•		•		•		•	•	•		•
	RHMW11-05	WL	RHMW11-05-WGN01G-2310	0	0	WG	N	1	G	2023-10-02 01:15 PM	2310AL-10	FEDEX	784582920561	10/3/2023	10/4/2023	ALGK	K2311233	10	10	S2BVEM	Sampled				•		•					
	RHMW11-05	WL	RHMW11-05-WGN01G-2310	0	0	WG	N	1	G	2023-10-02 01:15 PM	2310SG-10	UNITED CARGO	016-50918582	10/3/2023	10/5/2023	SGSO	FC10202	10	10	S2BVEM	Sampled; No SGC	•		•		•		•	•	•		•
	RHMW12A	WL	RHMW12A-WGN01LF-2310	0	0	WG	N	1	LF	2023-10-03 12:40 PM	2310EN-11	UNITED CARGO	016-97048744	10/3/2023	10/4/2023	ENRB	B23100338	10	10	S4VEM	Sampled		•									
	RHMW12A	WL	RHMW12A-WGN01LF-2310	0	0	WG	N	1	LF	2023-10-03 12:40 PM	2310SG-11	UNITED CARGO	016-50918582	10/3/2023	10/5/2023	SGSO	FC10202	10	10	S2BVEM	Sampled; No SGC	•		•		•		•	•	•		•
	RHMW14-03	WL	RHMW14-03-WGN01G-2310	0	0	WG	N	1	G	2023-10-02 10:00 AM	2310AL-13	FEDEX	784582920561	10/3/2023	10/4/2023	ALGK	K2311233	10	10	S2BVEM	Sampled				•		•					
	RHMW14-03	WL	RHMW14-03-WGN01G-2310	0	0	WG	N	1	G	2023-10-02 10:00 AM	2310SG-13	UNITED CARGO	016-50918582	10/3/2023	10/5/2023	SGSO	FC10202	10	10	S2BVEM	Sampled; No SGC	•		•		•		•	•	•		•
	S2BVEM Count																					***4***	***0***	***4***	***4***	***4***	***4***	***4***	***4***	***4***	***0***	***4***
	S4VEM Count																					***0***	***1***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
	Site Location Count																					***4***	***1***	***4***	***4***	***4***	***4***	***4***	***4***	***4***	***0***	***4***
Red Hill Bulk Fuel Storage Facility	NMW25	WL	NMW25-WGN01LF-2310	0	0	WG	N	1	LF	2023-10-02 12:55 PM	2310AL-31	FEDEX	784582920561	10/3/2023	10/4/2023	ALGK	K2311233	10	10	S2BVEM	Sampled				•		•					
	NMW25	WL	NMW25-WGN01LF-2310	0	0	WG	N	1	LF	2023-10-02 12:55 PM	2310EN-31	UNITED CARGO	016-97048744	10/3/2023	10/4/2023	ENRB	B23100338	10	10	S4VEM	Sampled		•									
	NMW25	WL	NMW25-WGN01LF-2310	0	0	WG	N	1	LF	2023-10-02 12:55 PM	2310SG-31	UNITED CARGO	016-50915582	10/2/2023	10/4/2023	SGSO	FC10161	10	10	S4VEM	Sampled; No SGC	•		•		•		•	•	•	•	
	NMW32	WL	NMW32-WGN01LF-2310	0	0	WG	N	1	LF	2023-10-03 09:00 AM	2310AL-32	FEDEX	784582920561	10/3/2023	8/31/2023	ALGK	K2311233	10	10	S2BVEM	Sampled				•		•					
	NMW32	WL	NMW32-WGN01LF-2310	0	0	WG	N	1	LF	2023-10-03 09:00 AM	2310EN-32	UNITED CARGO	016-97048744	10/3/2023	10/4/2023	ENRB	B23100338	10	10	S4VEM	Sampled		•									
	NMW32	WL	NMW32-WGN01LF-2310	0	0	WG	N	1	LF	2023-10-03 09:00 AM	2310SG-32	UNITED CARGO	016-50918582	10/3/2023	10/5/2023	SGSO	FC10202	10	10	S2BVEM	Sampled; No SGC	•		•		•		•	•	•	•	
	NMW33	WL	NMW33-WGN01LF-2310	0	0	WG	N	1	LF	2023-10-03 01:15 PM	2310EN-34	UNITED CARGO	016-97048744	10/3/2023	10/4/2023	ENRB	B23100338	10	10	S4VEM	Sampled		•									
	NMW33	WL	NMW33-WGN01LF-2310	0	0	WG	N	1	LF	2023-10-03 01:15 PM	2310SG-34	UNITED CARGO	016-50918582	10/3/2023	10/5/2023	SGSO	FC10202	10	10	S2BVEM	Sampled; No SGC	•		•		•		•	•	•	•	
	RHP05	WL	RHP05-WGN01LF-2310	0	0	WG	N	1	LF	2023-10-02 01:25 PM	2310AL-27	FEDEX	784582920561	10/3/2023	10/4/2023	ALGK	K2311233	10	10	S2BVEM	Sampled				•		•					
	RHP05	WL	RHP05-WGN01LF-2310	0	0	WG	N	1	LF	2023-10-02 01:25 PM	2310EN-27	UNITED CARGO	016-97048744	10/3/2023	10/4/2023	ENRB	B23100338	10	10	S4VEM	Sampled		•									
	RHP05	WL	RHP05-WGN01LF-2310	0	0	WG	N	1	LF	2023-10-02 01:25 PM	2310SG-27	UNITED CARGO	016-50915582	10/2/2023	10/4/2023	SGSO	FC10161	10	10	S4VEM	Sampled; No SGC	•		•		•		•	•	•	•	
	RHP06	WL	RHP06-WGFD01LF-2310	0	0	WG	FD	1	LF	2023-10-02 10:35 AM	2310SG-30	UNITED CARGO	016-50915582	10/2/2023	10/4/2023	SGSO	FC10161	10	10	S4VEM	Sampled; No SGC	•				•		•	•	•	•	
	RHP06	WL	RHP06-WGN01LF-2310	0	0	WG	N	1	LF	2023-10-02 10:35 AM	2310AL-30	FEDEX	784582920561	10/3/2023	10/4/2023	ALGK	K2311233	10	10	S2BVEM	Sampled				•		•					
	RHP06	WL	RHP06-WGN01LF-2310	0	0	WG	N	1	LF	2023-10-02 10:35 AM	2310EN-30	UNITED CARGO	016-97048744	10/3/2023	10/4/2023	ENRB	B23100338	10	10	S4VEM	Sampled		•									
	RHP06	WL	RHP06-WGN01LF-2310	0	0	WG	N	1	LF	2023-10-02 10:35 AM	2310SG-30	UNITED CARGO	016-50915582	10/2/2023	10/4/2023	SGSO	FC10161	10	10	S4VEM	Sampled; No SGC	•		•		•		•	•	•	•	

Site	Location	Location Type	Field Sample ID	Begin Depth	End Depth	Matrix	Sample Type	Sample No.	Samp. Method	Sampling Date	Chain of Custody	Shipping Method	Shipment Tracking Number	Laboratory Shipped Date	Laboratory Receipt Date	Lab	SDG	TAT (Days)	Validation TAT (Days)	Review Type	Sampling Status	BNA SIM SGS 18 Analytes (BNASIME)	EDB TC1112 (SW8011)	Methane (RSK175)	NPOC (SW9060A)	Phenol SGS (SW8270)	TOC (SW9060A)	TPH Diesel and Oil SGS (SW8015C)	TPH Diesel and Oil Silica Gel EU SGS (M8015D)	TPH Gasoline SGS (M8015V)	VOCs BTEX and 12DCA SGS (SW8260D)	VOCs BTEX SGS (SW8260D)
	RHP08	WL	RHP08-WGN01LF-2310	0	0	WG	N	1	LF	2023-10-03 11:25 AM	2310EN-33	UNITED CARGO	016-97048744	10/3/2023	10/4/2023	ENRB	B23100338	10	10	S4VEM	Sampled		•									
	RHP08	WL	RHP08-WGN01LF-2310	0	0	WG	N	1	LF	2023-10-03 11:25 AM	2310SG-33	UNITED CARGO	016-50918582	10/3/2023	10/5/2023	SGSO	FC10202	10	10	S2BVEM	Sampled; No SGC	•		•		•		•	•	•	•	
	S4VEM Count																					***4***	***6***	***3***	***0***	***4***	***0***	***4***	***4***	***4***	***4***	***0***
	S2BVEM Count																					***29***	***10***	***26***	***30***	***30***	***30***	***29***	***29***	***29***	***13***	***16***
	Site Location Count																					***33***	***16***	***29***	***30***	***34***	***30***	***33***	***33***	***33***	***17***	***16***
	Total Location Count																					***38***	***18***	***34***	***35***	***39***	***35***	***38***	***38***	***38***	***18***	***20***

Note: This event has missing samples in Event Management. Please refer to the Unplanned Field Samples report to identify the remaining samples that have not been planned yet.

Status	Color
Status Not Determined	
Scheduled for Analysis; Awaiting Field Data	
Chain of Custody Data Loaded and Certified; Awaiting Lab Data	
Laboratory Data Loaded and Certified; Awaiting Validation	
Validation Qualifiers Finalized; Awaiting Approval	
Approval Complete; Data In Production	

Matrix Name	Matrix
Ground Water	WG

Sampling Method	Code
Grab	G
Low-Flow (Slow Purge) Groundwater Pumping	LF

Laboratory Name	Laboratory Code
ALS Laboratory Group, Kelso,	ALGK
Energy Lab, Inc., Billings, MT	ENRB
SGS North America, Inc., Orlando, FL	SGSO

Location Type	Code
Well	WL

Event Status Report
RH Consolidated Groundwater Program
RHS CGW UFP-QAPP

Event Name: Defueling 2023 October

Event ID: 2121

Site	Location	Location Type	Field Sample ID	Begin Depth	End Depth	Matrix	Sample Type	Sample No.	Samp. Method	Sampling Date	Chain of Custody	Shipping Method	Shipment Tracking Number	Laboratory Shipped Date	Laboratory Receipt Date	Lab	SDG	TAT (Days)	Validation TAT (Days)	Review Type	Sampling Status	22MEE (SW8270D)	BNA SIM SGS 18 Analytes (BNASIME)	BNA SIM SGS 3 NAPHs (BNASIME)	EDB SGS (SW8011)	Phenol SGS (SW8270)	TPH Diesel and Oil SGS (SW8015C)	TPH Diesel and Oil Silica Gel EU SGS (M8015D)	TPH Gasoline SGS (M8015V)	VOCs BTEX and 12DCA SGS (SW8260D)
Halawa Correctional Facility	RHMW11-05	WL	RHMW11-05-WGN01G-2310WK4-DF	0	0	WG	N	1	G	2023-10-24 12:20 PM	2310W4DFAP12	UNITED CARGO	016-69927445	10/24/2023	10/25/2023	APPL	23J0262	10	10	S4VEM	Sampled	•								
	RHMW11-05	WL	RHMW11-05-WGN01G-2310WK4-DF	0	0	WG	N	1	G	2023-10-24 12:20 PM	2310W4DFSG12	UNITED CARGO	016-51082124	10/24/2023	10/26/2023	SGSO	FC10716	10	10	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
	RHMW11-05	WL	RHMW11-05-WGN01G-2310WK5-DF	0	0	WG	N	1	G	2023-10-30 12:50 PM	2310W5DFAP12	UNITED CARGO	016-45870473	10/30/2023	10/31/2023	APPL	23J0325	10	10	S2BVEM	Sampled	•								
	RHMW11-05	WL	RHMW11-05-WGN01G-2310WK5-DF	0	0	WG	N	1	G	2023-10-30 12:50 PM	2310W5DFSG12	UNITED CARGO	016-45870436	10/30/2023	10/31/2023	SGSO	FC10844	10	10	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
	RHMW14-03	WL	RHMW14-03-WGN01G-2310WK4-DF	0	0	WG	N	1	G	2023-10-24 09:00 AM	2310W4DFAP14	UNITED CARGO	016-69927445	10/24/2023	10/25/2023	APPL	23J0262	10	10	S4VEM	Sampled	•								
	RHMW14-03	WL	RHMW14-03-WGN01G-2310WK4-DF	0	0	WG	N	1	G	2023-10-24 09:00 AM	2310W4DFSG14	UNITED CARGO	016-51082124	10/24/2023	10/26/2023	SGSO	FC10716	10	10	S2BVEM	Sampled		•		•	•	•	•	•	•
	RHMW14-03	WL	RHMW14-03-WGN01G-2310WK5-DF	0	0	WG	N	1	G	2023-10-30 09:10 AM	2310W5DFAP14	UNITED CARGO	016-45870473	10/30/2023	10/31/2023	APPL	23J0325	10	10	S2BVEM	Sampled	•								
	RHMW14-03	WL	RHMW14-03-WGN01G-2310WK5-DF	0	0	WG	N	1	G	2023-10-30 09:10 AM	2310W5DFSG14	UNITED CARGO	016-45870436	10/30/2023	10/31/2023	SGSO	FC10844	10	10	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
																					S4VEM Count	***2***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
																					S2BVEM Count	***2***	***4***	***0***	***4***	***4***	***4***	***4***	***4***	***4***
																					Site Location Count	***4***	***4***	***0***	***4***	***4***	***4***	***4***	***4***	***4***
	RHMW01R	WL	RHMW01R-WGN01LF-2310WK3-DF	0	0	WG	N	1	LF	2023-10-17 10:05 AM	2310W3DFSG01	UNITED CARGO	016-49999095	10/17/2023	10/18/2023	SGSO	FC10534	10	10	S2BVEM	Sampled			•			•	•		
	RHMW01R	WL	RHMW01R-WGN01LF-2310WK4-DF	0	0	WG	N	1	LF	2023-10-24 10:30 AM	2310W4DFSG01	UNITED CARGO	016-51082124	10/24/2023	10/26/2023	SGSO	FC10716	10	10	S2BVEM	Sampled			•			•	•		
	RHMW01R	WL	RHMW01R-WGN01LF-2310WK5-DF	0	0	WG	N	1	LF	2023-10-31 11:35 AM	2310W5DFSG01	UNITED CARGO	016-45864453	10/31/2023	11/1/2023	SGSO	FC10882	10	10	S2BVEM	Sampled			•			•	•		
	RHMW02	WL	RHMW02-WGFD01LF-2310WK3-DF	0	0	WG	FD	1	LF	2023-10-20 09:50 AM	2310W3DFSG07	UNITED CARGO	016-49998981	10/20/2023	10/21/2023	SGSO	FC10638	10	10	S2BVEM	Sampled			•			•	•		
	RHMW02	WL	RHMW02-WGFD01LF-2310WK4-DF	0	0	WG	FD	1	LF	2023-10-27 09:10 AM	2310W4DFSG07	UNITED CARGO	016-98502224	10/27/2023	10/28/2023	SGSO	FC10809	10	10	S2BVEM	Sampled			•			•	•		
	RHMW02	WL	RHMW02-WGFD01LF-2310WK5-DF	0	0	WG	FD	1	LF	2023-11-03 08:55 AM	2310W5DFSG07	UNITED CARGO	016-50426235	11/3/2023	11/5/2023	SGSO	FC10974	10	10	S2BVEM	Sampled			•			•	•		
	RHMW02	WL	RHMW02-WGN01LF-2310WK3-DF	0	0	WG	N	1	LF	2023-10-20 09:50 AM	2310W3DFSG07	UNITED CARGO	016-49998981	10/20/2023	10/21/2023	SGSO	FC10638	10	10	S2BVEM	Sampled			•			•	•		
	RHMW02	WL	RHMW02-WGN01LF-2310WK4-DF	0	0	WG	N	1	LF	2023-10-27 09:10 AM	2310W4DFSG07	UNITED CARGO	016-98502224	10/27/2023	10/28/2023	SGSO	FC10809	10	10	S2BVEM	Sampled			•			•	•		
	RHMW02	WL	RHMW02-WGN01LF-2310WK5-DF	0	0	WG	N	1	LF	2023-11-03 08:55 AM	2310W5DFSG07	UNITED CARGO	016-50426235	11/3/2023	11/5/2023	SGSO	FC10974	10	10	S2BVEM	Sampled			•			•	•		
	RHMW03	WL	RHMW03-WGN01LF-2310WK3-DF	0	0	WG	N	1	LF	2023-10-20 11:25 AM	2310W3DFSG06	UNITED CARGO	016-49998981	10/20/2023	10/21/2023	SGSO	FC10638	10	10	S2BVEM	Sampled; No SGC			•			•	•		
	RHMW03	WL	RHMW03-WGN01LF-2310WK4-DF	0	0	WG	N	1	LF	2023-10-27 01:00 PM	2310W4DFSG06	UNITED CARGO	016-98502224	10/27/2023	10/28/2023	SGSO	FC10809	10	10	S2BVEM	Sampled; No SGC			•			•	•		
	RHMW03	WL	RHMW03-WGN01LF-2310WK5-DF	0	0	WG	N	1	LF	2023-11-03 09:50 AM	2310W5DFSG06	UNITED CARGO	016-50426235	11/3/2023	11/5/2023	SGSO	FC10974	10	10	S2BVEM	Sampled; No SGC			•			•	•		
	RHMW04	WL	RHMW04-WGN01LF-2310WK4-DF	0	0	WG	N	1	LF	2023-10-23 08:55 AM	2310W4DFAP08	UNITED CARGO	016-95065261	10/23/2023	10/24/2023	APPL	23J0260	10	10	S2BVEM	Sampled	•								
	RHMW04	WL	RHMW04-WGN01LF-2310WK4-DF	0	0	WG	N	1	LF	2023-10-23 08:55 AM	2310W4DFSG08	UNITED CARGO	016-95065250	10/23/2023	10/24/2023	SGSO	FC10676	10	10	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
	RHMW04	WL	RHMW04-WGN01LF-2310WK5-DF	0	0	WG	N	1	LF	2023-10-30 09:20 AM	2310W5DFAP08	UNITED CARGO	016-45870473	10/30/2023	10/31/2023	APPL	23J0325	10	10	S2BVEM	Sampled	•								
	RHMW04	WL	RHMW04-WGN01LF-2310WK5-DF	0	0	WG	N	1	LF	2023-10-30 09:20 AM	2310W5DFSG08	UNITED CARGO	016-45870436	10/30/2023	10/31/2023	SGSO	FC10844	10	10	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
	RHMW05	WL	RHMW05-WGN01LF-2310WK3-DF	0	0	WG	N	1	LF	2023-10-17 10:50 AM	2310W3DFSG05	UNITED CARGO	016-49999095	10/17/2023	10/18/2023	SGSO	FC10534	10	10	S2BVEM	Sampled; No SGC			•			•	•		
	RHMW05	WL	RHMW05-WGN01LF-2310WK4-DF	0	0	WG	N	1	LF	2023-10-24 11:00 AM	2310W4DFSG05	UNITED CARGO	016-51082124	10/24/2023	10/26/2023	SGSO	FC10716	10	10	S2BVEM	Sampled; No SGC			•			•	•		
	RHMW05	WL	RHMW05-WGN01LF-2310WK5-DF	0	0	WG	N	1	LF	2023-10-31 10:25 AM	2310W5DFSG05	UNITED CARGO	016-45864453	10/31/2023	11/1/2023	SGSO	FC10882	10	10	S2BVEM	Sampled; No SGC			•			•	•		
	RHMW06	WL	RHMW06-WGN01LF-2310WK4-DF	0	0	WG	N	1	LF	2023-10-23 10:30 AM	2310W4DFAP09	UNITED CARGO	016-95065261	10/23/2023	10/24/2023	APPL	23J0260	10	10	S2BVEM	Sampled	•								
	RHMW06	WL	RHMW06-WGN01LF-2310WK4-DF	0	0	WG	N	1	LF	2023-10-23 10:30 AM	2310W4DFSG09	UNITED CARGO	016-95065250	10/23/2023	10/24/2023	SGSO	FC10676	10	10	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
	RHMW06	WL	RHMW06-WGN01LF-2310WK5-DF	0	0	WG	N	1	LF	2023-10-30 10:55 AM	2310W5DFAP09	UNITED CARGO	016-45870473	10/30/2023	10/31/2023	APPL	23J0325	10	10	S2BVEM	Sampled	•								
	RHMW06	WL	RHMW06-WGN01LF-2310WK5-DF	0	0	WG	N	1	LF	2023-10-30 10:55 AM	2310W5DFSG09	UNITED CARGO	016-45870436	10/30/2023	10/31/2023	SGSO	FC10844	10	10	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
	RHMW08	WL	RHMW08-WGN01LF-2310WK3-DF	0	0	WG	N	1	LF	2023-10-18 09:35 AM	2310W3DFSG04	UNITED CARGO	016-49999084	10/18/2023	10/19/2023	SGSO	FC10572	10	10	S2BVEM	Sampled; No SGC			•			•	•		

Event Status Report
RH Consolidated Groundwater Program
RHS CGW UFP-QAPP

Red Hill Bulk Fuel Storage Facility

RHMW08	WL	RHMW08-WGN01LF-2310WK4-DF	0	0	WG	N	1	LF	2023-10-25 11:35 AM	2310W4DFSG04	UNITED CARGO	016-98557255	10/25/2023	10/26/2023	SGSO	FC10745	10	10	S2BVEM	Sampled; No SGC			•			•	•			
RHMW08	WL	RHMW08-WGN01LF-2310WK5-DF	0	0	WG	N	1	LF	2023-11-01 10:50 AM	2310W5DFSG04	UNITED CARGO	016-50417356	11/1/2023	11/2/2023	SGSO	FC10911	10	10	S2BVEM	Sampled; No SGC			•			•	•			
RHMW09	WL	RHMW09-WGN01LF-2310WK4-DF	0	0	WG	N	1	LF	2023-10-24 09:45 AM	2310W4DFAP10	UNITED CARGO	016-69927445	10/24/2023	10/25/2023	APPL	23J0262	10	10	S4VEM	Sampled	•									
RHMW09	WL	RHMW09-WGN01LF-2310WK4-DF	0	0	WG	N	1	LF	2023-10-24 09:45 AM	2310W4DFSG10	UNITED CARGO	016-51082124	10/24/2023	10/26/2023	SGSO	FC10716	10	10	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•	
RHMW09	WL	RHMW09-WGN01LF-2310WK5-DF	0	0	WG	N	1	LF	2023-10-30 09:25 AM	2310W5DFAP10	UNITED CARGO	016-45870473	10/30/2023	10/31/2023	APPL	23J0325	10	10	S2BVEM	Sampled	•									
RHMW09	WL	RHMW09-WGN01LF-2310WK5-DF	0	0	WG	N	1	LF	2023-10-30 09:25 AM	2310W5DFSG10	UNITED CARGO	016-45870436	10/30/2023	10/31/2023	SGSO	FC10844	10	10	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•	
RHMW10	WL	RHMW10-WGN01LF-2310WK4-DF	0	0	WG	N	1	LF	2023-10-26 11:15 AM	2310W4DFAP11	UNITED CARGO	016-98516865	10/26/2023	10/27/2023	APPL	23J0296	10	10	S2BVEM	Sampled	•									
RHMW10	WL	RHMW10-WGN01LF-2310WK4-DF	0	0	WG	N	1	LF	2023-10-26 11:15 AM	2310W4DFSG11	UNITED CARGO	016-98502235	10/26/2023	10/27/2023	SGSO	FC10788	10	10	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•	
RHMW10	WL	RHMW10-WGN01LF-2310WK5-DF	0	0	WG	N	1	LF	2023-10-31 09:15 AM	2310W5DFAP11	FEDEX	785791783052	10/31/2023	11/1/2023	APPL	23K0001	10	10	S2BVEM	Sampled	•									
RHMW10	WL	RHMW10-WGN01LF-2310WK5-DF	0	0	WG	N	1	LF	2023-10-31 09:15 AM	2310W5DFSG11	UNITED CARGO	016-45864453	10/31/2023	11/1/2023	SGSO	FC10882	10	10	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•	
RHMW13-04	WL	RHMW13-04-WGN01G-2310WK4-DF	0	0	WG	N	1	G	2023-10-25 09:30 AM	2310W4DFAP13	UNITED CARGO	016-98557266	10/25/2023	10/26/2023	APPL	23J0280	10	10	S2BVEM	Sampled	•									
RHMW13-04	WL	RHMW13-04-WGN01G-2310WK4-DF	0	0	WG	N	1	G	2023-10-25 09:30 AM	2310W4DFSG13	UNITED CARGO	016-98557255	10/25/2023	10/26/2023	SGSO	FC10745	10	10	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•	
RHMW13-04	WL	RHMW13-04-WGN01G-2310WK5-DF	0	0	WG	N	1	G	2023-10-31 11:05 AM	2310W5DFAP13	FEDEX	785791783052	10/31/2023	11/1/2023	APPL	23K0001	10	10	S2BVEM	Sampled	•									
RHMW13-04	WL	RHMW13-04-WGN01G-2310WK5-DF	0	0	WG	N	1	G	2023-10-31 11:05 AM	2310W5DFSG13	UNITED CARGO	016-45864453	10/31/2023	11/1/2023	SGSO	FC10882	10	10	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•	
RHMW15-05	WL	RHMW15-05-WGN01G-2310WK4-DF	0	0	WG	N	1	G	2023-10-23 09:30 AM	2310W4DFAP15	UNITED CARGO	016-95065261	10/23/2023	10/24/2023	APPL	23J0260	10	10	S2BVEM	Sampled	•									
RHMW15-05	WL	RHMW15-05-WGN01G-2310WK4-DF	0	0	WG	N	1	G	2023-10-23 09:30 AM	2310W4DFSG15	UNITED CARGO	016-95065250	10/23/2023	10/24/2023	SGSO	FC10676	10	10	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•	
RHMW15-05	WL	RHMW15-05-WGN01G-2310WK5-DF	0	0	WG	N	1	G	2023-11-01 09:00 AM	2310W5DFAP15	FEDEX	785841029536	11/1/2023	11/2/2023	APPL	23K0012	10	10	S2BVEM	Sampled	•									
RHMW15-05	WL	RHMW15-05-WGN01G-2310WK5-DF	0	0	WG	N	1	G	2023-11-01 09:00 AM	2310W5DFSG15	UNITED CARGO	016-50417356	11/1/2023	11/2/2023	SGSO	FC10911	10	10	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•	
RHMW16	WL	RHMW16-WGN01LF-2310WK4-DF	0	0	WG	N	1	LF	2023-10-26 09:05 AM	2310W4DFAP16	UNITED CARGO	016-98516865	10/26/2023	10/27/2023	APPL	23J0296	10	10	S2BVEM	Sampled	•									
RHMW16	WL	RHMW16-WGN01LF-2310WK4-DF	0	0	WG	N	1	LF	2023-10-26 09:05 AM	2310W4DFSG16	UNITED CARGO	016-98502235	10/26/2023	10/27/2023	SGSO	FC10788	10	10	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•	
RHMW16	WL	RHMW16-WGN01LF-2310WK5-DF	0	0	WG	N	1	LF	2023-10-31 11:55 AM	2310W5DFAP16	FEDEX	785791783052	10/31/2023	11/1/2023	APPL	23K0001	10	10	S2BVEM	Sampled	•									
RHMW16	WL	RHMW16-WGN01LF-2310WK5-DF	0	0	WG	N	1	LF	2023-10-31 11:55 AM	2310W5DFSG16	UNITED CARGO	016-45864453	10/31/2023	11/1/2023	SGSO	FC10882	10	10	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•	
RHMW17	WL	RHMW17-WGN01LF-2310WK4-DF	0	0	WG	N	1	LF	2023-10-25 09:55 AM	2310W4DFAP17	UNITED CARGO	016-98557266	10/25/2023	10/26/2023	APPL	23J0280	10	10	S2BVEM	Sampled	•									
RHMW17	WL	RHMW17-WGN01LF-2310WK4-DF	0	0	WG	N	1	LF	2023-10-25 09:55 AM	2310W4DFSG17	UNITED CARGO	016-98557255	10/25/2023	10/26/2023	SGSO	FC10745	10	10	S2BVEM	Sampled		•		•	•	•	•	•	•	
RHMW17	WL	RHMW17-WGN01LF-2310WK5-DF	0	0	WG	N	1	LF	2023-11-02 09:15 AM	2310W5DFAP17	FEDEX	785890827176	11/2/2023	11/3/2023	APPL	23K0019	10	10	S4VEM	Sampled	•									
RHMW17	WL	RHMW17-WGN01LF-2310WK5-DF	0	0	WG	N	1	LF	2023-11-02 09:15 AM	2310W5DFSG17	UNITED CARGO	016-50421932	11/2/2023	11/3/2023	SGSO	FC10943	10	10	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•	
RHMW19	WL	RHMW19-WGN01LF-2310WK4-DF	0	0	WG	N	1	LF	2023-10-24 11:50 AM	2310W4DFAP19	UNITED CARGO	016-69927445	10/24/2023	10/25/2023	APPL	23J0262	10	10	S4VEM	Sampled	•									
RHMW19	WL	RHMW19-WGN01LF-2310WK4-DF	0	0	WG	N	1	LF	2023-10-24 11:50 AM	2310W4DFSG19	UNITED CARGO	016-51082124	10/24/2023	10/26/2023	SGSO	FC10716	10	10	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•	
RHMW19	WL	RHMW19-WGN01LF-2310WK5-DF	0	0	WG	N	1	LF	2023-10-30 11:30 AM	2310W5DFAP19	UNITED CARGO	016-45870473	10/30/2023	10/31/2023	APPL	23J0325	10	10	S2BVEM	Sampled	•									
RHMW19	WL	RHMW19-WGN01LF-2310WK5-DF	0	0	WG	N	1	LF	2023-10-30 11:30 AM	2310W5DFSG19	UNITED CARGO	016-45870436	10/30/2023	10/31/2023	SGSO	FC10844	10	10	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•	
RHMW20	WL	RHMW20-WGN01LF-2310WK4-DF	0	0	WG	N	1	LF	2023-10-23 12:05 PM	2310W4DFAP20	UNITED CARGO	016-95065261	10/23/2023	10/24/2023	APPL	23J0260	10	10	S2BVEM	Sampled	•									
RHMW20	WL	RHMW20-WGN01LF-2310WK4-DF	0	0	WG	N	1	LF	2023-10-23 12:05 PM	2310W4DFSG20	UNITED CARGO	016-95065250	10/23/2023	10/24/2023	SGSO	FC10676	10	10	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•	
RHMW20	WL	RHMW20-WGN01LF-2310WK5-DF	0	0	WG	N	1	LF	2023-11-02 11:15 AM	2310W5DFAP20	FEDEX	785890827176	11/2/2023	11/3/2023	APPL	23K0019	10	10	S4VEM	Sampled	•									
RHMW20	WL	RHMW20-WGN01LF-2310WK5-DF	0	0	WG	N	1	LF	2023-11-02 11:15 AM	2310W5DFSG20	UNITED CARGO	016-50421932	11/2/2023	11/3/2023	SGSO	FC10943	10	10	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•	
RHMW2254-01	WL	RHMW2254-01-WGF01LF-2310WK4-DF	0	0	WG	FD	1	LF	2023-10-24 01:10 PM	2310W4DFSG03	UNITED CARGO	016-51082124	10/24/2023	10/26/2023	SGSO	FC10716	10	10	S2BVEM	Sampled; No SGC			•			•	•			
RHMW2254-01	WL	RHMW2254-01-WGF01LF-2310WK5-DF	0	0	WG	FD	1	LF	2023-10-31 09:15 AM	2310W5DFSG03	UNITED CARGO	016-45864453	10/31/2023	11/1/2023	SGSO	FC10882	10	10	S2BVEM	Sampled; No SGC			•			•	•			
RHMW2254-01	WL	RHMW2254-01-WGN01LF-2310WK3-DF	0	0	WG	N	1	LF	2023-10-17 12:05 PM	2310W3DFSG03	UNITED CARGO	016-49999095	10/17/2023	10/18/2023	SGSO	FC10534	10	10	S2BVEM	Sampled; No SGC			•			•	•			
RHMW2254-01	WL	RHMW2254-01-WGN01LF-2310WK4-DF	0	0	WG	N	1	LF	2023-10-24 01:10 PM	2310W4DFSG03	UNITED CARGO	016-51082124	10/24/2023	10/26/2023	SGSO	FC10716	10	10	S2BVEM	Sampled; No SGC			•			•	•			
RHMW2254-01	WL	RHMW2254-01-WGN01LF-2310WK5-DF	0	0	WG	N	1	LF	2023-10-31 09:15 AM	2310W5DFSG03	UNITED CARGO	016-45864453	10/31/2023	11/1/2023	SGSO	FC10882	10	10	S2BVEM	Sampled; No SGC			•			•	•			
RHP01	WL	RHP01-WGN01LF-2310WK4-DF	0	0	WG	N	1	LF	2023-10-25 11:10 AM	2310W4DFAP21	UNITED CARGO	016-98557266	10/25/2023	10/26/2023	APPL	23J0280	10	10	S2BVEM	Sampled	•									
RHP01	WL	RHP01-WGN01LF-2310WK4-DF	0	0	WG	N	1	LF	2023-10-25 11:10 AM	2310W4DFSG21	UNITED CARGO	016-98557255	10/25/2023	10/26/2023	SGSO	FC10745	10	10	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•	
RHP01	WL	RHP01-WGN01LF-2310WK5-DF	0	0	WG	N	1	LF	2023-11-01 09:10 AM	2310W5DFAP21	FEDEX	785841029536	11/1/2023	11/2/2023	APPL	23K0012	10	10	S2BVEM	Sampled	•									
RHP01	WL	RHP01-WGN01LF-2310WK5-DF	0	0	WG	N	1	LF	2023-11-01 09:10 AM	2310W5DFSG21	UNITED CARGO	016-50417356	11/1/2023	11/2/2023	SGSO	FC10911	10	10	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•	
RHP02	WL	RHP02-WGN01LF-2310WK4-DF	0	0	WG	N	1	LF	2023-10-25 01:10 PM	2310W4DFAP22	UNITED CARGO	016-98557266	10/25/2023	10/26/2023	APPL	23J0280	10	10	S2BVEM	Sampled	•									
RHP02	WL	RHP02-WGN01LF-2310WK4-DF	0	0	WG	N	1	LF	2023-10-25 01:10 PM	2310W4DFSG22	UNITED CARGO	016-98557255	10/25/2023	10/26/2023	SGSO	FC10745	10	10	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•	
RHP02	WL	RHP02-WGN01LF-2310WK5-DF	0	0	WG	N	1	LF	2023-11-01 11:45 AM	2310W5DFAP22	FEDEX	785841029536	11/1/2023	11/2/2023	APPL	23K0012	10	10	S2BVEM	Sampled	•									

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RHP02	WL	RHP02-WGN01LF-2310WK5-DF	0	0	WG	N	1	LF	2023-11-01 11:45 AM	2310W5DFSG22	UNITED CARGO	016-50417356	11/1/2023	11/2/2023	SGSO	FC10911	10	10	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHP03	WL	RHP03-WGN01LF-2310WK4-DF	0	0	WG	N	1	LF	2023-10-26 11:20 AM	2310W4DFAP23	UNITED CARGO	016-98516865	10/26/2023	10/27/2023	APPL	23J0296	10	10	S2BVEM	Sampled	•								
RHP03	WL	RHP03-WGN01LF-2310WK4-DF	0	0	WG	N	1	LF	2023-10-26 11:20 AM	2310W4DFSG23	UNITED CARGO	016-98502235	10/26/2023	10/27/2023	SGSO	FC10788	10	10	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHP03	WL	RHP03-WGN01LF-2310WK5-DF	0	0	WG	N	1	LF	2023-11-02 11:50 AM	2310W5DFAP23	FEDEX	785890827176	11/2/2023	11/3/2023	APPL	23K0019	10	10	S4VEM	Sampled	•								
RHP03	WL	RHP03-WGN01LF-2310WK5-DF	0	0	WG	N	1	LF	2023-11-02 11:50 AM	2310W5DFSG23	UNITED CARGO	016-50421932	11/2/2023	11/3/2023	SGSO	FC10943	10	10	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHP04A	WL	RHP04A-WGN01LF-2310WK4-DF	0	0	WG	N	1	LF	2023-10-23 12:40 PM	2310W4DFAP24	UNITED CARGO	016-95065261	10/23/2023	10/24/2023	APPL	23J0260	10	10	S2BVEM	Sampled	•								
RHP04A	WL	RHP04A-WGN01LF-2310WK4-DF	0	0	WG	N	1	LF	2023-10-23 12:40 PM	2310W4DFSG24	UNITED CARGO	016-95065250	10/23/2023	10/24/2023	SGSO	FC10676	10	10	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHP04A	WL	RHP04A-WGN01LF-2310WK5-DF	0	0	WG	N	1	LF	2023-11-03 08:35 AM	2310W5DFAP24	FEDEX	785939256516	11/3/2023	11/4/2023	APPL	23K0034	10	10	S2BVEM	Sampled	•								
RHP04A	WL	RHP04A-WGN01LF-2310WK5-DF	0	0	WG	N	1	LF	2023-11-03 08:35 AM	2310W5DFSG24	UNITED CARGO	016-50426235	11/3/2023	11/5/2023	SGSO	FC10974	10	10	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHP04B	WL	RHP04B-WGN01LF-2310WK4-DF	0	0	WG	N	1	LF	2023-10-23 09:40 AM	2310W4DFAP25	UNITED CARGO	016-95065261	10/23/2023	10/24/2023	APPL	23J0260	10	10	S2BVEM	Sampled	•								
RHP04B	WL	RHP04B-WGN01LF-2310WK4-DF	0	0	WG	N	1	LF	2023-10-23 09:40 AM	2310W4DFSG25	UNITED CARGO	016-95065250	10/23/2023	10/24/2023	SGSO	FC10676	10	10	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHP04B	WL	RHP04B-WGN01LF-2310WK5-DF	0	0	WG	N	1	LF	2023-11-03 10:11 AM	2310W5DFAP25	FEDEX	785939256516	11/3/2023	11/4/2023	APPL	23K0034	10	10	S2BVEM	Sampled	•								
RHP04B	WL	RHP04B-WGN01LF-2310WK5-DF	0	0	WG	N	1	LF	2023-11-03 10:11 AM	2310W5DFSG25	UNITED CARGO	016-50426235	11/3/2023	11/5/2023	SGSO	FC10974	10	10	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHP04C	WL	RHP04C-WGN01LF-2310WK4-DF	0	0	WG	N	1	LF	2023-10-25 09:35 AM	2310W4DFAP26	UNITED CARGO	016-98557266	10/25/2023	10/26/2023	APPL	23J0280	10	10	S2BVEM	Sampled	•								
RHP04C	WL	RHP04C-WGN01LF-2310WK4-DF	0	0	WG	N	1	LF	2023-10-25 09:35 AM	2310W4DFSG26	UNITED CARGO	016-98557255	10/25/2023	10/26/2023	SGSO	FC10745	10	10	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHP04C	WL	RHP04C-WGN01LF-2310WK5-DF	0	0	WG	N	1	LF	2023-11-01 08:50 AM	2310W5DFAP26	FEDEX	785841029536	11/1/2023	11/2/2023	APPL	23K0012	10	10	S2BVEM	Sampled	•								
RHP04C	WL	RHP04C-WGN01LF-2310WK5-DF	0	0	WG	N	1	LF	2023-11-01 08:50 AM	2310W5DFSG26	UNITED CARGO	016-50417356	11/1/2023	11/2/2023	SGSO	FC10911	10	10	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHP05	WL	RHP05-WGN01LF-2310WK4-DF	0	0	WG	N	1	LF	2023-10-26 09:15 AM	2310W4DFAP27	UNITED CARGO	016-98516865	10/26/2023	10/27/2023	APPL	23J0296	10	10	S2BVEM	Sampled	•								
RHP05	WL	RHP05-WGN01LF-2310WK4-DF	0	0	WG	N	1	LF	2023-10-26 09:15 AM	2310W4DFSG27	UNITED CARGO	016-98502235	10/26/2023	10/27/2023	SGSO	FC10788	10	10	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHP05	WL	RHP05-WGN01LF-2310WK5-DF	0	0	WG	N	1	LF	2023-11-02 09:45 AM	2310W5DFAP27	FEDEX	785890827176	11/2/2023	11/3/2023	APPL	23K0019	10	10	S4VEM	Sampled	•								
RHP05	WL	RHP05-WGN01LF-2310WK5-DF	0	0	WG	N	1	LF	2023-11-02 09:45 AM	2310W5DFSG27	UNITED CARGO	016-50421932	11/2/2023	11/3/2023	SGSO	FC10943	10	10	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHP06	WL	RHP06-WGFD01LF-2310WK4-DF	0	0	WG	FD	1	LF	2023-10-27 10:35 AM	2310W4DFAP28	UNITED CARGO	016-98516854	10/27/2023	10/28/2023	APPL	23J0313	10	10	S2BVEM	Sampled	•								
RHP06	WL	RHP06-WGFD01LF-2310WK4-DF	0	0	WG	FD	1	LF	2023-10-27 10:35 AM	2310W4DFSG28	UNITED CARGO	016-98502224	10/27/2023	10/28/2023	SGSO	FC10809	10	10	S2BVEM	Sampled; No SGC		•			•	•	•	•	•
RHP06	WL	RHP06-WGFD01LF-2310WK5-DF	0	0	WG	FD	1	LF	2023-11-02 08:55 AM	2310W5DFAP28	FEDEX	785890827176	11/2/2023	11/3/2023	APPL	23K0019	10	10	S4VEM	Sampled	•								
RHP06	WL	RHP06-WGFD01LF-2310WK5-DF	0	0	WG	FD	1	LF	2023-11-02 08:55 AM	2310W5DFSG28	UNITED CARGO	016-50421932	11/2/2023	11/3/2023	SGSO	FC10943	10	10	S2BVEM	Sampled; No SGC		•			•	•	•	•	•
RHP06	WL	RHP06-WGN01LF-2310WK4-DF	0	0	WG	N	1	LF	2023-10-27 10:35 AM	2310W4DFAP28	UNITED CARGO	016-98516854	10/27/2023	10/28/2023	APPL	23J0313	10	10	S2BVEM	Sampled	•								
RHP06	WL	RHP06-WGN01LF-2310WK4-DF	0	0	WG	N	1	LF	2023-10-27 10:35 AM	2310W4DFSG28	UNITED CARGO	016-98502224	10/27/2023	10/28/2023	SGSO	FC10809	10	10	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHP06	WL	RHP06-WGN01LF-2310WK5-DF	0	0	WG	N	1	LF	2023-11-02 08:55 AM	2310W5DFAP28	FEDEX	785890827176	11/2/2023	11/3/2023	APPL	23K0019	10	10	S4VEM	Sampled	•								
RHP06	WL	RHP06-WGN01LF-2310WK5-DF	0	0	WG	N	1	LF	2023-11-02 08:55 AM	2310W5DFSG28	UNITED CARGO	016-50421932	11/2/2023	11/3/2023	SGSO	FC10943	10	10	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHP07	WL	RHP07-WGN01LF-2310WK3-DF	0	0	WG	N	1	LF	2023-10-17 09:50 AM	2310W3DFSG02	UNITED CARGO	016-49999095	10/17/2023	10/18/2023	SGSO	FC10534	10	10	S2BVEM	Sampled; No SGC			•			•	•		
RHP07	WL	RHP07-WGN01LF-2310WK4-DF	0	0	WG	N	1	LF	2023-10-24 09:55 AM	2310W4DFSG02	UNITED CARGO	016-51082124	10/24/2023	10/26/2023	SGSO	FC10716	10	10	S2BVEM	Sampled; No SGC			•			•	•		
RHP07	WL	RHP07-WGN01LF-2310WK5-DF	0	0	WG	N	1	LF	2023-10-31 09:30 AM	2310W5DFSG02	UNITED CARGO	016-45864453	10/31/2023	11/1/2023	SGSO	FC10882	10	10	S2BVEM	Sampled; No SGC			•			•	•		
RHP08	WL	RHP08-WGN01LF-2310WK4-DF	0	0	WG	N	1	LF	2023-10-27 08:45 AM	2310W4DFAP29	UNITED CARGO	016-98516854	10/27/2023	10/28/2023	APPL	23J0313	10	10	S2BVEM	Sampled	•								
RHP08	WL	RHP08-WGN01LF-2310WK4-DF	0	0	WG	N	1	LF	2023-10-27 08:45 AM	2310W4DFSG29	UNITED CARGO	016-98502224	10/27/2023	10/28/2023	SGSO	FC10809	10	10	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHP08	WL	RHP08-WGN01LF-2310WK5-DF	0	0	WG	N	1	LF	2023-11-02 11:35 AM	2310W5DFAP29	FEDEX	785890827176	11/2/2023	11/3/2023	APPL	23K0019	10	10	S4VEM	Sampled	•								
RHP08	WL	RHP08-WGN01LF-2310WK5-DF	0	0	WG	N	1	LF	2023-11-02 11:35 AM	2310W5DFSG29	UNITED CARGO	016-50421932	11/2/2023	11/3/2023	SGSO	FC10943	10	10	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
																				S2BVEM Count	***31***	***40***	***26***	***38***	***40***	***66***	***66***	***40***	***40***
																				S4VEM Count	***9***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
																				Site Location Count	***40***	***40***	***26***	***38***	***40***	***66***	***66***	***40***	***40***
																				Total Location Count	***44***	***44***	***26***	***42***	***44***	***70***	***70***	***44***	***44***

Note: This event has missing samples in Event Management that are Field QC ONLY. Please refer to the Unplanned Field Samples report to view these samples.

Status	Color
Status Not Determined	
Scheduled for Analysis; Awaiting Field Data	
Chain of Custody Data Loaded and Certified; Awaiting Lab Data	
Laboratory Data Loaded and Certified; Awaiting Validation	

Matrix Name	Matrix
Ground Water	WG

Sampling Method	Code
Grab	G
Low-Flow (Slow Purge) Groundwater Pumping	LF

Laboratory Name	Laboratory Code
Agriculture & Priority Pollutants Laboratories, Inc.	APPL
SGS North America, Inc., Orlando, FL	SGSO

Location Type	Code
Well	WL

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Validation Qualifiers Finalized; Awaiting Approval	
Approval Complete; Data In Production	

Event Status Report
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Event Name: Defueling and Monthly 2023 November

Event ID: 2124

Site	Location	Location Type	Field Sample ID	Begin Depth	End Depth	Matrix	Sample Type	Sample No.	Samp. Method	Sampling Date	Chain of Custody	Shipping Method	Shipment Tracking Number	Laboratory Shipped Date	Laboratory Receipt Date	Lab	SDG	TAT (Days)	Validation TAT (Days)	Review Type	Sampling Status	22MEE (SW8270D)	BNA SIM SGS 18 Analytes (BNASIME)	BNA SIM SGS 3 NAPHs (BNASIME)	EDB SGS (SW8011)	Methane (RSK175)	NPOC (SW9060A)	Phenol SGS (SW8270)	TOC (SW9060A)	TPH Diesel and Oil SGS (SW8015C)	TPH Diesel and Oil Silica Gel EU SGS (M8015D)	TPH Gasoline SGS (M8015V)	VOCs BTEX and 12DCA SGS (SW8260D)	VOCs BTEX SGS (SW8260D)
Alea	NMW24	WL	NMW24-WGN01LF-2311	0	0	WG	N	1	LF	2023-11-09 08:36 AM	2311AL-20	FEDEX	786180938768	11/9/2023	11/10/2023	ALGK	K2312820			S2BVEM	Sampled						•		•		•				
	NMW24	WL	NMW24-WGN01LF-2311	0	0	WG	N	1	LF	2023-11-09 08:36 AM	2311SG-20	UNITED CARGO	016-95237472	11/9/2023	11/10/2023	SGSO	FC11161			S4VEM	Sampled		•		•	•		•		•	•	•	•	
																					S4VEM Count	***0***	***1***	***0***	***1***	***1***	***0***	***1***	***0***	***1***	***1***	***1***	***1***	***0***
																					S2BVEM Count	***0***	***0***	***0***	***0***	***0***	***1***	***0***	***1***	***0***	***0***	***0***	***0***	***0***
																					Site Location Count	***0***	***1***	***0***	***1***	***1***	***1***	***1***	***1***	***1***	***1***	***1***	***1***	***0***
Halawa Correctional Facility	HDMW2253-03	WL	HDMW2253-03-WGN01LF-2311	0	0	WG	N	1	LF	2023-11-07 10:00 AM	2311AL-29	ALASKA CARGO	027-72996851	11/7/2023	11/9/2023	ALGK	K2312763			S2BVEM	Sampled						•		•					
	HDMW2253-03	WL	HDMW2253-03-WGN01LF-2311	0	0	WG	N	1	LF	2023-11-07 10:00 AM	2311SG-29	UNITED CARGO	016-98547525	11/7/2023	11/8/2023	SGSO	FC11063C			S2BVEM	Sampled; No SGC		•			•		•		•	•	•		•
	RHMW11-05	WL	RHMW11-05-WGN01G-2311-DF	0	0	WG	N	1	G	2023-11-06 12:15 PM	2311AL-12DF	ALASKA CARGO	027-72996836	11/6/2023	11/7/2023	ALGK	K2312628			S2BVEM	Sampled						•		•					
	RHMW11-05	WL	RHMW11-05-WGN01G-2311-DF	0	0	WG	N	1	G	2023-11-06 12:15 PM	2311SG-12DF	UNITED CARGO	016-97046504	11/6/2023	11/7/2023	SGSO	FC11019			S2BVEM	Sampled; No SGC		•		•			•		•	•	•	•	
	RHMW11-05	WL	RHMW11-05-WGN01G-2311-DF	0	0	WG	N	1	G	2023-11-06 12:15 PM	2311SG-12DF	UNITED CARGO	016-97046504	11/6/2023	11/7/2023	SGSO	FC11019B			S4VEM	Sampled; No SGC					•								
	RHMW12A	WL	RHMW12A-WGN01LF-2311	0	0	WG	N	1	LF	2023-11-09 09:20 AM	2311AL-11	FEDEX	786180938768	11/9/2023	10/10/2023	ALGK	K2312820			S2BVEM	Sampled						•		•					
	RHMW12A	WL	RHMW12A-WGN01LF-2311	0	0	WG	N	1	LF	2023-11-09 09:20 AM	2311SG-11	UNITED CARGO	016-95237472	11/9/2023	10/10/2023	SGSO	FC11161			S4VEM	Sampled; No SGC		•		•	•		•		•	•	•		•
	RHMW14-03	WL	RHMW14-03-WGN01G-2311-DF	0	0	WG	N	1	G	2023-11-06 09:00 AM	2311AL-14DF	ALASKA CARGO	027-72996836	11/6/2023	11/7/2023	ALGK	K2312628			S2BVEM	Sampled						•		•					
	RHMW14-03	WL	RHMW14-03-WGN01G-2311-DF	0	0	WG	N	1	G	2023-11-06 09:00 AM	2311SG-14DF	UNITED CARGO	016-97046504	11/6/2023	11/7/2023	SGSO	FC11019			S2BVEM	Sampled; No SGC		•		•			•		•	•	•		
	RHMW14-03	WL	RHMW14-03-WGN01G-2311-DF	0	0	WG	N	1	G	2023-11-06 09:00 AM	2311SG-14DF	UNITED CARGO	016-97046504	11/6/2023	11/7/2023	SGSO	FC11019B			S4VEM	Sampled; No SGC					•								
																					S2BVEM Count	***2***	***3***	***0***	***2***	***1***	***4***	***3***	***4***	***3***	***3***	***3***	***2***	***1***
																					S4VEM Count	***0***	***1***	***0***	***1***	***3***	***0***	***1***	***0***	***1***	***1***	***1***	***0***	***1***
																					Site Location Count	***2***	***4***	***0***	***3***	***4***	***4***	***4***	***4***	***4***	***4***	***4***	***2***	***2***
	NMW25	WL	NMW25-WGN01LF-2311	0	0	WG	N	1	LF	2023-11-09 12:05 PM	2311AL-31	FEDEX	786180938768	11/9/2023	11/10/2023	ALGK	K2312820			S2BVEM	Sampled						•		•					
	NMW25	WL	NMW25-WGN01LF-2311	0	0	WG	N	1	LF	2023-11-09 12:05 PM	2311SG-31	UNITED CARGO	016-95237472	11/9/2023	11/10/2023	SGSO	FC11161			S4VEM	Sampled; No SGC		•		•	•		•		•	•	•	•	
	NMW30	WL	NMW30-WGN01LF-2311	0	0	WG	N	1	LF	2023-11-09 12:35 PM	2311AL-35	FEDEX	786180938768	11/9/2023	11/10/2023	ALGK	K2312820			S2BVEM	Sampled						•		•					
	NMW30	WL	NMW30-WGN01LF-2311	0	0	WG	N	1	LF	2023-11-09 12:35 PM	2311SG-35	UNITED CARGO	016-95237472	11/9/2023	11/10/2023	SGSO	FC11161			S4VEM	Sampled; No SGC		•		•	•		•		•	•	•	•	
	NMW32	WL	NMW32-WGN01LF-2311	0	0	WG	N	1	LF	2023-11-10 08:55 AM	2311AL-32	FEDEX	786230458102	11/10/2023	11/11/2023	ALGK	K2312867			S2BVEM	Sampled						•		•					
	NMW32	WL	NMW32-WGN01LF-2311	0	0	WG	N	1	LF	2023-11-10 08:55 AM	2311SG-32	UNITED CARGO	016-97328114	11/10/2023	11/11/2023	SGSO	FC11172			S2BVEM	Sampled; No SGC		•		•	•		•		•	•	•	•	
	NMW33	WL	NMW33-WGN01LF-2311	0	0	WG	N	1	LF	2023-11-10 10:55 AM	2311AL-34	FEDEX	786230458102	11/10/2023	11/11/2023	ALGK	K2312867			S2BVEM	Sampled						•		•					
	NMW33	WL	NMW33-WGN01LF-2311	0	0	WG	N	1	LF	2023-11-10 10:55 AM	2311SG-34	UNITED CARGO	016-97328114	11/10/2023	11/11/2023	SGSO	FC11172			S2BVEM	Sampled; No SGC		•		•	•		•		•	•	•	•	
	RHMW01R	WL	RHMW01R-WGN01LF-2311	0	0	WG	N	2	LF	2023-11-07 10:10 AM	2311AL-01	ALASKA CARGO	027-72996851	11/7/2023	11/9/2023	ALGK	K2312763			S2BVEM	Sampled						•		•					
	RHMW01R	WL	RHMW01R-WGN01LF-2311	0	0	WG	N	2	LF	2023-11-07 10:10 AM	2311SG-01	UNITED CARGO	016-98547525	11/7/2023	11/8/2023	SGSO	FC11063C			S2BVEM	Sampled		•			•		•		•	•	•		•
	RHMW01R	WL	RHMW01R-WGN01LF-2311-DF	0	0	WG	N	1	LF	2023-11-06 08:15 AM	2311SG-01DF	UNITED CARGO	016-97046504	11/6/2023	11/7/2023	SGSO	FC11019			S2BVEM	Sampled			•					•	•				
	RHMW02	WL	RHMW02-WGFD01LF-2311-DF	0	0	WG	FD	1	LF	2023-11-07 11:50 AM	2311SG-02DF	UNITED CARGO	016-98547525	11/7/2023	11/8/2023	SGSO	FC11063			S2BVEM	Sampled		•				•		•	•	•		•
	RHMW02	WL	RHMW02-WGN01LF-2311-DF	0	0	WG	N	1	LF	2023-11-07 11:50 AM	2311AL-02DF	ALASKA CARGO	027-72996851	11/7/2023	11/9/2023	ALGK	K2312760			S2BVEM	Sampled						•		•					
	RHMW02	WL	RHMW02-WGN01LF-2311-DF	0	0	WG	N	1	LF	2023-11-07 11:50 AM	2311SG-02DF	UNITED CARGO	016-98547525	11/7/2023	11/8/2023	SGSO	FC11063			S2BVEM	Sampled		•				•		•	•	•		•
	RHMW02	WL	RHMW02-WGN01LF-2311-DF	0	0	WG	N	1	LF	2023-11-07 11:50 AM	2311SG-02DF	UNITED CARGO	016-98547525	11/7/2023	11/8/2023	SGSO	FC11063B			S2BVEM	Sampled					•								
	RHMW03	WL	RHMW03-WGN01LF-2311-DF	0	0	WG	N	1	LF	2023-11-10 10:15 AM	2311AL-03DF	FEDEX	786230458102	11/10/2023	11/11/2023	ALGK	K2312868			S2BVEM	Sampled						•		•					
	RHMW03	WL	RHMW03-WGN01LF-2311-DF	0	0	WG	N	1	LF	2023-11-10 10:15 AM	2311SG-03DF	UNITED CARGO	016-97328114	11/10/2023	11/11/2023	SGSO	FC11171			S2BVEM	Sampled		•		•			•		•	•	•		•
	RHMW03	WL	RHMW03-WGN01LF-2311-DF	0	0	WG	N	1	LF	2023-11-10 10:15 AM	2311SG-03DF	UNITED CARGO	016-97328114	11/10/2023	11/11/2023	SGSO	FC11171B			S2BVEM	Sampled					•								
	RHMW04	WL	RHMW04-WGN01LF-2311-DF	0	0	WG	N	1	LF	2023-11-07 10:00 AM	2311AL-04DF	ALASKA CARGO	027-72996851	11/7/2023	11/9/2023	ALGK	K2312760			S2BVEM	Sampled						•		•					
	RHMW04	WL	RHMW04-WGN01LF-2311-DF	0	0	WG	N	1	LF	2023-11-07 10:00 AM	2311SG-04DF	UNITED CARGO	016-98547525	11/7/2023	11/8/2023	SGSO	FC11063			S2BVEM	Sampled; No SGC		•		•			•		•	•	•	•	
	RHMW04	WL	RHMW04-WGN01LF-2311-DF	0	0	WG	N	1	LF	2023-11-07 10:00 AM	2311SG-04DF	UNITED CARGO	016-98547525	11/7/2023	11/8/2023	SGSO	FC11063B			S2BVEM	Sampled; No SGC					•								
	RHMW05	WL	RHMW05-WGN01LF-2311-DF	0	0	WG	N	1	LF	2023-11-10 10:40 AM	2311AL-05DF	FEDEX	786230458102	11/10/2023	11/11/2023	ALGK	K2312868			S2BVEM	Sampled						•		•					
	RHMW05	WL	RHMW05-WGN01LF-2311-DF	0	0	WG	N	1	LF	2023-11-10 10:40 AM	2311SG-05DF	UNITED CARGO	016-97328114	11/10/2023	11/11/2023	SGSO	FC11171			S2BVEM	Sampled; No SGC		•				•		•	•	•		•
	RHMW05	WL	RHMW05-WGN01LF-2311-DF	0	0	WG	N	1	LF	2023-11-10 10:40 AM	2311SG-05DF	UNITED CARGO	016-97328114	11/10/2023	11/11/2023	SGSO	FC11171B			S2BVEM	Sampled; No SGC					•								
	RHMW06	WL	RHMW06-WGN01LF-2311-DF	0	0	WG	N	1	LF	2023-11-07 12:40 PM	2311AL-06DF	ALASKA CARGO	027-72996851	11/7/2023	11/9/2023	ALGK	K2312760			S2BVEM	Sampled						•		•					

Red Hill Bulk Fuel Storage Facility

Site	Location	Location Type	Field Sample ID	Begin Depth	End Depth	Matrix	Sample Type	Sample No.	Samp. Method	Sampling Date	Chain of Custody	Shipping Method	Shipment Tracking Number	Laboratory Shipped Date	Laboratory Receipt Date	Lab	SDG	TAT (Days)	Validation TAT (Days)	Review Type	Sampling Status	22MEE (SW8270D)	BNA SIM SGS 18 Analytes (BNASIME)	BNA SIM SGS 3 NAPHs (BNASIME)	EDB SGS (SW8011)	Methane (RSK175)	NPOC (SW9060A)	Phenol SGS (SW8270)	TOC (SW9060A)	TPH Diesel and Oil SGS (SW8015C)	TPH Diesel and Oil Silica Gel EU SGS (M8015D)	TPH Gasoline SGS (M8015V)	VOCs BTEX and 12DCA SGS (SW8260D)	VOCs BTEX SGS (SW8260D)
	RHMW06	WL	RHMW06-WGN01LF-2311-DF	0	0	WG	N	1	LF	2023-11-07 12:40 PM	2311SG-06DF	UNITED CARGO	016-98547525	11/7/2023	11/8/2023	SGSO	FC11063			S2BVEM	Sampled; No SGC		•		•			•		•	•	•	•	
	RHMW06	WL	RHMW06-WGN01LF-2311-DF	0	0	WG	N	1	LF	2023-11-07 12:40 PM	2311SG-06DF	UNITED CARGO	016-98547525	11/7/2023	11/8/2023	SGSO	FC11063B			S2BVEM	Sampled; No SGC					•								
	RHMW08	WL	RHMW08-WGFD01LF-2311-DF	0	0	WG	FD	1	LF	2023-11-10 09:00 AM	2311SG-07DF	UNITED CARGO	016-97328114	11/10/2023	11/11/2023	SGSO	FC11171			S2BVEM	Sampled; No SGC		•					•		•	•	•		•
	RHMW08	WL	RHMW08-WGN01LF-2311-DF	0	0	WG	N	1	LF	2023-11-10 09:00 AM	2311AL-07DF	FEDEX	786230458102	11/10/2023	11/11/2023	ALGK	K2312868			S2BVEM	Sampled						•		•					
	RHMW08	WL	RHMW08-WGN01LF-2311-DF	0	0	WG	N	1	LF	2023-11-10 09:00 AM	2311SG-07DF	UNITED CARGO	016-97328114	11/10/2023	11/11/2023	SGSO	FC11171			S2BVEM	Sampled; No SGC		•					•		•	•	•		•
	RHMW08	WL	RHMW08-WGN01LF-2311-DF	0	0	WG	N	1	LF	2023-11-10 09:00 AM	2311SG-07DF	UNITED CARGO	016-97328114	11/10/2023	11/11/2023	SGSO	FC11171B			S2BVEM	Sampled; No SGC					•								
	RHMW09	WL	RHMW09-WGN01LF-2311-DF	0	0	WG	N	1	LF	2023-11-06 09:30 AM	2311AL-08DF	ALASKA CARGO	027-72996836	11/6/2023	11/7/2023	ALGK	K2312628			S2BVEM	Sampled						•		•					
	RHMW09	WL	RHMW09-WGN01LF-2311-DF	0	0	WG	N	1	LF	2023-11-06 09:30 AM	2311SG-08DF	UNITED CARGO	016-97046504	11/6/2023	11/7/2023	SGSO	FC11019			S2BVEM	Sampled; No SGC		•		•			•		•	•	•	•	
	RHMW09	WL	RHMW09-WGN01LF-2311-DF	0	0	WG	N	1	LF	2023-11-06 09:30 AM	2311SG-08DF	UNITED CARGO	016-97046504	11/6/2023	11/7/2023	SGSO	FC11019B			S4VEM	Sampled; No SGC					•								
	RHMW10	WL	RHMW10-WGN01LF-2311-DF	0	0	WG	N	1	LF	2023-11-10 11:25 AM	2311AL-09DF	FEDEX	786230458102	11/10/2023	11/11/2023	ALGK	K2312868			S2BVEM	Sampled						•		•					
	RHMW10	WL	RHMW10-WGN01LF-2311-DF	0	0	WG	N	1	LF	2023-11-10 11:25 AM	2311SG-09DF	UNITED CARGO	016-97328114	11/10/2023	11/11/2023	SGSO	FC11171			S2BVEM	Sampled; No SGC		•		•			•		•	•	•	•	
	RHMW10	WL	RHMW10-WGN01LF-2311-DF	0	0	WG	N	1	LF	2023-11-10 11:25 AM	2311SG-09DF	UNITED CARGO	016-97328114	11/10/2023	11/11/2023	SGSO	FC11171B			S2BVEM	Sampled; No SGC					•								
	RHMW13-04	WL	RHMW13-04-WGN01G-2311-DF	0	0	WG	N	1	G	2023-11-09 09:45 AM	2311AL-12DF	FEDEX	786180938768	11/9/2023	11/10/2023	ALGK	K2312824			S2BVEM	Sampled						•		•					
	RHMW13-04	WL	RHMW13-04-WGN01G-2311-DF	0	0	WG	N	1	G	2023-11-09 09:45 AM	2311SG-12DF	UNITED CARGO	016-95237472	11/9/2023	11/10/2023	SGSO	FC11133			S2BVEM	Sampled; No SGC		•		•			•		•	•	•	•	
	RHMW13-04	WL	RHMW13-04-WGN01G-2311-DF	0	0	WG	N	1	G	2023-11-09 09:45 AM	2311SG-12DF	UNITED CARGO	016-95237472	11/9/2023	11/10/2023	SGSO	FC11133B			S2BVEM	Sampled; No SGC					•								
	RHMW15-05	WL	RHMW15-05-WGN01G-2311-DF	0	0	WG	N	1	G	2023-11-08 08:45 AM	2311AL-14DF	FEDEX	786125912937	11/8/2023	11/9/2023	ALGK	K2312749			S2BVEM	Sampled						•		•					
	RHMW15-05	WL	RHMW15-05-WGN01G-2311-DF	0	0	WG	N	1	G	2023-11-08 08:45 AM	2311SG-14DF	UNITED CARGO	016-97593930	11/8/2023	11/9/2023	SGSO	FC11097			S2BVEM	Sampled; No SGC		•		•			•		•	•	•	•	
	RHMW15-05	WL	RHMW15-05-WGN01G-2311-DF	0	0	WG	N	1	G	2023-11-08 08:45 AM	2311SG-14DF	UNITED CARGO	016-97593930	11/8/2023	11/9/2023	SGSO	FC11097B			S2BVEM	Sampled; No SGC					•								
	RHMW16	WL	RHMW16-WGN01LF-2311-DF	0	0	WG	N	1	LF	2023-11-06 10:20 AM	2311AL-16DF	ALASKA CARGO	027-72996836	11/6/2023	11/7/2023	ALGK	K2312628			S2BVEM	Sampled						•		•					
	RHMW16	WL	RHMW16-WGN01LF-2311-DF	0	0	WG	N	1	LF	2023-11-06 10:20 AM	2311SG-16DF	UNITED CARGO	016-97046504	11/6/2023	11/7/2023	SGSO	FC11019			S2BVEM	Sampled; No SGC		•		•			•		•	•	•	•	
	RHMW16	WL	RHMW16-WGN01LF-2311-DF	0	0	WG	N	1	LF	2023-11-06 10:20 AM	2311SG-16DF	UNITED CARGO	016-97046504	11/6/2023	11/7/2023	SGSO	FC11019B			S4VEM	Sampled; No SGC					•								
	RHMW17	WL	RHMW17-WGFD01LF-2311-DF	0	0	WG	FD	1	LF	2023-11-08 09:05 AM	2311SG-16DF	UNITED CARGO	016-97593930	11/8/2023	11/9/2023	SGSO	FC11097			S2BVEM	Sampled; No SGC		•					•		•	•	•	•	
	RHMW17	WL	RHMW17-WGN01LF-2311-DF	0	0	WG	N	1	LF	2023-11-08 09:05 AM	2311AL-16DF	FEDEX	786125912937	11/8/2023	11/9/2023	ALGK	K2312749			S2BVEM	Sampled						•		•					
	RHMW17	WL	RHMW17-WGN01LF-2311-DF	0	0	WG	N	1	LF	2023-11-08 09:05 AM	2311SG-16DF	UNITED CARGO	016-97593930	11/8/2023	11/9/2023	SGSO	FC11097			S2BVEM	Sampled; No SGC		•		•			•		•	•	•	•	
	RHMW17	WL	RHMW17-WGN01LF-2311-DF	0	0	WG	N	1	LF	2023-11-08 09:05 AM	2311SG-16DF	UNITED CARGO	016-97593930	11/8/2023	11/9/2023	SGSO	FC11097B			S2BVEM	Sampled; No SGC					•								
	RHMW19	WL	RHMW19-WGN01LF-2311-DF	0	0	WG	N	1	LF	2023-11-06 12:20 PM	2311AL-17DF	ALASKA CARGO	027-72996836	11/6/2023	11/7/2023	ALGK	K2312628			S2BVEM	Sampled						•		•					
	RHMW19	WL	RHMW19-WGN01LF-2311-DF	0	0	WG	N	1	LF	2023-11-06 12:20 PM	2311SG-17DF	UNITED CARGO	016-97046504	11/6/2023	11/7/2023	SGSO	FC11019			S2BVEM	Sampled; No SGC		•		•			•		•	•	•	•	
	RHMW19	WL	RHMW19-WGN01LF-2311-DF	0	0	WG	N	1	LF	2023-11-06 12:20 PM	2311SG-17DF	UNITED CARGO	016-97046504	11/6/2023	11/7/2023	SGSO	FC11019B			S4VEM	Sampled; No SGC					•								
	RHMW20	WL	RHMW20-WGN01LF-2311-DF	0	0	WG	N	1	LF	2023-11-09 09:15 AM	2311AL-18DF	FEDEX	786180938768	11/9/2023	11/10/2023	ALGK	K2312824			S2BVEM	Sampled						•		•					
	RHMW20	WL	RHMW20-WGN01LF-2311-DF	0	0	WG	N	1	LF	2023-11-09 09:15 AM	2311SG-18DF	UNITED CARGO	016-95237472	11/9/2023	11/10/2023	SGSO	FC11133			S2BVEM	Sampled; No SGC		•		•			•		•	•	•	•	
	RHMW20	WL	RHMW20-WGN01LF-2311-DF	0	0	WG	N	1	LF	2023-11-09 09:15 AM	2311SG-18DF	UNITED CARGO	016-95237472	11/9/2023	11/10/2023	SGSO	FC11133B			S2BVEM	Sampled; No SGC					•								
	RHMW2254-01	WL	RHMW2254-01-WGFD01LF-2311-DF	0	0	WG	FD	1	LF	2023-11-07 12:30 PM	2311SG-19DF	UNITED CARGO	016-98547525	11/7/2023	11/8/2023	SGSO	FC11063			S2BVEM	Sampled; No SGC		•					•		•	•	•		•
	RHMW2254-01	WL	RHMW2254-01-WGN01LF-2311-DF	0	0	WG	N	1	LF	2023-11-07 12:30 PM	2311AL-19DF	ALASKA CARGO	027-72996851	11/7/2023	11/9/2023	ALGK	K2312760			S2BVEM	Sampled						•		•					
	RHMW2254-01	WL	RHMW2254-01-WGN01LF-2311-DF	0	0	WG	N	1	LF	2023-11-07 12:30 PM	2311SG-19DF	UNITED CARGO	016-98547525	11/7/2023	11/8/2023	SGSO	FC11063			S2BVEM	Sampled; No SGC		•					•		•	•	•		•
	RHMW2254-01	WL	RHMW2254-01-WGN01LF-2311-DF	0	0	WG	N	1	LF	2023-11-07 12:30 PM	2311SG-19DF	UNITED CARGO	016-98547525	11/7/2023	11/8/2023	SGSO	FC11063B			S2BVEM	Sampled; No SGC					•								
	RHP01	WL	RHP01-WGN01LF-2311-DF	0	0	WG	N	1	LF	2023-11-06 12:30 PM	2311AL-21DF	ALASKA CARGO	027-72996836	11/6/2023	11/7/2023	ALGK	K2312628			S2BVEM	Sampled						•		•					
	RHP01	WL	RHP01-WGN01LF-2311-DF	0	0	WG	N	1	LF	2023-11-06 12:30 PM	2311SG-21DF	UNITED CARGO	016-97046504	11/6/2023	11/7/2023	SGSO	FC11019			S2BVEM	Sampled; No SGC		•		•			•		•	•	•	•	
	RHP01	WL	RHP01-WGN01LF-2311-DF	0	0	WG	N	1	LF	2023-11-06 12:30 PM	2311SG-21DF	UNITED CARGO	016-97046504	11/6/2023	11/7/2023	SGSO	FC11019B			S4VEM	Sampled; No SGC					•								
	RHP02	WL	RHP02-WGN01LF-2311-DF	0	0	WG	N	1	LF	2023-11-08 09:40 AM	2311AL-22DF	FEDEX	786125912937	11/8/2023	11/9/2023	ALGK	K2312749			S2BVEM	Sampled						•		•					
	RHP02	WL	RHP02-WGN01LF-2311-DF	0	0	WG	N	1	LF	2023-11-08 09:40 AM	2311SG-22DF	UNITED CARGO	016-97593930	11/8/2023	11/9/2023	SGSO	FC11097			S2BVEM	Sampled		•		•			•		•	•	•	•	
	RHP02	WL	RHP02-WGN01LF-2311-DF	0	0	WG	N	1	LF	2023-11-08 09:40 AM	2311SG-22DF	UNITED CARGO	016-97593930	11/8/2023	11/9/2023	SGSO	FC11097B			S2BVEM	Sampled					•								
	RHP03	WL	RHP03-WGN01LF-2311-DF	0	0	WG	N	1	LF	2023-11-08 11:35 AM	2311AL-23DF	FEDEX	786125912937	11/8/2023	11/9/2023	ALGK	K2312749			S2BVEM	Sampled						•		•					
	RHP03	WL	RHP03-WGN01LF-2311-DF	0	0	WG	N	1	LF	2023-11-08 11:35 AM	2311SG-23DF	UNITED CARGO	016-97593930	11/8/2023	11/9/2023	SGSO	FC11097			S2BVEM	Sampled; No SGC		•		•			•		•	•	•	•	

Site	Location	Location Type	Field Sample ID	Begin Depth	End Depth	Matrix	Sample Type	Sample No.	Samp. Method	Sampling Date	Chain of Custody	Shipping Method	Shipment Tracking Number	Laboratory Shipped Date	Laboratory Receipt Date	Lab	SDG	TAT (Days)	Validation TAT (Days)	Review Type	Sampling Status	22MEE (SW8270D)	BNA SIM SGS 18 Analytes (BNASIME)	BNA SIM SGS 3 NAPHs (BNASIME)	EDB SGS (SW8011)	Methane (RSK175)	NPOC (SW9060A)	Phenol SGS (SW8270)	TOC (SW9060A)	TPH Diesel and Oil SGS (SW8015C)	TPH Diesel and Oil Silica Gel EU SGS (M8015D)	TPH Gasoline SGS (M8015V)	VOCs BTEX and 12DCA SGS (SW8260D)	VOCs BTEX SGS (SW8260D)
	RHP03	WL	RHP03-WGN01LF-2311-DF	0	0	WG	N	1	LF	2023-11-08 11:35 AM	2311SG-23DF	UNITED CARGO	016-97593930	11/8/2023	11/9/2023	SGSO	FC11097B			S2BVEM	Sampled; No SGC					•										
	RHP04A	WL	RHP04A-WGN01LF-2311-DF	0	0	WG	N	1	LF	2023-11-07 11:25 AM	2311AL-24DF	ALASKA CARGO	027-72996851	11/7/2023	11/9/2023	ALGK	K2312760			S2BVEM	Sampled						•		•						
	RHP04A	WL	RHP04A-WGN01LF-2311-DF	0	0	WG	N	1	LF	2023-11-07 11:25 AM	2311SG-24DF	UNITED CARGO	016-98547525	11/7/2023	11/8/2023	SGSO	FC11063			S2BVEM	Sampled; No SGC		•		•			•		•	•	•	•		
	RHP04A	WL	RHP04A-WGN01LF-2311-DF	0	0	WG	N	1	LF	2023-11-07 11:25 AM	2311SG-24DF	UNITED CARGO	016-98547525	11/7/2023	11/8/2023	SGSO	FC11063B			S2BVEM	Sampled; No SGC					•									
	RHP04B	WL	RHP04B-WGN01LF-2311-DF	0	0	WG	N	1	LF	2023-11-07 08:50 AM	2311AL-25DF	ALASKA CARGO	027-72996851	11/7/2023	11/9/2023	ALGK	K2312760			S2BVEM	Sampled						•		•						
	RHP04B	WL	RHP04B-WGN01LF-2311-DF	0	0	WG	N	1	LF	2023-11-07 08:50 AM	2311SG-25DF	UNITED CARGO	016-98547525	11/7/2023	11/8/2023	SGSO	FC11063			S2BVEM	Sampled; No SGC		•		•			•		•	•	•	•		
	RHP04B	WL	RHP04B-WGN01LF-2311-DF	0	0	WG	N	1	LF	2023-11-07 08:50 AM	2311SG-25DF	UNITED CARGO	016-98547525	11/7/2023	11/8/2023	SGSO	FC11063B			S2BVEM	Sampled; No SGC					•									
	RHP04C	WL	RHP04C-WGFD01LF-2311-DF	0	0	WG	FD	1	LF	2023-11-06 08:55 AM	2311SG-26DF	UNITED CARGO	016-97046504	11/6/2023	11/7/2023	SGSO	FC11019			S2BVEM	Sampled; No SGC		•					•		•	•	•	•		
	RHP04C	WL	RHP04C-WGN01LF-2311-DF	0	0	WG	N	1	LF	2023-11-06 08:55 AM	2311AL-26DF	ALASKA CARGO	027-72996836	11/6/2023	11/7/2023	ALGK	K2312628			S2BVEM	Sampled						•		•						
	RHP04C	WL	RHP04C-WGN01LF-2311-DF	0	0	WG	N	1	LF	2023-11-06 08:55 AM	2311SG-26DF	UNITED CARGO	016-97046504	11/6/2023	11/7/2023	SGSO	FC11019			S2BVEM	Sampled; No SGC		•		•			•		•	•	•	•		
	RHP04C	WL	RHP04C-WGN01LF-2311-DF	0	0	WG	N	1	LF	2023-11-06 08:55 AM	2311SG-26DF	UNITED CARGO	016-97046504	11/6/2023	11/7/2023	SGSO	FC11019B			S4VEM	Sampled; No SGC					•									
	RHP05	WL	RHP05-WGN01LF-2311-DF	0	0	WG	N	1	LF	2023-11-08 09:10 AM	2311AL-27DF	FEDEX	786125912937	11/8/2023	11/9/2023	ALGK	K2312749			S2BVEM	Sampled						•		•						
	RHP05	WL	RHP05-WGN01LF-2311-DF	0	0	WG	N	1	LF	2023-11-08 09:10 AM	2311SG-27DF	UNITED CARGO	016-97593930	11/8/2023	11/9/2023	SGSO	FC11097			S2BVEM	Sampled; No SGC		•		•			•		•	•	•	•		
	RHP05	WL	RHP05-WGN01LF-2311-DF	0	0	WG	N	1	LF	2023-11-08 09:10 AM	2311SG-27DF	UNITED CARGO	016-97593930	11/8/2023	11/9/2023	SGSO	FC11097B			S2BVEM	Sampled; No SGC					•									
	RHP06	WL	RHP06-WGN01LF-2311-DF	0	0	WG	N	1	LF	2023-11-08 10:50 AM	2311AL-30DF	FEDEX	786125912937	11/8/2023	11/9/2023	ALGK	K2312749			S2BVEM	Sampled						•		•						
	RHP06	WL	RHP06-WGN01LF-2311-DF	0	0	WG	N	1	LF	2023-11-08 10:50 AM	2311SG-30DF	UNITED CARGO	016-97593930	11/8/2023	11/9/2023	SGSO	FC11097			S2BVEM	Sampled; No SGC		•		•			•		•	•	•	•		
	RHP06	WL	RHP06-WGN01LF-2311-DF	0	0	WG	N	1	LF	2023-11-08 10:50 AM	2311SG-30DF	UNITED CARGO	016-97593930	11/8/2023	11/9/2023	SGSO	FC11097B			S2BVEM	Sampled; No SGC					•									
	RHP07	WL	RHP07-WGN01LF-2311-DF	0	0	WG	N	1	LF	2023-11-10 09:25 AM	2311AL-28DF	FEDEX	786230458102	11/10/2023	11/11/2023	ALGK	K2312868			S2BVEM	Sampled						•		•						
	RHP07	WL	RHP07-WGN01LF-2311-DF	0	0	WG	N	1	LF	2023-11-10 09:25 AM	2311SG-28DF	UNITED CARGO	016-97328114	11/10/2023	11/11/2023	SGSO	FC11171			S2BVEM	Sampled; No SGC		•		•			•		•	•	•	•		
	RHP07	WL	RHP07-WGN01LF-2311-DF	0	0	WG	N	1	LF	2023-11-10 09:25 AM	2311SG-28DF	UNITED CARGO	016-97328114	11/10/2023	11/11/2023	SGSO	FC11171B			S2BVEM	Sampled; No SGC					•									
	RHP08	WL	RHP08-WGN01LF-2311-DF	0	0	WG	N	1	LF	2023-11-06 11:30 AM	2311AL-29DF	ALASKA CARGO	027-72996836	11/6/2023	11/7/2023	ALGK	K2312628			S2BVEM	Sampled						•		•						
	RHP08	WL	RHP08-WGN01LF-2311-DF	0	0	WG	N	1	LF	2023-11-06 11:30 AM	2311SG-29DF	UNITED CARGO	016-97046504	11/6/2023	11/7/2023	SGSO	FC11019			S2BVEM	Sampled; No SGC		•		•			•		•	•	•	•		
	RHP08	WL	RHP08-WGN01LF-2311-DF	0	0	WG	N	1	LF	2023-11-06 11:30 AM	2311SG-29DF	UNITED CARGO	016-97046504	11/6/2023	11/7/2023	SGSO	FC11019B			S4VEM	Sampled; No SGC					•									
																					S4VEM Count	***0***	***2***	***0***	***2***	***8***	***0***	***2***	***0***	***2***	***2***	***2***	***2***	***0***
																					S2BVEM Count	***21***	***33***	***1***	***23***	***22***	***30***	***33***	***30***	***34***	***34***	***33***	***24***	***9***
																					Site Location Count	***21***	***35***	***1***	***25***	***30***	***30***	***35***	***30***	***36***	***36***	***35***	***26***	***9***
																					Total Location Count	***23***	***40***	***1***	***29***	***35***	***35***	***40***	***35***	***41***	***41***	***40***	***29***	***11***

Note: This event has missing samples in Event Management that are Field QC ONLY. Please refer to the Unplanned Field Samples report to view these samples.

Status	Color
Status Not Determined	
Scheduled for Analysis; Awaiting Field Data	
Chain of Custody Data Loaded and Certified; Awaiting Lab Data	
Laboratory Data Loaded and Certified; Awaiting Validation	
Validation Qualifiers Finalized; Awaiting Approval	
Approval Complete; Data In Production	

Matrix Name	Matrix
Ground Water	WG

Sampling Method	Code
Grab	G
Low-Flow (Slow Purge) Groundwater Pumping	LF

Laboratory Name	Laboratory Code
Agriculture & Priority Pollutants Laboratories, Inc	APPL
ALS Laboratory Group, Kelso, WA	ALGK
SGS North America, Inc., Orlando, FL	SGSO

Location Type	Code
Well	WL

Event Status Report
RH Consolidated Groundwater Program
RHS CGW UFP-QAPP

Event Name: Defueling 2023 November

Event ID: 2130

Site	Location	Location Type	Field Sample ID	Begin Depth	End Depth	Matrix	Sample Type	Sample No.	Samp. Method	Sampling Date	Chain of Custody	Shipping Method	Shipment Tracking Number	Laboratory Shipped Date	Laboratory Receipt Date	Lab	SDG	TAT (Days)	Validation TAT (Days)	Review Type	Sampling Status	22MEE (SW8270D)	BNA SIM SGS 18 Analytes (BNASIME)	BNA SIM SGS 3 NAPHs (BNASIME)	EDB SGS (SW8011)	Phenol SGS (SW8270)	TPH Diesel and Oil SGS (SW8015C)	TPH Diesel and Oil Silica Gel EU SGS (M8015D)	TPH Gasoline SGS (M8015V)	VOCs BTEX and 12DCA SGS (SW8260D)
Halawa Correctional Facility	RHMW11-05	WL	RHMW11-05-WGN01G-2311WK2-DF	0	0	WG	N	1	G	2023-11-15 12:15 PM	2311W2DFAP12	FEDEX	786449435399	11/15/2023	11/16/2023	APPL	23K0134			S2BVEM	Sampled	•								
	RHMW11-05	WL	RHMW11-05-WGN01G-2311WK2-DF	0	0	WG	N	1	G	2023-11-15 12:15 PM	2311W2DFSG12	UNITED CARGO	016-12733195	11/15/2023	11/16/2023	SGSO	FC11293			S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
	RHMW11-05	WL	RHMW11-05-WGN01G-2311WK3-DF	0	0	WG	N	1	G	2023-11-22 01:25 PM	2311W3DFAP12	UNITED CARGO	016-45974622	11/22/2023	11/23/2023	APPL	23K0214			S2BVEM	Sampled	•								
	RHMW11-05	WL	RHMW11-05-WGN01G-2311WK3-DF	0	0	WG	N	1	G	2023-11-22 01:25 PM	2311W3DFSG12	UNITED CARGO	016-30287950	11/22/2023	11/23/2023	SGSO	FC11474			S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
	RHMW11-05	WL	RHMW11-05-WGN01G-2311WK4-DF	0	0	WG	N	1	G	2023-11-27 12:10 PM	2311W4DFAP12	FEDEX	787045625680	11/27/2023	11/28/2023	APPL	23K0219			S2BVEM	Sampled	•								
	RHMW11-05	WL	RHMW11-05-WGN01G-2311WK4-DF	0	0	WG	N	1	G	2023-11-27 12:10 PM	2311W4DFSG12	UNITED CARGO	016-74766333	11/27/2023	11/28/2023	SGSO	FC11512			S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
	RHMW14-03	WL	RHMW14-03-WGN01G-2311WK2-DF	0	0	WG	N	1	G	2023-11-15 09:00 AM	2311W2DFAP14	FEDEX	786449435399	11/15/2023	11/16/2023	APPL	23K0134			S2BVEM	Sampled	•								
	RHMW14-03	WL	RHMW14-03-WGN01G-2311WK2-DF	0	0	WG	N	1	G	2023-11-15 09:00 AM	2311W2DFSG14	UNITED CARGO	016-12733195	11/15/2023	11/16/2023	SGSO	FC11293			S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
	RHMW14-03	WL	RHMW14-03-WGN01G-2311WK3-DF	0	0	WG	N	1	G	2023-11-22 09:30 AM	2311W3DFAP14	UNITED CARGO	016-45974622	11/22/2023	11/23/2023	APPL	23K0214			S2BVEM	Sampled	•								
	RHMW14-03	WL	RHMW14-03-WGN01G-2311WK3-DF	0	0	WG	N	1	G	2023-11-22 09:30 AM	2311W3DFSG14	UNITED CARGO	016-30287950	11/22/2023	11/23/2023	SGSO	FC11474			S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
	RHMW14-03	WL	RHMW14-03-WGN01G-2311WK4-DF	0	0	WG	N	1	G	2023-11-27 09:00 AM	2311W4DFAP14	FEDEX	787045625680	11/27/2023	11/28/2023	APPL	23K0219			S2BVEM	Sampled	•								
	RHMW14-03	WL	RHMW14-03-WGN01G-2311WK4-DF	0	0	WG	N	1	G	2023-11-27 09:00 AM	2311W4DFSG14	UNITED CARGO	016-74766333	11/27/2023	11/28/2023	SGSO	FC11512			S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
																					S2BVEM Count	*6*	*6*	*0*	*6*	*6*	*6*	*6*	*6*	*6*
																					Site Location Count	*6*	*6*	*0*	*6*	*6*	*6*	*6*	*6*	*6*
	RHMW01R	WL	RHMW01R-WGN01LF-2311WK2-DF	0	0	WG	N	1	LF	2023-11-13 08:00 AM	2311W2DFSG01	UNITED CARGO	016-12631603	11/13/2023	11/14/2023	SGSO	FC11221			S2BVEM	Sampled			•			•	•		
	RHMW01R	WL	RHMW01R-WGN01LF-2311WK3-DF	0	0	WG	N	1	LF	2023-11-24 09:10 AM	2311W3DFSG01	UNITED CARGO	016-45602524	11/24/2023	11/25/2023	SGSO	FC11477			S2BVEM	Sampled			•			•	•		
	RHMW01R	WL	RHMW01R-WGN01LF-2311WK4-DF	0	0	WG	N	1	LF	2023-12-01 10:15 AM	2311W4DFSG01	UNITED CARGO	016-74768816	12/1/2023	12/2/2023	SGSO	FC11651			S2BVEM	Sampled			•			•	•		
	RHMW02	WL	RHMW02-WGFD01LF-2311WK2-DF	0	0	WG	FD	1	LF	2023-11-17 02:00 PM	2311W2DFSG07	UNITED CARGO	016-12733210	11/17/2023	11/18/2023	SGSO	FC11366			S2BVEM	Sampled			•			•	•		
	RHMW02	WL	RHMW02-WGFD01LF-2311WK3-DF	0	0	WG	FD	1	LF	2023-11-21 09:35 AM	2311W3DFSG07	UNITED CARGO	016-30287946	11/21/2023	11/22/2023	SGSO	FC11473			S2BVEM	Sampled			•			•	•		
	RHMW02	WL	RHMW02-WGFD01LF-2311WK4-DF	0	0	WG	FD	1	LF	2023-12-01 11:30 AM	2311W4DFSG07	UNITED CARGO	016-74768816	12/1/2023	12/2/2023	SGSO	FC11651			S2BVEM	Sampled			•			•	•		
	RHMW02	WL	RHMW02-WGN01LF-2311WK2-DF	0	0	WG	N	1	LF	2023-11-17 02:00 PM	2311W2DFSG07	UNITED CARGO	016-12733210	11/17/2023	11/18/2023	SGSO	FC11366			S2BVEM	Sampled			•			•	•		
	RHMW02	WL	RHMW02-WGN01LF-2311WK3-DF	0	0	WG	N	1	LF	2023-11-21 09:35 AM	2311W3DFSG07	UNITED CARGO	016-30287946	11/21/2023	11/22/2023	SGSO	FC11473			S2BVEM	Sampled			•			•	•		
	RHMW02	WL	RHMW02-WGN01LF-2311WK4-DF	0	0	WG	N	1	LF	2023-12-01 11:30 AM	2311W4DFSG07	UNITED CARGO	016-74768816	12/1/2023	12/2/2023	SGSO	FC11651			S2BVEM	Sampled			•			•	•		
	RHMW03	WL	RHMW03-WGN01LF-2311WK2-DF	0	0	WG	N	1	LF	2023-11-17 02:00 PM	2311W2DFSG06	UNITED CARGO	016-12733210	11/17/2023	11/18/2023	SGSO	FC11366			S2BVEM	Sampled			•			•	•		
	RHMW03	WL	RHMW03-WGN01LF-2311WK3-DF	0	0	WG	N	1	LF	2023-11-21 11:25 AM	2311W3DFSG06	UNITED CARGO	016-30287946	11/21/2023	11/22/2023	SGSO	FC11473			S2BVEM	Sampled			•			•	•		
	RHMW03	WL	RHMW03-WGN01LF-2311WK4-DF	0	0	WG	N	1	LF	2023-11-28 10:35 AM	2311W4DFSG06	UNITED CARGO	016-74766344	11/28/2023	11/29/2023	SGSO	FC11564			S2BVEM	Sampled; No SGC			•			•	•		
	RHMW04	WL	RHMW04-WGN01LF-2311WK2-DF	0	0	WG	N	1	LF	2023-11-13 09:05 AM	2311W2DFAP08	FEDEX	786335312731	11/13/2023	11/14/2023	APPL	23K0106			S2BVEM	Sampled	•								
	RHMW04	WL	RHMW04-WGN01LF-2311WK2-DF	0	0	WG	N	1	LF	2023-11-13 09:05 AM	2311W2DFSG08	UNITED CARGO	016-12631603	11/13/2023	11/14/2023	SGSO	FC11221			S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
	RHMW04	WL	RHMW04-WGN01LF-2311WK3-DF	0	0	WG	N	1	LF	2023-11-20 09:35 AM	2311W3DFAP08	UNITED CARGO	016-31255792	11/20/2023	11/21/2023	APPL	23K0183			S2BVEM	Sampled	•								
	RHMW04	WL	RHMW04-WGN01LF-2311WK3-DF	0	0	WG	N	1	LF	2023-11-20 09:35 AM	2311W3DFSG08	UNITED CARGO	016-30287935	11/20/2023	11/21/2023	SGSO	FC11419			S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
	RHMW04	WL	RHMW04-WGN01LF-2311WK4-DF	0	0	WG	N	1	LF	2023-11-27 09:20 AM	2311W4DFAP08	FEDEX	787045625680	11/27/2023	11/28/2023	APPL	23K0219			S2BVEM	Sampled	•								
	RHMW04	WL	RHMW04-WGN01LF-2311WK4-DF	0	0	WG	N	1	LF	2023-11-27 09:20 AM	2311W4DFSG08	UNITED CARGO	016-74766333	11/27/2023	11/28/2023	SGSO	FC11512			S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
	RHMW05	WL	RHMW05-WGN01LF-2311WK2-DF	0	0	WG	N	1	LF	2023-11-14 10:20 AM	2311W2DFSG05	UNITED CARGO	016-12733184	11/14/2023	11/15/2023	SGSO	FC11263			S2BVEM	Sampled; No SGC			•			•	•		
	RHMW05	WL	RHMW05-WGN01LF-2311WK3-DF	0	0	WG	N	1	LF	2023-11-21 10:15 AM	2311W3DFSG05	UNITED CARGO	016-30287946	11/21/2023	11/22/2023	SGSO	FC11473			S2BVEM	Sampled; No SGC			•			•	•		
	RHMW05	WL	RHMW05-WGN01LF-2311WK4-DF	0	0	WG	N	1	LF	2023-11-28 11:00 AM	2311W4DFSG05	UNITED CARGO	016-74766344	11/28/2023	11/29/2023	SGSO	FC11564			S2BVEM	Sampled; No SGC			•			•	•		
	RHMW06	WL	RHMW06-WGN01LF-2311WK2-DF	0	0	WG	N	1	LF	2023-11-13 10:50 AM	2311W2DFAP09	FEDEX	786335312731	11/13/2023	11/14/2023	APPL	23K0106			S2BVEM	Sampled	•								

Event Status Report
RH Consolidated Groundwater Program
RHS CGW UFP-QAPP

RHMW06	WL	RHMW06-WGN01LF-2311WK2-DF	0	0	WG	N	1	LF	2023-11-13 10:50 AM	2311W2DFSG09	UNITED CARGO	016-12631603	11/13/2023	11/14/2023	SGSO	FC11221	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHMW06	WL	RHMW06-WGN01LF-2311WK3-DF	0	0	WG	N	1	LF	2023-11-20 11:45 AM	2311W3DFAP09	UNITED CARGO	016-31255792	11/20/2023	11/21/2023	APPL	23K0183	S2BVEM	Sampled	•								
RHMW06	WL	RHMW06-WGN01LF-2311WK3-DF	0	0	WG	N	1	LF	2023-11-20 11:45 AM	2311W3DFSG09	UNITED CARGO	016-30287935	11/20/2023	11/21/2023	SGSO	FC11419	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHMW06	WL	RHMW06-WGN01LF-2311WK4-DF	0	0	WG	N	1	LF	2023-11-27 11:15 AM	2311W4DFAP09	FEDEX	787045625680	11/27/2023	11/28/2023	APPL	23K0219	S2BVEM	Sampled	•								
RHMW06	WL	RHMW06-WGN01LF-2311WK4-DF	0	0	WG	N	1	LF	2023-11-27 11:15 AM	2311W4DFSG09	UNITED CARGO	016-74766333	11/27/2023	11/28/2023	SGSO	FC11512	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHMW08	WL	RHMW08-WGN01LF-2311WK2-DF	0	0	WG	N	1	LF	2023-11-14 10:05 AM	2311W2DFSG04	UNITED CARGO	016-12733184	11/14/2023	11/15/2023	SGSO	FC11263	S2BVEM	Sampled; No SGC			•			•	•		
RHMW08	WL	RHMW08-WGN01LF-2311WK3-DF	0	0	WG	N	1	LF	2023-11-20 10:35 AM	2311W3DFSG04	UNITED CARGO	016-30287935	11/20/2023	11/21/2023	SGSO	FC11419	S2BVEM	Sampled; No SGC			•			•	•		
RHMW08	WL	RHMW08-WGN01LF-2311WK4-DF	0	0	WG	N	1	LF	2023-11-28 11:45 AM	2311W4DFSG04	UNITED CARGO	016-74766344	11/28/2023	11/29/2023	SGSO	FC11564	S2BVEM	Sampled; No SGC			•			•	•		
RHMW09	WL	RHMW09-WGN01LF-2311WK2-DF	0	0	WG	N	1	LF	2023-11-14 11:45 AM	2311W2DFAP10	FEDEX	786392607152	11/14/2023	11/15/2023	APPL	23K0123	S2BVEM	Sampled	•								
RHMW09	WL	RHMW09-WGN01LF-2311WK2-DF	0	0	WG	N	1	LF	2023-11-14 11:45 AM	2311W2DFSG10	UNITED CARGO	016-12733184	11/14/2023	11/15/2023	SGSO	FC11263	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHMW09	WL	RHMW09-WGN01LF-2311WK3-DF	0	0	WG	N	1	LF	2023-11-20 09:20 AM	2311W3DFAP10	UNITED CARGO	016-31255792	11/20/2023	11/21/2023	APPL	23K0183	S2BVEM	Sampled	•								
RHMW09	WL	RHMW09-WGN01LF-2311WK3-DF	0	0	WG	N	1	LF	2023-11-20 09:20 AM	2311W3DFSG10	UNITED CARGO	016-30287935	11/20/2023	11/21/2023	SGSO	FC11419	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHMW09	WL	RHMW09-WGN01LF-2311WK4-DF	0	0	WG	N	1	LF	2023-11-27 09:40 AM	2311W4DFAP10	FEDEX	787045625680	11/27/2023	11/28/2023	APPL	23K0219	S2BVEM	Sampled	•								
RHMW09	WL	RHMW09-WGN01LF-2311WK4-DF	0	0	WG	N	1	LF	2023-11-27 09:40 AM	2311W4DFSG10	UNITED CARGO	016-74766333	11/27/2023	11/28/2023	SGSO	FC11512	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHMW10	WL	RHMW10-WGN01LF-2311WK2-DF	0	0	WG	N	1	LF	2023-11-13 01:10 PM	2311W2DFAP11	FEDEX	786335312731	11/13/2023	11/14/2023	APPL	23K0106	S2BVEM	Sampled	•								
RHMW10	WL	RHMW10-WGN01LF-2311WK2-DF	0	0	WG	N	1	LF	2023-11-13 01:10 PM	2311W2DFSG11	UNITED CARGO	016-12631603	11/13/2023	11/14/2023	SGSO	FC11221	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHMW10	WL	RHMW10-WGN01LF-2311WK3-DF	0	0	WG	N	1	LF	2023-11-21 10:05 AM	2311W3DFAP11	FEDEX	786730618965	11/21/2023	11/22/2023	APPL	23K0205	S2BVEM	Sampled	•								
RHMW10	WL	RHMW10-WGN01LF-2311WK3-DF	0	0	WG	N	1	LF	2023-11-21 10:05 AM	2311W3DFSG11	UNITED CARGO	016-30287946	11/21/2023	11/22/2023	SGSO	FC11473	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHMW10	WL	RHMW10-WGN01LF-2311WK4-DF	0	0	WG	N	1	LF	2023-11-29 11:35 AM	2311W4DFAP11	FEDEX	787206517450	11/29/2023	11/30/2023	APPL	23K0236	S2BVEM	Sampled	•								
RHMW10	WL	RHMW10-WGN01LF-2311WK4-DF	0	0	WG	N	1	LF	2023-11-29 11:35 AM	2311W4DFSG11	UNITED CARGO	016-74766355	11/29/2023	11/30/2023	SGSO	FC11596	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHMW13-04	WL	RHMW13-04-WGN01G-2311WK2-DF	0	0	WG	N	1	G	2023-11-14 09:30 AM	2311W2DFAP13	FEDEX	786392607152	11/14/2023	11/15/2023	APPL	23K0123	S2BVEM	Sampled	•								
RHMW13-04	WL	RHMW13-04-WGN01G-2311WK2-DF	0	0	WG	N	1	G	2023-11-14 09:30 AM	2311W2DFSG13	UNITED CARGO	016-12733184	11/14/2023	11/15/2023	SGSO	FC11263	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHMW13-04	WL	RHMW13-04-WGN01G-2311WK3-DF	0	0	WG	N	1	G	2023-11-20 09:50 AM	2311W3DFAP13	UNITED CARGO	016-31255792	11/20/2023	11/21/2023	APPL	23K0183	S2BVEM	Sampled	•								
RHMW13-04	WL	RHMW13-04-WGN01G-2311WK3-DF	0	0	WG	N	1	G	2023-11-20 09:50 AM	2311W3DFSG13	UNITED CARGO	016-30287935	11/20/2023	11/21/2023	SGSO	FC11419	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHMW13-04	WL	RHMW13-04-WGN01G-2311WK4-DF	0	0	WG	N	1	G	2023-11-28 09:20 AM	2311W4DFAP13	FEDEX	787133256427	11/28/2023	11/29/2023	APPL	23K0231	S4VEM	Sampled	•								
RHMW13-04	WL	RHMW13-04-WGN01G-2311WK4-DF	0	0	WG	N	1	G	2023-11-28 09:20 AM	2311W4DFSG13	UNITED CARGO	016-74766344	11/28/2023	11/29/2023	SGSO	FC11564	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHMW15-05	WL	RHMW15-05-WGN01G-2311WK2-DF	0	0	WG	N	1	G	2023-11-13 09:30 AM	2311W2DFAP15	FEDEX	786335312731	11/13/2023	11/14/2023	APPL	23K0106	S2BVEM	Sampled	•								
RHMW15-05	WL	RHMW15-05-WGN01G-2311WK2-DF	0	0	WG	N	1	G	2023-11-13 09:30 AM	2311W2DFSG15	UNITED CARGO	016-12631603	11/13/2023	11/14/2023	SGSO	FC11221	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHMW15-05	WL	RHMW15-05-WGN01G-2311WK3-DF	0	0	WG	N	1	G	2023-11-21 09:15 AM	2311W3DFAP15	FEDEX	786730618965	11/21/2023	11/22/2023	APPL	23K0205	S2BVEM	Sampled	•								
RHMW15-05	WL	RHMW15-05-WGN01G-2311WK3-DF	0	0	WG	N	1	G	2023-11-21 09:15 AM	2311W3DFSG15	UNITED CARGO	016-30287946	11/21/2023	11/22/2023	SGSO	FC11473	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHMW15-05	WL	RHMW15-05-WGN01G-2311WK4-DF	0	0	WG	N	1	G	2023-11-29 09:40 AM	2311W4DFAP15	FEDEX	787206517450	11/29/2023	11/30/2023	APPL	23K0236	S2BVEM	Sampled	•								
RHMW15-05	WL	RHMW15-05-WGN01G-2311WK4-DF	0	0	WG	N	1	G	2023-11-29 09:40 AM	2311W4DFSG15	UNITED CARGO	016-74766355	11/29/2023	11/30/2023	SGSO	FC11596	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHMW16	WL	RHMW16-WGN01LF-2311WK2-DF	0	0	WG	N	1	LF	2023-11-13 11:30 AM	2311W2DFAP16	FEDEX	786335312731	11/13/2023	11/14/2023	APPL	23K0106	S2BVEM	Sampled	•								
RHMW16	WL	RHMW16-WGN01LF-2311WK2-DF	0	0	WG	N	1	LF	2023-11-13 11:30 AM	2311W2DFSG16	UNITED CARGO	016-12631603	11/13/2023	11/14/2023	SGSO	FC11221	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHMW16	WL	RHMW16-WGN01LF-2311WK3-DF	0	0	WG	N	1	LF	2023-11-20 02:05 PM	2311W3DFAP16	UNITED CARGO	016-31255792	11/20/2023	11/21/2023	APPL	23K0183	S2BVEM	Sampled	•								
RHMW16	WL	RHMW16-WGN01LF-2311WK3-DF	0	0	WG	N	1	LF	2023-11-20 02:05 PM	2311W3DFSG16	UNITED CARGO	016-30287935	11/20/2023	11/21/2023	SGSO	FC11419	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHMW16	WL	RHMW16-WGN01LF-2311WK4-DF	0	0	WG	N	1	LF	2023-11-28 10:15 AM	2311W4DFAP16	FEDEX	787133256427	11/28/2023	11/29/2023	APPL	23K0231	S4VEM	Sampled	•								
RHMW16	WL	RHMW16-WGN01LF-2311WK4-DF	0	0	WG	N	1	LF	2023-11-28 10:15 AM	2311W4DFSG16	UNITED CARGO	016-74766344	11/28/2023	11/29/2023	SGSO	FC11564	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHMW17	WL	RHMW17-WGN01LF-2311WK2-DF	0	0	WG	N	1	LF	2023-11-15 10:55 AM	2311W2DFAP17	FEDEX	786449435399	11/15/2023	11/16/2023	APPL	23K0134	S2BVEM	Sampled	•								
RHMW17	WL	RHMW17-WGN01LF-2311WK2-DF	0	0	WG	N	1	LF	2023-11-15 10:55 AM	2311W2DFSG17	UNITED CARGO	016-12733195	11/15/2023	11/16/2023	SGSO	FC11293	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHMW17	WL	RHMW17-WGN01LF-2311WK3-DF	0	0	WG	N	1	LF	2023-11-22 12:15 PM	2311W3DFAP17	UNITED CARGO	016-45974622	11/22/2023	11/23/2023	APPL	23K0214	S2BVEM	Sampled	•								
RHMW17	WL	RHMW17-WGN01LF-2311WK3-DF	0	0	WG	N	1	LF	2023-11-22 12:15 PM	2311W3DFSG17	UNITED CARGO	016-30287950	11/22/2023	11/23/2023	SGSO	FC11474	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHMW17	WL	RHMW17-WGN01LF-2311WK4-DF	0	0	WG	N	1	LF	2023-11-28 02:20 PM	2311W4DFAP17	FEDEX	787133256427	11/28/2023	11/29/2023	APPL	23K0231	S4VEM	Sampled	•								
RHMW17	WL	RHMW17-WGN01LF-2311WK4-DF	0	0	WG	N	1	LF	2023-11-28 02:20 PM	2311W4DFSG17	UNITED CARGO	016-74766344	11/28/2023	11/29/2023	SGSO	FC11564	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHMW19	WL	RHMW19-WGN01LF-2311WK2-DF	0	0	WG	N	1	LF	2023-11-14 09:30 AM	2311W2DFAP19	FEDEX	786392607152	11/14/2023	11/15/2023	APPL	23K0123	S2BVEM	Sampled	•								
RHMW19	WL	RHMW19-WGN01LF-2311WK2-DF	0	0	WG	N	1	LF	2023-11-14 09:30 AM	2311W2DFSG19	UNITED CARGO	016-12733184	11/14/2023	11/15/2023	SGSO	FC11263	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHMW19	WL	RHMW19-WGN01LF-2311WK3-DF	0	0	WG	N	1	LF	2023-11-20 12:00 PM	2311W3DFAP19	UNITED CARGO	016-31255792	11/20/2023	11/21/2023	APPL	23K0183	S2BVEM	Sampled	•								

Event Status Report
RH Consolidated Groundwater Program
RHS CGW UFP-QAPP

Red Hill Bulk Fuel Storage Facility

RHMW19	WL	RHMW19-WGN01LF-2311WK3-DF	0	0	WG	N	1	LF	2023-11-20 12:00 PM	2311W3DFSG19	UNITED CARGO	016-30287935	11/20/2023	11/21/2023	SGSO	FC11419	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHMW19	WL	RHMW19-WGN01LF-2311WK4-DF	0	0	WG	N	1	LF	2023-11-27 12:00 PM	2311W4DFAP18	FEDEX	787045625680	11/27/2023	11/28/2023	APPL	23K0219	S2BVEM	Sampled	•								
RHMW19	WL	RHMW19-WGN01LF-2311WK4-DF	0	0	WG	N	1	LF	2023-11-27 12:00 PM	2311W4DFSG18	UNITED CARGO	016-74766333	11/27/2023	11/28/2023	SGSO	FC11512	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHMW20	WL	RHMW20-WGN01LF-2311WK2-DF	0	0	WG	N	1	LF	2023-11-14 09:15 AM	2311W2DFAP20	FEDEX	786392607152	11/14/2023	11/15/2023	APPL	23K0123	S2BVEM	Sampled	•								
RHMW20	WL	RHMW20-WGN01LF-2311WK2-DF	0	0	WG	N	1	LF	2023-11-14 09:15 AM	2311W2DFSG20	UNITED CARGO	016-12733184	11/14/2023	11/15/2023	SGSO	FC11263	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHMW20	WL	RHMW20-WGN01LF-2311WK3-DF	0	0	WG	N	1	LF	2023-11-21 10:40 AM	2311W3DFAP20	FEDEX	786730618965	11/21/2023	11/22/2023	APPL	23K0205	S2BVEM	Sampled	•								
RHMW20	WL	RHMW20-WGN01LF-2311WK3-DF	0	0	WG	N	1	LF	2023-11-21 10:40 AM	2311W3DFSG20	UNITED CARGO	016-30287946	11/21/2023	11/22/2023	SGSO	FC11473	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHMW20	WL	RHMW20-WGN01LF-2311WK4-DF	0	0	WG	N	1	LF	2023-11-29 11:00 AM	2311W4DFAP19	FEDEX	787206517450	11/29/2023	11/30/2023	APPL	23K0236	S2BVEM	Sampled	•								
RHMW20	WL	RHMW20-WGN01LF-2311WK4-DF	0	0	WG	N	1	LF	2023-11-29 11:00 AM	2311W4DFSG19	UNITED CARGO	016-74766355	11/29/2023	11/30/2023	SGSO	FC11596	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHMW2254-01	WL	RHMW2254-01-WGF01LF-2311WK2-DF	0	0	WG	FD	1	LF	2023-11-14 08:00 AM	2311W2DFSG03	UNITED CARGO	016-12733184	11/14/2023	11/15/2023	SGSO	FC11263	S2BVEM	Sampled; No SGC			•			•	•		
RHMW2254-01	WL	RHMW2254-01-WGF01LF-2311WK3-DF	0	0	WG	FD	1	LF	2023-11-21 09:05 AM	2311W3DFSG03	UNITED CARGO	016-30287946	11/21/2023	11/22/2023	SGSO	FC11473	S2BVEM	Sampled; No SGC			•			•	•		
RHMW2254-01	WL	RHMW2254-01-WGF01LF-2311WK4-DF	0	0	WG	FD	1	LF	2023-11-28 12:15 PM	2311W4DFSG03	UNITED CARGO	016-74766344	11/28/2023	11/29/2023	SGSO	FC11564	S2BVEM	Sampled; No SGC			•			•	•		
RHMW2254-01	WL	RHMW2254-01-WGN01LF-2311WK2-DF	0	0	WG	N	1	LF	2023-11-14 08:00 AM	2311W2DFSG03	UNITED CARGO	016-12733184	11/14/2023	11/15/2023	SGSO	FC11263	S2BVEM	Sampled; No SGC			•			•	•		
RHMW2254-01	WL	RHMW2254-01-WGN01LF-2311WK3-DF	0	0	WG	N	1	LF	2023-11-21 09:05 AM	2311W3DFSG03	UNITED CARGO	016-30287946	11/21/2023	11/22/2023	SGSO	FC11473	S2BVEM	Sampled; No SGC			•			•	•		
RHMW2254-01	WL	RHMW2254-01-WGN01LF-2311WK4-DF	0	0	WG	N	1	LF	2023-11-28 12:15 PM	2311W4DFSG03	UNITED CARGO	016-74766344	11/28/2023	11/29/2023	SGSO	FC11564	S2BVEM	Sampled; No SGC			•			•	•		
RHP01	WL	RHP01-WGN01LF-2311WK2-DF	0	0	WG	N	1	LF	2023-11-13 09:35 AM	2311W2DFAP21	FEDEX	786335312731	11/13/2023	11/14/2023	APPL	23K0106	S2BVEM	Sampled	•								
RHP01	WL	RHP01-WGN01LF-2311WK2-DF	0	0	WG	N	1	LF	2023-11-13 09:35 AM	2311W2DFSG21	UNITED CARGO	016-12631603	11/13/2023	11/14/2023	SGSO	FC11221	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHP01	WL	RHP01-WGN01LF-2311WK3-DF	0	0	WG	N	1	LF	2023-11-20 12:25 PM	2311W3DFAP21	UNITED CARGO	016-31255792	11/20/2023	11/21/2023	APPL	23K0183	S2BVEM	Sampled	•								
RHP01	WL	RHP01-WGN01LF-2311WK3-DF	0	0	WG	N	1	LF	2023-11-20 12:25 PM	2311W3DFSG21	UNITED CARGO	016-30287935	11/20/2023	11/21/2023	SGSO	FC11419	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHP01	WL	RHP01-WGN01LF-2311WK4-DF	0	0	WG	N	1	LF	2023-11-29 02:55 PM	2311W4DFAP20	FEDEX	787206517450	11/29/2023	11/30/2023	APPL	23K0236	S2BVEM	Sampled	•								
RHP01	WL	RHP01-WGN01LF-2311WK4-DF	0	0	WG	N	1	LF	2023-11-29 02:55 PM	2311W4DFSG20	UNITED CARGO	016-74766355	11/29/2023	11/30/2023	SGSO	FC11596	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHP02	WL	RHP02-WGN01LF-2311WK2-DF	0	0	WG	N	1	LF	2023-11-14 09:07 AM	2311W2DFAP22	FEDEX	786392607152	11/14/2023	11/15/2023	APPL	23K0123	S2BVEM	Sampled	•								
RHP02	WL	RHP02-WGN01LF-2311WK2-DF	0	0	WG	N	1	LF	2023-11-14 09:07 AM	2311W2DFSG22	UNITED CARGO	016-12733184	11/14/2023	11/15/2023	SGSO	FC11263	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHP02	WL	RHP02-WGN01LF-2311WK3-DF	0	0	WG	N	1	LF	2023-11-22 08:50 AM	2311W3DFAP22	UNITED CARGO	016-45974622	11/22/2023	11/23/2023	APPL	23K0214	S2BVEM	Sampled	•								
RHP02	WL	RHP02-WGN01LF-2311WK3-DF	0	0	WG	N	1	LF	2023-11-22 08:50 AM	2311W3DFSG22	UNITED CARGO	016-30287950	11/22/2023	11/23/2023	SGSO	FC11474	S2BVEM	Sampled		•		•	•	•	•	•	•
RHP02	WL	RHP02-WGN01LF-2311WK4-DF	0	0	WG	N	1	LF	2023-11-27 09:20 AM	2311W4DFAP21	FEDEX	787045625680	11/27/2023	11/28/2023	APPL	23K0219	S2BVEM	Sampled	•								
RHP02	WL	RHP02-WGN01LF-2311WK4-DF	0	0	WG	N	1	LF	2023-11-27 09:20 AM	2311W4DFSG21	UNITED CARGO	016-74766333	11/27/2023	11/28/2023	SGSO	FC11512	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHP03	WL	RHP03-WGN01LF-2311WK2-DF	0	0	WG	N	1	LF	2023-11-14 11:05 AM	2311W2DFAP23	FEDEX	786392607152	11/14/2023	11/15/2023	APPL	23K0123	S2BVEM	Sampled	•								
RHP03	WL	RHP03-WGN01LF-2311WK2-DF	0	0	WG	N	1	LF	2023-11-14 11:05 AM	2311W2DFSG23	UNITED CARGO	016-12733184	11/14/2023	11/15/2023	SGSO	FC11263	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHP03	WL	RHP03-WGN01LF-2311WK3-DF	0	0	WG	N	1	LF	2023-11-22 10:25 AM	2311W3DFAP23	UNITED CARGO	016-45974622	11/22/2023	11/23/2023	APPL	23K0214	S2BVEM	Sampled	•								
RHP03	WL	RHP03-WGN01LF-2311WK3-DF	0	0	WG	N	1	LF	2023-11-22 10:25 AM	2311W3DFSG23	UNITED CARGO	016-30287950	11/22/2023	11/23/2023	SGSO	FC11474	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHP03	WL	RHP03-WGN01LF-2311WK4-DF	0	0	WG	N	1	LF	2023-11-27 11:05 AM	2311W4DFAP22	FEDEX	787045625680	11/27/2023	11/28/2023	APPL	23K0219	S2BVEM	Sampled	•								
RHP03	WL	RHP03-WGN01LF-2311WK4-DF	0	0	WG	N	1	LF	2023-11-27 11:05 AM	2311W4DFSG22	UNITED CARGO	016-74766333	11/27/2023	11/28/2023	SGSO	FC11512	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHP04A	WL	RHP04A-WGN01LF-2311WK2-DF	0	0	WG	N	1	LF	2023-11-15 09:10 AM	2311W2DFAP24	FEDEX	786449435399	11/15/2023	11/16/2023	APPL	23K0134	S2BVEM	Sampled	•								
RHP04A	WL	RHP04A-WGN01LF-2311WK2-DF	0	0	WG	N	1	LF	2023-11-15 09:10 AM	2311W2DFSG24	UNITED CARGO	016-12733195	11/15/2023	11/16/2023	SGSO	FC11293	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHP04A	WL	RHP04A-WGN01LF-2311WK3-DF	0	0	WG	N	1	LF	2023-11-22 11:40 AM	2311W3DFAP24	UNITED CARGO	016-45974622	11/22/2023	11/23/2023	APPL	23K0214	S2BVEM	Sampled	•								
RHP04A	WL	RHP04A-WGN01LF-2311WK3-DF	0	0	WG	N	1	LF	2023-11-22 11:40 AM	2311W3DFSG24	UNITED CARGO	016-30287950	11/22/2023	11/23/2023	SGSO	FC11474	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHP04A	WL	RHP04A-WGN01LF-2311WK4-DF	0	0	WG	N	1	LF	2023-11-28 11:30 AM	2311W4DFAP23	FEDEX	787133256427	11/28/2023	11/29/2023	APPL	23K0231	S4VEM	Sampled	•								
RHP04A	WL	RHP04A-WGN01LF-2311WK4-DF	0	0	WG	N	1	LF	2023-11-28 11:30 AM	2311W4DFSG23	UNITED CARGO	016-74766344	11/28/2023	11/29/2023	SGSO	FC11564	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHP04B	WL	RHP04B-WGN01LF-2311WK2-DF	0	0	WG	N	1	LF	2023-11-15 11:00 AM	2311W2DFAP25	FEDEX	786449435399	11/15/2023	11/16/2023	APPL	23K0134	S2BVEM	Sampled	•								
RHP04B	WL	RHP04B-WGN01LF-2311WK2-DF	0	0	WG	N	1	LF	2023-11-15 11:00 AM	2311W2DFSG25	UNITED CARGO	016-12733195	11/15/2023	11/16/2023	SGSO	FC11293	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHP04B	WL	RHP04B-WGN01LF-2311WK3-DF	0	0	WG	N	1	LF	2023-11-22 08:58 AM	2311W3DFAP25	UNITED CARGO	016-45974622	11/22/2023	11/23/2023	APPL	23K0214	S2BVEM	Sampled	•								
RHP04B	WL	RHP04B-WGN01LF-2311WK3-DF	0	0	WG	N	1	LF	2023-11-22 08:58 AM	2311W3DFSG25	UNITED CARGO	016-30287950	11/22/2023	11/23/2023	SGSO	FC11474	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHP04B	WL	RHP04B-WGN01LF-2311WK4-DF	0	0	WG	N	1	LF	2023-11-28 09:05 AM	2311W4DFAP24	FEDEX	787133256427	11/28/2023	11/29/2023	APPL	23K0231	S4VEM	Sampled	•								
RHP04B	WL	RHP04B-WGN01LF-2311WK4-DF	0	0	WG	N	1	LF	2023-11-28 09:05 AM	2311W4DFSG24	UNITED CARGO	016-74766344	11/28/2023	11/29/2023	SGSO	FC11564	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHP04C	WL	RHP04C-WGN01LF-2311WK2-DF	0	0	WG	N	1	LF	2023-11-15 09:10 AM	2311W2DFAP26	FEDEX	786449435399	11/15/2023	11/16/2023	APPL	23K0134	S2BVEM	Sampled	•								

Event Status Report
RH Consolidated Groundwater Program
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RHP04C	WL	RHP04C-WGN01LF-2311WK2-DF	0	0	WG	N	1	LF	2023-11-15 09:10 AM	2311W2DFSG26	UNITED CARGO	016-12733195	11/15/2023	11/16/2023	SGSO	FC11293	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHP04C	WL	RHP04C-WGN01LF-2311WK3-DF	0	0	WG	N	1	LF	2023-11-20 08:50 AM	2311W3DFAP26	UNITED CARGO	016-31255792	11/20/2023	11/21/2023	APPL	23K0183	S2BVEM	Sampled	•								
RHP04C	WL	RHP04C-WGN01LF-2311WK3-DF	0	0	WG	N	1	LF	2023-11-20 08:50 AM	2311W3DFSG26	UNITED CARGO	016-30287935	11/20/2023	11/21/2023	SGSO	FC11419	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHP04C	WL	RHP04C-WGN01LF-2311WK4-DF	0	0	WG	N	1	LF	2023-11-29 09:10 AM	2311W4DFAP25	FEDEX	787206517450	11/29/2023	11/30/2023	APPL	23K0236	S2BVEM	Sampled	•								
RHP04C	WL	RHP04C-WGN01LF-2311WK4-DF	0	0	WG	N	1	LF	2023-11-29 09:10 AM	2311W4DFSG25	UNITED CARGO	016-74766355	11/29/2023	11/30/2023	SGSO	FC11596	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHP05	WL	RHP05-WGN01LF-2311WK2-DF	0	0	WG	N	1	LF	2023-11-15 09:05 AM	2311W2DFAP27	FEDEX	786449435399	11/15/2023	11/16/2023	APPL	23K0134	S2BVEM	Sampled	•								
RHP05	WL	RHP05-WGN01LF-2311WK2-DF	0	0	WG	N	1	LF	2023-11-15 09:05 AM	2311W2DFSG27	UNITED CARGO	016-12733195	11/15/2023	11/16/2023	SGSO	FC11293	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHP05	WL	RHP05-WGN01LF-2311WK3-DF	0	0	WG	N	1	LF	2023-11-22 08:55 AM	2311W3DFAP27	UNITED CARGO	016-45974622	11/22/2023	11/23/2023	APPL	23K0214	S2BVEM	Sampled	•								
RHP05	WL	RHP05-WGN01LF-2311WK3-DF	0	0	WG	N	1	LF	2023-11-22 08:55 AM	2311W3DFSG27	UNITED CARGO	016-30287950	11/22/2023	11/23/2023	SGSO	FC11474	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHP05	WL	RHP05-WGN01LF-2311WK4-DF	0	0	WG	N	1	LF	2023-11-29 08:50 AM	2311W4DFAP26	FEDEX	787206517450	11/29/2023	11/30/2023	APPL	23K0236	S2BVEM	Sampled	•								
RHP05	WL	RHP05-WGN01LF-2311WK4-DF	0	0	WG	N	1	LF	2023-11-29 08:50 AM	2311W4DFSG26	UNITED CARGO	016-74766355	11/29/2023	11/30/2023	SGSO	FC11596	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHP06	WL	RHP06-WGFD01LF-2311WK2-DF	0	0	WG	FD	1	LF	2023-11-15 11:00 AM	2311W2DFAP28	FEDEX	786449435399	11/15/2023	11/16/2023	APPL	23K0134	S2BVEM	Sampled	•								
RHP06	WL	RHP06-WGFD01LF-2311WK2-DF	0	0	WG	FD	1	LF	2023-11-15 11:00 AM	2311W2DFSG28	UNITED CARGO	016-12733195	11/15/2023	11/16/2023	SGSO	FC11293	S2BVEM	Sampled; No SGC		•			•	•	•	•	•
RHP06	WL	RHP06-WGFD01LF-2311WK3-DF	0	0	WG	FD	1	LF	2023-11-22 11:00 AM	2311W3DFAP28	UNITED CARGO	016-45974622	11/22/2023	11/23/2023	APPL	23K0214	S2BVEM	Sampled	•								
RHP06	WL	RHP06-WGFD01LF-2311WK3-DF	0	0	WG	FD	1	LF	2023-11-22 11:00 AM	2311W3DFSG28	UNITED CARGO	016-30287950	11/22/2023	11/23/2023	SGSO	FC11474	S2BVEM	Sampled; No SGC		•			•	•	•	•	•
RHP06	WL	RHP06-WGFD01LF-2311WK4-DF	0	0	WG	FD	1	LF	2023-11-29 10:50 AM	2311W4DFAP27	FEDEX	787206517450	11/29/2023	11/30/2023	APPL	23K0236	S2BVEM	Sampled	•								
RHP06	WL	RHP06-WGFD01LF-2311WK4-DF	0	0	WG	FD	1	LF	2023-11-29 10:50 AM	2311W4DFSG27	UNITED CARGO	016-74766355	11/29/2023	11/30/2023	SGSO	FC11596	S2BVEM	Sampled; No SGC		•			•	•	•	•	•
RHP06	WL	RHP06-WGN01LF-2311WK2-DF	0	0	WG	N	1	LF	2023-11-15 11:00 AM	2311W2DFAP28	FEDEX	786449435399	11/15/2023	11/16/2023	APPL	23K0134	S2BVEM	Sampled	•								
RHP06	WL	RHP06-WGN01LF-2311WK2-DF	0	0	WG	N	1	LF	2023-11-15 11:00 AM	2311W2DFSG28	UNITED CARGO	016-12733195	11/15/2023	11/16/2023	SGSO	FC11293	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHP06	WL	RHP06-WGN01LF-2311WK3-DF	0	0	WG	N	1	LF	2023-11-22 11:00 AM	2311W3DFAP28	UNITED CARGO	016-45974622	11/22/2023	11/23/2023	APPL	23K0214	S2BVEM	Sampled	•								
RHP06	WL	RHP06-WGN01LF-2311WK3-DF	0	0	WG	N	1	LF	2023-11-22 11:00 AM	2311W3DFSG28	UNITED CARGO	016-30287950	11/22/2023	11/23/2023	SGSO	FC11474	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHP06	WL	RHP06-WGN01LF-2311WK4-DF	0	0	WG	N	1	LF	2023-11-29 10:50 AM	2311W4DFAP27	FEDEX	787206517450	11/29/2023	11/30/2023	APPL	23K0236	S2BVEM	Sampled	•								
RHP06	WL	RHP06-WGN01LF-2311WK4-DF	0	0	WG	N	1	LF	2023-11-29 10:50 AM	2311W4DFSG27	UNITED CARGO	016-74766355	11/29/2023	11/30/2023	SGSO	FC11596	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHP07	WL	RHP07-WGN01LF-2311WK2-DF	0	0	WG	N	1	LF	2023-11-14 12:15 PM	2311W2DFSG02	UNITED CARGO	016-12733184	11/14/2023	11/15/2023	SGSO	FC11263	S2BVEM	Sampled; No SGC			•			•	•		
RHP07	WL	RHP07-WGN01LF-2311WK3-DF	0	0	WG	N	1	LF	2023-11-21 09:15 AM	2311W3DFSG02	UNITED CARGO	016-30287946	11/21/2023	11/22/2023	SGSO	FC11473	S2BVEM	Sampled; No SGC			•			•	•		
RHP07	WL	RHP07-WGN01LF-2311WK4-DF	0	0	WG	N	1	LF	2023-11-28 10:05 AM	2311W4DFSG02	UNITED CARGO	016-74766344	11/28/2023	11/29/2023	SGSO	FC11564	S2BVEM	Sampled; No SGC			•			•	•		
RHP08	WL	RHP08-WGN01LF-2311WK2-DF	0	0	WG	N	1	LF	2023-11-13 09:20 AM	2311W2DFAP29	FEDEX	786335312731	11/13/2023	11/14/2023	APPL	23K0106	S2BVEM	Sampled	•								
RHP08	WL	RHP08-WGN01LF-2311WK2-DF	0	0	WG	N	1	LF	2023-11-13 09:20 AM	2311W2DFSG29	UNITED CARGO	016-12631603	11/13/2023	11/14/2023	SGSO	FC11221	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHP08	WL	RHP08-WGN01LF-2311WK3-DF	0	0	WG	N	1	LF	2023-11-21 08:05 AM	2311W3DFAP29	FEDEX	786730618965	11/21/2023	11/22/2023	APPL	23K0205	S2BVEM	Sampled	•								
RHP08	WL	RHP08-WGN01LF-2311WK3-DF	0	0	WG	N	1	LF	2023-11-21 08:05 AM	2311W3DFSG29	UNITED CARGO	016-30287946	11/21/2023	11/22/2023	SGSO	FC11473	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHP08	WL	RHP08-WGN01LF-2311WK4-DF	0	0	WG	N	1	LF	2023-11-29 09:20 AM	2311W4DFAP28	FEDEX	787206517450	11/29/2023	11/30/2023	APPL	23K0236	S2BVEM	Sampled	•								
RHP08	WL	RHP08-WGN01LF-2311WK4-DF	0	0	WG	N	1	LF	2023-11-29 09:20 AM	2311W4DFSG28	UNITED CARGO	016-74766355	11/29/2023	11/30/2023	SGSO	FC11596	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
																		S2BVEM Count	***55***	***60***	***27***	***57***	***60***	***87***	***87***	***60***	***60***
																		S4VEM Count	***5***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
																		Site Location Count	***60***	***60***	***27***	***57***	***60***	***87***	***87***	***60***	***60***
																		Total Location Count	***66***	***66***	***27***	***63***	***66***	***93***	***93***	***66***	***66***

Note: This event has missing samples in Event Management that are Field QC ONLY. Please refer to the Unplanned Field Samples report to view these samples.

Status	Color
Status Not Determined	
Scheduled for Analysis; Awaiting Field Data	
Chain of Custody Data Loaded and Certified; Awaiting Lab Data	
Laboratory Data Loaded and Certified; Awaiting Validation	
Validation Qualifiers Finalized; Awaiting Approval	
Approval Complete; Data In Production	

Matrix Name	Matrix
Ground Water	WG

Sampling Method	Code
Grab	G
Low-Flow (Slow Purge) Groundwater Pumping	LF

Laboratory Name	Laboratory Code
Agriculture & Priority Pollutants Laboratories, Inc.	APPL
SGS North America, Inc., Orlando, FL	SGSO

Location Type	Code
Well	WL

Event Status Report
RH Consolidated Groundwater Program
RHS CGW UFP-QAPP

Event Name: Defueling and Monthly 2023 December

Event ID: 2134

Site	Location	Location Type	Field Sample ID	Begin Depth	End Depth	Matrix	Sample Type	Sample No.	Samp. Method	Sampling Date	Chain of Custody	Shipping Method	Shipment Tracking Number	Laboratory Shipped Date	Laboratory Receipt Date	Lab	SDG	TAT (Days)	Validation TAT (Days)	Review Type	Sampling Status	22MEE (SW8270D)	BNA SIM SGS 18 Analytes (BNASIME)	EDB SGS (SW8011)	Methane (RSK175)	NPOC (SW9060A)	Phenol SGS (SW8270)	TOC (SW9060A)	TPH Diesel and Oil SGS (SW8015C)	TPH Diesel and Oil Silica Gel EU SGS (M8015D)	TPH Gasoline SGS (M8015V)	VOCs BTEX and 12DCA SGS (SW8260D)	VOCs BTEX SGS (SW8260D)
	HDMW2253-03	WL	HDMW2253-03-WGN01LF-2312	0	0	WG	N	1	LF	2023-12-08 09:55 AM	2312SG29RHCP	UNITED CARGO	016-79883532	12/8/2023	12/9/2023	SGSO	FC11847	7	7	S4VEM	Sampled; No SGC		•		•		•		•	•	•		•
	RHMW11-05	WL	RHMW11-05-WGN01G-2312-DF	0	0	WG	N	1	G	2023-12-04 12:20 PM	2312AP10DF	FEDEX	787459438719	12/4/2023	12/5/2023	APPL	23L0019	7	7	S2BVEM	Sampled	•											
	RHMW11-05	WL	RHMW11-05-WGN01G-2312-DF	0	0	WG	N	1	G	2023-12-04 12:20 PM	2312AK10DF	UNITED CARGO	027-72996862	12/4/2023	12/5/2023	SGSA	1236588_EDMS	7	7	S4VEM	Sampled					•		•					
	RHMW11-05	WL	RHMW11-05-WGN01G-2312-DF	0	0	WG	N	1	G	2023-12-04 12:20 PM	2312SG10DF	UNITED CARGO	016-97503372	12/4/2023	12/5/2023	SGSO	FC11688	7	7	S2BVEM	Sampled; No SGC		•	•			•		•	•	•	•	
	RHMW11-05	WL	RHMW11-05-WGN01G-2312-DF	0	0	WG	N	1	G	2023-12-04 12:20 PM	2312SG10DF	UNITED CARGO	016-97503372	12/4/2023	12/5/2023	SGSO	FC11688B	7	7	S2BVEM	Sampled; No SGC				•								
	RHMW12A	WL	RHMW12A-WGN01LF-2312	0	0	WG	N	1	LF	2023-12-07 09:15 AM	2312SG11RHCP	UNITED CARGO	016-79780761	12/7/2023	12/9/2023	SGSO	FC11804	7	7	S4VEM	Sampled; No SGC		•	•	•		•		•	•	•		•
	RHMW14-03	WL	RHMW14-03-WGN01G-2312-DF	0	0	WG	N	1	G	2023-12-04 09:30 AM	2312AP13DF	FEDEX	787459438719	12/4/2023	12/5/2023	APPL	23L0019	7	7	S2BVEM	Sampled	•											
	RHMW14-03	WL	RHMW14-03-WGN01G-2312-DF	0	0	WG	N	1	G	2023-12-04 09:30 AM	2312AK13DF	UNITED CARGO	027-72996862	12/4/2023	12/5/2023	SGSA	1236588_EDMS	7	7	S4VEM	Sampled					•		•					
	RHMW14-03	WL	RHMW14-03-WGN01G-2312-DF	0	0	WG	N	1	G	2023-12-04 09:30 AM	2312SG13DF	UNITED CARGO	016-97503372	12/4/2023	12/5/2023	SGSO	FC11688	7	7	S2BVEM	Sampled; No SGC		•	•			•		•	•	•	•	
	RHMW14-03	WL	RHMW14-03-WGN01G-2312-DF	0	0	WG	N	1	G	2023-12-04 09:30 AM	2312SG13DF	UNITED CARGO	016-97503372	12/4/2023	12/5/2023	SGSO	FC11688B	7	7	S2BVEM	Sampled; No SGC				•								
																					S4VEM Count	***0***	***2***	***1***	***2***	***2***	***2***	***2***	***2***	***2***	***2***	***0***	***2***
																					S2BVEM Count	***2***	***2***	***2***	***2***	***0***	***2***	***0***	***2***	***2***	***2***	***2***	***0***
																					Site Location Count	***2***	***4***	***3***	***4***	***2***	***4***	***2***	***4***	***4***	***4***	***2***	***2***
	NMW25	WL	NMW25-WGN01LF-2312	0	0	WG	N	1	LF	2023-12-07 11:10 AM	2312SG31RHCP	UNITED CARGO	016-79780761	12/7/2023	12/9/2023	SGSO	FC11804	7	7	S4VEM	Sampled		•	•	•		•		•	•	•	•	
	NMW30	WL	NMW30-WGN01LF-2312	0	0	WG	N	1	LF	2023-12-07 09:30 AM	2312SG35RHCP	UNITED CARGO	016-79780761	12/7/2023	12/9/2023	SGSO	FC11804	7	7	S4VEM	Sampled		•	•	•		•		•	•	•	•	
	NMW32	WL	NMW32-WGN01LF-2312	0	0	WG	N	1	LF	2023-12-08 10:40 AM	2312SG32RHCP	UNITED CARGO	016-79883532	12/8/2023	12/9/2023	SGSO	FC11847	7	7	S4VEM	Sampled; No SGC		•	•	•		•		•	•	•	•	
	NMW33	WL	NMW33-WGN01LF-2312	0	0	WG	N	1	LF	2023-12-08 12:20 PM	2312SG34RHCP	UNITED CARGO	016-79883532	12/8/2023	12/9/2023	SGSO	FC11847	7	7	S4VEM	Sampled; No SGC		•	•	•		•		•	•	•	•	
	RHMW01R	WL	RHMW01R-WGFD01LF-2312-DF	0	0	WG	FD	1	LF	2023-12-08 09:35 AM	2312SG01DF	UNITED CARGO	016-79883532	12/8/2023	12/9/2023	SGSO	FC11848	7	7	S2BVEM	Sampled		•				•		•	•	•		•
	RHMW01R	WL	RHMW01R-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-08 09:35 AM	2312W1AK01DF	UNITED CARGO	027-72996943	12/11/2023	12/12/2023	SGSA	1236695_EDMS	7	7	S2BVEM	Sampled					•		•					
	RHMW01R	WL	RHMW01R-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-08 09:35 AM	2312SG01DF	UNITED CARGO	016-79883532	12/8/2023	12/9/2023	SGSO	FC11848	7	7	S2BVEM	Sampled		•				•		•	•	•		•
	RHMW01R	WL	RHMW01R-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-08 09:35 AM	2312SG01DF	UNITED CARGO	016-79883532	12/8/2023	12/9/2023	SGSO	FC11848B	7	7	S2BVEM	Sampled				•								
	RHMW02	WL	RHMW02-WGFD01LF-2312-DF	0	0	WG	FD	1	LF	2023-12-08 11:05 AM	2312SG02DF	UNITED CARGO	016-79883532	12/8/2023	12/9/2023	SGSO	FC11848	7	7	S2BVEM	Sampled		•				•		•	•	•		•
	RHMW02	WL	RHMW02-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-08 11:05 AM	2312W1SG02DF	UNITED CARGO	027-72996943	12/11/2023	12/12/2023	SGSA	1236695_EDMS	7	7	S2BVEM	Sampled					•		•					
	RHMW02	WL	RHMW02-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-08 11:05 AM	2312SG02DF	UNITED CARGO	016-79883532	12/8/2023	12/9/2023	SGSO	FC11848	7	7	S2BVEM	Sampled		•				•		•	•	•		•
	RHMW02	WL	RHMW02-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-08 11:05 AM	2312SG02DF	UNITED CARGO	016-79883532	12/8/2023	12/9/2023	SGSO	FC11848B	7	7	S2BVEM	Sampled				•								
	RHMW03	WL	RHMW03-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-08 12:45 PM	2312W1AK03DF	UNITED CARGO	027-72996943	12/11/2023	12/12/2023	SGSA	1236695_EDMS	7	7	S2BVEM	Sampled					•		•					
	RHMW03	WL	RHMW03-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-08 12:45 PM	2312SG03DF	UNITED CARGO	016-79883532	12/8/2023	12/9/2023	SGSO	FC11848	7	7	S2BVEM	Sampled; No SGC		•	•			•		•	•	•		•
	RHMW03	WL	RHMW03-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-08 12:45 PM	2312SG03DF	UNITED CARGO	016-79883532	12/8/2023	12/9/2023	SGSO	FC11848B	7	7	S2BVEM	Sampled; No SGC				•								
	RHMW04	WL	RHMW04-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-05 09:30 AM	2312AP04DF	FEDEX	787529595854	12/5/2023	12/6/2023	APPL	23L0027	7	7	S2BVEM	Sampled	•											
	RHMW04	WL	RHMW04-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-05 09:30 AM	2312AK04DF	UNITED CARGO	027-72996873	12/5/2023	12/6/2023	SGSA	1236605_EDMS	7	7	S2BVEM	Sampled					•		•					
	RHMW04	WL	RHMW04-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-05 09:30 AM	2312SG04DF	UNITED CARGO	016-79780761	12/5/2023	12/6/2023	SGSO	FC11717	7	7	S2BVEM	Sampled; No SGC		•	•			•		•	•	•	•	
	RHMW04	WL	RHMW04-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-05 09:30 AM	2312SG04DF	UNITED CARGO	016-79780761	12/5/2023	12/6/2023	SGSO	FC11717B	7	7	S2BVEM	Sampled; No SGC				•								
	RHMW05	WL	RHMW05-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-05 11:20 AM	2312AK05DF	UNITED CARGO	027-72996873	12/5/2023	12/6/2023	SGSA	1236605_EDMS	7	7	S2BVEM	Sampled					•		•					
	RHMW05	WL	RHMW05-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-05 11:20 AM	2312SG05DF	UNITED CARGO	016-79780761	12/5/2023	12/6/2023	SGSO	FC11717	7	7	S2BVEM	Sampled; No SGC		•				•		•	•	•		•
	RHMW05	WL	RHMW05-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-05 11:20 AM	2312SG05DF	UNITED CARGO	016-79780761	12/5/2023	12/6/2023	SGSO	FC11717B	7	7	S2BVEM	Sampled; No SGC				•								
	RHMW06	WL	RHMW06-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-05 01:35 PM	2312AP06DF	FEDEX	787529595854	12/5/2023	12/6/2023	APPL	23L0027	7	7	S2BVEM	Sampled	•											
	RHMW06	WL	RHMW06-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-05 01:35 PM	2312AK06DF	UNITED CARGO	027-72996873	12/5/2023	12/6/2023	SGSA	1236605_EDMS	7	7	S2BVEM	Sampled					•		•					
	RHMW06	WL	RHMW06-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-05 01:35 PM	2312SG06DF	UNITED CARGO	016-79780761	12/5/2023	12/6/2023	SGSO	FC11717	7	7	S2BVEM	Sampled; No SGC		•	•			•		•	•	•	•	

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RHMW06	WL	RHMW06-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-05 01:35 PM	2312SG06DF	UNITED CARGO	016-79780761	12/5/2023	12/6/2023	SGSO	FC11717B	7	7	S2BVEM	Sampled; No SGC				•												
RHMW08	WL	RHMW08-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-04 11:20 AM	2312AK07DF	UNITED CARGO	027-72996862	12/4/2023	12/5/2023	SGSA	1236588_EDMS	7	7	S4VEM	Sampled					•		•									
RHMW08	WL	RHMW08-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-04 11:20 AM	2312SG07DF	UNITED CARGO	016-97503372	12/4/2023	12/5/2023	SGSO	FC11688	7	7	S2BVEM	Sampled; No SGC		•				•		•	•	•		•				•
RHMW08	WL	RHMW08-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-04 11:20 AM	2312SG07DF	UNITED CARGO	016-97503372	12/4/2023	12/5/2023	SGSO	FC11688B	7	7	S2BVEM	Sampled; No SGC				•												
RHMW09	WL	RHMW09-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-04 09:20 AM	2312AP08DF	FEDEX	787459438719	12/4/2023	12/5/2023	APPL	23L0019	7	7	S2BVEM	Sampled	•															
RHMW09	WL	RHMW09-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-04 09:20 AM	2312AK08DF	UNITED CARGO	027-72996862	12/4/2023	12/5/2023	SGSA	1236588_EDMS	7	7	S4VEM	Sampled					•		•									
RHMW09	WL	RHMW09-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-04 09:20 AM	2312SG08DF	UNITED CARGO	016-97503372	12/4/2023	12/5/2023	SGSO	FC11688	7	7	S2BVEM	Sampled		•	•			•		•	•	•	•					
RHMW09	WL	RHMW09-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-04 09:20 AM	2312SG08DF	UNITED CARGO	016-97503372	12/4/2023	12/5/2023	SGSO	FC11688B	7	7	S2BVEM	Sampled				•												
RHMW10	WL	RHMW10-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-05 12:55 PM	2312AP09DF	FEDEX	787529595854	12/5/2023	12/6/2023	APPL	23L0027	7	7	S2BVEM	Sampled	•															
RHMW10	WL	RHMW10-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-05 12:55 PM	2312AK09DF	UNITED CARGO	027-72996873	12/5/2023	12/6/2023	SGSA	1236605_EDMS	7	7	S2BVEM	Sampled					•		•									
RHMW10	WL	RHMW10-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-05 12:55 PM	2312SG09DF	UNITED CARGO	016-79780761	12/5/2023	12/6/2023	SGSO	FC11717	7	7	S2BVEM	Sampled; No SGC		•	•			•		•	•	•	•					
RHMW10	WL	RHMW10-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-05 12:55 PM	2312SG09DF	UNITED CARGO	016-79780761	12/5/2023	12/6/2023	SGSO	FC11717B	7	7	S2BVEM	Sampled; No SGC				•												
RHMW13-04	WL	RHMW13-04-WGN01G-2312-DF	0	0	WG	N	1	G	2023-12-07 09:45 AM	2312AP18DF	FEDEX	787655643128	12/7/2023	12/8/2023	APPL	23L0056	7	7	S2BVEM	Sampled	•															
RHMW13-04	WL	RHMW13-04-WGN01G-2312-DF	0	0	WG	N	1	G	2023-12-07 09:45 AM	2312AK18DF	UNITED CARGO	027-72996910	12/7/2023	12/8/2023	SGSA	1236658_EDMS	7	7	S2BVEM	Sampled					•		•									
RHMW13-04	WL	RHMW13-04-WGN01G-2312-DF	0	0	WG	N	1	G	2023-12-07 09:45 AM	2312SG12DF	UNITED CARGO	016-79780761	12/7/2023	12/9/2023	SGSO	FC11802	7	7	S2BVEM	Sampled; No SGC		•	•			•		•	•	•	•					
RHMW13-04	WL	RHMW13-04-WGN01G-2312-DF	0	0	WG	N	1	G	2023-12-07 09:45 AM	2312SG12DF	UNITED CARGO	016-79780761	12/7/2023	12/9/2023	SGSO	FC11802B	7	7	S4VEM	Sampled; No SGC				•												
RHMW15-05	WL	RHMW15-05-WGN01G-2312-DF	0	0	WG	N	1	G	2023-12-06 09:00 AM	2312AP14DF	FEDEX	787592985076	12/6/2023	12/7/2023	APPL	23L0035	7	7	S2BVEM	Sampled	•															
RHMW15-05	WL	RHMW15-05-WGN01G-2312-DF	0	0	WG	N	1	G	2023-12-06 09:00 AM	2312AK14DF	UNITED CARGO	027-72996895	12/6/2023	12/7/2023	SGSA	1236637_EDMS	7	7	S2BVEM	Sampled					•		•									
RHMW15-05	WL	RHMW15-05-WGN01G-2312-DF	0	0	WG	N	1	G	2023-12-06 09:00 AM	2312SG14DF	UNITED CARGO	016-79780772	12/6/2023	12/7/2023	SGSO	FC11754	7	7	S2BVEM	Sampled; No SGC		•	•			•		•	•	•	•					
RHMW15-05	WL	RHMW15-05-WGN01G-2312-DF	0	0	WG	N	1	G	2023-12-06 09:00 AM	2312SG14DF	UNITED CARGO	016-79780772	12/6/2023	12/7/2023	SGSO	FC11754B	7	7	S2BVEM	Sampled; No SGC				•												
RHMW16	WL	RHMW16-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-04 09:00 AM	2312AP15DF	FEDEX	787459438719	12/4/2023	12/5/2023	APPL	23L0019	7	7	S2BVEM	Sampled	•															
RHMW16	WL	RHMW16-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-04 09:00 AM	2312AK15DF	UNITED CARGO	027-72996862	12/4/2023	12/5/2023	SGSA	1236588_EDMS	7	7	S4VEM	Sampled					•		•									
RHMW16	WL	RHMW16-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-04 09:00 AM	2312SG15DF	UNITED CARGO	016-97503372	12/4/2023	12/5/2023	SGSO	FC11688	7	7	S2BVEM	Sampled; No SGC		•	•			•		•	•	•	•					
RHMW16	WL	RHMW16-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-04 09:00 AM	2312SG15DF	UNITED CARGO	016-97503372	12/4/2023	12/5/2023	SGSO	FC11688B	7	7	S2BVEM	Sampled; No SGC				•												
RHMW17	WL	RHMW17-WGFD01LF-2312-DF	0	0	WG	FD	1	LF	2023-12-06 11:50 AM	2312AP16DF	FEDEX	787592985076	12/6/2023	12/7/2023	APPL	23L0035	7	7	S2BVEM	Sampled	•															
RHMW17	WL	RHMW17-WGFD01LF-2312-DF	0	0	WG	FD	1	LF	2023-12-06 11:50 AM	2312SG16DF	UNITED CARGO	016-79780772	12/6/2023	12/7/2023	SGSO	FC11754	7	7	S2BVEM	Sampled; No SGC		•				•		•	•	•	•					
RHMW17	WL	RHMW17-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-06 11:50 AM	2312AP16DF	FEDEX	787592985076	12/6/2023	12/7/2023	APPL	23L0035	7	7	S2BVEM	Sampled	•															
RHMW17	WL	RHMW17-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-06 11:50 AM	2312AK16DF	UNITED CARGO	027-72996895	12/6/2023	12/7/2023	SGSA	1236637_EDMS	7	7	S2BVEM	Sampled					•		•									
RHMW17	WL	RHMW17-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-06 11:50 AM	2312SG16DF	UNITED CARGO	016-79780772	12/6/2023	12/7/2023	SGSO	FC11754	7	7	S2BVEM	Sampled; No SGC		•	•			•		•	•	•	•					
RHMW17	WL	RHMW17-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-06 11:50 AM	2312SG16DF	UNITED CARGO	016-79780772	12/6/2023	12/7/2023	SGSO	FC11754B	7	7	S2BVEM	Sampled; No SGC				•												
RHMW18	WL	RHMW18-WGN01LF-2312-DF	0	0	WG	N	2	LF	2023-12-31 05:05 PM	2312AP-36	FEDEX	788801921991	1/2/2024	1/3/2024	APPL	24A0009	7	7	S2BVEM	Sampled	•															
RHMW18	WL	RHMW18-WGN01LF-2312-DF	0	0	WG	N	2	LF	2023-12-31 05:05 PM	2312AK-36	UNITED CARGO	027-72996825	1/2/2024	1/3/2024	SGSA	1240029_EDMS	7	7	S2BVEM	Sampled					•		•									
RHMW18	WL	RHMW18-WGN01LF-2312-DF	0	0	WG	N	2	LF	2023-12-31 05:05 PM	2312SG-36	UNITED CARGO	016-79678922	1/2/2024	1/3/2024	SGSO	FC12337	7	7	S2BVEM	Sampled		•	•			•		•	•	•	•					
RHMW18	WL	RHMW18-WGN01LF-2312-DF	0	0	WG	N	2	LF	2023-12-31 05:05 PM	2312SG-36	UNITED CARGO	016-79678922	1/2/2024	1/3/2024	SGSO	FC12337B	7	7	S2BVEM	Sampled				•												
RHMW19	WL	RHMW19-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-04 11:25 AM	2312AP17DF	FEDEX	787459438719	12/4/2023	12/5/2023	APPL	23L0019	7	7	S2BVEM	Sampled	•															
RHMW19	WL	RHMW19-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-04 11:25 AM	2312AK17DF	UNITED CARGO	027-72996862	12/4/2023	12/5/2023	SGSA	1236588_EDMS	7	7	S4VEM	Sampled					•		•									
RHMW19	WL	RHMW19-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-04 11:25 AM	2312SG17DF	UNITED CARGO	016-97503372	12/4/2023	12/5/2023	SGSO	FC11688	7	7	S2BVEM	Sampled; No SGC		•	•			•		•	•	•	•					
RHMW19	WL	RHMW19-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-04 11:25 AM	2312SG17DF	UNITED CARGO	016-97503372	12/4/2023	12/5/2023	SGSO	FC11688B	7	7	S2BVEM	Sampled; No SGC				•												
RHMW20	WL	RHMW20-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-07 11:30 AM	2312AP18DF	FEDEX	787655643128	12/7/2023	12/8/2023	APPL	23L0056	7	7	S2BVEM	Sampled	•															
RHMW20	WL	RHMW20-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-07 11:30 AM	2312AK18DF	UNITED CARGO	027-72996910	12/7/2023	12/8/2023	SGSA	1236658_EDMS	7	7	S2BVEM	Sampled					•		•									
RHMW20	WL	RHMW20-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-07 11:30 AM	2312SG18DF	UNITED CARGO	016-79780761	12/7/2023	12/9/2023	SGSO	FC11802	7	7	S2BVEM	Sampled		•	•			•		•	•	•	•					
RHMW20	WL	RHMW20-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-07 11:30 AM	2312SG18DF	UNITED CARGO	016-79780761	12/7/2023	12/9/2023	SGSO	FC11802B	7	7	S4VEM	Sampled				•												
RHMW2254-01	WL	RHMW2254-01-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-05 01:50 PM	2312AK19DF	UNITED CARGO	027-72996873	12/5/2023	12/6/2023	SGSA	1236605_EDMS	7	7	S2BVEM	Sampled					•		•									
RHMW2254-01	WL	RHMW2254-01-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-05 01:50 PM	2312SG19DF	UNITED CARGO	016-79780761	12/5/2023	12/6/2023	SGSO	FC11717	7	7	S2BVEM	Sampled; No SGC		•				•		•	•	•						•
RHMW2254-01	WL	RHMW2254-01-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-05 01:50 PM	2312SG19DF	UNITED CARGO	016-79780761	12/5/2023	12/6/2023	SGSO	FC11717B	7	7	S2BVEM	Sampled; No SGC				•												
RHP01	WL	RHP01-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-04 01:25 PM	2312AP21DF	FEDEX	787459438719	12/4/2023	12/5/2023	APPL	23L0019	7	7	S2BVEM	Sampled	•															
RHP01	WL	RHP01-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-04 01:25 PM	2312AK21DF	UNITED CARGO	027-72996862	12/4/2023	12/5/2023	SGSA	1236588_EDMS	7	7	S4VEM	Sampled					•		•									
RHP01	WL	RHP01-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-04 01:25 PM	2312SG21DF	UNITED CARGO	016-97503372	12/4/2023	12/5/2023	SGSO	FC11688	7	7	S2BVEM	Sampled; No SGC		•	•			•		•	•	•	•					
RHP01	WL	RHP01-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-04 01:25 PM	2312SG21DF	UNITED CARGO	016-97503372	12/4/2023	12/5/2023	SGSO	FC11688B	7	7	S2BVEM	Sampled; No SGC				•												
RHP02	WL	RHP02-WGFD01LF-2312-DF	0	0	WG	FD	1	LF	2023-12-06 09:10 AM	2312AP22DF	FEDEX	787592985076	12/6/2023	12/7/2023	APPL	23L0035	7	7	S2BVEM	Sampled	•															
RHP02	WL	RHP02-WGFD01LF-2312-DF	0	0	WG	FD	1	LF	2023-12-06 09:10 AM	2312SG22DF	UNITED CARGO	016-79780772	12/6/2023	12/7/2023	SGSO	FC11754	7	7	S2BVEM	Sampled; No SGC		•				•		•	•	•	•					
RHP02	WL	RHP02-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-06 09:10 AM	2312AP22DF	FEDEX	787592985076	12/6/2023	12/7/2023	APPL	23L0035	7	7	S2BVEM	Sampled	•															

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RH Consolidated Groundwater Program
RHS CGW UFP-QAPP

RHP02	WL	RHP02-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-06 09:10 AM	2312AK22DF	UNITED CARGO	027-72996895	12/6/2023	12/7/2023	SGSA	1236637_EDMS	7	7	S2BVEM	Sampled					•		•					
RHP02	WL	RHP02-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-06 09:10 AM	2312SG22DF	UNITED CARGO	016-79780772	12/6/2023	12/7/2023	SGSO	FC11754	7	7	S2BVEM	Sampled; No SGC		•	•			•		•	•	•	•	
RHP02	WL	RHP02-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-06 09:10 AM	2312SG22DF	UNITED CARGO	016-79780772	12/6/2023	12/7/2023	SGSO	FC11754B	7	7	S2BVEM	Sampled; No SGC				•								
RHP03	WL	RHP03-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-06 12:25 PM	2312AP23DF	FEDEX	787529985076	12/6/2023	12/7/2023	APPL	23L0035	7	7	S2BVEM	Sampled	•											
RHP03	WL	RHP03-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-06 12:25 PM	2312AK23DF	UNITED CARGO	027-72996895	12/6/2023	12/7/2023	SGSA	1236637_EDMS	7	7	S2BVEM	Sampled					•		•					
RHP03	WL	RHP03-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-06 12:25 PM	2312SG23DF	UNITED CARGO	016-79780772	12/6/2023	12/7/2023	SGSO	FC11754	7	7	S2BVEM	Sampled; No SGC		•	•			•		•	•	•	•	
RHP03	WL	RHP03-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-06 12:25 PM	2312SG23DF	UNITED CARGO	016-79780772	12/6/2023	12/7/2023	SGSO	FC11754B	7	7	S2BVEM	Sampled; No SGC				•								
RHP04A	WL	RHP04A-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-05 11:25 AM	2312AP24DF	FEDEX	787529595854	12/5/2023	12/6/2023	APPL	23L0027	7	7	S2BVEM	Sampled	•											
RHP04A	WL	RHP04A-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-05 11:25 AM	2312AK24DF	UNITED CARGO	027-72996873	12/5/2023	12/6/2023	SGSA	1236605_EDMS	7	7	S2BVEM	Sampled					•		•					
RHP04A	WL	RHP04A-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-05 11:25 AM	2312SG24DF	UNITED CARGO	016-79780761	12/5/2023	12/6/2023	SGSO	FC11717	7	7	S2BVEM	Sampled; No SGC		•	•			•		•	•	•	•	
RHP04A	WL	RHP04A-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-05 11:25 AM	2312SG24DF	UNITED CARGO	016-79780761	12/5/2023	12/6/2023	SGSO	FC11717B	7	7	S2BVEM	Sampled; No SGC				•								
RHP04B	WL	RHP04B-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-05 09:31 AM	2312AP25DF	FEDEX	787529595854	12/5/2023	12/6/2023	APPL	23L0027	7	7	S2BVEM	Sampled	•											
RHP04B	WL	RHP04B-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-05 09:31 AM	2312AK25DF	UNITED CARGO	027-72996873	12/5/2023	12/6/2023	SGSA	1236605_EDMS	7	7	S2BVEM	Sampled					•		•					
RHP04B	WL	RHP04B-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-05 09:31 AM	2312SG25DF	UNITED CARGO	016-79780761	12/5/2023	12/6/2023	SGSO	FC11717	7	7	S2BVEM	Sampled; No SGC		•	•			•		•	•	•	•	
RHP04B	WL	RHP04B-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-05 09:31 AM	2312SG25DF	UNITED CARGO	016-79780761	12/5/2023	12/6/2023	SGSO	FC11717B	7	7	S2BVEM	Sampled; No SGC				•								
RHP04C	WL	RHP04C-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-04 10:50 AM	2312AP26DF	FEDEX	787459438719	12/4/2023	12/5/2023	APPL	23L0019	7	7	S2BVEM	Sampled	•											
RHP04C	WL	RHP04C-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-04 10:50 AM	2312AK26DF	UNITED CARGO	027-72996862	12/4/2023	12/5/2023	SGSA	1236588_EDMS	7	7	S4VEM	Sampled					•		•					
RHP04C	WL	RHP04C-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-04 10:50 AM	2312SG26DF	UNITED CARGO	016-97503372	12/4/2023	12/5/2023	SGSO	FC11688	7	7	S2BVEM	Sampled; No SGC		•	•			•		•	•	•	•	
RHP04C	WL	RHP04C-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-04 10:50 AM	2312SG26DF	UNITED CARGO	016-97503372	12/4/2023	12/5/2023	SGSO	FC11688B	7	7	S2BVEM	Sampled; No SGC				•								
RHP05	WL	RHP05-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-06 12:20 PM	2312AP27DF	FEDEX	787592985076	12/6/2023	12/7/2023	APPL	23L0035	7	7	S2BVEM	Sampled	•											
RHP05	WL	RHP05-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-06 12:20 PM	2312AK27DF	UNITED CARGO	027-72996895	12/6/2023	12/7/2023	SGSA	1236637_EDMS	7	7	S2BVEM	Sampled					•		•					
RHP05	WL	RHP05-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-06 12:20 PM	2312SG27DF	UNITED CARGO	016-79780772	12/6/2023	12/7/2023	SGSO	FC11754	7	7	S2BVEM	Sampled		•	•			•		•	•	•	•	
RHP05	WL	RHP05-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-06 12:20 PM	2312SG27DF	UNITED CARGO	016-79780772	12/6/2023	12/7/2023	SGSO	FC11754B	7	7	S2BVEM	Sampled				•								
RHP06	WL	RHP06-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-06 09:15 AM	2312AP30DF	FEDEX	787592985076	12/6/2023	12/7/2023	APPL	23L0035	7	7	S2BVEM	Sampled	•											
RHP06	WL	RHP06-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-06 09:15 AM	2312AK30DF	UNITED CARGO	027-72996895	12/6/2023	12/7/2023	SGSA	1236637_EDMS	7	7	S2BVEM	Sampled					•		•					
RHP06	WL	RHP06-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-06 09:15 AM	2312SG30DF	UNITED CARGO	016-79780772	12/6/2023	12/7/2023	SGSO	FC11754	7	7	S2BVEM	Sampled; No SGC		•	•			•		•	•	•	•	
RHP06	WL	RHP06-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-06 09:15 AM	2312SG30DF	UNITED CARGO	016-79780772	12/6/2023	12/7/2023	SGSO	FC11754B	7	7	S2BVEM	Sampled; No SGC				•								
RHP07	WL	RHP07-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-05 09:45 AM	2312AK28DF	UNITED CARGO	027-72996873	12/5/2023	12/6/2023	SGSA	1236605_EDMS	7	7	S2BVEM	Sampled					•		•					
RHP07	WL	RHP07-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-05 09:45 AM	2312SG28DF	UNITED CARGO	016-79780761	12/5/2023	12/6/2023	SGSO	FC11717	7	7	S2BVEM	Sampled; No SGC		•	•			•		•	•	•	•	
RHP07	WL	RHP07-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-05 09:45 AM	2312SG28DF	UNITED CARGO	016-79780761	12/5/2023	12/6/2023	SGSO	FC11717B	7	7	S2BVEM	Sampled; No SGC				•								
RHP08	WL	RHP08-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-05 09:35 AM	2312AP33DF	FEDEX	787529595854	12/5/2023	12/6/2023	APPL	23L0027	7	7	S2BVEM	Sampled	•											
RHP08	WL	RHP08-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-05 09:35 AM	2312AK33DF	UNITED CARGO	027-72996873	12/5/2023	12/6/2023	SGSA	1236605_EDMS	7	7	S2BVEM	Sampled					•		•					
RHP08	WL	RHP08-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-05 09:35 AM	2312SG33DF	UNITED CARGO	016-79780761	12/5/2023	12/6/2023	SGSO	FC11717	7	7	S2BVEM	Sampled; No SGC		•	•			•		•	•	•	•	
RHP08	WL	RHP08-WGN01LF-2312-DF	0	0	WG	N	1	LF	2023-12-05 09:35 AM	2312SG33DF	UNITED CARGO	016-79780761	12/5/2023	12/6/2023	SGSO	FC11717B	7	7	S2BVEM	Sampled; No SGC				•								
																				S4VEM Count	***0***	***4***	***4***	***6***	***6***	***4***	***6***	***4***	***4***	***4***	***4***	***0***
																				S2BVEM Count	***22***	***31***	***22***	***25***	***21***	***31***	***21***	***31***	***31***	***31***	***23***	***8***
																				Site Location Count	***22***	***35***	***26***	***31***	***27***	***35***	***27***	***35***	***35***	***35***	***27***	***8***
																				Total Location Count	***24***	***39***	***29***	***35***	***29***	***39***	***29***	***39***	***39***	***39***	***29***	***10***

Note: This event has missing samples in Event Management that are Field QC ONLY. Please refer to the Unplanned Field Samples report to view these samples.

Status	Color
Status Not Determined	
Scheduled for Analysis; Awaiting Field Data	
Chain of Custody Data Loaded and Certified; Awaiting Lab Data	
Laboratory Data Loaded and Certified; Awaiting Validation	
Validation Qualifiers Finalized; Awaiting Approval	
Approval Complete; Data In Production	

Matrix Name	Matrix
Ground Water	WG

Sampling Method	Code
Grab	G
Low-Flow (Slow Purge) Groundwater Pumping	LF

Laboratory Name	Laboratory Code
Agriculture & Priority Pollutants Laboratories, Inc.	APPL
SGS North America, Inc., Anchorage, AK	SGSA
SGS North America, Inc., Orlando, FL	SGSO

Location Type	Code
Well	WL

Event Status Report
RH Consolidated Groundwater Program
RHS CGW UFP-QAPP

Event Name: Defueling 2023 December

Event ID: 2136

Site	Location	Location Type	Field Sample ID	Begin Depth	End Depth	Matrix	Sample Type	Sample No.	Samp. Method	Sampling Date	Chain of Custody	Shipping Method	Shipment Tracking Number	Laboratory Shipped Date	Laboratory Receipt Date	Lab	SDG	TAT (Days)	Validation TAT (Days)	Review Type	Sampling Status	22MEE (SW8270D)	BNA SIM SGS 18 Analytes (BNASIME)	BNA SIM SGS 3 NAPHs (BNASIME)	EDB SGS (SW8011)	Phenol SGS (SW8270)	TPH Diesel and Oil SGS (SW8015C)	TPH Diesel and Oil Silica Gel EU SGS (M8015D)	TPH Gasoline SGS (M8015V)	VOCs BTEX and 12DCA SGS (SW8260D)
Halawa Correctional Facility	RHMW11-05	WL	RHMW11-05-WGN01G-2312WK2-DF	0	0	WG	N	1	G	2023-12-13 11:30 AM	2312W2DFAP12	FEDEX	787984458450	12/13/2023	12/14/2023	APPL	23L0108	7	7	S4VEM	Sampled	•								
	RHMW11-05	WL	RHMW11-05-WGN01G-2312WK2-DF	0	0	WG	N	1	G	2023-12-13 11:30 AM	2312W2DFSG12	UNITED CARGO	016-31734452	12/13/2023	12/14/2023	SGSO	FC11982	7	7	S2BVEM	Sampled; No SGC		•			•	•	•	•	•
	RHMW11-05	WL	RHMW11-05-WGN01G-2312WK2-DF	0	0	WG	N	1	G	2023-12-13 11:30 AM	2312W2DFSG12	UNITED CARGO	016-31734452	12/13/2023	12/14/2023	SGSO	FC11982A	7	7	S2BVEM	Sampled; No SGC				•					
	RHMW11-05	WL	RHMW11-05-WGN01G-2312WK3-DF	0	0	WG	N	1	G	2023-12-20 11:30 AM	2312W3DFAP12	FEDEX	788368317326	12/20/2023	12/21/2023	APPL	23L0179	7	7	S2BVEM	Sampled	•								
	RHMW11-05	WL	RHMW11-05-WGN01G-2312WK3-DF	0	0	WG	N	1	G	2023-12-20 11:30 AM	2312W3DFSG12	UNITED CARGO	016-50255354	12/20/2023	12/21/2023	SGSO	FC12167	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
	RHMW11-05	WL	RHMW11-05-WGN01G-2312WK4-DF	0	0	WG	N	1	G	2023-12-28 12:30 PM	2312W4DFAP12	FEDEX	788649982180	12/28/2023	12/29/2023	APPL	23L0220	7	7	S2BVEM	Sampled	•								
	RHMW11-05	WL	RHMW11-05-WGN01G-2312WK4-DF	0	0	WG	N	1	G	2023-12-28 12:30 PM	2312W4DFSG12	UNITED CARGO	016-50234461	12/28/2023	12/29/2023	SGSO	FC12289	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
	RHMW14-03	WL	RHMW14-03-WGN01G-2312WK2-DF	0	0	WG	N	1	G	2023-12-13 08:50 AM	2312W2DFAP14	FEDEX	787984458450	12/13/2023	12/14/2023	APPL	23L0108	7	7	S4VEM	Sampled	•								
	RHMW14-03	WL	RHMW14-03-WGN01G-2312WK2-DF	0	0	WG	N	1	G	2023-12-13 08:50 AM	2312W2DFSG14	UNITED CARGO	016-31734452	12/13/2023	12/14/2023	SGSO	FC11982	7	7	S2BVEM	Sampled; No SGC		•			•	•	•	•	•
	RHMW14-03	WL	RHMW14-03-WGN01G-2312WK2-DF	0	0	WG	N	1	G	2023-12-13 08:50 AM	2312W2DFSG14	UNITED CARGO	016-31734452	12/13/2023	12/14/2023	SGSO	FC11982A	7	7	S2BVEM	Sampled; No SGC				•					
	RHMW14-03	WL	RHMW14-03-WGN01G-2312WK3-DF	0	0	WG	N	1	G	2023-12-20 09:00 AM	2312W3DFAP14	FEDEX	788368317326	12/20/2023	12/21/2023	APPL	23L0179	7	7	S2BVEM	Sampled	•								
	RHMW14-03	WL	RHMW14-03-WGN01G-2312WK3-DF	0	0	WG	N	1	G	2023-12-20 09:00 AM	2312W3DFSG14	UNITED CARGO	016-50255354	12/20/2023	12/21/2023	SGSO	FC12167	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
	RHMW14-03	WL	RHMW14-03-WGN01G-2312WK4-DF	0	0	WG	N	1	G	2023-12-28 09:00 AM	2312W4DFAP14	FEDEX	788649982180	12/28/2023	12/29/2023	APPL	23L0220	7	7	S2BVEM	Sampled	•								
	RHMW14-03	WL	RHMW14-03-WGN01G-2312WK4-DF	0	0	WG	N	1	G	2023-12-28 09:00 AM	2312W4DFSG14	UNITED CARGO	016-50234461	12/28/2023	12/29/2023	SGSO	FC12289	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
																					S4VEM Count	***2***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
																					S2BVEM Count	***4***	***6***	***0***	***6***	***6***	***6***	***6***	***6***	***6***
																					Site Location Count	***6***	***6***	***0***	***6***	***6***	***6***	***6***	***6***	***6***
	RHMW01R	WL	RHMW01R-WGFD01LF-2312WK2-DF	0	0	WG	FD	1	LF	2023-12-15 09:00 AM	2312W2DFSG01	UNITED CARGO	016-31734474	12/15/2023	12/17/2023	SGSO	FC12040B	7	7	S2BVEM	Sampled			•						
	RHMW01R	WL	RHMW01R-WGFD01LF-2312WK2-DF	0	0	WG	FD	1	LF	2023-12-15 09:00 AM	2312W2DFSG01	UNITED CARGO	016-31734474	12/15/2023	12/17/2023	SGSO	FC12040	7	7	S2BVEM	Sampled						•	•		
	RHMW01R	WL	RHMW01R-WGFD01LF-2312WK3-DF	0	0	WG	FD	1	LF	2023-12-19 09:30 AM	2312W3DFSG01	UNITED CARGO	016-50250804	12/19/2023	12/20/2023	SGSO	FC12136	7	7	S2BVEM	Sampled			•			•	•		
	RHMW01R	WL	RHMW01R-WGFD01LF-2312WK4-DF	0	0	WG	FD	1	LF	2023-12-26 09:15 AM	2312W4DFSG01	UNITED CARGO	016-50232700	12/26/2023	12/27/2023	SGSO	FC12235	7	7	S2BVEM	Sampled			•			•	•		
	RHMW01R	WL	RHMW01R-WGN01LF-2312WK2-DF	0	0	WG	N	1	LF	2023-12-15 09:00 AM	2312W2DFSG01	UNITED CARGO	016-31734474	12/15/2023	12/17/2023	SGSO	FC12040B	7	7	S2BVEM	Sampled			•						
	RHMW01R	WL	RHMW01R-WGN01LF-2312WK2-DF	0	0	WG	N	1	LF	2023-12-15 09:00 AM	2312W2DFSG01	UNITED CARGO	016-31734474	12/15/2023	12/17/2023	SGSO	FC12040	7	7	S2BVEM	Sampled						•	•		
	RHMW01R	WL	RHMW01R-WGN01LF-2312WK3-DF	0	0	WG	N	1	LF	2023-12-19 09:30 AM	2312W3DFSG01	UNITED CARGO	016-50250804	12/19/2023	12/20/2023	SGSO	FC12136	7	7	S2BVEM	Sampled; No SGC			•			•	•		
	RHMW01R	WL	RHMW01R-WGN01LF-2312WK4-DF	0	0	WG	N	1	LF	2023-12-26 09:15 AM	2312W4DFSG01	UNITED CARGO	016-50232700	12/26/2023	12/27/2023	SGSO	FC12235	7	7	S2BVEM	Sampled			•			•	•		
	RHMW02	WL	RHMW02-WGFD01LF-2312WK2-DF	0	0	WG	FD	1	LF	2023-12-15 09:55 AM	2312W2DFSG07	UNITED CARGO	016-31734474	12/15/2023	12/17/2023	SGSO	FC12040B	7	7	S2BVEM	Sampled			•						
	RHMW02	WL	RHMW02-WGFD01LF-2312WK2-DF	0	0	WG	FD	1	LF	2023-12-15 09:55 AM	2312W2DFSG07	UNITED CARGO	016-31734474	12/15/2023	12/17/2023	SGSO	FC12040	7	7	S2BVEM	Sampled						•	•		
	RHMW02	WL	RHMW02-WGFD01LF-2312WK3-DF	0	0	WG	FD	1	LF	2023-12-19 10:40 AM	2312W3DFSG07	UNITED CARGO	016-50250804	12/19/2023	12/20/2023	SGSO	FC12136	7	7	S2BVEM	Sampled			•			•	•		
	RHMW02	WL	RHMW02-WGFD01LF-2312WK4-DF	0	0	WG	FD	1	LF	2023-12-26 10:20 AM	2312W4DFSG07	UNITED CARGO	016-50232700	12/26/2023	12/27/2023	SGSO	FC12235	7	7	S2BVEM	Sampled			•			•	•		
	RHMW02	WL	RHMW02-WGN01LF-2312WK2-DF	0	0	WG	N	1	LF	2023-12-15 09:55 AM	2312W2DFSG07	UNITED CARGO	016-31734474	12/15/2023	12/17/2023	SGSO	FC12040B	7	7	S2BVEM	Sampled			•						
	RHMW02	WL	RHMW02-WGN01LF-2312WK2-DF	0	0	WG	N	1	LF	2023-12-15 09:55 AM	2312W2DFSG07	UNITED CARGO	016-31734474	12/15/2023	12/17/2023	SGSO	FC12040	7	7	S2BVEM	Sampled						•	•		
	RHMW02	WL	RHMW02-WGN01LF-2312WK3-DF	0	0	WG	N	1	LF	2023-12-19 10:40 AM	2312W3DFSG07	UNITED CARGO	016-50250804	12/19/2023	12/20/2023	SGSO	FC12136	7	7	S2BVEM	Sampled			•			•	•		
	RHMW02	WL	RHMW02-WGN01LF-2312WK4-DF	0	0	WG	N	1	LF	2023-12-26 10:20 AM	2312W4DFSG07	UNITED CARGO	016-50232700	12/26/2023	12/27/2023	SGSO	FC12235	7	7	S2BVEM	Sampled			•			•	•		
	RHMW03	WL	RHMW03-WGN01LF-2312WK2-DF	0	0	WG	N	1	LF	2023-12-12 11:00 AM	2312W2DFSG06	UNITED CARGO	016-31734334	12/12/2023	12/13/2023	SGSO	FC11937	7	7	S2BVEM	Sampled; No SGC			•			•	•		
	RHMW03	WL	RHMW03-WGN01LF-2312WK3-DF	0	0	WG	N	1	LF	2023-12-19 11:00 AM	2312W3DFSG06	UNITED CARGO	016-50250804	12/19/2023	12/20/2023	SGSO	FC12136	7	7	S2BVEM	Sampled; No SGC			•			•	•		
	RHMW03	WL	RHMW03-WGN01LF-2312WK4-DF	0	0	WG	N	1	LF	2023-12-26 09:15 AM	2312W4DFSG06	UNITED CARGO	016-50232700	12/26/2023	12/27/2023	SGSO	FC12235	7	7	S2BVEM	Sampled; No SGC			•			•	•		
	RHMW04	WL	RHMW04-WGN01LF-2312WK2-DF	0	0	WG	N	1	LF	2023-12-11 08:45 AM	2312W2DFAP08	FEDEX	787846237144	12/11/2023	12/12/2023	APPL	23L0083	7	7	S2BVEM	Sampled	•								

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RHMW04	WL	RHMW04-WGN01LF-2312WK2-DF	0	0	WG	N	1	LF	2023-12-11 08:45 AM	2312W2DFSG08	UNITED CARGO	016-31734323	12/11/2023	12/12/2023	SGSO	FC11893	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHMW04	WL	RHMW04-WGN01LF-2312WK3-DF	0	0	WG	N	1	LF	2023-12-18 09:50 AM	2312W3DFAP08	FEDEX	788242416043	12/18/2023	12/19/2023	APPL	23L0150	7	7	S2BVEM	Sampled	•								
RHMW04	WL	RHMW04-WGN01LF-2312WK3-DF	0	0	WG	N	1	LF	2023-12-18 09:50 AM	2312W3DFSG08	UNITED CARGO	016-46593422	12/18/2023	12/19/2023	SGSO	FC12097	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHMW04	WL	RHMW04-WGN01LF-2312WK4-DF	0	0	WG	N	1	LF	2023-12-27 09:55 AM	2312W4DFAP08	FEDEX	788599536972	12/27/2023	12/28/2023	APPL	23L0216	7	7	S2BVEM	Sampled	•								
RHMW04	WL	RHMW04-WGN01LF-2312WK4-DF	0	0	WG	N	1	LF	2023-12-27 09:55 AM	2312W4DFSG08	UNITED CARGO	016-50234450	12/27/2023	12/29/2023	SGSO	FC12258	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHMW05	WL	RHMW05-WGN01LF-2312WK2-DF	0	0	WG	N	1	LF	2023-12-12 10:55 AM	2312W2DFSG05	UNITED CARGO	016-31734334	12/12/2023	12/13/2023	SGSO	FC11937	7	7	S2BVEM	Sampled; No SGC			•			•	•		
RHMW05	WL	RHMW05-WGN01LF-2312WK3-DF	0	0	WG	N	1	LF	2023-12-22 10:45 AM	2312W3DFSG05	UNITED CARGO	016-79678922	12/22/2023	12/23/2023	SGSO	FC12219	7	7	S2BVEM	Sampled; No SGC			•			•	•		
RHMW05	WL	RHMW05-WGN01LF-2312WK4-DF	0	0	WG	N	1	LF	2023-12-29 12:40 PM	2312W4DFSG05	UNITED CARGO	016-50234472	12/29/2023	12/30/2023	SGSO	FC12292	7	7	S2BVEM	Sampled; No SGC			•			•	•		
RHMW06	WL	RHMW06-WGN01LF-2312WK2-DF	0	0	WG	N	1	LF	2023-12-11 10:25 AM	2312W2DFAP09	FEDEX	787846237144	12/11/2023	12/12/2023	APPL	23L0083	7	7	S2BVEM	Sampled	•								
RHMW06	WL	RHMW06-WGN01LF-2312WK2-DF	0	0	WG	N	1	LF	2023-12-11 10:25 AM	2312W2DFSG09	UNITED CARGO	016-31734323	12/11/2023	12/12/2023	SGSO	FC11893	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHMW06	WL	RHMW06-WGN01LF-2312WK3-DF	0	0	WG	N	1	LF	2023-12-18 11:10 AM	2312W3DFAP09	FEDEX	788242416043	12/18/2023	12/19/2023	APPL	23L0150	7	7	S2BVEM	Sampled	•								
RHMW06	WL	RHMW06-WGN01LF-2312WK3-DF	0	0	WG	N	1	LF	2023-12-18 11:10 AM	2312W3DFSG09	UNITED CARGO	016-46593422	12/18/2023	12/19/2023	SGSO	FC12097	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHMW06	WL	RHMW06-WGN01LF-2312WK4-DF	0	0	WG	N	1	LF	2023-12-27 11:15 AM	2312W4DFAP09	FEDEX	788599536972	12/27/2023	12/28/2023	APPL	23L0216	7	7	S2BVEM	Sampled	•								
RHMW06	WL	RHMW06-WGN01LF-2312WK4-DF	0	0	WG	N	1	LF	2023-12-27 11:15 AM	2312W4DFSG09	UNITED CARGO	016-50234450	12/27/2023	12/29/2023	SGSO	FC12258	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHMW08	WL	RHMW08-WGN01LF-2312WK2-DF	0	0	WG	N	1	LF	2023-12-11 11:05 AM	2312W2DFSG04	UNITED CARGO	016-31734323	12/11/2023	12/12/2023	SGSO	FC11893	7	7	S2BVEM	Sampled; No SGC			•			•	•		
RHMW08	WL	RHMW08-WGN01LF-2312WK3-DF	0	0	WG	N	1	LF	2023-12-18 11:30 AM	2312W3DFSG04	UNITED CARGO	016-46593422	12/18/2023	12/19/2023	SGSO	FC12097	7	7	S2BVEM	Sampled			•			•	•		
RHMW08	WL	RHMW08-WGN01LF-2312WK4-DF	0	0	WG	N	1	LF	2023-12-26 09:25 AM	2312W4DFSG04	UNITED CARGO	016-50232700	12/26/2023	12/27/2023	SGSO	FC12235	7	7	S2BVEM	Sampled			•			•	•		
RHMW09	WL	RHMW09-WGN01LF-2312WK2-DF	0	0	WG	N	1	LF	2023-12-12 09:10 AM	2312W2DFAP10	FEDEX	787917471347	12/12/2023	12/13/2024	APPL	23L0091	7	7	S2BVEM	Sampled	•								
RHMW09	WL	RHMW09-WGN01LF-2312WK2-DF	0	0	WG	N	1	LF	2023-12-12 09:10 AM	2312W2DFSG10	UNITED CARGO	016-31734334	12/12/2023	12/13/2023	SGSO	FC11937	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHMW09	WL	RHMW09-WGN01LF-2312WK3-DF	0	0	WG	N	1	LF	2023-12-19 09:20 AM	2312W3DFAP10	FEDEX	788309080776	12/19/2023	12/20/2023	APPL	23L0161	7	7	S2BVEM	Sampled	•								
RHMW09	WL	RHMW09-WGN01LF-2312WK3-DF	0	0	WG	N	1	LF	2023-12-19 09:20 AM	2312W3DFSG10	UNITED CARGO	016-50250804	12/19/2023	12/20/2023	SGSO	FC12136	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHMW09	WL	RHMW09-WGN01LF-2312WK4-DF	0	0	WG	N	1	LF	2023-12-27 09:10 AM	2312W4DFAP10	FEDEX	788599536972	12/27/2023	12/28/2023	APPL	23L0216	7	7	S2BVEM	Sampled	•								
RHMW09	WL	RHMW09-WGN01LF-2312WK4-DF	0	0	WG	N	1	LF	2023-12-27 09:10 AM	2312W4DFSG10	UNITED CARGO	016-50234450	12/27/2023	12/29/2023	SGSO	FC12258	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHMW10	WL	RHMW10-WGN01LF-2312WK2-DF	0	0	WG	N	1	LF	2023-12-13 09:52 AM	2312W2DFAP11	FEDEX	787984458450	12/13/2023	12/14/2023	APPL	23L0108	7	7	S4VEM	Sampled	•								
RHMW10	WL	RHMW10-WGN01LF-2312WK2-DF	0	0	WG	N	1	LF	2023-12-13 09:52 AM	2312W2DFSG11	UNITED CARGO	016-31734452	12/13/2023	12/14/2023	SGSO	FC11982	7	7	S2BVEM	Sampled; No SGC		•			•	•	•	•	•
RHMW10	WL	RHMW10-WGN01LF-2312WK2-DF	0	0	WG	N	1	LF	2023-12-13 09:52 AM	2312W2DFSG11	UNITED CARGO	016-31734452	12/13/2023	12/14/2023	SGSO	FC11982A	7	7	S2BVEM	Sampled; No SGC				•					
RHMW10	WL	RHMW10-WGN01LF-2312WK3-DF	0	0	WG	N	1	LF	2023-12-20 11:10 AM	2312W3DFAP11	FEDEX	788368317326	12/20/2023	12/21/2023	APPL	23L0179	7	7	S2BVEM	Sampled	•								
RHMW10	WL	RHMW10-WGN01LF-2312WK3-DF	0	0	WG	N	1	LF	2023-12-20 11:10 AM	2312W3DFSG11	UNITED CARGO	016-50255354	12/20/2023	12/21/2023	SGSO	FC12167	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHMW10	WL	RHMW10-WGN01LF-2312WK4-DF	0	0	WG	N	1	LF	2023-12-28 12:20 PM	2312W4DFAP11	FEDEX	788649982180	12/28/2023	12/29/2023	APPL	23L0220	7	7	S2BVEM	Sampled	•								
RHMW10	WL	RHMW10-WGN01LF-2312WK4-DF	0	0	WG	N	1	LF	2023-12-28 12:20 PM	2312W4DFSG11	UNITED CARGO	016-50234461	12/28/2023	12/29/2023	SGSO	FC12289	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHMW13-04	WL	RHMW13-04-WGN01G-2312WK2-DF	0	0	WG	N	1	G	2023-12-12 09:45 AM	2312W2DFAP13	FEDEX	787917471347	12/12/2023	12/13/2024	APPL	23L0091	7	7	S2BVEM	Sampled	•								
RHMW13-04	WL	RHMW13-04-WGN01G-2312WK2-DF	0	0	WG	N	1	G	2023-12-12 09:45 AM	2312W2DFSG13	UNITED CARGO	016-31734334	12/12/2023	12/13/2023	SGSO	FC11937	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHMW13-04	WL	RHMW13-04-WGN01G-2312WK3-DF	0	0	WG	N	1	G	2023-12-19 09:30 AM	2312W3DFAP13	FEDEX	788309080776	12/19/2023	12/20/2023	APPL	23L0161	7	7	S2BVEM	Sampled	•								
RHMW13-04	WL	RHMW13-04-WGN01G-2312WK3-DF	0	0	WG	N	1	G	2023-12-19 09:30 AM	2312W3DFSG13	UNITED CARGO	016-50250804	12/19/2023	12/20/2023	SGSO	FC12136	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHMW13-04	WL	RHMW13-04-WGN01G-2312WK4-DF	0	0	WG	N	1	G	2023-12-27 11:05 AM	2312W4DFAP13	FEDEX	788599536972	12/27/2023	12/28/2023	APPL	23L0216	7	7	S2BVEM	Sampled	•								
RHMW13-04	WL	RHMW13-04-WGN01G-2312WK4-DF	0	0	WG	N	1	G	2023-12-27 11:05 AM	2312W4DFSG13	UNITED CARGO	016-50234450	12/27/2023	12/29/2023	SGSO	FC12258	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHMW15-05	WL	RHMW15-05-WGN01G-2312WK2-DF	0	0	WG	N	1	G	2023-12-11 09:10 AM	2312W2DFAP15	FEDEX	787846237144	12/11/2023	12/12/2023	APPL	23L0083	7	7	S2BVEM	Sampled	•								
RHMW15-05	WL	RHMW15-05-WGN01G-2312WK2-DF	0	0	WG	N	1	G	2023-12-11 09:10 AM	2312W2DFSG15	UNITED CARGO	016-31734323	12/11/2023	12/12/2023	SGSO	FC11893	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHMW15-05	WL	RHMW15-05-WGN01G-2312WK3-DF	0	0	WG	N	1	G	2023-12-18 09:20 AM	2312W3DFAP15	FEDEX	788242416043	12/18/2023	12/19/2023	APPL	23L0150	7	7	S2BVEM	Sampled	•								
RHMW15-05	WL	RHMW15-05-WGN01G-2312WK3-DF	0	0	WG	N	1	G	2023-12-18 09:20 AM	2312W3DFSG15	UNITED CARGO	016-46593422	12/18/2023	12/19/2023	SGSO	FC12097	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHMW15-05	WL	RHMW15-05-WGN01G-2312WK4-DF	0	0	WG	N	1	G	2023-12-29 10:35 AM	2312W4DFAP15	FEDEX	788695603227	12/29/2023	12/30/2023	APPL	23L0222	7	7	S2BVEM	Sampled	•								
RHMW15-05	WL	RHMW15-05-WGN01G-2312WK4-DF	0	0	WG	N	1	G	2023-12-29 10:35 AM	2312W4DFSG15	UNITED CARGO	016-50234472	12/29/2023	12/30/2023	SGSO	FC12292	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHMW16	WL	RHMW16-WGN01LF-2312WK2-DF	0	0	WG	N	1	LF	2023-12-11 09:05 AM	2312W2DFAP16	FEDEX	787846237144	12/11/2023	12/12/2023	APPL	23L0083	7	7	S2BVEM	Sampled	•								
RHMW16	WL	RHMW16-WGN01LF-2312WK2-DF	0	0	WG	N	1	LF	2023-12-11 09:05 AM	2312W2DFSG18	UNITED CARGO	016-31734323	12/11/2023	12/12/2023	SGSO	FC11893	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHMW16	WL	RHMW16-WGN01LF-2312WK3-DF	0	0	WG	N	1	LF	2023-12-18 08:50 AM	2312W3DFAP16	FEDEX	788242416043	12/18/2023	12/19/2023	APPL	23L0150	7	7	S2BVEM	Sampled	•								
RHMW16	WL	RHMW16-WGN01LF-2312WK3-DF	0	0	WG	N	1	LF	2023-12-18 08:50 AM	2312W3DFSG16	UNITED CARGO	016-46593422	12/18/2023	12/19/2023	SGSO	FC12097	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHMW16	WL	RHMW16-WGN01LF-2312WK4-DF	0	0	WG	N	1	LF	2023-12-26 11:08 AM	2312W4DFAP16	FEDEX	788544160259	12/26/2023	12/27/2023	APPL	23L0208	7	7	S2BVEM	Sampled	•								

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Red Hill Bulk Fuel Storage Facility

RHMW16	WL	RHMW16-WGN01LF-2312WK4-DF	0	0	WG	N	1	LF	2023-12-26 11:08 AM	2312W4DFSG16	UNITED CARGO	016-50232700	12/26/2023	12/27/2023	SGSO	FC12235	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHMW17	WL	RHMW17-WGFD01LF-2312WK2-DF	0	0	WG	FD	1	LF	2023-12-12 09:15 AM	2312W2DFAP17	FEDEX	787917471347	12/12/2023	12/13/2024	APPL	23L0091	7	7	S2BVEM	Sampled	•								
RHMW17	WL	RHMW17-WGFD01LF-2312WK2-DF	0	0	WG	FD	1	LF	2023-12-12 09:15 AM	2312W2DFSG17	UNITED CARGO	016-31734334	12/12/2023	12/13/2023	SGSO	FC11937	7	7	S2BVEM	Sampled; No SGC		•			•	•	•	•	•
RHMW17	WL	RHMW17-WGFD01LF-2312WK3-DF	0	0	WG	FD	1	LF	2023-12-19 12:45 PM	2312W3DFAP17	FEDEX	788309080776	12/19/2023	12/20/2023	APPL	23L0161	7	7	S2BVEM	Sampled	•								
RHMW17	WL	RHMW17-WGFD01LF-2312WK3-DF	0	0	WG	FD	1	LF	2023-12-19 12:45 PM	2312W3DFSG17	UNITED CARGO	016-50250804	12/19/2023	12/20/2023	SGSO	FC12136	7	7	S2BVEM	Sampled; No SGC		•			•	•	•	•	•
RHMW17	WL	RHMW17-WGFD01LF-2312WK4-DF	0	0	WG	FD	1	LF	2023-12-27 09:12 AM	2312W4DFAP17	FEDEX	788599536972	12/27/2023	12/28/2023	APPL	23L0216	7	7	S2BVEM	Sampled	•								
RHMW17	WL	RHMW17-WGFD01LF-2312WK4-DF	0	0	WG	FD	1	LF	2023-12-27 09:12 AM	2312W4DFSG17	UNITED CARGO	016-50234450	12/27/2023	12/29/2023	SGSO	FC12258	7	7	S2BVEM	Sampled; No SGC		•			•	•	•	•	•
RHMW17	WL	RHMW17-WGN01LF-2312WK2-DF	0	0	WG	N	1	LF	2023-12-12 09:15 AM	2312W2DFAP17	FEDEX	787917471347	12/12/2023	12/13/2024	APPL	23L0091	7	7	S2BVEM	Sampled	•								
RHMW17	WL	RHMW17-WGN01LF-2312WK2-DF	0	0	WG	N	1	LF	2023-12-12 09:15 AM	2312W2DFSG17	UNITED CARGO	016-31734334	12/12/2023	12/13/2023	SGSO	FC11937	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHMW17	WL	RHMW17-WGN01LF-2312WK3-DF	0	0	WG	N	1	LF	2023-12-19 12:45 PM	2312W3DFAP17	FEDEX	788309080776	12/19/2023	12/20/2023	APPL	23L0161	7	7	S2BVEM	Sampled	•								
RHMW17	WL	RHMW17-WGN01LF-2312WK3-DF	0	0	WG	N	1	LF	2023-12-19 12:45 PM	2312W3DFSG17	UNITED CARGO	016-50250804	12/19/2023	12/20/2023	SGSO	FC12136	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHMW17	WL	RHMW17-WGN01LF-2312WK4-DF	0	0	WG	N	1	LF	2023-12-27 09:12 AM	2312W4DFAP17	FEDEX	788599536972	12/27/2023	12/28/2023	APPL	23L0216	7	7	S2BVEM	Sampled	•								
RHMW17	WL	RHMW17-WGN01LF-2312WK4-DF	0	0	WG	N	1	LF	2023-12-27 09:12 AM	2312W4DFSG17	UNITED CARGO	016-50234450	12/27/2023	12/29/2023	SGSO	FC12258	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHMW19	WL	RHMW19-WGN01LF-2312WK2-DF	0	0	WG	N	1	LF	2023-12-12 11:25 AM	2312W2DFAP18	FEDEX	787917471347	12/12/2023	12/13/2024	APPL	23L0091	7	7	S2BVEM	Sampled	•								
RHMW19	WL	RHMW19-WGN01LF-2312WK2-DF	0	0	WG	N	1	LF	2023-12-12 11:25 AM	2312W2DFSG18	UNITED CARGO	016-31734334	12/12/2023	12/13/2023	SGSO	FC11937	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHMW19	WL	RHMW19-WGN01LF-2312WK3-DF	0	0	WG	N	1	LF	2023-12-19 11:25 AM	2312W3DFAP18	FEDEX	788309080776	12/19/2023	12/20/2023	APPL	23L0161	7	7	S2BVEM	Sampled	•								
RHMW19	WL	RHMW19-WGN01LF-2312WK3-DF	0	0	WG	N	1	LF	2023-12-19 11:25 AM	2312W3DFSG18	UNITED CARGO	016-50250804	12/19/2023	12/20/2023	SGSO	FC12136	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHMW19	WL	RHMW19-WGN01LF-2312WK4-DF	0	0	WG	N	1	LF	2023-12-27 11:15 AM	2312W4DFAP18	FEDEX	788599536972	12/27/2023	12/28/2023	APPL	23L0216	7	7	S2BVEM	Sampled	•								
RHMW19	WL	RHMW19-WGN01LF-2312WK4-DF	0	0	WG	N	1	LF	2023-12-27 11:15 AM	2312W4DFSG18	UNITED CARGO	016-50234450	12/27/2023	12/29/2023	SGSO	FC12258	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHMW20	WL	RHMW20-WGN01LF-2312WK2-DF	0	0	WG	N	1	LF	2023-12-13 10:50 AM	2312W2DFAP19	FEDEX	787984458450	12/13/2023	12/14/2023	APPL	23L0108	7	7	S4VEM	Sampled	•								
RHMW20	WL	RHMW20-WGN01LF-2312WK2-DF	0	0	WG	N	1	LF	2023-12-13 10:50 AM	2312W2DFSG19	UNITED CARGO	016-31734452	12/13/2023	12/14/2023	SGSO	FC11982	7	7	S2BVEM	Sampled; No SGC		•			•	•	•	•	•
RHMW20	WL	RHMW20-WGN01LF-2312WK2-DF	0	0	WG	N	1	LF	2023-12-13 10:50 AM	2312W2DFSG19	UNITED CARGO	016-31734452	12/13/2023	12/14/2023	SGSO	FC11982A	7	7	S2BVEM	Sampled; No SGC				•					
RHMW20	WL	RHMW20-WGN01LF-2312WK3-DF	0	0	WG	N	1	LF	2023-12-20 11:30 AM	2312W3DFAP19	FEDEX	788368317326	12/20/2023	12/21/2023	APPL	23L0179	7	7	S2BVEM	Sampled	•								
RHMW20	WL	RHMW20-WGN01LF-2312WK3-DF	0	0	WG	N	1	LF	2023-12-20 11:30 AM	2312W3DFSG19	UNITED CARGO	016-50255354	12/20/2023	12/21/2023	SGSO	FC12167	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHMW20	WL	RHMW20-WGN01LF-2312WK4-DF	0	0	WG	N	1	LF	2023-12-28 10:15 AM	2312W4DFAP19	FEDEX	788649982180	12/28/2023	12/29/2023	APPL	23L0220	7	7	S2BVEM	Sampled	•								
RHMW20	WL	RHMW20-WGN01LF-2312WK4-DF	0	0	WG	N	1	LF	2023-12-28 10:15 AM	2312W4DFSG19	UNITED CARGO	016-50234461	12/28/2023	12/29/2023	SGSO	FC12289	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHMW2254-01	WL	RHMW2254-01-WGN01LF-2312WK2-DF	0	0	WG	N	1	LF	2023-12-12 09:25 AM	2312W2DFSG03	UNITED CARGO	016-31734334	12/12/2023	12/13/2023	SGSO	FC11937	7	7	S2BVEM	Sampled; No SGC			•			•	•		
RHMW2254-01	WL	RHMW2254-01-WGN01LF-2312WK3-DF	0	0	WG	N	1	LF	2023-12-19 09:15 AM	2312W3DFSG03	UNITED CARGO	016-50250804	12/19/2023	12/20/2023	SGSO	FC12136	7	7	S2BVEM	Sampled; No SGC			•			•	•		
RHMW2254-01	WL	RHMW2254-01-WGN01LF-2312WK4-DF	0	0	WG	N	1	LF	2023-12-26 10:50 AM	2312W4DFSG03	UNITED CARGO	016-50232700	12/26/2023	12/27/2023	SGSO	FC12235	7	7	S2BVEM	Sampled; No SGC			•			•	•		
RHP01	WL	RHP01-WGN01LF-2312WK2-DF	0	0	WG	N	1	LF	2023-12-11 12:10 PM	2312W2DFAP20	FEDEX	787846237144	12/11/2023	12/12/2023	APPL	23L0083	7	7	S2BVEM	Sampled	•								
RHP01	WL	RHP01-WGN01LF-2312WK2-DF	0	0	WG	N	1	LF	2023-12-11 12:10 PM	2312W2DFSG20	UNITED CARGO	016-31734323	12/11/2023	12/12/2023	SGSO	FC11893	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHP01	WL	RHP01-WGN01LF-2312WK3-DF	0	0	WG	N	1	LF	2023-12-18 08:20 AM	2312W3DFAP20	FEDEX	788242416043	12/18/2023	12/19/2023	APPL	23L0150	7	7	S2BVEM	Sampled	•								
RHP01	WL	RHP01-WGN01LF-2312WK3-DF	0	0	WG	N	1	LF	2023-12-18 08:20 AM	2312W3DFSG20	UNITED CARGO	016-46593422	12/18/2023	12/19/2023	SGSO	FC12097	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHP01	WL	RHP01-WGN01LF-2312WK4-DF	0	0	WG	N	1	LF	2023-12-26 12:17 PM	2312W4DFAP20	FEDEX	788544160259	12/26/2023	12/27/2023	APPL	23L0208	7	7	S2BVEM	Sampled	•								
RHP01	WL	RHP01-WGN01LF-2312WK4-DF	0	0	WG	N	1	LF	2023-12-26 12:17 PM	2312W4DFSG20	UNITED CARGO	016-50232700	12/26/2023	12/27/2023	SGSO	FC12235	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHP02	WL	RHP02-WGFD01LF-2312WK2-DF	0	0	WG	FD	1	LF	2023-12-11 08:50 AM	2312W2DFAP21	FEDEX	787846237144	12/11/2023	12/12/2023	APPL	23L0083	7	7	S2BVEM	Sampled	•								
RHP02	WL	RHP02-WGFD01LF-2312WK2-DF	0	0	WG	FD	1	LF	2023-12-11 08:50 AM	2312W2DFSG21	UNITED CARGO	016-31734323	12/11/2023	12/12/2023	SGSO	FC11893	7	7	S2BVEM	Sampled; No SGC		•			•	•	•	•	•
RHP02	WL	RHP02-WGFD01LF-2312WK3-DF	0	0	WG	FD	1	LF	2023-12-18 09:55 AM	2312W3DFAP21	FEDEX	788242416043	12/18/2023	12/19/2023	APPL	23L0150	7	7	S2BVEM	Sampled	•								
RHP02	WL	RHP02-WGFD01LF-2312WK3-DF	0	0	WG	FD	1	LF	2023-12-18 09:55 AM	2312W3DFSG21	UNITED CARGO	016-46593422	12/18/2023	12/19/2023	SGSO	FC12097	7	7	S2BVEM	Sampled; No SGC		•			•	•	•	•	•
RHP02	WL	RHP02-WGFD01LF-2312WK4-DF	0	0	WG	FD	1	LF	2023-12-26 08:05 AM	2312W4DFAP21	FEDEX	788544160259	12/26/2023	12/27/2023	APPL	23L0208	7	7	S2BVEM	Sampled	•								
RHP02	WL	RHP02-WGFD01LF-2312WK4-DF	0	0	WG	FD	1	LF	2023-12-26 08:05 AM	2312W4DFSG21	UNITED CARGO	016-50232700	12/26/2023	12/27/2023	SGSO	FC12235	7	7	S2BVEM	Sampled; No SGC		•			•	•	•	•	•
RHP02	WL	RHP02-WGN01LF-2312WK2-DF	0	0	WG	N	1	LF	2023-12-11 08:50 AM	2312W2DFAP21	FEDEX	787846237144	12/11/2023	12/12/2023	APPL	23L0083	7	7	S2BVEM	Sampled	•								
RHP02	WL	RHP02-WGN01LF-2312WK2-DF	0	0	WG	N	1	LF	2023-12-11 08:50 AM	2312W2DFSG21	UNITED CARGO	016-31734323	12/11/2023	12/12/2023	SGSO	FC11893	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHP02	WL	RHP02-WGN01LF-2312WK3-DF	0	0	WG	N	1	LF	2023-12-18 09:55 AM	2312W3DFAP21	FEDEX	788242416043	12/18/2023	12/19/2023	APPL	23L0150	7	7	S2BVEM	Sampled	•								
RHP02	WL	RHP02-WGN01LF-2312WK3-DF	0	0	WG	N	1	LF	2023-12-18 09:55 AM	2312W3DFSG21	UNITED CARGO	016-46593422	12/18/2023	12/19/2023	SGSO	FC12097	7	7	S2BVEM	Sampled		•		•	•	•	•	•	•
RHP02	WL	RHP02-WGN01LF-2312WK4-DF	0	0	WG	N	1	LF	2023-12-26 08:05 AM	2312W4DFAP21	FEDEX	788544160259	12/26/2023	12/27/2023	APPL	23L0208	7	7	S2BVEM	Sampled	•								
RHP02	WL	RHP02-WGN01LF-2312WK4-DF	0	0	WG	N	1	LF	2023-12-26 08:05 AM	2312W4DFSG21	UNITED CARGO	016-50232700	12/26/2023	12/27/2023	SGSO	FC12235	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•

Event Status Report
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RHS CGW UFP-QAPP

RHP03	WL	RHP03-WGN01LF-2312WK2-DF	0	0	WG	N	1	LF	2023-12-11 11:35 AM	2312W2DFAP22	FEDEX	787846237144	12/11/2023	12/12/2023	APPL	23L0083	7	7	S2BVEM	Sampled	•								
RHP03	WL	RHP03-WGN01LF-2312WK2-DF	0	0	WG	N	1	LF	2023-12-11 11:35 AM	2312W2DFSG22	UNITED CARGO	016-31734323	12/11/2023	12/12/2023	SGSO	FC11893	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHP03	WL	RHP03-WGN01LF-2312WK3-DF	0	0	WG	N	1	LF	2023-12-18 12:30 PM	2312W3DFAP22	FEDEX	788242416043	12/18/2023	12/19/2023	APPL	23L0150	7	7	S2BVEM	Sampled	•								
RHP03	WL	RHP03-WGN01LF-2312WK3-DF	0	0	WG	N	1	LF	2023-12-18 12:30 PM	2312W3DFSG22	UNITED CARGO	016-46593422	12/18/2023	12/19/2023	SGSO	FC12097	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHP03	WL	RHP03-WGN01LF-2312WK4-DF	0	0	WG	N	1	LF	2023-12-26 10:45 AM	2312W4DFAP22	FEDEX	788544160259	12/26/2023	12/27/2023	APPL	23L0208	7	7	S2BVEM	Sampled	•								
RHP03	WL	RHP03-WGN01LF-2312WK4-DF	0	0	WG	N	1	LF	2023-12-26 10:45 AM	2312W4DFSG22	UNITED CARGO	016-50232700	12/26/2023	12/27/2023	SGSO	FC12235	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHP04A	WL	RHP04A-WGN01LF-2312WK2-DF	0	0	WG	N	1	LF	2023-12-12 10:35 AM	2312W2DFAP23	FEDEX	787917471347	12/12/2023	12/13/2024	APPL	23L0091	7	7	S2BVEM	Sampled	•								
RHP04A	WL	RHP04A-WGN01LF-2312WK2-DF	0	0	WG	N	1	LF	2023-12-12 10:35 AM	2312W2DFSG23	UNITED CARGO	016-31734334	12/12/2023	12/13/2023	SGSO	FC11937	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHP04A	WL	RHP04A-WGN01LF-2312WK3-DF	0	0	WG	N	1	LF	2023-12-19 08:57 AM	2312W3DFAP23	FEDEX	788309080776	12/19/2023	12/20/2023	APPL	23L0161	7	7	S2BVEM	Sampled	•								
RHP04A	WL	RHP04A-WGN01LF-2312WK3-DF	0	0	WG	N	1	LF	2023-12-19 08:57 AM	2312W3DFSG23	UNITED CARGO	016-50250804	12/19/2023	12/20/2023	SGSO	FC12136	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHP04A	WL	RHP04A-WGN01LF-2312WK4-DF	0	0	WG	N	1	LF	2023-12-27 08:25 AM	2312W4DFAP23	FEDEX	788599536972	12/27/2023	12/28/2023	APPL	23L0216	7	7	S2BVEM	Sampled	•								
RHP04A	WL	RHP04A-WGN01LF-2312WK4-DF	0	0	WG	N	1	LF	2023-12-27 08:25 AM	2312W4DFSG23	UNITED CARGO	016-50234450	12/27/2023	12/29/2023	SGSO	FC12258	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHP04B	WL	RHP04B-WGN01LF-2312WK2-DF	0	0	WG	N	1	LF	2023-12-12 09:00 AM	2312W2DFAP24	FEDEX	787917471347	12/12/2023	12/13/2024	APPL	23L0091	7	7	S2BVEM	Sampled	•								
RHP04B	WL	RHP04B-WGN01LF-2312WK2-DF	0	0	WG	N	1	LF	2023-12-12 09:00 AM	2312W2DFSG24	UNITED CARGO	016-31734334	12/12/2023	12/13/2023	SGSO	FC11937	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHP04B	WL	RHP04B-WGN01LF-2312WK3-DF	0	0	WG	N	1	LF	2023-12-19 11:20 AM	2312W3DFAP24	FEDEX	788309080776	12/19/2023	12/20/2023	APPL	23L0161	7	7	S2BVEM	Sampled	•								
RHP04B	WL	RHP04B-WGN01LF-2312WK3-DF	0	0	WG	N	1	LF	2023-12-19 11:20 AM	2312W3DFSG24	UNITED CARGO	016-50250804	12/19/2023	12/20/2023	SGSO	FC12136	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHP04B	WL	RHP04B-WGN01LF-2312WK4-DF	0	0	WG	N	1	LF	2023-12-27 10:55 AM	2312W4DFAP24	FEDEX	788599536972	12/27/2023	12/28/2023	APPL	23L0216	7	7	S2BVEM	Sampled	•								
RHP04B	WL	RHP04B-WGN01LF-2312WK4-DF	0	0	WG	N	1	LF	2023-12-27 10:55 AM	2312W4DFSG24	UNITED CARGO	016-50234450	12/27/2023	12/29/2023	SGSO	FC12258	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHP04C	WL	RHP04C-WGN01LF-2312WK2-DF	0	0	WG	N	1	LF	2023-12-13 08:55 AM	2312W2DFAP25	FEDEX	787984458450	12/13/2023	12/14/2023	APPL	23L0108	7	7	S4VEM	Sampled	•								
RHP04C	WL	RHP04C-WGN01LF-2312WK2-DF	0	0	WG	N	1	LF	2023-12-13 08:55 AM	2312W2DFSG25	UNITED CARGO	016-31734452	12/13/2023	12/14/2023	SGSO	FC11982	7	7	S2BVEM	Sampled; No SGC		•			•	•	•	•	•
RHP04C	WL	RHP04C-WGN01LF-2312WK2-DF	0	0	WG	N	1	LF	2023-12-13 08:55 AM	2312W2DFSG25	UNITED CARGO	016-31734452	12/13/2023	12/14/2023	SGSO	FC11982A	7	7	S2BVEM	Sampled; No SGC				•					
RHP04C	WL	RHP04C-WGN01LF-2312WK3-DF	0	0	WG	N	1	LF	2023-12-20 09:40 AM	2312W3DFAP25	FEDEX	788368317326	12/20/2023	12/21/2023	APPL	23L0179	7	7	S2BVEM	Sampled	•								
RHP04C	WL	RHP04C-WGN01LF-2312WK3-DF	0	0	WG	N	1	LF	2023-12-20 09:40 AM	2312W3DFSG25	UNITED CARGO	016-50255354	12/20/2023	12/21/2023	SGSO	FC12167	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHP04C	WL	RHP04C-WGN01LF-2312WK4-DF	0	0	WG	N	1	LF	2023-12-28 08:40 AM	2312W4DFAP25	FEDEX	788649982180	12/28/2023	12/29/2023	APPL	23L0220	7	7	S2BVEM	Sampled	•								
RHP04C	WL	RHP04C-WGN01LF-2312WK4-DF	0	0	WG	N	1	LF	2023-12-28 08:40 AM	2312W4DFSG25	UNITED CARGO	016-50234461	12/28/2023	12/29/2023	SGSO	FC12289	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHP05	WL	RHP05-WGN01LF-2312WK2-DF	0	0	WG	N	1	LF	2023-12-13 09:05 AM	2312W2DFAP26	FEDEX	787984458450	12/13/2023	12/14/2023	APPL	23L0108	7	7	S4VEM	Sampled	•								
RHP05	WL	RHP05-WGN01LF-2312WK2-DF	0	0	WG	N	1	LF	2023-12-13 09:05 AM	2312W2DFSG26	UNITED CARGO	016-31734452	12/13/2023	12/14/2023	SGSO	FC11982	7	7	S2BVEM	Sampled; No SGC		•			•	•	•	•	•
RHP05	WL	RHP05-WGN01LF-2312WK2-DF	0	0	WG	N	1	LF	2023-12-13 09:05 AM	2312W2DFSG26	UNITED CARGO	016-31734452	12/13/2023	12/14/2023	SGSO	FC11982A	7	7	S2BVEM	Sampled; No SGC				•					
RHP05	WL	RHP05-WGN01LF-2312WK3-DF	0	0	WG	N	1	LF	2023-12-20 08:32 AM	2312W3DFAP26	FEDEX	788368317326	12/20/2023	12/21/2023	APPL	23L0179	7	7	S2BVEM	Sampled	•								
RHP05	WL	RHP05-WGN01LF-2312WK3-DF	0	0	WG	N	1	LF	2023-12-20 08:32 AM	2312W3DFSG26	UNITED CARGO	016-50255354	12/20/2023	12/21/2023	SGSO	FC12167	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHP05	WL	RHP05-WGN01LF-2312WK4-DF	0	0	WG	N	1	LF	2023-12-28 09:20 AM	2312W4DFAP26	FEDEX	788649982180	12/28/2023	12/29/2023	APPL	23L0220	7	7	S2BVEM	Sampled	•								
RHP05	WL	RHP05-WGN01LF-2312WK4-DF	0	0	WG	N	1	LF	2023-12-28 09:20 AM	2312W4DFSG26	UNITED CARGO	016-50234461	12/28/2023	12/29/2023	SGSO	FC12289	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHP06	WL	RHP06-WGN01LF-2312WK2-DF	0	0	WG	N	1	LF	2023-12-13 11:10 AM	2312W2DFAP27	FEDEX	787984458450	12/13/2023	12/14/2023	APPL	23L0108	7	7	S4VEM	Sampled	•								
RHP06	WL	RHP06-WGN01LF-2312WK2-DF	0	0	WG	N	1	LF	2023-12-13 11:10 AM	2312W2DFSG27	UNITED CARGO	016-31734452	12/13/2023	12/14/2023	SGSO	FC11982	7	7	S2BVEM	Sampled; No SGC		•			•	•	•	•	•
RHP06	WL	RHP06-WGN01LF-2312WK2-DF	0	0	WG	N	1	LF	2023-12-13 11:10 AM	2312W2DFSG27	UNITED CARGO	016-31734452	12/13/2023	12/14/2023	SGSO	FC11982A	7	7	S2BVEM	Sampled; No SGC				•					
RHP06	WL	RHP06-WGN01LF-2312WK3-DF	0	0	WG	N	1	LF	2023-12-20 10:22 AM	2312W3DFAP27	FEDEX	788368317326	12/20/2023	12/21/2023	APPL	23L0179	7	7	S2BVEM	Sampled	•								
RHP06	WL	RHP06-WGN01LF-2312WK3-DF	0	0	WG	N	1	LF	2023-12-20 10:22 AM	2312W3DFSG27	UNITED CARGO	016-50255354	12/20/2023	12/21/2023	SGSO	FC12167	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHP06	WL	RHP06-WGN01LF-2312WK4-DF	0	0	WG	N	1	LF	2023-12-28 11:35 AM	2312W4DFAP27	FEDEX	788649982180	12/28/2023	12/29/2023	APPL	23L0220	7	7	S2BVEM	Sampled	•								
RHP06	WL	RHP06-WGN01LF-2312WK4-DF	0	0	WG	N	1	LF	2023-12-28 11:35 AM	2312W4DFSG27	UNITED CARGO	016-50234461	12/28/2023	12/29/2023	SGSO	FC12289	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHP07	WL	RHP07-WGN01LF-2312WK2-DF	0	0	WG	N	1	LF	2023-12-12 09:55 AM	2312W2DFSG02	UNITED CARGO	016-31734334	12/12/2023	12/13/2023	SGSO	FC11937	7	7	S2BVEM	Sampled; No SGC			•			•	•		
RHP07	WL	RHP07-WGN01LF-2312WK3-DF	0	0	WG	N	1	LF	2023-12-22 09:40 AM	2312W3DFSG02	UNITED CARGO	016-79678922	12/22/2023	12/23/2023	SGSO	FC12219	7	7	S2BVEM	Sampled; No SGC			•			•	•		
RHP07	WL	RHP07-WGN01LF-2312WK4-DF	0	0	WG	N	1	LF	2023-12-29 11:30 AM	2312W4DFSG15	UNITED CARGO	016-50234472	12/29/2023	12/30/2023	SGSO	FC12292	7	7	S2BVEM	Sampled; No SGC			•			•	•		
RHP08	WL	RHP08-WGN01LF-2312WK2-DF	0	0	WG	N	1	LF	2023-12-13 01:20 PM	2312W2DFAP28	FEDEX	787984458450	12/13/2023	12/14/2023	APPL	23L0108	7	7	S4VEM	Sampled	•								
RHP08	WL	RHP08-WGN01LF-2312WK2-DF	0	0	WG	N	1	LF	2023-12-13 01:20 PM	2312W2DFSG28	UNITED CARGO	016-31734452	12/13/2023	12/14/2023	SGSO	FC11982	7	7	S2BVEM	Sampled; No SGC		•			•	•	•	•	•
RHP08	WL	RHP08-WGN01LF-2312WK2-DF	0	0	WG	N	1	LF	2023-12-13 01:20 PM	2312W2DFSG28	UNITED CARGO	016-31734452	12/13/2023	12/14/2023	SGSO	FC11982A	7	7	S2BVEM	Sampled; No SGC				•					
RHP08	WL	RHP08-WGN01LF-2312WK3-DF	0	0	WG	N	1	LF	2023-12-20 08:47 AM	2312W3DFAP28	FEDEX	788368317326	12/20/2023	12/21/2023	APPL	23L0179	7	7	S2BVEM	Sampled	•								

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RHP08	WL	RHP08-WGN01LF-2312WK3-DF	0	0	WG	N	1	LF	2023-12-20 08:47 AM	2312W3DFSG28	UNITED CARGO	016-50255354	12/20/2023	12/21/2023	SGSO	FC12167	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHP08	WL	RHP08-WGN01LF-2312WK4-DF	0	0	WG	N	1	LF	2023-12-28 09:55 AM	2312W4DFAP28	FEDEX	788649982180	12/28/2023	12/29/2023	APPL	23L0220	7	7	S2BVEM	Sampled	•								
RHP08	WL	RHP08-WGN01LF-2312WK4-DF	0	0	WG	N	1	LF	2023-12-28 09:55 AM	2312W4DFSG28	UNITED CARGO	016-50234461	12/28/2023	12/29/2023	SGSO	FC12289	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
																				S2BVEM Count	***57***	***63***	***27***	***57***	***63***	***90***	***90***	***63***	***63***
																				S4VEM Count	***6***	***0***	***0***	***0***	***0***	***0***	***0***	***0***	***0***
																				Site Location Count	***63***	***63***	***27***	***57***	***63***	***90***	***90***	***63***	***63***
																				Total Location Count	***69***	***69***	***27***	***63***	***69***	***96***	***96***	***69***	***69***

Note: This event has missing samples in Event Management that are Field QC ONLY. Please refer to the Unplanned Field Samples report to view these samples.

Status	Color
Status Not Determined	
Scheduled for Analysis; Awaiting Field Data	
Chain of Custody Data Loaded and Certified; Awaiting Lab Data	
Laboratory Data Loaded and Certified; Awaiting Validation	
Validation Qualifiers Finalized; Awaiting Approval	
Approval Complete; Data In Production	

Matrix Name	Matrix
Ground Water	WG

Sampling Method	Code
Grab	G
Low-Flow (Slow Purge) Groundwater Pumping	LF

Laboratory Name	Laboratory Code
Agriculture & Priority Pollutants Laboratories, Inc.	APPL
SGS North America, Inc., Orlando, FL	SGSO

Location Type	Code
Well	WL

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Event Name: Defueling and Monthly 2024 January

Event ID: 2137

Site	Location	Location Type	Field Sample ID	Begin Depth	End Depth	Matrix	Sample Type	Sample No.	Samp. Method	Sampling Date	Chain of Custody	Shipping Method	Shipment Tracking Number	Laboratory Shipped Date	Laboratory Receipt Date	Lab	SDG	TAT (Days)	Validation TAT (Days)	Review Type	Sampling Status	22MEE (SW8270D)	BNA SIM SGS 18 Analytes (BNASIME)	EDB SGS (SW8011)	Methane (RSK175)	NPOC (SW9060A)	Phenol SGS (SW8270)	TOC (SW9060A)	TPH Diesel and Oil SGS (SW8015C)	TPH Diesel and Oil Silica Gel EU SGS (M8015D)	TPH Gasoline SGS (M8015V)	VOCs BTEX and 12DCA SGS (SW8260D)	VOCs BTEX SGS (SW8260D)
	HDMW2253-03	WL	HDMW2253-03-WGN01LF-2401	0	0	WG	N	1	LF	2024-01-05 09:30 AM	2401SG29DF	UNITED CARGO	016-32427183	1/5/2024	1/6/2024	SGSO	FC12420	7	7	S2BVEM	Sampled; No SGC		•		•		•		•	•	•		•
	RHMW11-05	WL	RHMW11-05-WGN01G-2401-DF	0	0	WG	N	1	G	2024-01-04 12:50 PM	2401AP10DF	FEDEX	788906868958	1/4/2024	1/5/2024	APPL	24A0035	7	7	S2BVEM	Sampled	•											
	RHMW11-05	WL	RHMW11-05-WGN01G-2401-DF	0	0	WG	N	1	G	2024-01-04 12:50 PM	2401SG10DF	UNITED CARGO	016-32427172	1/4/2024	1/5/2024	SGSO	FC12403	7	7	S2BVEM	Sampled; No SGC		•	•			•		•	•	•	•	
	RHMW11-05	WL	RHMW11-05-WGN01G-2401-DF	0	0	WG	N	1	G	2024-01-04 12:50 PM	2401SG10DF	UNITED CARGO	016-32427172	1/4/2024	1/5/2024	SGSO	FC12403B	7	7	S2BVEM	Sampled; No SGC				•								
	RHMW12A	WL	RHMW12A-WGN01LF-2401	0	0	WG	N	1	LF	2024-01-05 11:12 AM	2401SG11DF	UNITED CARGO	016-32427183	1/5/2024	1/6/2024	SGSO	FC12420	7	7	S2BVEM	Sampled; No SGC		•	•	•		•		•	•	•		•
	RHMW14-03	WL	RHMW14-03-WGN01G-2401-DF	0	0	WG	N	1	G	2024-01-04 09:40 AM	2401AP13DF	FEDEX	788906868958	1/4/2024	1/5/2024	APPL	24A0035	7	7	S2BVEM	Sampled	•											
	RHMW14-03	WL	RHMW14-03-WGN01G-2401-DF	0	0	WG	N	1	G	2024-01-04 09:40 AM	2401SG13DF	UNITED CARGO	016-32427172	1/4/2024	1/5/2024	SGSO	FC12403	7	7	S2BVEM	Sampled; No SGC		•	•			•		•	•	•	•	
	RHMW14-03	WL	RHMW14-03-WGN01G-2401-DF	0	0	WG	N	1	G	2024-01-04 09:40 AM	2401SG13DF	UNITED CARGO	016-32427172	1/4/2024	1/5/2024	SGSO	FC12403B	7	7	S2BVEM	Sampled; No SGC				•								
																					S2BVEM Count	***2***	***4***	***3***	***4***	***0***	***4***	***0***	***4***	***4***	***4***	***2***	***2***
																					Site Location Count	***2***	***4***	***3***	***4***	***0***	***4***	***0***	***4***	***4***	***4***	***2***	***2***
	NMW25	WL	NMW25-WGN01LF-2401	0	0	WG	N	1	LF	2024-01-04 10:30 AM	2401SG31DF	UNITED CARGO	016-32427172	1/4/2024	1/5/2024	SGSO	FC12404	7	7	S2BVEM	Sampled; No SGC		•	•	•		•		•	•	•	•	
	NMW26	WL	NMW26-WGN02LF-2401	0	0	WG	N	1	LF	2024-02-02 01:30 PM	2401AK38	ALASKA CARGO	027-72996980	2/5/2024	2/6/2024	SGSA	1240463	7	7	S2BVEM	Sampled					•		•					
	NMW26	WL	NMW26-WGN02LF-2401	0	0	WG	N	1	LF	2024-02-02 01:30 PM	2401SG38	UNITED CARGO	016-32715981	2/2/2024	2/3/2024	SGSO	FC13080	7	7	S2BVEM	Sampled		•	•	•		•		•	•	•	•	
	NMW30	WL	NMW30-WGN01LF-2401	0	0	WG	N	1	LF	2024-01-04 08:50 AM	2401SG35DF	UNITED CARGO	016-32427172	1/4/2024	1/5/2024	SGSO	FC12404	7	7	S2BVEM	Sampled; No SGC		•	•	•		•		•	•	•	•	
	NMW32	WL	NMW32-WGN01LF-2401	0	0	WG	N	1	LF	2024-01-04 10:30 AM	2401SG32DF	UNITED CARGO	016-32427172	1/4/2024	1/5/2024	SGSO	FC12404	7	7	S2BVEM	Sampled; No SGC		•	•	•		•		•	•	•	•	
	NMW33	WL	NMW33-WGN01LF-2401	0	0	WG	N	1	LF	2024-01-05 09:15 AM	2401SG34DF	UNITED CARGO	016-32427183	1/5/2024	1/6/2024	SGSO	FC12420	7	7	S2BVEM	Sampled; No SGC		•	•	•		•		•	•	•	•	
	RHMW01R	WL	RHMW01R-WGFD01LF-2401-DF	0	0	WG	FD	1	LF	2024-01-05 10:30 AM	2401SG01DF	UNITED CARGO	016-32427183	1/5/2024	1/6/2024	SGSO	FC12419	7	7	S2BVEM	Sampled		•				•		•	•	•		•
	RHMW01R	WL	RHMW01R-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-05 10:30 AM	2401SG01DF	UNITED CARGO	016-32427183	1/5/2024	1/6/2024	SGSO	FC12419	7	7	S2BVEM	Sampled		•				•		•	•	•		•
	RHMW01R	WL	RHMW01R-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-05 10:30 AM	2401SG01DF	UNITED CARGO	016-32427183	1/5/2024	1/6/2024	SGSO	FC12419B	7	7	S2BVEM	Sampled				•								
	RHMW02	WL	RHMW02-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-05 09:15 AM	2401SG02DF	UNITED CARGO	016-32427183	1/5/2024	1/6/2024	SGSO	FC12419	7	7	S2BVEM	Sampled		•				•		•	•	•		•
	RHMW02	WL	RHMW02-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-05 09:15 AM	2401SG02DF	UNITED CARGO	016-32427183	1/5/2024	1/6/2024	SGSO	FC12419B	7	7	S2BVEM	Sampled				•								
	RHMW03	WL	RHMW03-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-02 09:35 AM	2401AK03DF	UNITED CARGO	027-72996825	1/2/2024	1/3/2024	SGSA	1240028_EDMS	7	7	S2BVEM	Sampled					•		•					
	RHMW03	WL	RHMW03-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-02 09:35 AM	2401SG03DF	UNITED CARGO	016-79678922	1/2/2024	1/3/2024	SGSO	FC12338	7	7	S2BVEM	Sampled; No SGC		•	•			•		•	•	•		•
	RHMW03	WL	RHMW03-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-02 09:35 AM	2401SG03DF	UNITED CARGO	016-79678922	1/2/2024	1/3/2024	SGSO	FC12338B	7	7	S2BVEM	Sampled; No SGC				•								
	RHMW04	WL	RHMW04-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-02 10:40 AM	2401AP04DF	FEDEX	788801921991	1/2/2024	1/3/2024	APPL	24A0008	7	7	S2BVEM	Sampled	•											
	RHMW04	WL	RHMW04-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-02 10:40 AM	2401AK04DF	UNITED CARGO	027-72996825	1/2/2024	1/3/2024	SGSA	1240028_EDMS	7	7	S2BVEM	Sampled					•		•					
	RHMW04	WL	RHMW04-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-02 10:40 AM	2401SG04DF	UNITED CARGO	016-79678922	1/2/2024	1/3/2024	SGSO	FC12338	7	7	S2BVEM	Sampled; No SGC		•	•			•		•	•	•	•	
	RHMW04	WL	RHMW04-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-02 10:40 AM	2401SG04DF	UNITED CARGO	016-79678922	1/2/2024	1/3/2024	SGSO	FC12338B	7	7	S2BVEM	Sampled; No SGC				•								
	RHMW05	WL	RHMW05-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-02 09:45 AM	2401AK05DF	UNITED CARGO	027-72996825	1/2/2024	1/3/2024	SGSA	1240028_EDMS	7	7	S2BVEM	Sampled					•		•					
	RHMW05	WL	RHMW05-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-02 09:45 AM	2401SG05DF	UNITED CARGO	016-79678922	1/2/2024	1/3/2024	SGSO	FC12338	7	7	S2BVEM	Sampled; No SGC		•				•		•	•	•		•
	RHMW05	WL	RHMW05-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-02 09:45 AM	2401SG05DF	UNITED CARGO	016-79678922	1/2/2024	1/3/2024	SGSO	FC12338B	7	7	S2BVEM	Sampled; No SGC				•								
	RHMW06	WL	RHMW06-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-02 12:40 PM	2401AP06DF	FEDEX	788801921991	1/2/2024	1/3/2024	APPL	24A0008	7	7	S2BVEM	Sampled	•											
	RHMW06	WL	RHMW06-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-02 12:40 PM	2401AK06DF	UNITED CARGO	027-72996825	1/2/2024	1/3/2024	SGSA	1240028_EDMS	7	7	S2BVEM	Sampled					•		•					
	RHMW06	WL	RHMW06-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-02 12:40 PM	2401SG06DF	UNITED CARGO	016-79678922	1/2/2024	1/3/2024	SGSO	FC12338	7	7	S2BVEM	Sampled; No SGC		•	•			•		•	•	•	•	
	RHMW06	WL	RHMW06-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-02 12:40 PM	2401SG06DF	UNITED CARGO	016-79678922	1/2/2024	1/3/2024	SGSO	FC12338B	7	7	S2BVEM	Sampled; No SGC				•								
	RHMW08	WL	RHMW08-WGFD01LF-2401-DF	0	0	WG	FD	1	LF	2024-01-03 02:20 PM	2401SG07DF	UNITED CARGO	016-32427010	1/3/2024	1/4/2024	SGSO	FC12382	7	7	S4VEM	Sampled; No SGC		•				•		•	•	•		•
	RHMW08	WL	RHMW08-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-03 02:20 PM	2401AK07DF	UNITED CARGO	027-72996906	1/3/2024	1/4/2024	SGSA	1240064_EDMS	7	7	S2BVEM	Sampled					•		•					

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RHMW08	WL	RHMW08-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-03 02:20 PM	2401SG07DF	UNITED CARGO	016-32427010	1/3/2024	1/4/2024	SGSO	FC12382	7	7	S4VEM	Sampled; No SGC		•			•		•	•	•		•
RHMW08	WL	RHMW08-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-03 02:20 PM	2401SG07DF	UNITED CARGO	016-32427010	1/3/2024	1/4/2024	SGSO	FC12382B	7	7	S4VEM	Sampled; No SGC				•							
RHMW09	WL	RHMW09-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-04 10:30 AM	2401AP08DF	FEDEX	788906868958	1/4/2024	1/5/2024	APPL	24A0035	7	7	S2BVEM	Sampled	•										
RHMW09	WL	RHMW09-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-04 10:30 AM	2401SG08DF	UNITED CARGO	016-32427172	1/4/2024	1/5/2024	SGSO	FC12403	7	7	S2BVEM	Sampled; No SGC		•	•			•		•	•	•	•
RHMW09	WL	RHMW09-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-04 10:30 AM	2401SG08DF	UNITED CARGO	016-32427172	1/4/2024	1/5/2024	SGSO	FC12403B	7	7	S2BVEM	Sampled; No SGC				•							
RHMW10	WL	RHMW10-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-02 11:15 AM	2401AP09DF	FEDEX	788801921991	1/2/2024	1/3/2024	APPL	24A0008	7	7	S2BVEM	Sampled	•										
RHMW10	WL	RHMW10-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-02 11:15 AM	2401AK09DF	UNITED CARGO	027-72996825	1/2/2024	1/3/2024	SGSA	1240028_EDMS	7	7	S2BVEM	Sampled					•		•				
RHMW10	WL	RHMW10-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-02 11:15 AM	2401SG09DF	UNITED CARGO	016-79678922	1/2/2024	1/3/2024	SGSO	FC12338	7	7	S2BVEM	Sampled; No SGC		•	•			•		•	•	•	•
RHMW10	WL	RHMW10-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-02 11:15 AM	2401SG09DF	UNITED CARGO	016-79678922	1/2/2024	1/3/2024	SGSO	FC12338B	7	7	S2BVEM	Sampled; No SGC				•							
RHMW13-04	WL	RHMW13-04-WGN01G-2401-DF	0	0	WG	N	1	G	2024-01-03 10:00 AM	2401AP12DF	FEDEX	788856368121	1/3/2024		APPL	24A0022	7	7	S4VEM	Sampled	•										
RHMW13-04	WL	RHMW13-04-WGN01G-2401-DF	0	0	WG	N	1	G	2024-01-03 10:00 AM	2401AK12DF	UNITED CARGO	027-72996906	1/3/2024	1/4/2024	SGSA	1240064_EDMS	7	7	S2BVEM	Sampled					•		•				
RHMW13-04	WL	RHMW13-04-WGN01G-2401-DF	0	0	WG	N	1	G	2024-01-03 10:00 AM	2401SG12DF	UNITED CARGO	016-32427010	1/3/2024	1/4/2024	SGSO	FC12382	7	7	S4VEM	Sampled; No SGC		•	•			•		•	•	•	•
RHMW13-04	WL	RHMW13-04-WGN01G-2401-DF	0	0	WG	N	1	G	2024-01-03 10:00 AM	2401SG12DF	UNITED CARGO	016-32427010	1/3/2024	1/4/2024	SGSO	FC12382B	7	7	S4VEM	Sampled; No SGC				•							
RHMW15-05	WL	RHMW15-05-WGN01G-2401-DF	0	0	WG	N	1	G	2024-01-05 09:50 AM	2401AP14DF	FEDEX	788955276010	1/5/2024	1/6/2024	APPL	24A0039	7	7	S2BVEM	Sampled	•										
RHMW15-05	WL	RHMW15-05-WGN01G-2401-DF	0	0	WG	N	1	G	2024-01-05 09:50 AM	2401SG14DF	UNITED CARGO	016-32427183	1/5/2024	1/6/2024	SGSO	FC12419	7	7	S2BVEM	Sampled; No SGC		•	•			•		•	•	•	•
RHMW15-05	WL	RHMW15-05-WGN01G-2401-DF	0	0	WG	N	1	G	2024-01-05 09:50 AM	2401SG14DF	UNITED CARGO	016-32427183	1/5/2024	1/6/2024	SGSO	FC12419B	7	7	S2BVEM	Sampled; No SGC				•							
RHMW16	WL	RHMW16-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-03 08:55 AM	2401AP15DF	FEDEX	788856368121	1/3/2024		APPL	24A0022	7	7	S4VEM	Sampled	•										
RHMW16	WL	RHMW16-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-03 08:55 AM	2401AK15DF	UNITED CARGO	027-72996906	1/3/2024	1/4/2024	SGSA	1240064_EDMS	7	7	S2BVEM	Sampled					•		•				
RHMW16	WL	RHMW16-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-03 08:55 AM	2401SG15DF	UNITED CARGO	016-32427010	1/3/2024	1/4/2024	SGSO	FC12382	7	7	S4VEM	Sampled; No SGC		•	•			•		•	•	•	•
RHMW16	WL	RHMW16-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-03 08:55 AM	2401SG15DF	UNITED CARGO	016-32427010	1/3/2024	1/4/2024	SGSO	FC12382B	7	7	S4VEM	Sampled; No SGC				•							
RHMW17	WL	RHMW17-WGFD01LF-2401-DF	0	0	WG	FD	1	LF	2024-01-03 09:45 AM	2401AP16DF	FEDEX	788856368121	1/3/2024		APPL	24A0022	7	7	S4VEM	Sampled	•										
RHMW17	WL	RHMW17-WGFD01LF-2401-DF	0	0	WG	FD	1	LF	2024-01-03 09:45 AM	2401SG16DF	UNITED CARGO	016-32427010	1/3/2024	1/4/2024	SGSO	FC12382	7	7	S4VEM	Sampled		•				•		•	•	•	•
RHMW17	WL	RHMW17-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-03 09:45 AM	2401AP16DF	FEDEX	788856368121	1/3/2024		APPL	24A0022	7	7	S4VEM	Sampled	•										
RHMW17	WL	RHMW17-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-03 09:45 AM	2401AK16DF	UNITED CARGO	027-72996906	1/3/2024	1/4/2024	SGSA	1240064_EDMS	7	7	S2BVEM	Sampled					•		•				
RHMW17	WL	RHMW17-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-03 09:45 AM	2401SG16DF	UNITED CARGO	016-32427010	1/3/2024	1/4/2024	SGSO	FC12382	7	7	S4VEM	Sampled		•	•			•		•	•	•	•
RHMW17	WL	RHMW17-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-03 09:45 AM	2401SG16DF	UNITED CARGO	016-32427010	1/3/2024	1/4/2024	SGSO	FC12382B	7	7	S4VEM	Sampled				•							
RHMW18	WL	RHMW18-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-03 12:20 PM	2401AP36DF	FEDEX	788856368121	1/3/2024		APPL	24A0022	7	7	S4VEM	Sampled	•										
RHMW18	WL	RHMW18-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-03 12:20 PM	2401AK36DF	UNITED CARGO	027-72996906	1/3/2024	1/4/2024	SGSA	1240064_EDMS	7	7	S2BVEM	Sampled					•		•				
RHMW18	WL	RHMW18-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-03 12:20 PM	2401SG36DF	UNITED CARGO	016-32427010	1/3/2024	1/4/2024	SGSO	FC12382	7	7	S4VEM	Sampled		•	•			•		•	•	•	•
RHMW18	WL	RHMW18-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-03 12:20 PM	2401SG36DF	UNITED CARGO	016-32427010	1/3/2024	1/4/2024	SGSO	FC12382B	7	7	S4VEM	Sampled				•							
RHMW19	WL	RHMW19-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-04 12:25 PM	2401AP17DF	FEDEX	788906868958	1/4/2024	1/5/2024	APPL	24A0035	7	7	S2BVEM	Sampled	•										
RHMW19	WL	RHMW19-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-04 12:25 PM	2401SG17DF	UNITED CARGO	016-32427172	1/4/2024	1/5/2024	SGSO	FC12403	7	7	S2BVEM	Sampled; No SGC		•	•			•		•	•	•	•
RHMW19	WL	RHMW19-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-04 12:25 PM	2401SG17DF	UNITED CARGO	016-32427172	1/4/2024	1/5/2024	SGSO	FC12403B	7	7	S2BVEM	Sampled; No SGC				•							
RHMW20	WL	RHMW20-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-03 10:45 AM	2401AP20DF	FEDEX	788856368121	1/3/2024		APPL	24A0022	7	7	S4VEM	Sampled	•										
RHMW20	WL	RHMW20-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-03 10:45 AM	2401AK20DF	UNITED CARGO	027-72996906	1/3/2024	1/4/2024	SGSA	1240064_EDMS	7	7	S2BVEM	Sampled					•		•				
RHMW20	WL	RHMW20-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-03 10:45 AM	2401SG20DF	UNITED CARGO	016-32427010	1/3/2024	1/4/2024	SGSO	FC12382	7	7	S4VEM	Sampled		•	•			•		•	•	•	•
RHMW20	WL	RHMW20-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-03 10:45 AM	2401SG20DF	UNITED CARGO	016-32427010	1/3/2024	1/4/2024	SGSO	FC12382B	7	7	S4VEM	Sampled				•							
RHMW2254-01	WL	RHMW2254-01-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-02 12:15 PM	2401AK19DF	UNITED CARGO	027-72996825	1/2/2024	1/3/2024	SGSA	1240028_EDMS	7	7	S2BVEM	Sampled					•		•				
RHMW2254-01	WL	RHMW2254-01-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-02 12:15 PM	2401SG19DF	UNITED CARGO	016-79678922	1/2/2024	1/3/2024	SGSO	FC12338	7	7	S2BVEM	Sampled; No SGC		•				•		•	•	•	•
RHMW2254-01	WL	RHMW2254-01-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-02 12:15 PM	2401SG19DF	UNITED CARGO	016-79678922	1/2/2024	1/3/2024	SGSO	FC12338B	7	7	S2BVEM	Sampled; No SGC				•							
RHP01	WL	RHP01-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-02 09:35 AM	2401AP21DF	FEDEX	788801921991	1/2/2024	1/3/2024	APPL	24A0008	7	7	S2BVEM	Sampled	•										
RHP01	WL	RHP01-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-02 09:35 AM	2401AK21DF	UNITED CARGO	027-72996825	1/2/2024	1/3/2024	SGSA	1240028_EDMS	7	7	S2BVEM	Sampled					•		•				
RHP01	WL	RHP01-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-02 09:35 AM	2401SG21DF	UNITED CARGO	016-79678922	1/2/2024	1/3/2024	SGSO	FC12338	7	7	S2BVEM	Sampled; No SGC		•	•			•		•	•	•	•
RHP01	WL	RHP01-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-02 09:35 AM	2401SG21DF	UNITED CARGO	016-79678922	1/2/2024	1/3/2024	SGSO	FC12338B	7	7	S2BVEM	Sampled; No SGC				•							
RHP02	WL	RHP02-WGFD01LF-2401-DF	0	0	WG	FD	1	LF	2024-01-02 11:45 AM	2401AP22DF	FEDEX	788801921991	1/2/2024	1/3/2024	APPL	24A0008	7	7	S2BVEM	Sampled	•										
RHP02	WL	RHP02-WGFD01LF-2401-DF	0	0	WG	FD	1	LF	2024-01-02 11:45 AM	2401SG22DF	UNITED CARGO	016-79678922	1/2/2024	1/3/2024	SGSO	FC12338	7	7	S2BVEM	Sampled; No SGC		•				•		•	•	•	•
RHP02	WL	RHP02-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-02 11:45 AM	2401AP22DF	FEDEX	788801921991	1/2/2024	1/3/2024	APPL	24A0008	7	7	S2BVEM	Sampled	•										
RHP02	WL	RHP02-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-02 11:45 AM	2401AK22DF	UNITED CARGO	027-72996825	1/2/2024	1/3/2024	SGSA	1240028_EDMS	7	7	S2BVEM	Sampled					•		•				
RHP02	WL	RHP02-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-02 11:45 AM	2401SG22DF	UNITED CARGO	016-79678922	1/2/2024	1/3/2024	SGSO	FC12338	7	7	S2BVEM	Sampled; No SGC		•	•			•		•	•	•	•
RHP02	WL	RHP02-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-02 11:45 AM	2401SG22DF	UNITED CARGO	016-79678922	1/2/2024	1/3/2024	SGSO	FC12338B	7	7	S2BVEM	Sampled; No SGC				•							
RHP03	WL	RHP03-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-02 01:30 PM	2401AP23DF	FEDEX	788801921991	1/2/2024	1/3/2024	APPL	24A0008	7	7	S2BVEM	Sampled	•										
RHP03	WL	RHP03-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-02 01:30 PM	2401AK23DF	UNITED CARGO	027-72996825	1/2/2024	1/3/2024	SGSA	1240028_EDMS	7	7	S2BVEM	Sampled					•		•				

Event Status Report
RH Consolidated Groundwater Program
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RHP03	WL	RHP03-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-02 01:30 PM	2401SG23DF	UNITED CARGO	016-79678922	1/2/2024	1/3/2024	SGSO	FC12338	7	7	S2BVEM	Sampled; No SGC		•	•			•		•	•	•	•					
RHP03	WL	RHP03-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-02 01:30 PM	2401SG23DF	UNITED CARGO	016-79678922	1/2/2024	1/3/2024	SGSO	FC12338B	7	7	S2BVEM	Sampled; No SGC				•											
RHP04A	WL	RHP04A-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-03 11:17 AM	2401AP24DF	FEDEX	788856368121	1/3/2024		APPL	24A0022	7	7	S4VEM	Sampled	•																
RHP04A	WL	RHP04A-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-03 11:17 AM	2401AK24DF	UNITED CARGO	027-72996906	1/3/2024	1/4/2024	SGSA	1240064_EDMS	7	7	S2BVEM	Sampled					•		•								
RHP04A	WL	RHP04A-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-03 11:17 AM	2401SG24DF	UNITED CARGO	016-32427010	1/3/2024	1/4/2024	SGSO	FC12382	7	7	S4VEM	Sampled; No SGC		•	•			•		•	•	•	•					
RHP04A	WL	RHP04A-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-03 11:17 AM	2401SG24DF	UNITED CARGO	016-32427010	1/3/2024	1/4/2024	SGSO	FC12382B	7	7	S4VEM	Sampled; No SGC				•											
RHP04B	WL	RHP04B-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-03 09:12 AM	2401AP25DF	FEDEX	788856368121	1/3/2024		APPL	24A0022	7	7	S4VEM	Sampled	•																
RHP04B	WL	RHP04B-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-03 09:12 AM	2401AK25DF	UNITED CARGO	027-72996906	1/3/2024	1/4/2024	SGSA	1240064_EDMS	7	7	S2BVEM	Sampled					•		•								
RHP04B	WL	RHP04B-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-03 09:12 AM	2401SG25DF	UNITED CARGO	016-32427010	1/3/2024	1/4/2024	SGSO	FC12382	7	7	S4VEM	Sampled; No SGC		•	•			•		•	•	•	•					
RHP04B	WL	RHP04B-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-03 09:12 AM	2401SG25DF	UNITED CARGO	016-32427010	1/3/2024	1/4/2024	SGSO	FC12382B	7	7	S4VEM	Sampled; No SGC				•											
RHP04C	WL	RHP04C-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-05 11:35 AM	2401AP26DF	FEDEX	788955276010	1/5/2024	1/6/2024	APPL	24A0039	7	7	S2BVEM	Sampled	•														
RHP04C	WL	RHP04C-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-05 11:35 AM	2401SG26DF	UNITED CARGO	016-32427183	1/5/2024	1/6/2024	SGSO	FC12419	7	7	S2BVEM	Sampled; No SGC		•	•			•		•	•	•	•					
RHP04C	WL	RHP04C-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-05 11:35 AM	2401SG26DF	UNITED CARGO	016-32427183	1/5/2024	1/6/2024	SGSO	FC12419B	7	7	S2BVEM	Sampled; No SGC				•											
RHP05	WL	RHP05-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-03 01:55 PM	2401AP27DF	FEDEX	788856368121	1/3/2024		APPL	24A0022	7	7	S4VEM	Sampled	•																
RHP05	WL	RHP05-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-03 01:55 PM	2401AK27DF	UNITED CARGO	027-72996906	1/3/2024	1/4/2024	SGSA	1240064_EDMS	7	7	S2BVEM	Sampled					•		•								
RHP05	WL	RHP05-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-03 01:55 PM	2401SG27DF	UNITED CARGO	016-32427010	1/3/2024	1/4/2024	SGSO	FC12382	7	7	S4VEM	Sampled		•	•			•		•	•	•	•					
RHP05	WL	RHP05-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-03 01:55 PM	2401SG27DF	UNITED CARGO	016-32427010	1/3/2024	1/4/2024	SGSO	FC12382B	7	7	S4VEM	Sampled				•											
RHP06	WL	RHP06-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-02 03:00 PM	2401AP30DF	FEDEX	788801921991	1/2/2024	1/3/2024	APPL	24A0008	7	7	S2BVEM	Sampled	•														
RHP06	WL	RHP06-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-02 03:00 PM	2401AK30DF	UNITED CARGO	027-72996825	1/2/2024	1/3/2024	SGSA	1240028_EDMS	7	7	S2BVEM	Sampled					•		•								
RHP06	WL	RHP06-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-02 03:00 PM	2401SG30DF	UNITED CARGO	016-79678922	1/2/2024	1/3/2024	SGSO	FC12338	7	7	S2BVEM	Sampled; No SGC		•	•			•		•	•	•	•					
RHP06	WL	RHP06-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-02 03:00 PM	2401SG30DF	UNITED CARGO	016-79678922	1/2/2024	1/3/2024	SGSO	FC12338B	7	7	S2BVEM	Sampled; No SGC				•											
RHP07	WL	RHP07-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-02 11:00 AM	2401AK28DF	UNITED CARGO	027-72996825	1/2/2024	1/3/2024	SGSA	1240028_EDMS	7	7	S2BVEM	Sampled					•		•								
RHP07	WL	RHP07-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-02 11:00 AM	2401SG28DF	UNITED CARGO	016-79678922	1/2/2024	1/3/2024	SGSO	FC12338	7	7	S2BVEM	Sampled; No SGC		•	•			•		•	•	•	•					
RHP07	WL	RHP07-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-02 11:00 AM	2401SG28DF	UNITED CARGO	016-79678922	1/2/2024	1/3/2024	SGSO	FC12338B	7	7	S2BVEM	Sampled; No SGC				•											
RHP08	WL	RHP08-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-02 08:30 AM	2401AP33DF	FEDEX	788801921991	1/2/2024	1/3/2024	APPL	24A0008	7	7	S2BVEM	Sampled	•														
RHP08	WL	RHP08-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-02 08:30 AM	2401AK33DF	UNITED CARGO	027-72996825	1/2/2024	1/3/2024	SGSA	1240028_EDMS	7	7	S2BVEM	Sampled					•		•								
RHP08	WL	RHP08-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-02 08:30 AM	2401SG33DF	UNITED CARGO	016-79678922	1/2/2024	1/3/2024	SGSO	FC12338	7	7	S2BVEM	Sampled; No SGC		•	•			•		•	•	•	•					
RHP08	WL	RHP08-WGN01LF-2401-DF	0	0	WG	N	1	LF	2024-01-02 08:30 AM	2401SG33DF	UNITED CARGO	016-79678922	1/2/2024	1/3/2024	SGSO	FC12338B	7	7	S2BVEM	Sampled; No SGC				•											
																				S2BVEM Count	***13***	***25***	***19***	***23***	***22***	***25***	***22***	***25***	***25***	***25***	***19***	***6***
																				S4VEM Count	***9***	***11***	***8***	***9***	***0***	***11***	***0***	***11***	***11***	***11***	***9***	***2***
																				Site Location Count	***22***	***36***	***27***	***32***	***22***	***36***	***22***	***36***	***36***	***36***	***28***	***8***
																				Total Location Count	***24***	***40***	***30***	***36***	***22***	***40***	***22***	***40***	***40***	***40***	***30***	***10***

Note: This event has missing samples in Event Management that are Field QC ONLY. Please refer to the Unplanned Field Samples report to view these samples.

Status	Color
Status Not Determined	
Scheduled for Analysis; Awaiting Field Data	
Chain of Custody Data Loaded and Certified; Awaiting Lab Data	
Laboratory Data Loaded and Certified; Awaiting Validation	
Validation Qualifiers Finalized; Awaiting Approval	
Approval Complete; Data In Production	

Matrix Name	Matrix
Ground Water	WG

Sampling Method	Code
Grab	G
Low-Flow (Slow Purge) Groundwater Pumping	LF

Laboratory Name	Laboratory Code
Agriculture & Priority Pollutants Laboratories, Inc.	APPL
SGS North America, Inc., Anchorage, AK	SGSA
SGS North America, Inc., Orlando, FL	SGSO

Location Type	Code
Well	WL

Event Status Report
RH Consolidated Groundwater Program
RHS CGW UFP-QAPP

Event Name: Defueling 2024 January

Event ID: 2139

Site	Location	Location Type	Field Sample ID	Begin Depth	End Depth	Matrix	Sample Type	Sample No.	Samp. Method	Sampling Date	Chain of Custody	Shipping Method	Shipment Tracking Number	Laboratory Shipped Date	Laboratory Receipt Date	Lab	SDG	TAT (Days)	Validation TAT (Days)	Review Type	Sampling Status	22MEE (SW8270D)	BNA SIM SGS 18 Analytes (BNASIME)	BNA SIM SGS 3 NAPHs (BNASIME)	EDB SGS (SW8011)	Phenol SGS (SW8270)	TPH Diesel and Oil SGS (SW8015C)	TPH Diesel and Oil Silica Gel EU SGS (M8015D)	TPH Gasoline SGS (M8015V)	VOCs BTEX and 12DCA SGS (SW8260D)
Halawa Correctional Facility	RHMW11-05	WL	RHMW11-05-WGN01G-2401WK2-DF	0	0	WG	N	1	G	2024-01-10 11:50 AM	2401W2DFAP12	FEDEX	774762941459	1/10/2024	1/11/2024	APPL	24A0066	7	7	S2BVEM	Sampled	•								
	RHMW11-05	WL	RHMW11-05-WGN01G-2401WK2-DF	0	0	WG	N	1	G	2024-01-10 11:50 AM	2401W2DFSG12	UNITED CARGO	016-47159965	1/10/2024	1/11/2024	SGSO	FC12522	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
	RHMW11-05	WL	RHMW11-05-WGN01G-2401WK3-DF	0	0	WG	N	1	G	2024-01-17 03:00 PM	2401W3DFAP12	FEDEX	789410542782	1/17/2024	1/18/2024	APPL	24A0114	7	7	S2BVEM	Sampled	•								
	RHMW11-05	WL	RHMW11-05-WGN01G-2401WK3-DF	0	0	WG	N	1	G	2024-01-17 03:00 PM	2401W3DFSG12	UNITED CARGO	016-32307284	1/17/2024	1/19/2024	SGSO	FC12661	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
	RHMW14-03	WL	RHMW14-03-WGN01G-2401WK2-DF	0	0	WG	N	1	G	2024-01-10 09:05 AM	2401W2DFAP14	FEDEX	774762941459	1/10/2024	1/11/2024	APPL	24A0066	7	7	S2BVEM	Sampled	•								
	RHMW14-03	WL	RHMW14-03-WGN01G-2401WK2-DF	0	0	WG	N	1	G	2024-01-10 09:05 AM	2401W2DFSG14	UNITED CARGO	016-47159965	1/10/2024	1/11/2024	SGSO	FC12522	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
	RHMW14-03	WL	RHMW14-03-WGN01G-2401WK3-DF	0	0	WG	N	1	G	2024-01-17 10:35 AM	2401W3DFAP14	FEDEX	789410542782	1/17/2024	1/19/2024	APPL	24A0125	7	7	S2BVEM	Sampled	•								
	RHMW14-03	WL	RHMW14-03-WGN01G-2401WK3-DF	0	0	WG	N	1	G	2024-01-17 10:35 AM	2401W3DFSG14	UNITED CARGO	016-32307284	1/17/2024	1/19/2024	SGSO	FC12661	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
																					S2BVEM Count	***4***	***4***	***0***	***4***	***4***	***4***	***4***	***4***	***4***
																					Site Location Count	***4***	***4***	***0***	***4***	***4***	***4***	***4***	***4***	***4***
	RHMW01R	WL	RHMW01R-WGFD01LF-2401WK2-DF	0	0	WG	FD	1	LF	2024-01-12 09:15 AM	2401W2DFSG01	UNITED CARGO	016-46742942	1/12/2024	1/13/2024	SGSO	FC12560	7	7	S2BVEM	Sampled			•			•	•		
	RHMW01R	WL	RHMW01R-WGFD01LF-2401WK3-DF	0	0	WG	FD	1	LF	2024-01-19 09:25 AM	2401W3DFSG01	UNITED CARGO	016-32307752	1/19/2024	1/19/2024	SGSO	FC12701	7	7	S2BVEM	Sampled			•			•	•		
	RHMW01R	WL	RHMW01R-WGN01LF-2401WK2-DF	0	0	WG	N	1	LF	2024-01-12 09:15 AM	2401W2DFSG01	UNITED CARGO	016-46742942	1/12/2024	1/13/2024	SGSO	FC12560	7	7	S2BVEM	Sampled			•			•	•		
	RHMW01R	WL	RHMW01R-WGN01LF-2401WK3-DF	0	0	WG	N	1	LF	2024-01-19 09:25 AM	2401W3DFSG01	UNITED CARGO	016-32307752	1/19/2024	1/19/2024	SGSO	FC12701	7	7	S2BVEM	Sampled			•			•	•		
	RHMW02	WL	RHMW02-WGFD01LF-2401WK2-DF	0	0	WG	FD	1	LF	2024-01-12 10:30 AM	2401W2DFSG07	UNITED CARGO	016-46742942	1/12/2024	1/13/2024	SGSO	FC12560	7	7	S2BVEM	Sampled			•			•	•		
	RHMW02	WL	RHMW02-WGFD01LF-2401WK3-DF	0	0	WG	FD	1	LF	2024-01-19 10:35 AM	2401W3DFSG07	UNITED CARGO	016-32307752	1/19/2024	1/19/2024	SGSO	FC12701	7	7	S2BVEM	Sampled			•			•	•		
	RHMW02	WL	RHMW02-WGN01LF-2401WK2-DF	0	0	WG	N	1	LF	2024-01-12 10:30 AM	2401W2DFSG07	UNITED CARGO	016-46742942	1/12/2024	1/13/2024	SGSO	FC12560	7	7	S2BVEM	Sampled			•			•	•		
	RHMW02	WL	RHMW02-WGN01LF-2401WK3-DF	0	0	WG	N	1	LF	2024-01-19 10:35 AM	2401W3DFSG07	UNITED CARGO	016-32307752	1/19/2024	1/19/2024	SGSO	FC12701	7	7	S2BVEM	Sampled			•			•	•		
	RHMW03	WL	RHMW03-WGN01LF-2401WK2-DF	0	0	WG	N	1	LF	2024-01-09 09:20 AM	2401W2DFSG06	UNITED CARGO	016-47159954	1/9/2024	1/11/2024	SGSO	FC12486	7	7	S2BVEM	Sampled; No SGC			•			•	•		
	RHMW03	WL	RHMW03-WGN01LF-2401WK3-DF	0	0	WG	N	1	LF	2024-01-16 09:05 AM	2401W3DFSG06	UNITED CARGO	016-32307273	1/16/2024	1/17/2024	SGSO	FC12611	7	7	S2BVEM	Sampled; No SGC			•			•	•		
	RHMW04	WL	RHMW04-WGN01LF-2401WK2-DF	0	0	WG	N	1	LF	2024-01-08 09:01 AM	2401W2AP08DF	FEDEX	789050648710	1/8/2024	1/9/2024	APPL	24A0050	7	7	S2BVEM	Sampled	•								
	RHMW04	WL	RHMW04-WGN01LF-2401WK2-DF	0	0	WG	N	1	LF	2024-01-08 09:01 AM	2401W2SG08DF	UNITED CARGO	016-98674450	1/8/2024	1/9/2024	SGSO	FC12452	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
	RHMW04	WL	RHMW04-WGN01LF-2401WK3-DF	0	0	WG	N	1	LF	2024-01-15 09:05 AM	2401W3DFAP08	FEDEX	789311284821	1/15/2024	1/16/2024	APPL	24A0104	7	7	S2BVEM	Sampled	•								
	RHMW04	WL	RHMW04-WGN01LF-2401WK3-DF	0	0	WG	N	1	LF	2024-01-15 09:05 AM	2401W3DFSG08	UNITED CARGO	016-32307240	1/15/2024	1/16/2024	SGSO	FC12594	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
	RHMW05	WL	RHMW05-WGN01LF-2401WK2-DF	0	0	WG	N	1	LF	2024-01-09 09:25 AM	2401W2DFSG05	UNITED CARGO	016-47159954	1/9/2024	1/11/2024	SGSO	FC12486	7	7	S2BVEM	Sampled; No SGC			•			•	•		
	RHMW05	WL	RHMW05-WGN01LF-2401WK3-DF	0	0	WG	N	1	LF	2024-01-16 10:15 AM	2401W3DFSG05	UNITED CARGO	016-32307273	1/16/2024	1/17/2024	SGSO	FC12611	7	7	S2BVEM	Sampled; No SGC			•			•	•		
	RHMW06	WL	RHMW06-WGN01LF-2401WK2-DF	0	0	WG	N	1	LF	2024-01-08 10:35 AM	2401W2AP09DF	FEDEX	789050648710	1/8/2024	1/9/2024	APPL	24A0050	7	7	S2BVEM	Sampled	•								
	RHMW06	WL	RHMW06-WGN01LF-2401WK2-DF	0	0	WG	N	1	LF	2024-01-08 10:35 AM	2401W2SG09DF	UNITED CARGO	016-98674450	1/8/2024	1/9/2024	SGSO	FC12452	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
	RHMW06	WL	RHMW06-WGN01LF-2401WK3-DF	0	0	WG	N	1	LF	2024-01-15 10:40 AM	2401W3DFAP09	FEDEX	789311284821	1/15/2024	1/16/2024	APPL	24A0104	7	7	S2BVEM	Sampled	•								
	RHMW06	WL	RHMW06-WGN01LF-2401WK3-DF	0	0	WG	N	1	LF	2024-01-15 10:40 AM	2401W3DFSG09	UNITED CARGO	016-32307240	1/15/2024	1/16/2024	SGSO	FC12594	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
	RHMW08	WL	RHMW08-WGN01LF-2401WK2-DF	0	0	WG	N	1	LF	2024-01-08 09:08 AM	2401W2SG04DF	UNITED CARGO	016-98674450	1/8/2024	1/9/2024	SGSO	FC12452	7	7	S2BVEM	Sampled; No SGC			•			•	•		
	RHMW08	WL	RHMW08-WGN01LF-2401WK3-DF	0	0	WG	N	1	LF	2024-01-15 10:20 AM	2401W3DFSG04	UNITED CARGO	016-32307240	1/15/2024	1/16/2024	SGSO	FC12594	7	7	S2BVEM	Sampled; No SGC			•			•	•		
	RHMW09	WL	RHMW09-WGN01LF-2401WK2-DF	0	0	WG	N	1	LF	2024-01-09 08:55 AM	2401W2DFAP10	FEDEX	789101568860	1/9/2024	1/10/2024	APPL	24A0057	7	7	S2BVEM	Sampled	•								
	RHMW09	WL	RHMW09-WGN01LF-2401WK2-DF	0	0	WG	N	1	LF	2024-01-09 08:55 AM	2401W2DFSG10	UNITED CARGO	016-47159954	1/9/2024	1/11/2024	SGSO	FC12486	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
	RHMW09	WL	RHMW09-WGN01LF-2401WK3-DF	0	0	WG	N	1	LF	2024-01-16 08:40 AM	2401W3DFAP10	FEDEX	789361464006	1/16/2024	1/17/2024	APPL	24A0108	7	7	S2BVEM	Sampled	•								

Event Status Report
RH Consolidated Groundwater Program
RHS CGW UFP-QAPP

Red Hill Bulk Fuel Storage Facility

RHMW09	WL	RHMW09-WGN01LF-2401WK3-DF	0	0	WG	N	1	LF	2024-01-16 08:40 AM	2401W3DFSG10	UNITED CARGO	016-32307273	1/16/2024	1/17/2024	SGSO	FC12611	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHMW10	WL	RHMW10-WGN01LF-2401WK2-DF	0	0	WG	N	1	LF	2024-01-10 11:35 AM	2401W2DFAP11	FEDEX	774762941459	1/10/2024	1/11/2024	APPL	24A0066	7	7	S2BVEM	Sampled	•								
RHMW10	WL	RHMW10-WGN01LF-2401WK2-DF	0	0	WG	N	1	LF	2024-01-10 11:35 AM	2401W2DFSG11	UNITED CARGO	016-47159965	1/10/2024	1/11/2024	SGSO	FC12522	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHMW10	WL	RHMW10-WGN01LF-2401WK3-DF	0	0	WG	N	1	LF	2024-01-17 12:45 PM	2401W3DFAP11	FEDEX	789410542782	1/17/2024	1/19/2024	APPL	24A0125	7	7	S2BVEM	Sampled	•								
RHMW10	WL	RHMW10-WGN01LF-2401WK3-DF	0	0	WG	N	1	LF	2024-01-17 12:45 PM	2401W3DFSG11	UNITED CARGO	016-32307284	1/17/2024	1/19/2024	SGSO	FC12661	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHMW13-04	WL	RHMW13-04-WGN01G-2401WK2-DF	0	0	WG	N	1	G	2024-01-09 09:30 AM	2401W2DFAP13	FEDEX	789101568860	1/9/2024	1/10/2024	APPL	24A0057	7	7	S2BVEM	Sampled	•								
RHMW13-04	WL	RHMW13-04-WGN01G-2401WK2-DF	0	0	WG	N	1	G	2024-01-09 09:30 AM	2401W2DFSG13	UNITED CARGO	016-47159954	1/9/2024	1/11/2024	SGSO	FC12486	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHMW13-04	WL	RHMW13-04-WGN01G-2401WK3-DF	0	0	WG	N	1	G	2024-01-16 10:00 AM	2401W3DFAP13	FEDEX	789361464006	1/16/2024	1/17/2024	APPL	24A0108	7	7	S2BVEM	Sampled	•								
RHMW13-04	WL	RHMW13-04-WGN01G-2401WK3-DF	0	0	WG	N	1	G	2024-01-16 10:00 AM	2401W3DFSG13	UNITED CARGO	016-32307273	1/16/2024	1/17/2024	SGSO	FC12611	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHMW15-05	WL	RHMW15-05-WGN01G-2401WK2-DF	0	0	WG	N	1	G	2024-01-08 09:00 AM	2401W2AP15DF	FEDEX	789050648710	1/8/2024	1/9/2024	APPL	24A0050	7	7	S2BVEM	Sampled	•								
RHMW15-05	WL	RHMW15-05-WGN01G-2401WK2-DF	0	0	WG	N	1	G	2024-01-08 09:00 AM	2401W2SG15DF	UNITED CARGO	016-98674450	1/8/2024	1/9/2024	SGSO	FC12452	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHMW15-05	WL	RHMW15-05-WGN01G-2401WK3-DF	0	0	WG	N	1	G	2024-01-15 09:30 AM	2401W3DFAP15	FEDEX	789311284821	1/15/2024	1/16/2024	APPL	24A0104	7	7	S2BVEM	Sampled	•								
RHMW15-05	WL	RHMW15-05-WGN01G-2401WK3-DF	0	0	WG	N	1	G	2024-01-15 09:30 AM	2401W3DFSG15	UNITED CARGO	016-32307240	1/15/2024	1/16/2024	SGSO	FC12594	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHMW16	WL	RHMW16-WGN01LF-2401WK2-DF	0	0	WG	N	1	LF	2024-01-08 12:25 PM	2401W2AP16DF	FEDEX	789050648710	1/8/2024	1/9/2024	APPL	24A0050	7	7	S2BVEM	Sampled	•								
RHMW16	WL	RHMW16-WGN01LF-2401WK2-DF	0	0	WG	N	1	LF	2024-01-08 12:25 PM	2401W2SG16DF	UNITED CARGO	016-98674450	1/8/2024	1/9/2024	SGSO	FC12452	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHMW16	WL	RHMW16-WGN01LF-2401WK3-DF	0	0	WG	N	1	LF	2024-01-15 12:30 PM	2401W3DFAP16	FEDEX	789311284821	1/15/2024	1/16/2024	APPL	24A0104	7	7	S2BVEM	Sampled	•								
RHMW16	WL	RHMW16-WGN01LF-2401WK3-DF	0	0	WG	N	1	LF	2024-01-15 12:30 PM	2401W3DFSG16	UNITED CARGO	016-32307240	1/15/2024	1/16/2024	SGSO	FC12594	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHMW17	WL	RHMW17-WGFD01LF-2401WK2-DF	0	0	WG	FD	1	LF	2024-01-09 12:35 PM	2401W2DFAP17	FEDEX	789101568860	1/9/2024	1/10/2024	APPL	24A0057	7	7	S2BVEM	Sampled	•								
RHMW17	WL	RHMW17-WGFD01LF-2401WK2-DF	0	0	WG	FD	1	LF	2024-01-09 12:35 PM	2401W2DFSG17	UNITED CARGO	016-47159954	1/9/2024	1/11/2024	SGSO	FC12486	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHMW17	WL	RHMW17-WGFD01LF-2401WK3-DF	0	0	WG	FD	1	LF	2024-01-16 10:50 AM	2401W3DFAP17	FEDEX	789361464006	1/16/2024	1/17/2024	APPL	24A0108	7	7	S2BVEM	Sampled	•								
RHMW17	WL	RHMW17-WGFD01LF-2401WK3-DF	0	0	WG	FD	1	LF	2024-01-16 10:50 AM	2401W3DFSG17	UNITED CARGO	016-32307273	1/16/2024	1/17/2024	SGSO	FC12611	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHMW17	WL	RHMW17-WGN01LF-2401WK2-DF	0	0	WG	N	1	LF	2024-01-09 12:35 PM	2401W2DFAP17	FEDEX	789101568860	1/9/2024	1/10/2024	APPL	24A0057	7	7	S2BVEM	Sampled	•								
RHMW17	WL	RHMW17-WGN01LF-2401WK2-DF	0	0	WG	N	1	LF	2024-01-09 12:35 PM	2401W2DFSG17	UNITED CARGO	016-47159954	1/9/2024	1/11/2024	SGSO	FC12486	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHMW17	WL	RHMW17-WGN01LF-2401WK3-DF	0	0	WG	N	1	LF	2024-01-16 10:50 AM	2401W3DFAP17	FEDEX	789361464006	1/16/2024	1/17/2024	APPL	24A0108	7	7	S2BVEM	Sampled	•								
RHMW17	WL	RHMW17-WGN01LF-2401WK3-DF	0	0	WG	N	1	LF	2024-01-16 10:50 AM	2401W3DFSG17	UNITED CARGO	016-32307273	1/16/2024	1/17/2024	SGSO	FC12611	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHMW18	WL	RHMW18-WGN01LF-2401WK2-DF	0	0	WG	N	1	LF	2024-01-10 09:50 AM	2401W2DFAP29	FEDEX	774762941459	1/10/2024	1/11/2024	APPL	24A0066	7	7	S2BVEM	Sampled	•								
RHMW18	WL	RHMW18-WGN01LF-2401WK2-DF	0	0	WG	N	1	LF	2024-01-10 09:50 AM	2401W2DFSG29	UNITED CARGO	016-47159965	1/10/2024	1/11/2024	SGSO	FC12522	7	7	S2BVEM	Sampled		•		•	•	•	•	•	•
RHMW18	WL	RHMW18-WGN01LF-2401WK3-DF	0	0	WG	N	1	LF	2024-01-17 10:35 AM	2401W3DFAP29	FEDEX	789410542782	1/17/2024	1/19/2024	APPL	24A0125	7	7	S2BVEM	Sampled	•								
RHMW18	WL	RHMW18-WGN01LF-2401WK3-DF	0	0	WG	N	1	LF	2024-01-17 10:35 AM	2401W3DFSG29	UNITED CARGO	016-32307284	1/17/2024	1/19/2024	SGSO	FC12661	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHMW19	WL	RHMW19-WGN01LF-2401WK2-DF	0	0	WG	N	1	LF	2024-01-09 11:00 AM	2401W2DFAP18	FEDEX	789101568860	1/9/2024	1/10/2024	APPL	24A0057	7	7	S2BVEM	Sampled	•								
RHMW19	WL	RHMW19-WGN01LF-2401WK2-DF	0	0	WG	N	1	LF	2024-01-09 11:00 AM	2401W2DFSG18	UNITED CARGO	016-47159954	1/9/2024	1/11/2024	SGSO	FC12486	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHMW19	WL	RHMW19-WGN01LF-2401WK3-DF	0	0	WG	N	1	LF	2024-01-16 10:25 AM	2401W3DFAP18	FEDEX	789361464006	1/16/2024	1/17/2024	APPL	24A0108	7	7	S2BVEM	Sampled	•								
RHMW19	WL	RHMW19-WGN01LF-2401WK3-DF	0	0	WG	N	1	LF	2024-01-16 10:25 AM	2401W3DFSG18	UNITED CARGO	016-32307273	1/16/2024	1/17/2024	SGSO	FC12611	7	7	S2BVEM	Sampled		•		•	•	•	•	•	•
RHMW20	WL	RHMW20-WGN01LF-2401WK2-DF	0	0	WG	N	1	LF	2024-01-10 11:13 AM	2401W2DFAP19	FEDEX	774762941459	1/10/2024	1/11/2024	APPL	24A0066	7	7	S2BVEM	Sampled	•								
RHMW20	WL	RHMW20-WGN01LF-2401WK2-DF	0	0	WG	N	1	LF	2024-01-10 11:13 AM	2401W2DFSG19	UNITED CARGO	016-47159965	1/10/2024	1/11/2024	SGSO	FC12522	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHMW20	WL	RHMW20-WGN01LF-2401WK3-DF	0	0	WG	N	1	LF	2024-01-17 09:55 AM	2401W3DFAP19	FEDEX	789410542782	1/17/2024	1/19/2024	APPL	24A0125	7	7	S2BVEM	Sampled	•								
RHMW20	WL	RHMW20-WGN01LF-2401WK3-DF	0	0	WG	N	1	LF	2024-01-17 09:55 AM	2401W3DFSG19	UNITED CARGO	016-32307284	1/17/2024	1/19/2024	SGSO	FC12661	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHMW2254-01	WL	RHMW2254-01-WGN01LF-2401WK2-DF	0	0	WG	N	1	LF	2024-01-09 10:55 AM	2401W2DFSG03	UNITED CARGO	016-47159954	1/9/2024	1/11/2024	SGSO	FC12486	7	7	S2BVEM	Sampled; No SGC			•			•	•		
RHMW2254-01	WL	RHMW2254-01-WGN01LF-2401WK3-DF	0	0	WG	N	1	LF	2024-01-16 12:45 PM	2401W3DFSG03	UNITED CARGO	016-32307273	1/16/2024	1/17/2024	SGSO	FC12611	7	7	S2BVEM	Sampled; No SGC			•			•	•		
RHP01	WL	RHP01-WGN01LF-2401WK2-DF	0	0	WG	N	1	LF	2024-01-08 11:25 AM	2401W2AP20DF	FEDEX	789050648710	1/8/2024	1/9/2024	APPL	24A0050	7	7	S2BVEM	Sampled	•								
RHP01	WL	RHP01-WGN01LF-2401WK2-DF	0	0	WG	N	1	LF	2024-01-08 11:25 AM	2401W2SG20DF	UNITED CARGO	016-98674450	1/8/2024	1/9/2024	SGSO	FC12452	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHP01	WL	RHP01-WGN01LF-2401WK3-DF	0	0	WG	N	1	LF	2024-01-15 08:40 AM	2401W3DFAP20	FEDEX	789311284821	1/15/2024	1/16/2024	APPL	24A0104	7	7	S2BVEM	Sampled	•								
RHP01	WL	RHP01-WGN01LF-2401WK3-DF	0	0	WG	N	1	LF	2024-01-15 08:40 AM	2401W3DFSG20	UNITED CARGO	016-32307240	1/15/2024	1/16/2024	SGSO	FC12594	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHP02	WL	RHP02-WGFD01LF-2401WK2-DF	0	0	WG	FD	1	LF	2024-01-08 10:20 AM	2401W2AP21DF	FEDEX	789050648710	1/8/2024	1/9/2024	APPL	24A0050	7	7	S2BVEM	Sampled	•								
RHP02	WL	RHP02-WGFD01LF-2401WK2-DF	0	0	WG	FD	1	LF	2024-01-08 10:20 AM	2401W2SG21DF	UNITED CARGO	016-98674450	1/8/2024	1/9/2024	SGSO	FC12452	7	7	S2BVEM	Sampled; No SGC		•			•	•	•	•	•
RHP02	WL	RHP02-WGFD01LF-2401WK3-DF	0	0	WG	FD	1	LF	2024-01-15 10:30 AM	2401W3DFAP21	FEDEX	789311284821	1/15/2024	1/16/2024	APPL	24A0104	7	7	S2BVEM	Sampled	•								
RHP02	WL	RHP02-WGFD01LF-2401WK3-DF	0	0	WG	FD	1	LF	2024-01-15 10:30 AM	2401W3DFSG21	UNITED CARGO	016-32307240	1/15/2024	1/16/2024	SGSO	FC12594	7	7	S2BVEM	Sampled; No SGC		•			•	•	•	•	•
RHP02	WL	RHP02-WGN01LF-2401WK2-DF	0	0	WG	N	1	LF	2024-01-08 10:20 AM	2401W2AP21DF	FEDEX	789050648710	1/8/2024	1/9/2024	APPL	24A0050	7	7	S2BVEM	Sampled	•								

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RH Consolidated Groundwater Program
RHS CGW UFP-QAPP

RHP02	WL	RHP02-WGN01LF-2401WK2-DF	0	0	WG	N	1	LF	2024-01-08 10:20 AM	2401W2SG21DF	UNITED CARGO	016-98674450	1/8/2024	1/9/2024	SGSO	FC12452	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHP02	WL	RHP02-WGN01LF-2401WK3-DF	0	0	WG	N	1	LF	2024-01-15 10:30 AM	2401W3DFAP21	FEDEX	789311284821	1/15/2024	1/16/2024	APPL	24A0104	7	7	S2BVEM	Sampled	•								
RHP02	WL	RHP02-WGN01LF-2401WK3-DF	0	0	WG	N	1	LF	2024-01-15 10:30 AM	2401W3DFSG21	UNITED CARGO	016-32307240	1/15/2024	1/16/2024	SGSO	FC12594	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHP03	WL	RHP03-WGN01LF-2401WK2-DF	0	0	WG	N	1	LF	2024-01-08 01:10 PM	2401W2AP22DF	FEDEX	789050648710	1/8/2024	1/9/2024	APPL	24A0050	7	7	S2BVEM	Sampled	•								
RHP03	WL	RHP03-WGN01LF-2401WK2-DF	0	0	WG	N	1	LF	2024-01-08 01:10 PM	2401W2SG22DF	UNITED CARGO	016-98674450	1/8/2024	1/9/2024	SGSO	FC12452	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHP03	WL	RHP03-WGN01LF-2401WK3-DF	0	0	WG	N	1	LF	2024-01-15 01:40 PM	2401W3DFAP22	FEDEX	789311284821	1/15/2024	1/16/2024	APPL	24A0104	7	7	S2BVEM	Sampled	•								
RHP03	WL	RHP03-WGN01LF-2401WK3-DF	0	0	WG	N	1	LF	2024-01-15 01:40 PM	2401W3DFSG22	UNITED CARGO	016-32307240	1/15/2024	1/16/2024	SGSO	FC12594	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHP04A	WL	RHP04A-WGN01LF-2401WK2-DF	0	0	WG	N	1	LF	2024-01-09 09:10 AM	2401W2DFAP23	FEDEX	789101568860	1/9/2024	1/10/2024	APPL	24A0057	7	7	S2BVEM	Sampled	•								
RHP04A	WL	RHP04A-WGN01LF-2401WK2-DF	0	0	WG	N	1	LF	2024-01-09 09:10 AM	2401W2DFSG23	UNITED CARGO	016-47159954	1/9/2024	1/11/2024	SGSO	FC12486	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHP04A	WL	RHP04A-WGN01LF-2401WK3-DF	0	0	WG	N	1	LF	2024-01-16 12:10 PM	2401W3DFAP23	FEDEX	789361464006	1/16/2024	1/17/2024	APPL	24A0108	7	7	S2BVEM	Sampled	•								
RHP04A	WL	RHP04A-WGN01LF-2401WK3-DF	0	0	WG	N	1	LF	2024-01-16 12:10 PM	2401W3DFSG23	UNITED CARGO	016-32307273	1/16/2024	1/17/2024	SGSO	FC12611	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHP04B	WL	RHP04B-WGN01LF-2401WK2-DF	0	0	WG	N	1	LF	2024-01-09 11:00 AM	2401W2DFAP24	FEDEX	789101568860	1/9/2024	1/10/2024	APPL	24A0057	7	7	S2BVEM	Sampled	•								
RHP04B	WL	RHP04B-WGN01LF-2401WK2-DF	0	0	WG	N	1	LF	2024-01-09 11:00 AM	2401W2DFSG24	UNITED CARGO	016-47159954	1/9/2024	1/11/2024	SGSO	FC12486	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHP04B	WL	RHP04B-WGN01LF-2401WK3-DF	0	0	WG	N	1	LF	2024-01-16 09:15 AM	2401W3DFAP24	FEDEX	789361464006	1/16/2024	1/17/2024	APPL	24A0108	7	7	S2BVEM	Sampled	•								
RHP04B	WL	RHP04B-WGN01LF-2401WK3-DF	0	0	WG	N	1	LF	2024-01-16 09:15 AM	2401W3DFSG24	UNITED CARGO	016-32307273	1/16/2024	1/17/2024	SGSO	FC12611	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHP04C	WL	RHP04C-WGN01LF-2401WK2-DF	0	0	WG	N	1	LF	2024-01-10 09:30 AM	2401W2DFAP25	FEDEX	774762941459	1/10/2024	1/11/2024	APPL	24A0066	7	7	S2BVEM	Sampled	•								
RHP04C	WL	RHP04C-WGN01LF-2401WK2-DF	0	0	WG	N	1	LF	2024-01-10 09:30 AM	2401W2DFSG25	UNITED CARGO	016-47159965	1/10/2024	1/11/2024	SGSO	FC12522	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHP04C	WL	RHP04C-WGN01LF-2401WK3-DF	0	0	WG	N	1	LF	2024-01-17 08:45 AM	2401W3DFAP25	FEDEX	789410542782	1/17/2024	1/19/2024	APPL	24A0125	7	7	S2BVEM	Sampled	•								
RHP04C	WL	RHP04C-WGN01LF-2401WK3-DF	0	0	WG	N	1	LF	2024-01-17 08:45 AM	2401W3DFSG25	UNITED CARGO	016-32307284	1/17/2024	1/19/2024	SGSO	FC12661	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHP05	WL	RHP05-WGN01LF-2401WK2-DF	0	0	WG	N	1	LF	2024-01-10 09:10 AM	2401W2DFAP26	FEDEX	774762941459	1/10/2024	1/11/2024	APPL	24A0066	7	7	S2BVEM	Sampled	•								
RHP05	WL	RHP05-WGN01LF-2401WK2-DF	0	0	WG	N	1	LF	2024-01-10 09:10 AM	2401W2DFSG26	UNITED CARGO	016-47159965	1/10/2024	1/11/2024	SGSO	FC12522	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHP05	WL	RHP05-WGN01LF-2401WK3-DF	0	0	WG	N	1	LF	2024-01-17 11:00 AM	2401W3DFAP26	FEDEX	789410542782	1/17/2024	1/19/2024	APPL	24A0125	7	7	S2BVEM	Sampled	•								
RHP05	WL	RHP05-WGN01LF-2401WK3-DF	0	0	WG	N	1	LF	2024-01-17 11:00 AM	2401W3DFSG26	UNITED CARGO	016-32307284	1/17/2024	1/19/2024	SGSO	FC12661	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHP06	WL	RHP06-WGN01LF-2401WK2-DF	0	0	WG	N	1	LF	2024-01-08 11:05 AM	2401W2AP27DF	FEDEX	789050648710	1/8/2024	1/9/2024	APPL	24A0050	7	7	S2BVEM	Sampled	•								
RHP06	WL	RHP06-WGN01LF-2401WK2-DF	0	0	WG	N	1	LF	2024-01-08 11:05 AM	2401W2SG27DF	UNITED CARGO	016-98674450	1/8/2024	1/9/2024	SGSO	FC12452	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHP06	WL	RHP06-WGN01LF-2401WK3-DF	0	0	WG	N	1	LF	2024-01-17 08:55 AM	2401W3DFAP27	FEDEX	789410542782	1/17/2024	1/19/2024	APPL	24A0125	7	7	S2BVEM	Sampled	•								
RHP06	WL	RHP06-WGN01LF-2401WK3-DF	0	0	WG	N	1	LF	2024-01-17 08:55 AM	2401W3DFSG27	UNITED CARGO	016-32307284	1/17/2024	1/19/2024	SGSO	FC12661	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHP07	WL	RHP07-WGN01LF-2401WK2-DF	0	0	WG	N	1	LF	2024-01-09 10:15 AM	2401W2DFSG02	UNITED CARGO	016-47159954	1/9/2024	1/11/2024	SGSO	FC12486	7	7	S2BVEM	Sampled; No SGC			•			•	•		
RHP07	WL	RHP07-WGN01LF-2401WK3-DF	0	0	WG	N	1	LF	2024-01-16 09:10 AM	2401W3DFSG02	UNITED CARGO	016-32307273	1/16/2024	1/17/2024	SGSO	FC12611	7	7	S2BVEM	Sampled; No SGC			•			•	•		
RHP08	WL	RHP08-WGN01LF-2401WK2-DF	0	0	WG	N	1	LF	2024-01-10 11:10 AM	2401W2DFAP28	FEDEX	774762941459	1/10/2024	1/11/2024	APPL	24A0066	7	7	S2BVEM	Sampled	•								
RHP08	WL	RHP08-WGN01LF-2401WK2-DF	0	0	WG	N	1	LF	2024-01-10 11:10 AM	2401W2DFSG28	UNITED CARGO	016-47159965	1/10/2024	1/11/2024	SGSO	FC12522	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
RHP08	WL	RHP08-WGN01LF-2401WK3-DF	0	0	WG	N	1	LF	2024-01-15 08:35 AM	2401W3DFAP28	FEDEX	789311284821	1/15/2024	1/16/2024	APPL	24A0104	7	7	S2BVEM	Sampled	•								
RHP08	WL	RHP08-WGN01LF-2401WK3-DF	0	0	WG	N	1	LF	2024-01-15 08:35 AM	2401W3DFSG28	UNITED CARGO	016-32307240	1/15/2024	1/16/2024	SGSO	FC12594	7	7	S2BVEM	Sampled; No SGC		•		•	•	•	•	•	•
																				S2BVEM Count	***44***	***44***	***18***	***40***	***44***	***62***	***62***	***44***	***44***
																				Site Location Count	***44***	***44***	***18***	***40***	***44***	***62***	***62***	***44***	***44***
																				Total Location Count	***48***	***48***	***18***	***44***	***48***	***66***	***66***	***48***	***48***

Note: This event has missing samples in Event Management that are Field QC ONLY. Please refer to the Unplanned Field Samples report to view these samples.

Status	Color
Status Not Determined	
Scheduled for Analysis; Awaiting Field Data	
Chain of Custody Data Loaded and Certified; Awaiting Lab Data	
Laboratory Data Loaded and Certified; Awaiting Validation	
Validation Qualifiers Finalized; Awaiting Approval	
Approval Complete; Data In Production	

Matrix Name	Matrix
Ground Water	WG

Sampling Method	Code
Grab	G
Low-Flow (Slow Purge) Groundwater Pumping	LF

Laboratory Name	Laboratory Code
Agriculture & Priority Pollutants Laboratories, Inc.	APPL
SGS North America, Inc., Orlando, FL	SGSO

Location Type	Code
Well	WL

Appendix B.2 – Monitoring Well Measurements

Appendix B.2.1 – Free Product Gauging, Monitoring Well Headspace Measurements, and General Chemistry Parameters

Red Hill Bulk Fuel Storage Facility

	HDMW2253-03 Headspace and Product Gauging						HDMW2253-03 Parameter Readings							
WEEK	**DATE**	**AMBIENT**	**HEADSPACE**	**Raw DTW**	**PRODUCT?**	**THICKNESS**	**TDS**	**pH**	**Sp. Cond.**	**D.O.**	**Turbidity**	**TEMP**	**ORP**	**SAL**
		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)	(ppm)		(mS/cm)	(mg/L)	(NTU)	(°C)	(mV)	(psu)
10/02/2023	10/03/2023	0.0	0.0	208.37	No	-	284.18	6.43	0.44	0.42	12.35	23.76	71.7	0.21
11/06/2023	11/07/2023	0.0	0.0	208.51	No	-	279.25	6.51	0.43	0.41	21.41	23.65	99.2	0.21
12/04/2023	12/08/2023	0.0	0.0	208.33	No	-	280.55	6.47	0.43	0.68	12.61	23.28	105.6	0.21
12/11/2023	12/15/2023	0.1	0.5	208.33	No	-	288.02	6.50	0.44	0.48	12.12	23.35	83.2	0.22
01/01/2024	01/05/2024	0.0	0.0	208.29	No	-	308.97	6.48	0.48	0.48	16.09	23.10	51.5	0.23
	NMW24 Headspace and Product Gauging						**NMW24 Parameter Readings**							
WEEK	**DATE**	**AMBIENT**	**HEADSPACE**	**Raw DTW**	**PRODUCT?**	**THICKNESS**	**TDS**	**pH**	**Sp. Cond.**	**D.O.**	**Turbidity**	**TEMP**	**ORP**	**SAL**
		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)	(ppm)		(mS/cm)	(mg/L)	(NTU)	(°C)	(mV)	(psu)
10/02/2023	10/02/2023	0.0	0.4	91.06	No	-	380.96	7.14	0.59	5.92	0.67	25.86	248.1	0.29
10/09/2023	10/13/2023	0.1	0.2	91.13	No	-	364.30	7.12	0.56	6.08	0.04	26.02	256.7	0.27
11/06/2023	11/09/2023	0.0	0.0	91.17	No	-	365.40	7.10	0.56	6.06	0.13	25.76	234.1	0.27
12/04/2023	12/08/2023	0.0	0.0	90.97	No	-	345.70	7.20	0.53	6.12	0.61	25.44	213.5	0.26
01/01/2024	01/04/2024	0.0	0.0	90.93	No	-	388.90	7.30	0.60	6.00	0.06	25.42	161.4	0.29
	NMW25 Headspace and Product Gauging						**NMW25 Parameter Readings**							
WEEK	**DATE**	**AMBIENT**	**HEADSPACE**	**Raw DTW**	**PRODUCT?**	**THICKNESS**	**TDS**	**pH**	**Sp. Cond.**	**D.O.**	**Turbidity**	**TEMP**	**ORP**	**SAL**
		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)	(ppm)		(mS/cm)	(mg/L)	(NTU)	(°C)	(mV)	(psu)
10/02/2023	10/02/2023	0.0	0.6	190.89	No	-	924.46	7.10	1.42	7.89	0.36	27.13	282.0	0.72
10/09/2023	10/13/2023	0.2	0.7	190.94	No	-	918.04	7.06	1.41	7.90	0.12	27.39	285.4	0.72
11/06/2023	11/09/2023	0.0	1.4	190.99	No	-	911.22	7.12	1.40	7.90	0.38	27.51	256.6	0.71
12/04/2023	12/07/2023	0.0	0.5	190.85	No	-	909.41	7.09	1.40	7.90	0.63	26.71	224.2	0.71
01/01/2024	01/04/2024	0.0	0.0	190.73	No	-	957.49	7.06	1.50	7.80	0.27	26.90	227.6	0.80
	NMW26 Headspace and Product Gauging						**NMW26 Parameter Readings**							
WEEK	**DATE**	**AMBIENT**	**HEADSPACE**	**Raw DTW**	**PRODUCT?**	**THICKNESS**	**TDS**	**pH**	**Sp. Cond.**	**D.O.**	**Turbidity**	**TEMP**	**ORP**	**SAL**
		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)	(ppm)		(mS/cm)	(mg/L)	(NTU)	(°C)	(mV)	(psu)
01/29/2024	02/02/2024	0.0	0.0	-	No	-	257.28	7.70	0.40	0.46	8.51	27.73	198.7	0.19
	NMW30 Headspace and Product Gauging						**NMW30 Parameter Readings**							
WEEK	**DATE**	**AMBIENT**	**HEADSPACE**	**Raw DTW**	**PRODUCT?**	**THICKNESS**	**TDS**	**pH**	**Sp. Cond.**	**D.O.**	**Turbidity**	**TEMP**	**ORP**	**SAL**
		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)	(ppm)		(mS/cm)	(mg/L)	(NTU)	(°C)	(mV)	(psu)
10/16/2023	10/19/2023	0.0	0.0	291.65	No	-	457.81	7.51	0.70	0.30	1.42	27.40	-8.5	0.35
11/06/2023	11/09/2023	0.0	0.0	291.71	No	-	436.77	7.50	0.70	0.20	3.09	26.54	-161.4	0.33
12/04/2023	12/07/2023	0.0	10.0	291.54	No	-	425.62	7.47	0.70	0.30	3.59	25.66	-55.9	0.32

01/01/2024	01/04/2024	0.0	0.1	291.45	No	-	1048.99	7.52	1.61	0.32	0.80	25.30	-18.8	0.82

	NMW32 Headspace and Product Gauging						NMW32 Parameter Readings							
WEEK	**DATE**	**AMBIENT**	**HEADSPACE**	**Raw DTW**	**PRODUCT?**	**THICKNESS**	**TDS**	**pH**	**Sp. Cond.**	**D.O.**	**Turbidity**	**TEMP**	**ORP**	**SAL**
		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)	(ppm)		(mS/cm)	(mg/L)	(NTU)	(°C)	(mV)	(psu)
10/02/2023	10/03/2023	0.0	0.0	170.79	No	-	709.74	7.28	1.09	5.96	0.12	26.51	199.8	0.55
10/09/2023	10/10/2023	0.0	0.0	170.88	No	-	712.12	7.28	1.10	5.92	0.53	27.28	277.3	0.55
11/06/2023	11/10/2023	0.0	0.0	170.9	No	-	787.93	7.32	1.20	6.20	0.00	26.51	282.2	0.61
12/04/2023	12/08/2023	0.1	0.0	170.77	No	-	692.42	7.34	1.10	6.20	0.86	26.55	248.8	0.53
01/01/2024	01/04/2024	0.0	0.0	170.66	No	-	1735.80	7.30	2.67	5.93	0.01	26.06	243.7	1.40

	NMW33 Headspace and Product Gauging						NMW33 Parameter Readings							
WEEK	**DATE**	**AMBIENT**	**HEADSPACE**	**Raw DTW**	**PRODUCT?**	**THICKNESS**	**TDS**	**pH**	**Sp. Cond.**	**D.O.**	**Turbidity**	**TEMP**	**ORP**	**SAL**
		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)	(ppm)		(mS/cm)	(mg/L)	(NTU)	(°C)	(mV)	(psu)
10/02/2023	10/03/2023	0.0	0.0	118.92	No	-	924.43	7.57	1.42	7.44	0.28	27.83	210.5	0.72
10/09/2023	10/09/2023	0.0	0.0	119	No	-	941.65	7.49	1.45	7.28	0.07	26.05	229.5	0.74
11/06/2023	11/10/2023	0.0	0.0	117.32	No	-	1040.24	7.51	1.60	7.30	0.00	26.77	257.6	0.82
12/04/2023	12/08/2023	0.0	0.0	117.41	No	-	930.00	7.66	1.40	6.80	1.25	26.16	241.3	0.73
01/01/2024	01/05/2024	0.0	0.1	117.57	No	-	943.84	7.62	1.50	6.70	0.44	25.68	252.9	0.74

	RHMW01R Headspace and Product Gauging						RHMW01R Parameter Readings							
WEEK	**DATE**	**AMBIENT**	**HEADSPACE**	**Raw DTW**	**PRODUCT?**	**THICKNESS**	**TDS**	**pH**	**Sp. Cond.**	**D.O.**	**Turbidity**	**TEMP**	**ORP**	**SAL**
		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)	(ppm)		(mS/cm)	(mg/L)	(NTU)	(°C)	(mV)	(psu)
10/02/2023	10/04/2023	0.0	0.0	83.28	No	-	204.25	6.98	0.31	0.49	0.00	23.42	-56.3	0.15
10/09/2023	10/12/2023	0.0	0.7	84.33	No	-	210.84	7.16	0.32	0.54	0.00	23.49	-78.7	0.16
10/16/2023	10/17/2023	0.0	0.3	84.34	No	-	218.71	7.11	0.34	0.49	0.24	23.40	-82.4	0.16
10/23/2023	10/24/2023	0.0	0.1	84.35	No	-	211.41	7.13	0.33	0.47	0.17	23.29	-68.4	0.16
10/30/2023	10/31/2023	0.0	0.0	84.31	No	-	217.56	7.09	0.33	0.46	0.00	23.29	-47.1	0.16
11/06/2023	11/06/2023	0.0	0.0	84.39	No	-	209.60	7.17	0.30	0.50	0.17	23.50	-82.0	0.16
11/06/2023	11/07/2023	0.0	0.0	84.34	No	-	212.67	7.09	0.30	0.40	0.13	23.55	-55.6	0.16
11/13/2023	11/13/2023	0.0	0.3	84.34	No	-	209.45	7.17	0.32	0.54	0.00	23.54	-106.3	0.16
11/20/2023	11/24/2023	0.0	0.0	84.31	No	-	203.22	7.07	0.31	0.48	0.21	23.37	-88.2	0.15
11/27/2023	12/01/2023	0.0	0.0	84.31	No	-	211.05	7.11	0.32	0.53	0.01	23.34	-62.7	0.16
12/04/2023	12/08/2023	0.0	0.0	84.21	No	-	204.48	7.02	0.30	0.50	0.00	23.35	-43.4	0.15
12/11/2023	12/15/2023	0.0	0.0	84.19	No	-	192.90	7.06	0.30	0.50	0.83	23.31	-50.8	0.14
12/18/2023	12/19/2023	0.0	0.0	84.19	No	-	182.55	7.07	0.28	0.48	0.00	23.37	-32.4	0.13
12/25/2023	12/26/2023	0.0	0.0	84.12	No	-	193.13	7.10	0.30	0.49	0.04	23.46	-38.7	0.14
01/01/2024	01/05/2024	0.0	0.1	84.15	No	-	193.40	7.00	0.30	0.49	0.20	23.40	-44.4	0.14

01/08/2024	01/12/2024	0.0	0.0	84.08	No	-	195.64	7.03	0.30	0.48	0.33	23.30	-22.1	0.14
01/15/2024	01/19/2024	0.2	0.9	84.07	No	-	193.08	6.99	0.30	0.49	1.30	23.45	-24.7	0.14

	RHMW02 Headspace and Product Gauging						RHMW02 Parameter Readings							
WEEK	**DATE**	**AMBIENT**	**HEADSPACE**	**Raw DTW**	**PRODUCT?**	**THICKNESS**	**TDS**	**pH**	**Sp. Cond.**	**D.O.**	**Turbidity**	**TEMP**	**ORP**	**SAL**
		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)	(ppm)		(mS/cm)	(mg/L)	(NTU)	(°C)	(mV)	(psu)
10/02/2023	10/06/2023	0.0	0.0	87.22	No	-	338.50	6.66	0.52	0.17	0.25	24.44	-165.3	0.25
10/09/2023	10/09/2023	0.0	0.0	87.22	No	-	321.87	6.65	0.50	0.07	0.22	24.44	-178.0	0.24
10/16/2023	10/20/2023	0.0	0.0	87.23	No	-	323.46	6.66	0.50	0.07	0.05	24.38	-151.8	0.24
10/23/2023	10/27/2023	0.0	0.0	87.26	No	-	315.94	6.70	0.49	0.12	0.18	24.61	-180.7	0.24
10/30/2023	11/03/2023	0.0	0.0	87.27	No	-	314.77	6.72	0.48	0.06	0.21	24.45	-161.6	0.24
11/06/2023	11/07/2023	0.0	0.3	87.22	No	-	318.40	6.72	0.50	0.10	0.23	24.52	-111.3	0.24
11/13/2023	11/17/2023	0.0	0.0	87.25	No	-	324.11	6.76	0.50	0.09	0.23	24.56	-90.1	0.24
11/20/2023	11/21/2023	0.0	0.0	87.29	No	-	311.00	6.70	0.48	0.05	0.14	24.47	-250.5	0.23
11/27/2023	12/01/2023	0.0	0.1	87.19	No	-	322.90	6.70	0.50	0.00	0.08	24.58	-131.0	0.24
12/04/2023	12/08/2023	0.0	0.1	87.08	No	-	321.90	6.70	0.50	0.10	0.02	24.52	-87.6	0.24
12/11/2023	12/15/2023	0.0	0.3	87.08	No	-	304.96	6.72	0.47	0.10	0.51	24.43	-97.2	0.23
12/18/2023	12/19/2023	0.0	0.0	87.19	No	-	291.50	6.80	0.50	0.00	0.00	24.50	-126.5	0.22
12/25/2023	12/26/2023	0.0	0.0	87.02	No	-	303.80	6.80	0.50	0.10	0.10	24.50	-79.6	0.20
01/01/2024	01/05/2024	0.0	0.0	87.05	No	-	305.70	6.67	0.50	0.10	0.12	24.55	-175.4	0.20
01/08/2024	01/12/2024	0.0	0.0	86.95	No	-	306.17	6.70	0.50	0.10	0.50	24.50	-108.6	0.20
01/15/2024	01/19/2024	0.0	0.2	86.98	No	-	297.80	6.70	0.50	0.10	0.90	24.50	-93.0	0.20

	RHMW03 Headspace and Product Gauging						RHMW03 Parameter Readings							
WEEK	**DATE**	**AMBIENT**	**HEADSPACE**	**Raw DTW**	**PRODUCT?**	**THICKNESS**	**TDS**	**pH**	**Sp. Cond.**	**D.O.**	**Turbidity**	**TEMP**	**ORP**	**SAL**
		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)	(ppm)		(mS/cm)	(mg/L)	(NTU)	(°C)	(mV)	(psu)
10/02/2023	10/06/2023	0.0	0.0	103.43	No	-	524.24	6.82	0.81	0.56	0.79	27.40	186.3	0.40
10/09/2023	10/09/2023	0.0	0.0	103.45	No	-	499.18	6.81	0.77	0.43	0.39	27.23	133.4	0.38
10/16/2023	10/20/2023	0.0	0.0	103.44	No	-	505.37	6.83	0.78	0.43	0.30	27.31	155.7	0.38
10/23/2023	10/27/2023	0.0	0.0	103.48	No	-	490.43	6.90	0.75	0.47	5.12	27.06	126.2	0.37
10/30/2023	11/03/2023	0.0	0.0	103.5	No	-	493.61	6.88	0.76	0.49	0.70	27.51	128.7	0.37
11/06/2023	11/10/2023	0.0	0.0	103.47	No	-	497.46	6.83	0.80	0.40	0.83	27.49	186.5	0.38
11/13/2023	11/17/2023	0.0	0.1	103.44	No	-	494.06	6.87	0.76	0.47	0.17	27.17	188.8	0.38
11/20/2023	11/21/2023	0.0	0.0	103.48	No	-	504.39	6.88	0.80	0.50	1.56	27.05	165.0	0.38
11/27/2023	11/28/2023	0.0	0.0	103.4	No	-	498.98	6.86	0.80	0.50	0.03	27.01	200.6	0.38
12/04/2023	12/08/2023	0.0	0.0	103.29	No	-	531.82	6.84	0.80	0.40	0.52	27.39	155.0	0.41
12/11/2023	12/12/2023	0.0	0.0	103.33	No	-	491.15	6.86	0.76	0.45	0.40	27.10	187.8	0.37

12/18/2023	12/19/2023	0.0	0.0	103.37	No	-	491.00	6.90	0.80	0.60	0.68	27.20	186.0	0.40
12/25/2023	12/26/2023	0.0	0.0	103.29	No	-	479.46	6.77	0.70	0.40	0.00	27.24	146.7	0.40
01/01/2024	01/02/2024	0.1	0.1	103.28	No	-	505.08	6.83	0.78	0.47	0.80	27.20	225.0	0.38
01/08/2024	01/09/2024	0.0	0.0	103.19	No	-	506.80	6.90	0.80	1.50	0.40	27.11	259.0	0.40
01/15/2024	01/16/2024	0.0	2.0	103.17	No	-	422.40	6.80	0.70	1.00	0.00	27.40	220.3	0.40

	RHMW04 Headspace and Product Gauging						RHMW04 Parameter Readings							
WEEK	**DATE**	**AMBIENT**	**HEADSPACE**	**Raw DTW**	**PRODUCT?**	**THICKNESS**	**TDS**	**pH**	**Sp. Cond.**	**D.O.**	**Turbidity**	**TEMP**	**ORP**	**SAL**
		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)	(ppm)		(mS/cm)	(mg/L)	(NTU)	(°C)	(mV)	(psu)
10/02/2023	10/06/2023	0.0	0.0	294.71	No	-	269.08	7.38	0.41	9.08	0.42	23.50	256.1	0.20
10/09/2023	10/13/2023	0.0	0.0	294.74	No	-	273.37	7.21	0.42	8.59	0.27	23.77	310.5	0.20
10/23/2023	10/23/2023	0.0	0.0	294.7	No	-	273.99	7.42	0.42	8.68	0.00	23.35	157.7	0.20
10/30/2023	10/30/2023	0.0	0.0	294.77	No	-	270.27	7.45	0.42	9.36	0.00	22.72	287.1	0.20
11/06/2023	11/07/2023	0.0	0.5	294.76	No	-	275.76	7.41	0.40	8.70	0.00	23.31	300.3	0.21
11/13/2023	11/13/2023	0.0	0.0	294.81	No	-	288.06	7.42	0.44	9.31	0.00	23.06	296.0	0.22
11/20/2023	11/20/2023	0.0	0.0	294.76	No	-	269.86	7.42	0.42	8.72	0.10	22.80	292.3	0.20
11/27/2023	11/27/2023	0.0	0.0	294.75	No	-	265.54	7.40	0.41	8.74	0.00	22.90	257.1	0.20
12/04/2023	12/05/2023	0.0	0.5	294.71	No	-	275.52	7.44	0.40	8.80	0.00	22.88	293.4	0.21
12/11/2023	12/11/2023	0.0	0.1	294.64	No	-	263.30	7.34	0.41	8.65	0.40	23.11	277.5	0.20
12/18/2023	12/18/2023	0.0	0.0	294.65	No	-	298.42	7.44	0.50	8.80	0.00	22.10	273.7	0.22
12/25/2023	12/27/2023	0.0	0.0	294.54	No	-	254.99	7.51	0.40	8.70	0.10	22.40	223.0	0.19
01/01/2024	01/02/2024	0.0	0.0	294.51	No	-	272.00	7.50	0.42	8.74	0.00	22.44	256.8	0.20
01/08/2024	01/08/2024	0.0	0.0	294.45	No	-	264.38	7.36	0.40	9.00	0.10	22.60	158.4	0.20
01/15/2024	01/15/2024	0.0	0.0	294.42	No	-	275.86	7.34	0.40	8.90	0.20	21.90	245.1	0.21

	RHMW05 Headspace and Product Gauging						RHMW05 Parameter Readings							
WEEK	**DATE**	**AMBIENT**	**HEADSPACE**	**Raw DTW**	**PRODUCT?**	**THICKNESS**	**TDS**	**pH**	**Sp. Cond.**	**D.O.**	**Turbidity**	**TEMP**	**ORP**	**SAL**
		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)	(ppm)		(mS/cm)	(mg/L)	(NTU)	(°C)	(mV)	(psu)
10/02/2023	10/04/2023	0.0	0.0	83.9	No	-	204.75	7.33	0.31	7.57	0.56	22.86	219.4	0.15
10/09/2023	10/10/2023	0.0	0.0	83.95	No	-	207.07	7.36	0.32	7.59	0.95	22.99	276.6	0.15
10/16/2023	10/17/2023	0.0	0.0	83.88	No	-	204.06	7.51	0.31	7.49	1.26	22.86	124.0	0.15
10/23/2023	10/24/2023	0.0	0.0	83.91	No	-	203.64	7.43	0.31	7.81	0.54	23.08	248.1	0.15
10/30/2023	10/31/2023	0.0	0.0	83.92	No	-	204.60	7.48	0.31	7.48	0.18	23.09	310.5	0.15
11/06/2023	11/10/2023	0.0	0.0	83.93	No	-	204.12	7.52	0.30	7.50	0.09	23.09	273.0	0.15
11/13/2023	11/14/2023	0.0	0.0	83.92	No	-	209.12	7.43	0.32	7.57	0.28	23.10	304.9	0.15
11/20/2023	11/21/2023	0.0	0.0	83.99	No	-	196.17	7.45	0.30	7.46	1.12	22.99	267.5	0.15
11/27/2023	11/28/2023	0.0	0.0	83.9	No	-	202.96	7.47	0.30	7.50	0.31	22.95	288.3	0.15

12/04/2023	12/05/2023	0.0	0.0	83.8	No	-	199.00	7.42	0.30	7.50	2.30	23.12	269.7	0.15
12/11/2023	12/12/2023	0.0	0.0	83.77	No	-	189.42	7.46	0.29	7.50	0.17	22.89	281.7	0.14
12/18/2023	12/22/2023	0.0	0.0	83.75	No	-	201.99	7.49	0.30	7.50	0.02	22.90	221.6	0.20
12/25/2023	12/29/2023	0.0	0.0	83.73	No	-	207.90	7.50	0.30	7.60	1.39	22.94	261.8	0.20
01/01/2024	01/02/2024	0.0	0.0	83.74	No	-	196.77	7.42	0.30	7.60	0.23	22.97	291.0	0.15
01/08/2024	01/09/2024	0.0	0.6	83.64	No	-	216.36	7.40	0.30	7.60	0.37	22.91	298.4	0.20
01/15/2024	01/16/2024	0.1	0.1	83.61	No	-	206.80	7.40	0.30	7.60	0.55	22.91	325.5	0.20

	RHMW06 Headspace and Product Gauging						RHMW06 Parameter Readings							
WEEK	**DATE**	**AMBIENT**	**HEADSPACE**	**Raw DTW**	**PRODUCT?**	**THICKNESS**	**TDS**	**pH**	**Sp. Cond.**	**D.O.**	**Turbidity**	**TEMP**	**ORP**	**SAL**
		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)	(ppm)		(mS/cm)	(mg/L)	(NTU)	(°C)	(mV)	(psu)
10/02/2023	10/06/2023	0.0	0.0	241.63	No	-	1116.33	6.83	1.72	6.91	0.55	24.81	268.9	0.88
10/09/2023	10/13/2023	0.0	0.0	241.7	No	-	1124.58	6.90	1.73	6.62	0.09	24.36	289.1	0.89
10/23/2023	10/23/2023	0.0	0.0	241.66	No	-	1138.31	6.88	1.75	6.62	0.00	25.03	150.0	0.90
10/30/2023	10/30/2023	0.0	0.0	241.71	No	-	1107.47	6.95	1.70	7.08	0.19	25.19	307.9	0.87
11/06/2023	11/07/2023	0.0	1.2	241.69	No	-	1131.54	6.91	1.70	6.50	0.00	24.64	283.4	0.89
11/13/2023	11/13/2023	0.0	0.0	241.75	No	-	1182.08	6.92	1.82	6.97	0.00	24.61	297.1	0.93
11/20/2023	11/20/2023	0.0	0.1	241.67	No	-	1114.77	6.91	1.72	6.56	0.13	24.24	285.1	0.88
11/27/2023	11/27/2023	0.0	0.0	241.68	No	-	1085.06	6.92	1.67	6.57	0.04	24.39	263.8	0.85
12/04/2023	12/05/2023	0.0	0.0	241.61	No	-	1129.26	6.93	1.70	6.50	0.00	24.18	277.2	0.89
12/11/2023	12/11/2023	0.0	0.4	241.59	No	-	1047.60	6.90	1.61	6.48	0.50	24.30	271.5	0.82
12/18/2023	12/18/2023	0.0	0.0	241.58	No	-	1191.20	6.90	1.83	6.42	0.03	23.91	283.1	0.90
12/25/2023	12/27/2023	0.0	0.0	241.47	No	-	1030.07	6.97	1.60	6.60	0.23	24.33	240.5	0.80
01/01/2024	01/02/2024	0.0	0.0	241.43	No	-	1053.70	7.00	1.62	6.51	0.00	24.00	244.4	0.83
01/08/2024	01/08/2024	0.0	0.0	241.4	No	-	1066.36	6.90	1.60	6.90	0.00	24.09	152.9	0.80
01/15/2024	01/15/2024	0.0	0.0	241.38	No	-	1085.10	6.90	1.70	6.60	0.36	23.98	258.0	0.90

	RHMW08 Headspace and Product Gauging						RHMW08 Parameter Readings							
WEEK	**DATE**	**AMBIENT**	**HEADSPACE**	**Raw DTW**	**PRODUCT?**	**THICKNESS**	**TDS**	**pH**	**Sp. Cond.**	**D.O.**	**Turbidity**	**TEMP**	**ORP**	**SAL**
		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)	(ppm)		(mS/cm)	(mg/L)	(NTU)	(°C)	(mV)	(psu)
10/02/2023	10/04/2023	0.0	0.0	293.09	No	-	410.51	7.94	0.63	3.48	0.74	25.48	186.5	0.31
10/09/2023	10/11/2023	0.0	0.0	293.18	No	-	427.80	7.71	0.66	0.72	0.68	25.71	165.8	0.32
10/16/2023	10/18/2023	0.0	0.0	293.17	No	-	426.94	7.85	0.66	1.84	0.73	25.73	175.2	0.32
10/23/2023	10/25/2023	0.0	0.0	293.12	No	-	432.63	7.89	0.67	2.05	0.17	26.14	71.9	0.33
10/30/2023	11/01/2023	0.0	0.0	293.16	No	-	424.31	7.98	0.65	2.39	0.08	26.18	201.8	0.32
11/06/2023	11/10/2023	0.0	0.0	293.18	No	-	436.49	8.01	0.70	2.60	0.00	25.28	162.9	0.33
11/13/2023	11/14/2023	0.0	0.0	293.14	No	-	426.63	8.01	0.66	2.82	0.01	25.03	212.7	0.32

11/20/2023	11/20/2023	0.0	0.0	293.23	No	-	421.90	8.02	0.65	3.03	0.33	24.80	209.9	0.32
11/27/2023	11/28/2023	0.0	0.0	293.14	No	-	412.70	8.00	0.63	3.07	0.00	24.67	206.5	0.31
12/04/2023	12/04/2023	0.0	0.0	293.05	No	-	427.98	8.08	0.70	3.10	0.34	25.45	201.2	0.32
12/11/2023	12/11/2023	0.0	0.0	293.02	No	-	421.38	8.00	0.65	2.40	0.17	25.41	204.5	0.32
12/18/2023	12/18/2023	0.0	0.0	293.02	No	-	420.70	8.00	0.65	2.94	0.20	24.50	168.2	0.32
12/25/2023	12/26/2023	0.0	0.0	292.99	No	-	431.60	7.80	0.70	0.40	0.71	24.23	-78.9	0.33
01/01/2024	01/03/2024	0.0	0.0	292.86	No	-	425.61	7.80	0.70	0.50	0.06	25.69	41.6	0.30
01/08/2024	01/08/2024	0.4	0.0	292.88	No	-	438.31	7.60	0.67	0.94	0.00	24.50	182.0	0.33
01/15/2024	01/15/2024	0.0	0.0	292.84	No	-	447.10	7.50	0.70	1.60	0.40	24.80	228.7	0.34

	RHMW09 Headspace and Product Gauging						RHMW09 Parameter Readings							
WEEK	**DATE**	**AMBIENT**	**HEADSPACE**	**Raw DTW**	**PRODUCT?**	**THICKNESS**	**TDS**	**pH**	**Sp. Cond.**	**D.O.**	**Turbidity**	**TEMP**	**ORP**	**SAL**
		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)	(ppm)		(mS/cm)	(mg/L)	(NTU)	(°C)	(mV)	(psu)
10/02/2023	10/05/2023	0.0	0.0	378.23	No	-	210.56	7.23	0.32	8.58	0.00	25.23	249.0	0.16
10/09/2023	10/12/2023	0.0	0.0	378.25	No	-	211.68	7.50	0.33	8.62	0.43	24.18	280.9	0.16
10/23/2023	10/24/2023	0.0	0.0	378.31	No	-	206.24	7.54	0.32	8.55	0.00	24.71	156.3	0.15
10/30/2023	10/30/2023	0.0	0.0	378.3	No	-	206.18	7.59	0.32	8.61	0.28	24.55	264.0	0.15
11/06/2023	11/06/2023	0.0	0.0	378.34	No	-	213.21	7.49	0.30	8.60	3.54	24.50	278.0	0.16
11/13/2023	11/14/2023	0.0	0.0	378.3	No	-	218.26	7.52	0.34	8.48	0.10	25.25	301.1	0.16
11/20/2023	11/20/2023	0.0	0.0	378.32	No	-	210.51	7.50	0.30	8.60	0.52	24.01	184.0	0.16
11/27/2023	11/27/2023	0.0	0.0	378.23	No	-	216.77	7.51	0.30	8.60	1.10	24.10	281.0	0.16
12/04/2023	12/04/2023	0.0	0.0	378.23	No	-	207.15	7.56	0.30	8.60	0.59	23.93	262.4	0.15
12/11/2023	12/12/2023	0.0	0.0	378.18	No	-	210.95	7.49	0.32	8.55	0.40	24.00	285.6	0.16
12/18/2023	12/19/2023	0.0	0.0	378.18	No	-	209.99	7.55	0.30	8.60	0.00	23.50	291.1	0.16
12/25/2023	12/27/2023	0.0	0.0	378.1	No	-	206.80	7.60	0.30	9.20	0.00	23.50	267.7	0.15
01/01/2024	01/04/2024	0.0	0.0	378.09	No	-	216.68	7.34	0.33	8.58	0.30	24.20	283.0	0.16
01/08/2024	01/09/2024	0.0	0.0	378.05	No	-	216.58	7.50	0.30	8.60	0.00	23.60	255.4	0.20
01/15/2024	01/16/2024	0.0	0.0	377.94	No	-	217.00	7.60	0.30	8.60	0.00	23.90	232.5	0.16

	RHMW10 Headspace and Product Gauging						RHMW10 Parameter Readings							
WEEK	**DATE**	**AMBIENT**	**HEADSPACE**	**Raw DTW**	**PRODUCT?**	**THICKNESS**	**TDS**	**pH**	**Sp. Cond.**	**D.O.**	**Turbidity**	**TEMP**	**ORP**	**SAL**
		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)	(ppm)		(mS/cm)	(mg/L)	(NTU)	(°C)	(mV)	(psu)
10/02/2023	10/05/2023	0.0	0.0	478.2	No	-	191.35	7.44	0.29	8.52	0.44	24.43	280.8	0.14
10/09/2023	10/10/2023	0.0	0.0	478.23	No	-	184.50	7.46	0.28	8.44	0.48	25.85	286.2	0.14
10/23/2023	10/26/2023	0.0	0.0	478.34	No	-	180.49	7.52	0.28	8.49	0.21	25.18	249.6	0.13
10/30/2023	10/31/2023	0.0	0.0	478.32	No	-	180.56	7.50	0.28	8.44	0.00	24.44	287.4	0.13
11/06/2023	11/10/2023	0.0	0.0	478.34	No	-	184.99	7.49	0.30	8.50	0.10	25.32	241.7	0.14

11/13/2023	11/13/2023	0.0	0.0	478.35	No	-	175.00	7.50	0.27	8.77	0.00	25.04	305.8	0.13
11/20/2023	11/21/2023	0.0	0.0	478.26	No	-	183.94	7.38	0.28	8.33	0.40	23.80	200.8	0.14
11/27/2023	11/29/2023	0.0	0.0	478.21	No	-	177.90	7.58	0.27	8.10	0.50	23.80	246.4	0.13
12/04/2023	12/05/2023	0.0	0.0	478.2	No	-	182.52	7.45	0.30	8.40	0.00	24.14	273.4	0.13
12/11/2023	12/13/2023	0.0	0.0	478.2	No	-	NC	7.47	NC	8.50	0.00	23.65	309.9	NC
12/18/2023	12/20/2023	0.0	0.0	478.16	No	-	179.10	7.50	0.28	8.54	0.70	23.40	239.9	0.13
12/25/2023	12/28/2023	0.0	0.0	478.13	No	-	177.20	7.50	0.27	8.16	0.00	24.10	272.4	0.13
01/01/2024	01/02/2024	0.0	0.0	478.19	No	-	179.30	7.50	0.28	8.11	0.00	24.44	287.3	0.10
01/08/2024	01/10/2024	0.0	0.0	478.05	No	-	179.58	7.45	0.28	8.38	0.10	23.70	142.8	0.10
01/15/2024	01/17/2024	0.0	0.2	478	No	-	188.50	7.40	0.29	8.15	0.30	24.20	267.9	0.10

	RHMW11-05 Headspace and Product Gauging						RHMW11-05 Parameter Readings							
WEEK	**DATE**	**AMBIENT**	**HEADSPACE**	**Raw DTW**	**PRODUCT?**	**THICKNESS**	**TDS**	**pH**	**Sp. Cond.**	**D.O.**	**Turbidity**	**TEMP**	**ORP**	**SAL**
		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)	(ppm)		(mS/cm)	(mg/L)	(NTU)	(°C)	(mV)	(psu)
10/02/2023	10/02/2023	0.0	0.0	-	No	-	263.84	8.17	0.41	0.82	0.48	25.49	-156.5	0.20
10/09/2023	10/09/2023	0.0	0.0	-	No	-	269.45	7.85	0.41	2.12	0.28	26.06	28.8	0.20
10/23/2023	10/24/2023	0.0	0.0	-	No	-	272.67	8.04	0.42	1.14	0.49	26.85	54.6	0.20
10/30/2023	10/30/2023	0.0	0.0	-	No	-	267.53	8.10	0.41	1.76	1.07	25.25	-10.5	0.20
11/06/2023	11/06/2023	0.0	0.0	-	No	-	258.20	7.97	0.40	1.10	4.51	26.68	23.8	0.19
11/13/2023	11/15/2023	0.0	0.0	-	No	-	266.53	8.06	0.41	1.04	0.47	23.98	-22.6	0.20
11/20/2023	11/22/2023	0.0	0.0	-	No	-	252.24	8.07	0.39	0.85	0.13	26.14	-100.1	0.20
11/27/2023	11/27/2023	0.0	0.0	-	No	-	264.10	8.10	0.41	0.81	0.00	25.43	-43.9	0.20
12/04/2023	12/04/2023	0.0	0.0	-	No	-	257.79	8.12	0.40	3.10	0.82	24.82	13.2	0.19
12/11/2023	12/13/2023	0.0	0.0	-	No	-	263.80	7.99	0.41	1.60	0.90	23.89	34.8	0.20
12/18/2023	12/20/2023	0.0	0.0	-	No	-	248.10	8.20	0.38	1.20	0.00	22.30	-6.8	0.20
12/25/2023	12/28/2023	0.0	0.0	-	No	-	266.50	8.10	0.40	0.80	1.05	23.83	-37.3	0.20
01/01/2024	01/04/2024	0.0	0.0	-	No	-	265.60	8.05	0.40	1.00	0.70	25.05	45.5	0.20
01/08/2024	01/10/2024	0.0	0.0	-	No	-	258.85	8.10	0.40	0.80	0.68	23.99	54.4	0.20
01/15/2024	01/17/2024	0.0	0.0	-	No	-	263.00	8.00	0.40	0.80	0.60	24.60	59.7	0.20

	RHMW12A Headspace and Product Gauging						RHMW12A Parameter Readings							
WEEK	**DATE**	**AMBIENT**	**HEADSPACE**	**Raw DTW**	**PRODUCT?**	**THICKNESS**	**TDS**	**pH**	**Sp. Cond.**	**D.O.**	**Turbidity**	**TEMP**	**ORP**	**SAL**
		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)	(ppm)		(mS/cm)	(mg/L)	(NTU)	(°C)	(mV)	(psu)
10/02/2023	10/03/2023	0.0	0.0	221.09	No	-	209.58	8.48	0.32	6.25	0.25	25.90	176.8	0.16
10/09/2023	10/12/2023	0.0	0.1	221.14	No	-	201.82	8.47	0.31	6.37	0.23	25.55	197.1	0.15
11/06/2023	11/09/2023	0.0	0.0	221.22	No	-	201.72	8.42	0.30	6.60	0.00	25.77	226.9	0.15
12/04/2023	12/07/2023	0.0	0.0	221.09	No	-	208.56	8.42	0.30	6.70	0.04	25.04	222.5	0.15

01/01/2024	01/05/2024	0.0	0.0	221.03	No	-	222.10	8.30	0.34	6.81	0.40	25.40	185.8	0.16
	RHMW13-04 Headspace and Product Gauging						**RHMW13-04 Parameter Readings**							
WEEK	**DATE**	**AMBIENT**	**HEADSPACE**	**Raw DTW**	**PRODUCT?**	**THICKNESS**	**TDS**	**pH**	**Sp. Cond.**	**D.O.**	**Turbidity**	**TEMP**	**ORP**	**SAL**
		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)	(ppm)		(mS/cm)	(mg/L)	(NTU)	(°C)	(mV)	(psu)
10/09/2023	10/10/2023	0.0	0.0	-	No	-	216.17	7.83	0.33	3.88	0.11	25.24	200.9	0.16
10/23/2023	10/25/2023	0.0	0.0	-	No	-	214.49	8.03	0.33	1.54	0.32	23.89	205.2	0.16
10/30/2023	10/31/2023	0.0	0.0	-	No	-	218.57	8.02	0.34	2.35	1.46	24.30	197.3	0.16
11/06/2023	11/09/2023	0.0	0.0	-	No	-	216.85	7.78	0.30	3.70	0.14	23.41	202.8	0.16
11/13/2023	11/14/2023	0.0	0.0	-	No	-	221.25	7.89	0.34	2.71	0.36	22.51	92.6	0.16
11/20/2023	11/20/2023	0.0	0.0	-	No	-	224.54	8.20	0.35	1.09	0.00	23.58	178.7	0.17
11/27/2023	11/28/2023	0.0	0.0	-	No	-	208.90	8.17	0.32	0.84	0.30	23.20	196.1	0.15
12/04/2023	12/07/2023	0.0	0.0	-	No	-	206.18	7.90	0.30	2.80	0.00	23.06	182.0	0.15
12/11/2023	12/12/2023	0.0	0.0	-	No	-	213.50	7.96	0.33	2.43	0.00	22.60	202.0	0.16
12/18/2023	12/19/2023	0.0	0.0	-	No	-	201.99	8.00	0.31	2.07	0.00	22.30	199.1	0.15
12/25/2023	12/27/2023	0.0	0.0	-	No	-	215.80	8.10	0.33	2.21	0.00	23.70	172.8	0.16
01/01/2024	01/03/2024	0.0	0.0	-	No	-	221.94	7.94	0.30	1.80	0.23	22.79	221.7	0.20
01/08/2024	01/09/2024	0.0	0.3	-	No	-	208.35	7.90	0.30	1.80	0.00	22.40	188.3	0.15
01/15/2024	01/16/2024	0.0	0.0	-	No	-	222.20	7.90	0.30	1.80	0.30	22.90	224.0	0.16
	RHMW13-05 Headspace and Product Gauging						**RHMW13-05 Parameter Readings**							
WEEK	**DATE**	**AMBIENT**	**HEADSPACE**	**Raw DTW**	**PRODUCT?**	**THICKNESS**	**TDS**	**pH**	**Sp. Cond.**	**D.O.**	**Turbidity**	**TEMP**	**ORP**	**SAL**
		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)	(ppm)		(mS/cm)	(mg/L)	(NTU)	(°C)	(mV)	(psu)
10/02/2023	10/05/2023	0.0	0.0	-	No	-	242.57	7.72	0.37	3.88	1.66	27.05	158.6	0.18
	RHMW14-03 Headspace and Product Gauging						**RHMW14-03 Parameter Readings**							
WEEK	**DATE**	**AMBIENT**	**HEADSPACE**	**Raw DTW**	**PRODUCT?**	**THICKNESS**	**TDS**	**pH**	**Sp. Cond.**	**D.O.**	**Turbidity**	**TEMP**	**ORP**	**SAL**
		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)	(ppm)		(mS/cm)	(mg/L)	(NTU)	(°C)	(mV)	(psu)
10/02/2023	10/02/2023	0.0	0.0	-	No	-	185.16	7.97	0.28	2.09	1.39	27.37	45.9	0.14
10/09/2023	10/09/2023	0.0	0.0	-	No	-	186.62	7.16	0.29	2.28	0.73	26.99	259.6	0.14
10/23/2023	10/24/2023	0.0	0.0	-	No	-	184.21	7.99	0.28	2.56	0.28	25.15	222.9	0.14
10/30/2023	10/30/2023	0.0	0.0	-	No	-	187.06	8.05	0.29	1.96	0.83	25.36	212.4	0.14
11/06/2023	11/06/2023	0.0	0.0	-	No	-	179.23	7.94	0.30	3.50	0.31	26.75	221.9	0.13
11/13/2023	11/15/2023	0.0	0.0	-	No	-	185.14	7.95	0.28	1.64	0.29	23.89	224.6	0.14
11/20/2023	11/22/2023	0.0	0.0	-	No	-	172.90	7.95	0.27	1.59	0.16	23.99	165.5	0.13
11/27/2023	11/27/2023	0.0	0.0	-	No	-	184.30	7.90	0.28	2.78	2.57	25.40	243.9	0.14
12/04/2023	12/04/2023	0.0	0.0	-	No	-	180.81	7.94	0.30	2.10	0.47	23.78	183.2	0.13
12/11/2023	12/13/2023	0.0	0.0	-	No	-	187.99	7.83	0.29	2.63	1.06	23.90	230.4	0.14

12/18/2023	12/20/2023	0.0	1.5	-	No	-	171.40	8.10	0.26	1.40	0.00	22.10	182.3	0.13
12/25/2023	12/28/2023	0.0	0.0	-	No	-	184.90	7.90	0.30	2.90	0.89	24.27	184.9	0.10
01/01/2024	01/04/2024	0.0	0.0	-	No	-	187.21	7.93	0.29	3.52	0.50	25.70	195.5	0.14
01/08/2024	01/10/2024	0.0	0.0	-	No	-	183.97	7.90	0.28	1.43	0.60	24.40	196.5	0.14
01/15/2024	01/17/2024	0.0	0.0	-	No	-	183.20	7.90	0.30	1.60	0.70	23.90	233.4	0.14

	RHMW15-05 Headspace and Product Gauging						RHMW15-05 Parameter Readings							
WEEK	**DATE**	**AMBIENT**	**HEADSPACE**	**Raw DTW**	**PRODUCT?**	**THICKNESS**	**TDS**	**pH**	**Sp. Cond.**	**D.O.**	**Turbidity**	**TEMP**	**ORP**	**SAL**
		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)	(ppm)		(mS/cm)	(mg/L)	(NTU)	(°C)	(mV)	(psu)
10/02/2023	10/04/2023	0.0	0.0	-	No	-	215.68	7.96	0.33	2.70	0.68	27.46	128.7	0.16
10/09/2023	10/11/2023	0.0	0.0	-	No	-	204.45	7.82	0.31	0.92	0.53	26.60	141.6	0.15
10/23/2023	10/23/2023	0.0	0.1	-	No	-	214.25	7.80	0.33	1.39	0.30	27.04	197.1	0.16
10/30/2023	11/01/2023	0.0	0.0	-	No	-	212.35	7.95	0.33	1.91	1.27	25.24	198.4	0.16
11/06/2023	11/08/2023	0.0	0.0	-	No	-	201.21	7.78	0.30	2.00	0.04	25.09	193.4	0.15
11/13/2023	11/13/2023	0.0	0.0	-	No	-	207.99	7.55	0.32	2.19	0.18	25.49	217.3	0.15
11/20/2023	11/21/2023	0.0	0.0	-	No	-	202.29	8.00	0.30	1.50	0.43	26.68	215.3	0.15
11/27/2023	11/29/2023	0.0	0.0	-	No	-	203.90	8.00	0.30	1.50	0.02	22.47	194.2	0.15
12/04/2023	12/06/2023	0.0	0.0	-	No	-	202.10	7.89	0.30	1.20	0.49	24.69	204.9	0.15
12/11/2023	12/11/2023	0.0	0.0	-	No	-	209.78	7.96	0.32	1.47	0.27	24.84	154.4	0.16
12/18/2023	12/18/2023	0.0	0.0	-	No	-	208.20	7.91	0.30	1.70	0.28	22.30	204.1	0.15
12/25/2023	12/29/2023	0.0	0.0	-	No	-	202.80	7.60	0.30	2.80	0.76	22.69	229.9	0.15
01/01/2024	01/05/2024	0.0	0.0	-	No	-	206.80	8.00	0.32	1.25	0.53	24.33	218.7	0.20
01/08/2024	01/08/2024	0.0	0.0	-	No	-	208.35	7.90	0.30	1.80	0.00	22.40	188.3	0.15
01/15/2024	01/15/2024	0.0	0.0	-	No	-	202.85	7.57	0.31	2.84	1.90	23.30	198.6	0.20

	RHMW16 Headspace and Product Gauging						RHMW16 Parameter Readings							
WEEK	**DATE**	**AMBIENT**	**HEADSPACE**	**Raw DTW**	**PRODUCT?**	**THICKNESS**	**TDS**	**pH**	**Sp. Cond.**	**D.O.**	**Turbidity**	**TEMP**	**ORP**	**SAL**
		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)	(ppm)		(mS/cm)	(mg/L)	(NTU)	(°C)	(mV)	(psu)
10/02/2023	10/05/2023	0.0	0.0	202.29	No	-	253.70	7.88	0.39	8.49	0.45	26.43	287.3	0.19
10/09/2023	10/12/2023	0.0	0.0	202.35	No	-	240.71	8.03	0.37	8.62	0.22	26.00	231.7	0.18
10/23/2023	10/26/2023	0.0	0.1	202.47	No	-	240.26	8.05	0.37	8.55	0.11	25.01	210.8	0.18
10/30/2023	10/31/2023	0.0	0.1	202.39	No	-	240.29	8.02	0.37	8.56	0.00	25.69	251.5	0.18
11/06/2023	11/06/2023	0.0	0.0	202.48	No	-	237.74	8.05	0.40	8.70	0.23	25.05	209.7	0.18
11/13/2023	11/13/2023	0.0	0.0	202.45	No	-	240.91	8.04	0.37	8.92	0.00	25.56	264.1	0.18
11/20/2023	11/20/2023	0.0	0.0	202.39	No	-	240.77	8.02	0.37	8.60	0.20	24.70	259.2	0.18
11/27/2023	11/28/2023	0.0	0.0	202.41	No	-	230.84	8.00	0.36	8.50	0.00	24.20	237.7	0.17
12/04/2023	12/04/2023	0.0	0.0	202.32	No	-	238.72	8.07	0.40	8.60	0.15	24.32	238.1	0.18

12/11/2023	12/11/2023	0.0	0.0	202.28	No	-	236.20	8.06	0.36	8.60	0.00	24.57	244.9	0.18
12/18/2023	12/18/2023	0.0	0.0	202.3	No	-	236.66	8.00	0.40	8.54	0.40	23.90	199.7	0.18
12/25/2023	12/26/2023	0.0	0.0	202.24	No	-	242.70	8.00	0.37	9.21	0.40	24.80	235.5	0.20
01/01/2024	01/03/2024	0.0	0.0	202.2	No	-	242.71	8.04	0.40	8.70	0.00	24.33	242.7	0.18
01/08/2024	01/08/2024	0.0	0.0	202.14	No	-	233.46	8.00	0.36	9.10	0.00	24.30	117.9	0.20
01/15/2024	01/15/2024	0.0	0.1	202.09	No	-	244.60	8.00	0.38	8.58	2.10	24.90	239.2	0.20

	RHMW17 Headspace and Product Gauging						RHMW17 Parameter Readings							
WEEK	**DATE**	**AMBIENT**	**HEADSPACE**	**Raw DTW**	**PRODUCT?**	**THICKNESS**	**TDS**	**pH**	**Sp. Cond.**	**D.O.**	**Turbidity**	**TEMP**	**ORP**	**SAL**
		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)	(ppm)		(mS/cm)	(mg/L)	(NTU)	(°C)	(mV)	(psu)
10/02/2023	10/04/2023	0.0	0.0	234.86	No	-	245.68	7.34	0.38	3.52	0.29	25.00	245.0	0.18
10/09/2023	10/11/2023	0.0	0.0	234.94	No	-	247.98	7.50	0.38	3.45	0.00	24.83	260.4	0.18
10/23/2023	10/25/2023	0.0	0.1	235.06	No	-	250.86	7.45	0.39	3.55	2.53	23.75	219.9	0.19
10/30/2023	11/02/2023	0.0	0.0	234.99	No	-	249.76	7.44	0.38	3.52	1.87	24.02	258.4	0.19
11/06/2023	11/08/2023	0.0	0.0	235.02	No	-	240.65	7.50	0.40	3.50	0.10	23.90	232.0	0.18
11/13/2023	11/15/2023	0.0	0.0	235.02	No	-	248.62	7.33	0.38	3.53	0.10	24.10	271.3	0.18
11/20/2023	11/22/2023	0.0	0.0	234.98	No	-	241.51	7.35	0.37	3.77	0.05	24.39	262.0	0.20
11/27/2023	11/28/2023	0.0	0.0	234.9	No	-	244.51	7.48	0.38	3.57	0.13	23.91	263.2	0.18
12/04/2023	12/06/2023	0.0	0.3	234.85	No	-	244.67	7.48	0.40	3.50	0.08	23.98	198.4	0.18
12/11/2023	12/12/2023	0.0	0.0	234.86	No	-	251.94	7.50	0.39	3.67	0.00	23.40	230.2	0.19
12/18/2023	12/19/2023	0.0	0.8	234.85	No	-	240.27	7.50	0.40	3.79	0.07	23.70	252.9	0.20
12/25/2023	12/27/2023	0.0	0.0	234.81	No	-	256.25	7.50	0.39	3.50	0.08	23.57	220.1	0.20
01/01/2024	01/03/2024	0.0	6.7	234.85	No	-	260.60	7.40	0.40	3.71	0.40	24.10	265.7	0.19
01/08/2024	01/09/2024	0.0	0.0	234.75	No	-	247.32	7.30	0.38	3.74	0.00	24.30	267.2	0.20
01/15/2024	01/16/2024	0.0	0.0	234.73	No	-	206.90	7.40	0.30	3.30	0.00	24.45	238.6	0.20

	RHMW18 Headspace and Product Gauging						RHMW18 Parameter Readings							
WEEK	**DATE**	**AMBIENT**	**HEADSPACE**	**Raw DTW**	**PRODUCT?**	**THICKNESS**	**TDS**	**pH**	**Sp. Cond.**	**D.O.**	**Turbidity**	**TEMP**	**ORP**	**SAL**
		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)	(ppm)		(mS/cm)	(mg/L)	(NTU)	(°C)	(mV)	(psu)
01/01/2024	12/31/2023	0.0	0.0	-	No	-	256.82	8.68	0.40	0.60	3.76	25.40	85.1	0.19
01/01/2024	01/03/2024	0.0	0.0	-	No	-	248.18	8.82	0.40	0.50	2.39	25.61	69.4	0.20
01/08/2024	01/10/2024	0.0	0.0	-	No	-	237.86	8.90	0.40	0.50	0.66	24.51	-76.5	0.18
01/15/2024	01/17/2024	0.0	0.0	-	No	-	247.50	8.90	0.40	0.50	0.50	24.50	50.5	0.18

	RHMW19 Headspace and Product Gauging						RHMW19 Parameter Readings							
WEEK	**DATE**	**AMBIENT**	**HEADSPACE**	**Raw DTW**	**PRODUCT?**	**THICKNESS**	**TDS**	**pH**	**Sp. Cond.**	**D.O.**	**Turbidity**	**TEMP**	**ORP**	**SAL**
		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)	(ppm)		(mS/cm)	(mg/L)	(NTU)	(°C)	(mV)	(psu)
10/02/2023	10/05/2023	0.0	0.0	427.19	No	-	182.94	7.19	0.28	8.78	0.09	24.86	247.9	0.14

10/09/2023	10/12/2023	0.0	0.0	427.21	No	-	182.31	7.58	0.28	8.58	0.64	24.15	278.5	0.13
10/23/2023	10/24/2023	0.0	0.0	427.26	No	-	177.73	7.73	0.27	8.47	0.00	25.47	137.7	0.13
10/30/2023	10/30/2023	0.0	0.0	427.27	No	-	177.48	7.79	0.27	8.57	0.34	25.39	264.2	0.13
11/06/2023	11/06/2023	0.0	0.0	427.29	No	-	185.00	7.57	0.30	8.40	3.06	25.54	282.5	0.14
11/13/2023	11/14/2023	0.0	0.0	427.3	No	-	188.81	7.68	0.29	8.39	0.00	24.78	283.4	0.14
11/20/2023	11/20/2023	0.0	0.0	427.24	No	-	181.77	7.65	0.28	8.52	0.70	25.09	181.7	0.13
11/27/2023	11/27/2023	0.0	0.0	427.2	No	-	187.39	7.72	0.30	8.60	1.31	25.04	267.7	0.14
12/04/2023	12/04/2023	0.0	0.0	427.21	No	-	178.40	7.69	0.30	8.50	0.55	25.44	263.1	0.13
12/11/2023	12/12/2023	0.0	0.0	427.15	No	-	182.36	7.64	0.28	8.30	0.40	25.41	282.7	0.13
12/18/2023	12/19/2023	0.0	0.0	427.14	No	-	181.40	7.73	0.28	NC	0.28	24.24	284.7	0.10
12/25/2023	12/27/2023	0.0	0.0	427.06	No	-	178.50	7.70	0.27	9.20	0.30	25.31	280.3	0.10
01/01/2024	01/04/2024	0.0	0.0	427.03	No	-	187.18	7.63	0.29	8.52	0.60	24.90	286.5	0.14
01/08/2024	01/09/2024	0.0	0.0	427.02	No	-	186.70	7.30	0.30	8.60	0.17	24.47	322.4	0.10
01/15/2024	01/16/2024	0.0	0.0	426.91	No	-	186.90	7.70	0.30	8.60	0.07	24.61	237.1	0.10

	RHMW20 Headspace and Product Gauging						RHMW20 Parameter Readings							
WEEK	**DATE**	**AMBIENT**	**HEADSPACE**	**Raw DTW**	**PRODUCT?**	**THICKNESS**	**TDS**	**pH**	**Sp. Cond.**	**D.O.**	**Turbidity**	**TEMP**	**ORP**	**SAL**
		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)	(ppm)		(mS/cm)	(mg/L)	(NTU)	(°C)	(mV)	(psu)
10/02/2023	10/05/2023	0.0	1.2	238.18	No	-	1124.83	7.09	1.73	4.95	0.00	25.32	238.8	0.89
10/09/2023	10/10/2023	0.0	0.0	238.32	No	-	1165.97	7.21	1.79	4.62	0.31	25.61	229.0	0.92
10/23/2023	10/23/2023	0.0	0.0	238.24	No	-	1176.44	7.22	1.81	5.21	0.07	25.14	114.0	0.93
10/30/2023	11/02/2023	0.0	0.2	238.31	No	-	1184.39	7.21	1.82	5.26	0.76	25.03	274.1	0.94
11/06/2023	11/09/2023	0.0	0.0	238.36	No	-	1152.62	7.23	1.80	5.40	0.18	24.63	242.6	0.91
11/13/2023	11/14/2023	0.0	0.0	238.45	No	-	1201.23	7.20	1.85	5.28	0.08	24.20	110.8	0.95
11/20/2023	11/21/2023	0.1	0.1	238.35	No	-	1120.30	7.20	1.72	5.64	0.30	24.28	262.1	0.88
11/27/2023	11/29/2023	0.0	0.0	238.26	No	-	1120.10	7.30	1.72	5.42	0.00	23.85	244.9	0.88
12/04/2023	12/07/2023	0.0	0.0	238.22	No	-	1193.57	7.22	1.80	5.10	0.11	24.80	250.1	0.94
12/11/2023	12/13/2023	0.0	0.0	238.24	No	-	1144.20	7.22	1.76	5.29	0.00	24.30	249.2	0.90
12/18/2023	12/20/2023	0.0	0.0	238.24	No	-	1150.96	7.20	1.80	5.36	0.10	23.40	261.9	0.91
12/25/2023	12/28/2023	0.0	0.0	238.16	No	-	1193.73	7.23	1.80	5.30	0.32	23.70	263.6	0.94
01/01/2024	01/03/2024	0.0	0.0	238.12	No	-	1192.00	7.20	1.83	5.42	0.00	24.10	254.3	0.90
01/08/2024	01/10/2024	0.0	0.0	238.15	No	-	1194.14	7.20	1.80	5.10	0.17	23.60	229.3	0.90
01/15/2024	01/17/2024	0.0	0.0	238.07	No	-	1159.90	7.20	1.80	5.50	1.60	23.70	263.3	0.92

	RHMW2254-01 Headspace and Product Gauging						RHMW2254-01 Parameter Readings							
WEEK	**DATE**	**AMBIENT**	**HEADSPACE**	**Raw DTW**	**PRODUCT?**	**THICKNESS**	**TDS**	**pH**	**Sp. Cond.**	**D.O.**	**Turbidity**	**TEMP**	**ORP**	**SAL**
		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)	(ppm)		(mS/cm)	(mg/L)	(NTU)	(°C)	(mV)	(psu)

10/02/2023	10/05/2023	0.0	0.0	88.13	No	-	389.40	7.21	0.60	8.66	0.00	21.99	287.2	0.29
10/09/2023	10/12/2023	0.0	0.0	-999	No	-	379.01	7.59	0.58	8.64	0.00	22.02	253.1	0.29
10/16/2023	10/17/2023	0.0	0.0	88.83	No	-	381.48	7.43	0.59	8.49	0.00	22.14	230.0	0.29
10/23/2023	10/24/2023	0.0	0.0	88.84	No	-	378.77	7.62	0.58	8.68	0.21	22.04	245.6	0.29
10/30/2023	10/31/2023	0.0	0.0	88.77	No	-	386.82	7.59	0.60	8.43	0.08	22.15	278.8	0.29
11/06/2023	11/07/2023	0.0	0.0	89.01	No	-	377.63	7.63	0.60	8.40	0.00	22.25	282.6	0.28
11/13/2023	11/14/2023	0.0	0.0	88.82	No	-	379.45	7.60	0.58	8.68	0.00	22.38	268.4	0.29
11/20/2023	11/21/2023	0.1	0.1	88.9	No	-	381.48	7.58	0.60	9.10	0.22	21.84	278.6	0.29
11/27/2023	11/28/2023	0.0	0.0	88.75	No	-	374.41	7.62	0.60	8.90	0.13	22.10	297.1	0.28
12/04/2023	12/05/2023	0.0	0.0	88.68	No	-	380.87	7.56	0.60	8.60	0.00	22.35	286.3	0.29
12/11/2023	12/12/2023	0.0	0.0	88.85	No	-	376.00	7.59	0.58	8.72	0.02	22.15	241.7	0.28
12/18/2023	12/19/2023	0.0	0.0	88.73	No	-	372.18	7.65	0.60	8.70	0.10	21.90	232.9	0.28
12/25/2023	12/26/2023	0.0	0.0	88.69	No	-	365.98	7.50	0.60	8.70	0.00	22.00	185.8	0.28
01/01/2024	01/02/2024	0.0	0.0	88.61	No	-	384.59	7.53	0.60	8.70	0.37	22.18	300.0	0.29
01/08/2024	01/09/2024	0.0	0.0	88.54	No	-	385.96	7.55	0.60	8.60	0.00	22.20	296.7	0.29
01/15/2024	01/16/2024	0.0	0.0	88.57	No	-	315.50	7.60	0.50	8.70	0.00	22.00	255.4	0.30

	RHP01 Headspace and Product Gauging						RHP01 Parameter Readings							
WEEK	**DATE**	**AMBIENT**	**HEADSPACE**	**Raw DTW**	**PRODUCT?**	**THICKNESS**	**TDS**	**pH**	**Sp. Cond.**	**D.O.**	**Turbidity**	**TEMP**	**ORP**	**SAL**
		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)	(ppm)		(mS/cm)	(mg/L)	(NTU)	(°C)	(mV)	(psu)
10/02/2023	10/04/2023	0.0	0.0	139.66	No	-	448.74	6.84	0.69	6.54	10.74	24.76	247.4	0.34
10/09/2023	10/09/2023	0.0	0.0	139.73	No	-	422.90	6.80	0.65	6.79	0.03	24.76	284.8	0.32
10/23/2023	10/25/2023	0.0	0.0	139.81	No	-	417.67	6.89	0.64	6.70	0.00	25.04	154.2	0.32
10/30/2023	11/01/2023	0.0	0.0	139.74	No	-	427.69	6.99	0.66	6.80	0.28	24.57	296.3	0.32
11/06/2023	11/06/2023	0.0	0.0	139.83	No	-	413.38	6.98	0.60	6.80	0.29	25.44	254.3	0.31
11/13/2023	11/13/2023	0.0	0.0	139.81	No	-	413.28	6.98	0.64	6.70	0.00	24.56	231.8	0.31
11/20/2023	11/20/2023	0.0	0.0	139.83	No	-	412.58	7.05	0.63	6.72	0.30	24.50	289.5	0.31
11/27/2023	11/29/2023	0.0	0.0	139.75	No	-	411.21	6.95	0.60	6.50	0.00	24.20	303.1	0.31
12/04/2023	12/04/2023	0.0	0.0	139.63	No	-	411.25	6.70	0.60	6.50	0.36	24.62	246.0	0.31
12/11/2023	12/11/2023	0.0	0.0	139.68	No	-	409.80	6.88	0.63	6.70	0.60	24.70	273.7	0.31
12/18/2023	12/18/2023	0.0	0.0	139.69	No	-	420.00	7.00	0.65	6.68	0.08	23.90	205.5	0.32
12/25/2023	12/26/2023	0.0	0.0	139.57	No	-	411.30	7.00	0.63	6.81	0.50	24.40	272.8	0.30
01/01/2024	01/02/2024	0.0	2.5	139.6	No	-	419.50	7.00	0.65	6.93	0.10	24.10	275.0	0.32
01/08/2024	01/08/2024	0.0	0.0	139.58	No	-	423.66	6.90	0.65	6.80	0.00	24.17	329.3	0.30
01/15/2024	01/15/2024	0.0	0.0	139.53	No	-	419.20	6.90	0.64	6.64	0.21	23.67	249.1	0.30

	RHP02 Headspace and Product Gauging	RHP02 Parameter Readings

Red Hill Bulk Fuel Storage Facility

WEEK	DATE	AMBIENT	HEADSPACE	Raw DTW	PRODUCT?	THICKNESS	TDS	pH	Sp. Cond.	D.O.	Turbidity	TEMP	ORP	SAL
		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)	(ppm)		(mS/cm)	(mg/L)	(NTU)	(°C)	(mV)	(psu)
10/02/2023	10/06/2023	0.0	0.9	122.66	No	-	472.51	7.20	0.73	0.84	1.29	25.83	212.7	0.36
10/09/2023	10/13/2023	0.0	0.0	122.75	No	-	461.46	6.87	0.71	7.25	0.17	25.11	291.7	0.35
10/23/2023	10/25/2023	0.0	0.0	122.8	No	-	477.81	6.66	0.74	7.42	0.00	25.30	205.7	0.36
10/30/2023	11/01/2023	0.0	0.0	122.7	No	-	484.64	6.79	0.75	7.71	0.41	25.46	321.2	0.37
11/06/2023	11/08/2023	0.0	0.0	122.73	No	-	473.87	6.92	0.70	7.70	0.30	24.76	255.1	0.36
11/13/2023	11/14/2023	0.0	0.0	122.78	No	-	479.28	6.94	0.74	7.71	0.00	24.61	204.2	0.36
11/20/2023	11/22/2023	0.0	0.0	122.78	No	-	464.96	6.84	0.72	7.69	0.00	24.58	298.6	0.40
11/27/2023	11/27/2023	0.0	0.0	122.73	No	-	461.50	6.91	0.71	8.11	0.06	24.41	273.8	0.35
12/04/2023	12/06/2023	0.0	0.0	122.58	No	-	473.51	6.93	0.70	7.70	0.42	24.59	271.1	0.36
12/11/2023	12/11/2023	0.0	0.0	122.56	No	-	456.99	6.97	0.70	8.08	0.00	24.40	274.7	0.35
12/18/2023	12/18/2023	0.0	0.0	122.57	No	-	470.00	7.00	0.72	7.68	0.10	24.00	268.5	0.40
12/25/2023	12/26/2023	0.0	0.0	122.46	No	-	460.21	7.00	0.70	7.81	0.20	24.10	261.7	0.35
01/01/2024	01/02/2024	0.0	0.0	122.49	No	-	469.90	6.91	0.70	7.80	0.09	24.48	284.6	0.40
01/08/2024	01/08/2024	0.0	0.0	122.37	No	-	474.07	6.90	0.73	7.70	0.00	24.32	312.5	0.40
01/15/2024	01/15/2024	0.0	0.0	122.37	No	-	469.50	6.90	0.70	8.00	0.09	24.04	267.8	0.40

	RHP03 Headspace and Product Gauging						RHP03 Parameter Readings							
WEEK	DATE	AMBIENT	HEADSPACE	Raw DTW	PRODUCT?	THICKNESS	TDS	pH	Sp. Cond.	D.O.	Turbidity	TEMP	ORP	SAL
		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)	(ppm)		(mS/cm)	(mg/L)	(NTU)	(°C)	(mV)	(psu)
10/02/2023	10/06/2023	0.0	0.0	119.39	No	-	681.21	6.95	1.05	4.64	11.15	25.37	277.0	0.52
10/09/2023	10/13/2023	0.0	0.0	119.43	No	-	672.50	7.35	1.03	4.27	0.13	25.41	195.9	0.52
10/23/2023	10/26/2023	0.0	0.0	119.45	No	-	722.52	7.33	1.11	4.40	0.20	25.44	271.3	0.56
10/30/2023	11/02/2023	0.0	0.0	119.43	No	-	715.42	7.21	1.10	4.43	0.54	25.24	252.7	0.55
11/06/2023	11/08/2023	0.0	0.0	119.46	No	-	683.81	7.29	1.10	4.50	0.36	24.64	219.5	0.53
11/13/2023	11/14/2023	0.0	0.0	119.52	No	-	687.99	7.33	1.06	4.58	0.00	24.70	156.9	0.53
11/20/2023	11/22/2023	0.0	0.0	119.48	No	-	669.79	7.29	1.03	4.67	0.00	24.39	254.7	0.52
11/27/2023	11/27/2023	0.0	0.0	119.44	No	-	668.30	7.40	1.03	5.09	0.15	24.39	236.8	0.51
12/04/2023	12/06/2023	0.0	0.0	119.34	No	-	694.93	7.29	1.10	4.80	0.12	24.47	171.0	0.54
12/11/2023	12/11/2023	0.0	0.0	119.32	No	-	665.64	7.32	1.02	5.30	0.10	24.43	225.2	0.51
12/18/2023	12/18/2023	0.0	0.0	119.31	No	-	684.60	7.39	1.05	4.91	0.10	23.90	192.3	0.53
12/25/2023	12/26/2023	0.0	0.0	119.26	No	-	673.20	7.30	1.04	4.95	0.30	24.10	217.6	0.50
01/01/2024	01/02/2024	0.0	0.0	119.28	No	-	673.54	7.36	1.04	5.01	0.00	24.40	274.0	0.52
01/08/2024	01/08/2024	0.0	0.0	119.24	No	-	697.60	7.30	1.07	5.00	0.00	24.10	257.1	0.50
01/15/2024	01/15/2024	0.0	0.0	119.17	No	-	696.90	7.30	1.10	4.90	0.20	24.00	168.8	0.50

Red Hill Bulk Fuel Storage Facility

	RHP04A Headspace and Product Gauging						RHP04A Parameter Readings							
WEEK	DATE	AMBIENT	HEADSPACE	Raw DTW	PRODUCT?	THICKNESS	TDS	pH	Sp. Cond.	D.O.	Turbidity	TEMP	ORP	SAL
		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)	(ppm)		(mS/cm)	(mg/L)	(NTU)	(°C)	(mV)	(psu)
10/02/2023	10/06/2023	0.0	0.0	140.34	No	-	615.94	7.40	0.95	3.19	0.11	25.87	176.2	0.47
10/09/2023	10/12/2023	0.0	0.0	140.37	No	-	597.94	7.52	0.92	3.54	0.39	25.83	137.0	0.46
10/23/2023	10/23/2023	0.0	0.0	140.1	No	-	601.92	7.38	0.93	3.51	0.00	26.52	193.4	0.46
10/30/2023	11/03/2023	0.0	0.1	140.43	No	-	621.24	7.47	0.96	3.61	0.18	25.61	250.5	0.48
11/06/2023	11/07/2023	0.0	0.0	140.4	No	-	612.25	7.50	0.90	3.60	0.12	25.89	172.7	0.47
11/13/2023	11/15/2023	0.0	0.0	140.43	No	-	597.69	7.47	0.92	4.27	0.00	25.13	228.7	0.46
11/20/2023	11/22/2023	0.5	0.0	140.41	No	-	612.70	7.40	0.94	3.68	0.31	26.12	170.8	0.47
11/27/2023	11/28/2023	0.0	0.0	140.36	No	-	612.30	7.50	0.94	3.59	0.80	25.40	210.4	0.47
12/04/2023	12/05/2023	1.0	3.0	140.27	No	-	601.96	7.46	0.90	3.80	0.07	25.29	181.7	0.46
12/11/2023	12/12/2023	0.0	0.0	140.26	No	-	582.20	7.49	0.90	4.47	1.86	25.50	237.0	0.45
12/18/2023	12/19/2023	0.0	0.0	140.29	No	-	608.10	7.50	0.90	3.70	9.49	24.96	222.0	0.47
12/25/2023	12/27/2023	0.0	0.0	140.16	No	-	593.35	7.44	0.90	4.10	0.90	24.60	227.9	0.45
01/01/2024	01/03/2024	0.0	0.0	140.17	No	-	629.30	7.50	0.97	3.73	4.91	26.39	191.8	0.50
01/08/2024	01/09/2024	0.0	0.0	140.1	No	-	597.17	7.36	0.90	3.80	0.23	25.20	112.4	0.50
01/15/2024	01/16/2024	0.0	0.0	140.08	No	-	617.02	7.20	1.00	4.20	1.36	25.64	228.6	0.50

	RHP04B Headspace and Product Gauging						RHP04B Parameter Readings							
WEEK	DATE	AMBIENT	HEADSPACE	Raw DTW	PRODUCT?	THICKNESS	TDS	pH	Sp. Cond.	D.O.	Turbidity	TEMP	ORP	SAL
		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)	(ppm)		(mS/cm)	(mg/L)	(NTU)	(°C)	(mV)	(psu)
10/02/2023	10/06/2023	0.0	0.3	139.48	No	-	421.42	7.86	0.65	0.15	0.20	25.89	-197.7	0.32
10/09/2023	10/12/2023	0.0	0.0	139.4	No	-	395.07	7.92	0.61	0.20	0.28	26.44	-270.5	0.30
10/23/2023	10/23/2023	0.1	0.0	139.57	No	-	386.10	7.76	0.59	0.18	0.00	26.01	-207.5	0.29
10/30/2023	11/03/2023	0.0	0.2	139.5	No	-	398.58	7.89	0.61	0.17	0.33	26.03	-185.3	0.30
11/06/2023	11/07/2023	0.0	0.0	139.52	No	-	388.14	7.93	0.60	0.20	0.08	25.70	-174.5	0.29
11/13/2023	11/15/2023	0.3	0.2	139.57	No	-	381.94	7.91	0.59	0.20	0.00	25.50	-158.0	0.29
11/20/2023	11/22/2023	0.5	0.0	139.54	No	-	388.23	7.87	0.60	0.20	0.79	25.28	-119.7	0.29
11/27/2023	11/28/2023	0.0	0.1	139.43	No	-	384.67	7.93	0.60	0.20	0.77	25.28	-73.4	0.29
12/04/2023	12/05/2023	0.3	0.4	139.4	No	-	375.65	7.94	0.60	0.20	0.08	25.03	-122.2	0.28
12/11/2023	12/12/2023	0.0	0.0	139.34	No	-	362.19	7.96	0.56	0.15	0.00	24.96	-140.1	0.27
12/18/2023	12/19/2023	0.0	0.0	139.36	No	-	377.30	8.10	0.58	0.20	0.30	25.21	-118.0	0.30
12/25/2023	12/27/2023	0.0	0.0	139.27	No	-	366.93	8.00	0.60	0.20	0.90	25.60	-83.2	0.30
01/01/2024	01/03/2024	0.0	0.0	139.29	No	-	391.20	8.01	0.60	0.30	0.00	25.80	-97.3	0.29
01/08/2024	01/09/2024	0.0	0.0	139.23	No	-	368.26	8.00	0.60	0.15	0.10	25.40	-215.7	0.30

01/15/2024	01/16/2024	0.0	4.5	139.19	No	-	373.60	8.00	0.57	0.25	0.00	25.50	-58.0	0.30

	RHP04C Headspace and Product Gauging						RHP04C Parameter Readings							
WEEK	**DATE**	**AMBIENT**	**HEADSPACE**	**Raw DTW**	**PRODUCT?**	**THICKNESS**	**TDS**	**pH**	**Sp. Cond.**	**D.O.**	**Turbidity**	**TEMP**	**ORP**	**SAL**
		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)	(ppm)		(mS/cm)	(mg/L)	(NTU)	(°C)	(mV)	(psu)
10/02/2023	10/06/2023	0.0	0.0	138.73	No	-	859.21	7.36	1.32	4.18	0.94	26.15	258.2	0.67
10/09/2023	10/13/2023	0.0	0.0	138.81	No	-	866.06	7.58	1.33	3.67	0.14	26.12	226.7	0.67
10/23/2023	10/25/2023	0.0	0.0	138.79	No	-	907.76	7.50	1.40	1.92	0.18	26.29	71.2	0.71
10/30/2023	11/01/2023	0.0	0.0	138.8	No	-	880.18	7.53	1.35	1.48	0.02	26.04	194.5	0.69
11/06/2023	11/06/2023	0.0	0.5	138.83	No	-	907.23	7.55	1.40	1.40	0.00	25.71	199.0	0.71
11/13/2023	11/15/2023	0.0	0.0	138.81	No	-	909.76	7.54	1.40	1.11	0.21	25.26	194.4	0.71
11/20/2023	11/20/2023	0.0	0.0	138.87	No	-	889.17	7.51	1.37	1.28	0.60	25.60	190.3	0.69
11/27/2023	11/29/2023	0.0	0.1	138.72	No	-	891.10	7.50	1.37	0.68	0.10	25.20	160.3	0.69
12/04/2023	12/04/2023	0.0	0.2	138.73	No	-	878.97	7.58	1.40	1.10	0.94	26.11	160.3	0.68
12/11/2023	12/13/2023	0.0	0.0	138.69	No	-	892.00	7.48	1.37	1.00	0.00	25.56	183.5	0.69
12/18/2023	12/20/2023	0.0	0.0	138.69	No	-	895.07	7.49	1.38	0.83	0.10	25.00	181.0	0.70
12/25/2023	12/28/2023	0.0	0.1	138.57	No	-	922.44	7.52	1.40	0.80	0.28	25.00	204.6	0.70
01/01/2024	01/05/2024	0.0	0.0	138.58	No	-	915.60	7.40	1.41	0.74	0.70	25.80	206.9	0.71
01/08/2024	01/10/2024	0.0	0.0	138.57	No	-	935.26	7.48	1.40	1.00	0.30	25.10	198.6	0.70
01/15/2024	01/17/2024	0.0	0.1	138.48	No	-	898.89	7.50	1.40	1.11	1.30	24.80	191.9	0.70

	RHP05 Headspace and Product Gauging						RHP05 Parameter Readings							
WEEK	**DATE**	**AMBIENT**	**HEADSPACE**	**Raw DTW**	**PRODUCT?**	**THICKNESS**	**TDS**	**pH**	**Sp. Cond.**	**D.O.**	**Turbidity**	**TEMP**	**ORP**	**SAL**
		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)	(ppm)		(mS/cm)	(mg/L)	(NTU)	(°C)	(mV)	(psu)
10/02/2023	10/02/2023	0.0	0.0	213.15	No	-	692.05	7.14	1.06	6.89	0.09	28.11	134.2	0.53
10/09/2023	10/13/2023	0.0	0.0	213.17	No	-	610.49	7.32	0.94	6.80	0.23	26.68	194.5	0.47
10/23/2023	10/26/2023	0.0	0.0	213.18	No	-	658.25	7.27	1.01	6.65	0.19	26.39	275.5	0.51
10/30/2023	11/02/2023	0.0	0.0	213.17	No	-	645.18	7.30	0.99	6.70	0.51	26.50	261.0	0.50
11/06/2023	11/08/2023	0.0	0.0	213.26	No	-	638.93	7.25	1.00	6.80	0.00	25.45	298.5	0.49
11/13/2023	11/15/2023	0.0	0.3	213.21	No	-	618.44	7.23	0.95	6.62	0.86	25.45	154.2	0.47
11/20/2023	11/22/2023	0.0	0.0	213.25	No	-	618.04	7.25	0.95	6.58	0.33	25.50	258.1	0.50
11/27/2023	11/29/2023	0.0	0.0	213.15	No	-	599.19	7.28	0.92	7.04	0.10	26.00	261.4	0.46
12/04/2023	12/06/2023	0.0	0.0	213.11	No	-	603.75	7.29	0.90	6.60	4.48	26.39	254.1	0.46
12/11/2023	12/13/2023	0.0	0.0	213.11	No	-	615.79	7.30	0.95	6.56	0.00	25.60	257.7	0.47
12/18/2023	12/20/2023	0.0	0.0	213.04	No	-	626.44	7.27	1.00	6.70	0.00	25.16	217.6	0.50
12/25/2023	12/28/2023	0.0	0.0	212.97	No	-	614.20	7.26	0.94	6.74	0.40	25.00	292.6	0.47
01/01/2024	01/03/2024	0.0	0.0	212.9	No	-	627.79	7.12	1.00	7.40	3.62	26.61	261.4	0.50

01/08/2024	01/10/2024	0.0	0.0	212.9	No	-	628.12	6.90	1.00	6.81	0.80	25.30	276.8	0.48
01/15/2024	01/17/2024	0.0	0.0	212.94	No	-	623.00	7.30	0.96	6.70	0.30	25.58	215.9	0.50

	RHP06 Headspace and Product Gauging						RHP06 Parameter Readings							
WEEK	**DATE**	**AMBIENT**	**HEADSPACE**	**Raw DTW**	**PRODUCT?**	**THICKNESS**	**TDS**	**pH**	**Sp. Cond.**	**D.O.**	**Turbidity**	**TEMP**	**ORP**	**SAL**
		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)	(ppm)		(mS/cm)	(mg/L)	(NTU)	(°C)	(mV)	(psu)
10/02/2023	10/02/2023	0.0	0.0	253.61	No	-	772.76	7.16	1.19	7.05	1.48	26.26	122.2	0.60
10/09/2023	10/11/2023	0.0	0.0	253.6	No	-	696.11	7.61	1.07	7.16	0.94	25.94	262.0	0.54
10/23/2023	10/27/2023	0.0	0.2	253.6	No	-	724.18	7.20	1.11	7.15	0.60	25.99	305.0	0.56
10/30/2023	11/02/2023	0.0	0.0	253.66	No	-	688.57	7.06	1.06	7.18	0.26	25.93	276.7	0.53
11/06/2023	11/08/2023	0.0	0.0	253.69	No	-	718.52	7.08	1.10	7.60	1.80	25.92	312.7	0.55
11/13/2023	11/15/2023	0.0	44.1	253.65	No	-	695.34	7.21	1.07	7.08	0.80	25.82	160.0	0.54
11/20/2023	11/22/2023	0.0	0.0	253.69	No	-	696.69	7.13	1.07	7.15	0.36	25.52	277.1	0.54
11/27/2023	11/29/2023	0.0	0.0	253.61	No	-	661.39	7.05	1.02	7.38	0.00	25.35	275.3	0.51
12/04/2023	12/06/2023	0.0	0.0	253.59	No	-	679.64	7.51	1.10	7.30	0.38	25.39	248.8	0.52
12/11/2023	12/13/2023	0.0	0.0	253.56	No	-	685.74	7.41	1.05	7.20	1.60	25.88	260.3	0.53
12/18/2023	12/20/2023	0.0	0.0	253.43	No	-	679.60	7.05	1.10	7.30	0.00	25.03	270.9	0.50
12/25/2023	12/28/2023	0.0	0.0	253.43	No	-	646.80	7.00	1.00	7.20	0.80	25.40	315.8	0.50
01/01/2024	01/02/2024	0.0	0.4	253.4	No	-	656.95	7.05	1.01	7.16	0.30	25.90	278.3	0.50
01/08/2024	01/08/2024	0.3	0.5	253.39	No	-	675.31	7.00	1.00	7.60	0.00	25.22	245.1	0.50
01/15/2024	01/17/2024	0.0	0.0	253.39	No	-	657.50	7.20	1.00	7.20	0.80	25.24	267.7	0.50

	RHP07 Headspace and Product Gauging						RHP07 Parameter Readings							
WEEK	**DATE**	**AMBIENT**	**HEADSPACE**	**Raw DTW**	**PRODUCT?**	**THICKNESS**	**TDS**	**pH**	**Sp. Cond.**	**D.O.**	**Turbidity**	**TEMP**	**ORP**	**SAL**
		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)	(ppm)		(mS/cm)	(mg/L)	(NTU)	(°C)	(mV)	(psu)
10/02/2023	10/05/2023	0.0	0.0	83.56	No	-	386.21	7.31	0.59	7.91	0.00	23.21	271.0	0.29
10/09/2023	10/10/2023	0.0	0.0	83.64	No	-	389.58	7.27	0.60	7.98	0.05	23.40	282.1	0.29
10/16/2023	10/17/2023	0.0	0.0	83.54	No	-	383.20	7.42	0.59	7.83	0.24	23.28	108.9	0.29
10/23/2023	10/24/2023	0.0	0.0	83.55	No	-	373.04	7.37	0.57	8.34	0.16	23.40	228.5	0.28
10/30/2023	10/31/2023	0.0	0.1	83.54	No	-	383.03	7.41	0.59	7.90	0.00	23.33	295.1	0.29
11/06/2023	11/10/2023	0.0	0.0	83.59	No	-	383.65	7.41	0.60	8.00	0.13	23.45	276.1	0.29
11/13/2023	11/14/2023	0.0	0.0	83.86	No	-	388.05	7.34	0.60	8.14	0.99	23.34	299.6	0.29
11/20/2023	11/21/2023	0.0	0.0	83.67	No	-	364.20	7.40	0.56	7.98	0.39	23.18	213.5	0.27
11/27/2023	11/28/2023	0.0	0.0	83.53	No	-	373.40	7.40	0.60	7.90	0.11	23.33	269.4	0.28
12/04/2023	12/05/2023	0.0	0.0	83.43	No	-	367.09	7.31	0.60	8.20	0.06	23.46	269.5	0.28
12/11/2023	12/12/2023	0.0	0.0	83.4	No	-	354.70	7.32	0.55	8.15	0.04	23.40	278.6	0.27
12/18/2023	12/22/2023	0.0	0.0	83.33	No	-	362.13	7.30	0.60	8.13	0.00	23.19	252.3	0.30

12/25/2023	12/29/2023	0.0	0.2	83.32	No	-	391.03	7.33	0.60	8.30	0.10	23.40	267.9	0.30
01/01/2024	01/02/2024	0.0	0.0	83.33	No	-	363.10	7.30	0.56	8.29	0.00	23.13	312.2	0.30
01/08/2024	01/09/2024	0.0	0.7	83.22	No	-	379.95	7.20	0.60	8.20	0.58	23.38	320.1	0.30
01/15/2024	01/16/2024	0.0	0.1	83.12	No	-	378.07	7.30	0.60	7.90	0.50	23.44	319.2	0.30

	RHP08 Headspace and Product Gauging						RHP08 Parameter Readings							
WEEK	**DATE**	**AMBIENT**	**HEADSPACE**	**Raw DTW**	**PRODUCT?**	**THICKNESS**	**TDS**	**pH**	**Sp. Cond.**	**D.O.**	**Turbidity**	**TEMP**	**ORP**	**SAL**
		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)	(ppm)		(mS/cm)	(mg/L)	(NTU)	(°C)	(mV)	(psu)
10/02/2023	10/03/2023	0.1	0.5	285.76	No	-	417.86	7.77	0.64	4.30	0.65	26.35	150.3	0.32
10/09/2023	10/11/2023	0.0	0.4	285.84	No	-	429.04	7.77	0.66	4.49	1.42	25.65	216.5	0.32
10/23/2023	10/27/2023	0.0	0.5	285.79	No	-	442.26	7.75	0.68	5.10	0.82	25.56	248.0	0.33
10/30/2023	11/02/2023	0.0	0.0	285.82	No	-	416.43	7.76	0.64	5.33	0.65	26.21	216.7	0.31
11/06/2023	11/06/2023	0.0	0.5	285.82	No	-	425.34	7.72	0.70	5.30	0.00	25.79	227.1	0.32
11/13/2023	11/13/2023	0.0	0.0	285.86	No	-	418.99	7.74	0.64	5.79	0.00	25.43	224.7	0.32
11/20/2023	11/21/2023	0.0	0.0	285.86	No	-	421.66	7.65	0.70	5.50	0.98	25.01	151.7	0.32
11/27/2023	11/29/2023	0.3	0.3	285.73	No	-	403.16	7.68	0.60	5.90	0.63	24.72	205.5	0.30
12/04/2023	12/05/2023	0.0	0.0	285.72	No	-	412.91	7.69	0.60	5.70	5.37	24.91	203.6	0.31
12/11/2023	12/13/2023	0.0	0.0	285.7	No	-	408.61	7.72	0.63	5.69	0.58	25.14	212.7	0.31
12/18/2023	12/20/2023	0.0	0.0	285.67	No	-	402.98	7.66	0.60	6.00	0.70	24.50	172.2	0.30
12/25/2023	12/28/2023	0.0	0.0	285.64	No	-	399.10	7.71	0.60	5.90	1.10	24.80	190.8	0.30
01/01/2024	01/02/2024	0.0	0.0	285.69	No	-	397.29	7.72	0.60	6.20	1.38	24.74	229.9	0.30
01/08/2024	01/10/2024	0.0	0.0	285.52	No	-	415.54	7.70	0.64	5.91	1.10	24.90	229.2	0.30
01/15/2024	01/15/2024	0.0	0.3	285.48	No	-	420.31	7.70	0.70	6.00	0.70	24.50	211.3	0.30

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Notes:

NC - Not collected

NM = No measurement taken, due to equipment installed in well.

°C = degrees Celsius

DTW = Depth-to-water

ft = feet

ft btoc = feet below top of casing

- = Not applicable / no data available

mg/L = milligrams per liter

mS/cm = microsiemens per centimeter

mV - millivolts

NTU = nephelometric turbidity unit

ppmv = parts-per-million by volume

psu = practical salinity unit

Per the Defueling GWPP, Primary release detection well samples collected after 10/16/2023 are defueling samples.

Depth to water measurements correction factors for Solinst groundwater-level measuring tapes N-1 through N-6 using the USGS calibration results are published in letters titled “Results from Calibration of Groundwater-Level Measuring Tapes” dated January 24, 2020 (N-1 and N-2) and December 14, 2022 (N 1, N-2, N-3, N-4, N 5 and N-6). Depth to water measurements correction factors for horizontal well displacement are derived from gyroscopic survey results for wells RHMW01R through RHMW19, OWDFMW01 through OWDFMW08A, HDMW2253-03, NMW24, RHP01 through RHP04A, RHP04C, and RHP07 and are pending results for wells RHMW20, RHP04B, and RHP05. Groundwater-level measuring tape and horizontal displacement correction factors for N-1 through N-6 for all wells are shown on “Correction Factor Tables”.

All Westbay Wells - Westbay is a closed system and the sample port is not located at the water's surface, therefore free product will not be captured or observed. Headspace is measured from Westbay wells for almost all canister pulls. The highest reading measured for each sample is shown in this spreadsheet. Samples collected from Westbay wells are observed for free product during collection and will be noted.

RHP01 - 06/16/2023: Well added as part of the consolidated groundwater sampling program

RHP02 - 06/16/2023: Well added as part of the consolidated groundwater sampling program

RHP03 - 06/16/2023: Well added as part of the consolidated groundwater sampling program

RHP04A - 06/14/2023: Well added as part of the consolidated groundwater sampling program

RHP04B - 06/14/2023: Well added as part of the consolidated groundwater sampling program

RHP04C - 06/16/2023: Well added as part of the consolidated groundwater sampling program

RHP05 - 06/16/2023: Well added as part of the consolidated groundwater sampling program

RHP06 - 07/24/2023: Well added as part of the consolidated groundwater sampling program

RHP07 - 06/15/2023: Well added as part of the consolidated groundwater sampling program

RHP08 - 09/11/2023: Well added as part of the consolidated groundwater sampling program

NMW24 - 06/07/2023: Well added as part of the consolidated groundwater sampling program

NMW25 - 07/26/2023: Well added as part of the consolidated groundwater sampling program

NMW32 - 08/29/2023: Well added as part of the consolidated groundwater sampling program

RHMW03 - 09/07/2023: AquaTroll turbidity sensor wiper not turned on or missing causing bubbles to accumulate on the turbidity sensor and affecting parameter accuracy.

RHMW10 - 06/12/2023: Well added as part of the consolidated groundwater sampling program

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RHMW10- 12/13/2023: AquaTroll specific conductivity/TDS/salinity sensor malfunction resulting in loss of recordable data. Parameter stabilization criteria met prior to sampling.

RHMW13 Zone 5 - 09/05/2023: Temperature reading higher than expected due to issue with temperature sensor.

RHMW12A - All readings: Well screen is submerged and does not span the water's surface, therefore free product will not be captured or observed. Wells with submerged screens have a one-time bailer sample collected to verfiy no free product at the waters surface.

RHMW16 - All readings: Well screen is submerged and does not span the water's surface, therefore free product will not be captured or observed. Wells with submerged screens have a one-time bailer sample collected to verfiy no free product at the waters surface.

RHMW20 - 06/14/2023: Well added as part of the consolidated groundwater sampling program

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Tape Correction

Serial Number	Calibration Date	Beginning Depth (ft)	End Depth (ft)	Correction (ft)
N-1	2017	0.00	6.41	0.00
N-1	2017	6.42	14.02	0.00
N-1	2017	14.03	52.17	-0.01
N-1	2017	52.18	90.33	-0.02
N-1	2017	90.34	128.49	-0.03
N-1	2017	128.50	166.64	-0.04
N-1	2017	166.65	204.80	-0.05
N-1	2017	204.81	242.96	-0.06
N-1	2017	242.97	392.45	-0.07
N-1	2017	392.46	500.00	-0.07
N-2	2017	0.00	6.40	0.01
N-2	2017	6.41	8.23	0.01
N-2	2017	8.24	80.71	0.00
N-2	2017	80.72	161.31	-0.01
N-2	2017	161.32	253.61	-0.02
N-2	2017	253.62	364.91	-0.03
N-2	2017	364.92	516.53	-0.04
N-2	2017	516.54	593.17	-0.05
N-2	2017	593.18	764.02	-0.05
N-2	2017	764.03	1000.00	-0.06
N-1	2019	0.00	6.30	0.00
N-1	2019	6.31	29.17	0.00
N-1	2019	29.18	108.72	-0.01
N-1	2019	108.73	188.27	-0.02
N-1	2019	188.28	267.83	-0.03
N-1	2019	267.84	347.38	-0.04
N-1	2019	347.39	392.07	-0.05
N-1	2019	392.08	426.93	-0.05
N-1	2019	426.94	500.00	-0.06
N-2	2019	0.00	6.29	0.00
N-2	2019	6.30	48.47	0.00

N-2	2019	48.48	113.38	-0.01
N-2	2019	113.39	181.28	-0.02
N-2	2019	181.29	252.63	-0.03
N-2	2019	252.64	328.02	-0.04
N-2	2019	328.03	408.23	-0.05
N-2	2019	408.24	494.31	-0.06
N-2	2019	494.32	587.79	-0.07
N-2	2019	587.80	592.86	-0.08
N-2	2019	592.87	690.98	-0.08
N-2	2019	690.99	807.72	-0.09
N-2	2019	807.73	945.40	-0.10
N-2	2019	945.41	1000.00	-0.11
N-1	2022	0.00	18.17	0.01
N-1	2022	18.18	24.44	0.01
N-1	2022	24.45	49.50	0.00
N-1	2022	49.51	74.57	-0.01
N-1	2022	74.58	99.64	-0.02
N-1	2022	99.65	124.71	-0.03
N-1	2022	124.72	149.78	-0.04
N-1	2022	149.79	174.84	-0.05
N-1	2022	174.85	199.91	-0.06
N-1	2022	199.92	224.98	-0.07
N-1	2022	224.99	250.05	-0.08
N-1	2022	250.06	275.11	-0.09
N-1	2022	275.12	393.17	-0.10
N-1	2022	393.18	500.00	-0.10
N-2	2022	0.00	7.39	-0.01
N-2	2022	7.40	18.18	-0.02
N-2	2022	18.19	28.82	-0.02
N-2	2022	28.83	51.17	-0.03
N-2	2022	51.18	74.58	-0.04
N-2	2022	74.59	99.21	-0.05
N-2	2022	99.22	125.27	-0.06

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N-2	2022	125.28	153.06	-0.07
N-2	2022	153.07	182.96	-0.08
N-2	2022	182.97	215.55	-0.09
N-2	2022	215.56	251.71	-0.10
N-2	2022	251.72	292.97	-0.11
N-2	2022	292.98	342.39	-0.12
N-2	2022	342.40	408.44	-0.13
N-2	2022	408.45	685.51	-0.14
N-2	2022	685.52	751.56	-0.13
N-2	2022	751.57	800.98	-0.12
N-2	2022	800.99	831.56	-0.11
N-2	2022	831.57	842.44	-0.11
N-2	2022	842.45	882.26	-0.10
N-2	2022	882.27	922.08	-0.09
N-2	2022	922.09	961.90	-0.08
N-2	2022	961.91	1000.00	-0.07
N-3	2022	0.00	7.03	0.00
N-3	2022	7.04	18.18	-0.01
N-3	2022	18.19	20.83	-0.01
N-3	2022	20.84	35.47	-0.02
N-3	2022	35.48	51.15	-0.03
N-3	2022	51.16	68.11	-0.04
N-3	2022	68.12	86.74	-0.05
N-3	2022	86.75	107.64	-0.06
N-3	2022	107.65	131.96	-0.07
N-3	2022	131.97	162.22	-0.08
N-3	2022	162.23	208.21	-0.09
N-3	2022	208.22	308.99	-0.10
N-3	2022	309.00	354.98	-0.09
N-3	2022	354.99	385.24	-0.08
N-3	2022	385.25	393.15	-0.07
N-3	2022	393.16	410.56	-0.07
N-3	2022	410.57	435.64	-0.06

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N-3	2022	435.65	460.72	-0.05
N-3	2022	460.73	485.80	-0.04
N-3	2022	485.81	500.00	-0.03
N-4	2022	0.00	0.48	-0.01
N-4	2022	0.49	11.83	-0.02
N-4	2022	11.84	18.19	-0.03
N-4	2022	18.20	23.66	-0.03
N-4	2022	23.67	36.04	-0.04
N-4	2022	36.05	49.06	-0.05
N-4	2022	49.07	62.83	-0.06
N-4	2022	62.84	77.49	-0.07
N-4	2022	77.50	93.25	-0.08
N-4	2022	93.26	110.39	-0.09
N-4	2022	110.40	129.36	-0.10
N-4	2022	129.37	150.90	-0.11
N-4	2022	150.91	176.49	-0.12
N-4	2022	176.50	209.96	-0.13
N-4	2022	209.97	368.42	-0.14
N-4	2022	368.43	393.21	-0.13
N-4	2022	393.22	402.24	-0.13
N-4	2022	402.25	433.12	-0.12
N-4	2022	433.13	463.99	-0.11
N-4	2022	464.00	494.86	-0.10
N-4	2022	494.87	500.00	-0.09
N-5	2022	0.00	3.66	0.03
N-5	2022	3.67	18.14	0.02
N-5	2022	18.15	32.69	0.02
N-5	2022	32.70	64.83	0.01
N-5	2022	64.84	101.37	0.00
N-5	2022	101.38	144.83	-0.01
N-5	2022	144.84	201.87	-0.02
N-5	2022	201.88	393.11	-0.03
N-5	2022	393.12	500.00	-0.03

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N-6	2022	0.00	6.02	-0.03
N-6	2022	6.03	18.20	-0.04
N-6	2022	18.21	37.84	-0.04
N-6	2022	37.85	72.83	-0.05
N-6	2022	72.84	112.18	-0.06
N-6	2022	112.19	158.10	-0.07
N-6	2022	158.11	215.65	-0.08
N-6	2022	215.66	305.93	-0.09
N-6	2022	305.94	393.17	-0.10
N-6	2022	393.18	750.00	-0.10

Tape calibration conducted by USGS on: September 13 - 15, 2017; September 11 - 13, 2019; and September 20 - 22, 2022

Tape Correction for Week of September 19, 2022

Well	Rental Oil/Water Interface Probe SN	Rental Oil/Water Interface Probe DTW (ft)	Reference Oil/Water Interface Probe SN	Reference Oil/Water Interface Probe DTW (ft)	Oil/Water Interface Probe Offset (ft)
RHMW01R	01-8854	83.80	N-3	83.78	-0.02
RHMW02	01-8854	86.70	N-3	86.69	-0.01
RHMW03	01-8854	102.93	N-3	102.90	-0.03
RHMW04	01-8854	294.30	N-5	294.10	-0.20
RHMW05	01-8854	83.40	N-3	83.40	0.00
RHMW06	01-8854	241.25	N-5	241.09	-0.16
RHMW08	01-8854	292.81	N-5	292.61	-0.20
RHMW09	01-8607	378.09	N-3	377.77	-0.32
RHMW12A	01-8854	220.85	N-4	220.81	-0.04
RHMW16	01-8854	202.07	N-4	202.01	-0.06
RHMW17	01-8854	234.51	N-3	234.41	-0.10
RHMW19	01-8607	427.27	N-3	426.90	-0.37
RHMW2254-01	01-8859	88.45	N-3	88.51	0.06
OWDFMW01	287303	120.49	N-3	120.38	-0.11
OWDFMW04A	25142	149.17	N-4	149.16	-0.01
OWDFMW05A	25142	100.98	N-4	100.98	0.00
OWDFMW07A	25142	101.77	N-4	101.77	0.00
OWDFMW08A	25142	115.93	N-4	115.93	0.00

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Monitoring Well Horizontal Displacement

Well	Horizontal Displacement Correction (ft)
RHMW01	None
RHMW01R	-0.06
RHMW02	-0.06
RHMW03	-0.04
RHMW04	-0.02
RHMW05	-0.01
RHMW06	-0.01
RHMW07	-0.01
RHMW08	-0.03
RHMW09	-0.24
RHMW10	-0.09
RHMW12A	-0.06
RHMW16	-0.90
RHMW17	-0.01
RHMW19	-0.21
RHMW20	pending
RHMW2254-01	NA
OWDFMW01	-0.03
OWDFMW04A	-0.03
OWDFMW05A	-0.03
OWDFMW07A	-0.08
OWDFMW08A	-0.08
HDMW2253-03	-0.01
NMW24	-0.06
NMW25	pending
NMW32	pending
NMW33	pending
NMW30	pending
RHP01	-0.04
RHP02	-0.02

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RHP03	-0.02
RHP04A	-0.04
RHP04B	pending
RHP04C	-0.02
RHP05	pending
RHP06	pending
RHP07	0.00
RHP08	pending

Not all wells currently have horizontal displacement correction factors. Horizontal displacement corrections will be updated once available.

Horizontal displacement cannot be calculated for RHMW01. RHMW01 is a 1-inch well, which is too narrow for the gyroscopic survey tool.

Appendix B.2.2 – Monitoring Well Water Level Measurements

Appendix B.2.2 Groundwater Elevation Data

Location	Measurement Date	Measuring Point Elevation*	Depth to Water from TOC (Feet BMP)	Measuring Tape Correction Factor [Tape ID] (ft)	Well Displacement Correction Factor (ft)	Corrected Depth to Water (ft btoc)	Groundwater Elevation (ft msl)
HDMW2253-03	09/05/2023	226.68	208.30	-0.08 [N-6]	—	208.22	18.46
	10/03/2023	226.68	208.37	-0.08 [N-6]	—	208.29	18.39
	11/07/2023	226.68	208.51	-0.13 [N-4]	—	208.38	18.3
	12/08/2023	226.68	208.33	-0.03 [N-5]	—	208.30	18.38
	12/15/2023	226.68	208.33	-0.03 [N-5]	—	208.30	18.38
	01/05/2024	226.68	208.29	-0.08 [N-6]	—	208.21	18.47
NMW24	09/08/2023	107.18	91.07	-0.08 [N-4]	—	90.99	16.19
	10/02/2023	107.18	91.06	0.00 [N-5]	—	91.06	16.12
	10/13/2023	107.18	91.13	0.00 [N-5]	-0.06	91.07	16.11
	11/09/2023	107.18	91.17	-0.06 [N-3]	-0.06	91.05	16.13
	12/08/2023	107.18	90.97	-0.06 [N-6]	-0.06	90.85	16.33
	01/04/2024	107.18	90.93	-0.06 [N-3]	-0.06	90.81	16.37
NMW25	09/07/2023	208.43	190.84	-0.08 [N-6]	—	190.76	17.67
	10/02/2023	208.43	190.89	-0.02 [N-5]	—	190.87	17.56
	10/13/2023	208.43	190.94	-0.02 [N-5]	—	190.92	17.51
	11/09/2023	208.43	190.99	-0.08 [N-6]	—	190.91	17.52
	12/07/2023	208.43	190.85	-0.09 [N-3]	—	190.76	17.67
	01/04/2024	208.43	190.73	-0.09 [N-3]	—	190.64	17.79
NMW30	10/19/2023	308.85	291.65	-0.03 [N-5]	—	291.62	17.23
	11/09/2023	308.85	291.71	-0.03 [N-5]	—	291.68	17.17
	12/07/2023	308.85	291.54	-0.10 [N-3]	—	291.44	17.41
	01/04/2024	308.85	291.45	-0.03 [N-5]	—	291.42	17.43
NMW32	09/13/2023	188.27	170.68	-0.02 [N-5]	—	170.66	17.61
	10/10/2023	188.27	170.88	-0.09 [N-3]	—	170.79	17.48
	10/03/2023	188.27	170.79	-0.02 [N-5]	—	170.77	17.5
	11/10/2023	188.27	170.90	-0.02 [N-5]	—	170.88	17.39
	12/08/2023	188.27	170.77	-0.08 [N-6]	—	170.69	17.58
	01/04/2024	188.27	170.66	-0.02 [N-5]	—	170.64	17.63
NMW33	10/03/2023	130.76	118.92	-0.01 [N-5]	—	118.91	11.85
	10/09/2023	130.76	119.00	-0.07 [N-3]	—	118.93	11.83
	11/10/2023	130.76	117.32	-0.01 [N-5]	—	117.31	13.45

Location	Measurement Date	Measuring Point Elevation*	Depth to Water from TOC (Feet BMP)	Measuring Tape Correction Factor [Tape ID] (ft)	Well Displacement Correction Factor (ft)	Corrected Depth to Water (ft btoc)	Groundwater Elevation (ft msl)
	12/08/2023	130.76	117.41	-0.01 [N-5]	—	117.40	13.36
	01/05/2024	130.76	117.57	-0.01 [N-5]	—	117.56	13.2
RHMW01R	06/15/2023	101.76	83.72	-0.05 [N-3]	-0.06	83.61	18.15
	09/05/2023	101.76	84.16	-0.08 [N-4]	-0.06	84.02	17.74
	10/04/2023	101.76	83.28	-0.08 [N-4]	-0.06	83.14	18.62
	10/12/2023	101.76	84.33	-0.08 [N-4]	-0.06	84.19	17.57
	10/17/2023	101.76	83.34	-0.08 [N-4]	-0.06	83.20	18.56
	10/24/2023	101.76	84.35	-0.08 [N-4]	-0.06	84.21	17.55
	11/7/2023	101.76	84.34	0.00 [N-5]	-0.06	84.28	17.48
	10/31/2023	101.76	84.31	-0.06 [N-6]	-0.06	84.19	17.57
	11/06/2023	101.76	84.39	-0.08 [N-4]	-0.06	84.25	17.51
	11/7/2023	101.76	84.34	0.00 [N-5]	-0.06	84.28	17.48
	11/13/2023	101.76	84.34	-0.05 [N-3]	-0.06	84.23	17.53
	11/24/2023	101.76	84.31	0.00 [N-5]	-0.06	84.25	17.51
	12/1/2023	101.76	84.31	-0.08 [N-4]	-0.06	84.17	17.59
	12/08/2023	101.76	84.21	-0.08 [N-4]	-0.06	84.07	17.69
	12/15/2023	101.76	84.19	-0.05 [N-3]	-0.06	84.08	17.68
	12/19/2023	101.76	84.19	0.00 [N-5]	-0.06	84.13	17.63
	12/26/2023	101.76	84.12	0.00 [N-5]	-0.06	84.06	17.7
	01/05/2024	101.76	84.15	-0.08 [N-4]	-0.06	84.01	17.75
	1/12/2024	101.76	84.08	-0.05 [N-3]	-0.06	83.97	17.79
	1/19/2024	101.76	84.07	-0.08 [N-4]	-0.06	83.93	17.83
RHMW02	6/15/2023	104.60	86.59	-0.05 [N-3]	-0.06	86.48	18.12
	09/07/2023	104.60	87.08	-0.08 [N-4]	-0.06	86.94	17.66
	10/06/2023	104.60	87.22	-0.08 [N-4]	-0.06	87.08	17.52
	10/09/2023	104.60	87.22	-0.08 [N-4]	-0.06	87.08	17.52
	10/20/2023	104.60	87.23	-0.08 [N-4]	-0.06	87.09	17.51
	10/27/2023	104.60	87.26	-0.08 [N-4]	-0.06	87.12	17.48
	11/3/2023	104.60	87.27	-0.08 [N-4]	-0.06	87.13	17.47
	11/07/2023	104.60	87.22	0.00 [N-5]	-0.06	87.16	17.44
	11/17/2023	104.60	87.25	-0.08 [N-4]	-0.06	87.11	17.49
	11/21/2023	104.60	87.29	-0.05 [N-3]	-0.06	87.18	17.42

Location	Measurement Date	Measuring Point Elevation*	Depth to Water from TOC (Feet BMP)	Measuring Tape Correction Factor [Tape ID] (ft)	Well Displacement Correction Factor (ft)	Corrected Depth to Water (ft btoc)	Groundwater Elevation (ft msl)
	12/1/2023	104.60	87.19	-0.08 [N-4]	-0.06	87.05	17.55
	12/08/2023	104.60	87.08	-0.08 [N-4]	-0.06	86.94	17.66
	12/15/2023	104.60	87.08	-0.05 [N-3]	-0.06	86.97	17.63
	12/19/2023	104.60	87.19	0.00 [N-5]	-0.06	87.13	17.47
	12/26/2023	104.60	87.02	0.00 [N-5]	-0.06	86.96	17.64
	01/05/2024	104.60	87.05	-0.08 [N-4]	-0.06	86.91	17.69
	1/12/2024	104.60	86.95	-0.05 [N-3]	-0.06	86.84	17.76
	1/19/2024	104.60	86.98	-0.08 [N-4]	-0.06	86.84	17.76
RHMW03	06/14/2023	120.90	102.78	-0.06 [N-3]	-0.04	102.68	18.22
	09/07/2023	120.90	103.31	-0.09 [N-4]	-0.04	103.18	17.72
	10/06/2023	120.90	103.43	-0.09 [N-4]	-0.04	103.30	17.6
	10/09/2023	120.9	103.45	-0.09 [N-4]	-0.04	103.32	17.58
	10/20/2023	120.90	103.44	-0.09 [N-4]	-0.04	103.31	17.59
	10/27/2023	120.90	103.48	-0.09 [N-4]	-0.04	103.35	17.55
	11/3/2023	120.90	103.5	-0.09 [N-4]	-0.04	103.37	17.53
	11/10/2023	120.90	103.47	-0.09 [N-4]	-0.04	103.34	17.56
	11/17/2023	120.90	103.44	-0.01 [N-5]	-0.04	103.39	17.51
	11/21/2023	120.90	103.48	-0.06 [N-3]	-0.04	103.38	17.52
	11/28/2023	120.90	103.4	-0.01 [N-5]	-0.04	103.35	17.55
	12/08/2023	120.90	103.29	-0.09 [N-4]	-0.04	103.16	17.74
	12/12/2023	120.90	103.33	-0.06 [N-6]	-0.04	103.23	17.67
	12/26/2023	120.90	103.29	-0.09 [N-4]	-0.04	103.16	17.74
	01/02/2024	120.90	103.28	-0.01 [N-5]	-0.04	103.23	17.67
	1/9/2024	120.90	103.19	-0.01 [N-5]	-0.04	103.14	17.76
	1/16/2024	120.90	103.17	-0.09 [N-4]	-0.04	103.04	17.86
RHMW04	06/14/2023	312.11	294.14	-0.14 [N-4]	-0.02	293.98	18.13
	09/08/2023	312.11	294.58	-0.03 [N-5]	-0.02	294.53	17.58
	10/06/2023	312.11	294.71	-0.09 [N-6]	-0.02	294.60	17.51
	10/13/2023	312.11	294.74	-0.14 [N-4]	-0.02	294.58	17.53
	11/07/2023	312.11	294.76	-0.09 [N-6]	-0.02	294.65	17.46

Location	Measurement Date	Measuring Point Elevation*	Depth to Water from TOC (Feet BMP)	Measuring Tape Correction Factor [Tape ID] (ft)	Well Displacement Correction Factor (ft)	Corrected Depth to Water (ft btoc)	Groundwater Elevation (ft msl)
	11/13/2023	312.11	294.81	-0.14 [N-4]	-0.02	294.65	17.46
	11/20/2023	312.11	294.76	-0.03 [N-5]	-0.02	294.71	17.4
	12/05/2023	312.11	294.71	-0.14 [N-4]	-0.02	294.55	17.56
	12/11/2023	312.11	294.64	-0.14 [N-4]	-0.02	294.48	17.63
	12/18/2023	312.11	294.65	-0.14 [N-4]	-0.02	294.49	17.62
	12/27/2023	312.11	294.54	-0.09 [N-6]	-0.02	294.43	17.68
	01/02/2024	312.11	294.51	-0.10 [N-3]	-0.02	294.39	17.72
	1/8/2024	312.11	294.45	-0.10 [N-3]	-0.02	294.33	17.78
	1/15/2024	312.11	294.42	-0.03 [N-5]	-0.02	294.37	17.74
RHMW05	06/15/2023	101.31	83.29	-0.08 [N-4]	-0.01	83.20	18.11
	09/05/2023	101.31	83.74	-0.08 [N-4]	-0.01	83.65	17.66
	10/04/2023	101.31	83.90	-0.08 [N-4]	-0.01	83.81	17.5
	10/10/2023	101.31	83.95	-0.08 [N-4]	-0.01	83.86	17.45
	10/17/2023	101.31	83.88	0.00 [N-5]	-0.01	83.87	17.44
	10/24/2023	101.31	83.91	-0.05 [N-3]	-0.01	83.85	17.46
	10/31/2023	101.31	83.91	-0.08 [N-4]	-0.01	83.82	17.49
	11/10/2023	101.31	83.93	-0.05 [N-3]	-0.01	83.87	17.44
	11/14/2023	101.31	83.92	0.00 [N-5]	-0.01	83.91	17.4
	11/21/2023	101.31	83.99	-0.08 [N-4]	-0.01	83.90	17.41
	11/28/2023	101.31	83.9	-0.08 [N-4]	-0.01	83.81	17.5
	12/05/2023	101.31	83.80	0.00 [N-5]	-0.01	83.79	17.52
	12/12/2023	101.31	83.77	-0.05 [N-3]	-0.01	83.71	17.6
	12/22/2023	101.31	83.75	-0.08 [N-4]	-0.01	83.66	17.65
	12/29/2023	101.31	83.73	-0.08 [N-4]	-0.01	83.64	17.67
	01/02/2024	101.31	83.74	0.00 [N-5]	-0.01	83.73	17.58
	1/9/2024	101.31	83.64	0.00 [N-5]	-0.01	83.63	17.68
	1/16/2024	101.31	83.61	0.00 [N-5]	-0.01	83.60	17.71
RHMW06	06/14/2023	259.09	241.12	-0.14 [N-4]	-0.01	240.97	18.12
	09/08/2023	259.09	241.53	-0.03 [N-5]	-0.01	241.49	17.6
	10/06/2023	259.09	241.63	-0.09 [N-6]	-0.01	241.53	17.56
	10/13/2023	259.09	241.70	-0.14 [N-4]	-0.01	241.55	17.54
	10/23/2023	259.09	241.66	-0.10 [N-3]	-0.01	241.55	17.54

Location	Measurement Date	Measuring Point Elevation*	Depth to Water from TOC (Feet BMP)	Measuring Tape Correction Factor [Tape ID] (ft)	Well Displacement Correction Factor (ft)	Corrected Depth to Water (ft btoc)	Groundwater Elevation (ft msl)
	10/30/2023	259.09	241.71	-0.09 [N-6]	-0.01	241.61	17.48
	11/07/2023	259.09	241.69	-0.09 [N-6]	-0.01	241.59	17.5
	11/13/2023	259.09	241.75	-0.14 [N-4]	-0.01	241.60	17.49
	11/20/2023	259.09	241.67	-0.03 [N-5]	-0.01	241.63	17.46
	11/27/2023	259.09	241.68	-0.09 [N-6]	-0.01	241.58	17.51
	12/05/2023	259.09	241.61	-0.14 [N-4]	-0.01	241.46	17.63
	12/11/2023	259.09	241.59	-0.14 [N-4]	-0.01	241.44	17.65
	12/18/2023	259.09	241.58	-0.14 [N-4]	-0.01	241.43	17.66
	12/27/2023	259.09	241.47	-0.09 [N-6]	-0.01	241.37	17.72
	01/02/2024	259.09	241.43	-0.10 [N-3]	-0.01	241.32	17.77
	1/8/2024	259.09	241.4	-0.10 [N-3]	-0.01	241.29	17.8
	1/15/2024	259.09	241.38	-0.03 [N-5]	-0.01	241.34	17.75
RHMW08	09/06/2023	310.43	293.03	-0.03 [N-5]	-0.03	292.97	17.46
	10/04/2023	310.43	293.09	-0.09 [N-6]	-0.03	292.97	17.46
	10/11/2023	310.43	293.18	-0.14 [N-4]	-0.03	293.01	17.42
	10/18/2023	310.43	293.17	-0.14 [N-4]	-0.03	293.00	17.43
	10/25/2023	310.43	293.12	-0.10 [N-3]	-0.03	292.99	17.44
	11/1/2023	310.43	293.16	-0.14 [N-4]	-0.03	292.99	17.44
	11/10/2023	310.43	293.18	-0.09 [N-6]	-0.03	293.06	17.37
	11/14/2023	310.43	293.14	-0.10 [N-3]	-0.03	293.01	17.42
	11/20/2023	310.43	293.23	-0.14 [N-4]	-0.03	293.06	17.37
	11/28/2023	310.43	293.14	-0.09 [N-6]	-0.03	293.02	17.41
	12/04/2023	310.43	293.05	-0.03 [N-5]	-0.03	292.99	17.44
	12/11/2023	310.43	293.02	-0.03 [N-5]	-0.03	292.96	17.47
	12/18/2023	310.43	293.02	-0.03 [N-5]	-0.03	292.96	17.47
	12/26/2023	310.43	292.99	-0.09 [N-6]	-0.03	292.87	17.56
	01/03/2024	310.43	292.86	-0.09 [N-6]	-0.03	292.74	17.69
	1/8/2024	310.43	292.88	-0.03 [N-5]	-0.03	292.82	17.61
	1/15/2024	310.43	292.84	-0.10 [N-3]	-0.03	292.71	17.72
RHMW09	06/13/2023	395.37	377.55	-0.10 [N-6]	-0.24	377.21	18.16
	09/05/2023	395.37	378.09	-0.03 [N-5]	-0.24	377.82	17.55
	10/05/2023	395.37	378.23	-0.10 [N-6]	-0.24	377.89	17.48

Location	Measurement Date	Measuring Point Elevation*	Depth to Water from TOC (Feet BMP)	Measuring Tape Correction Factor [Tape ID] (ft)	Well Displacement Correction Factor (ft)	Corrected Depth to Water (ft btoc)	Groundwater Elevation (ft msl)
	10/12/2023	395.37	378.25	-0.10 [N-6]	-0.24	377.91	17.46
	10/24/2023	395.37	378.31	-0.10 [N-6]	-0.24	377.97	17.4
	10/30/2023	395.37	378.3	-0.13 [N-4]	-0.24	377.93	17.44
	11/06/2023	395.37	378.34	-0.10 [N-6]	-0.24	378.00	17.37
	11/14/2023	395.37	378.30	-0.10 [N-6]	-0.24	377.96	17.41
	11/20/2023	395.37	378.32	-0.08 [N-3]	-0.24	378.00	17.37
	11/27/2023	395.37	378.23	-0.03 [N-5]	-0.24	377.96	17.41
	12/04/2023	395.37	378.23	-0.13 [N-4]	-0.24	377.86	17.51
	12/12/2023	395.37	378.18	-0.13 [N-4]	-0.24	377.81	17.56
	12/19/2023	395.37	378.18	-0.10 [N-6]	-0.24	377.84	17.53
	12/27/2023	395.37	378.1	-0.13 [N-4]	-0.24	377.73	17.64
	01/04/2024	395.37	378.09	-0.13 [N-4]	-0.24	377.72	17.65
	1/9/2024	395.37	378.05	-0.13 [N-4]	-0.24	377.68	17.69
	1/16/2024	395.37	377.94	-0.03 [N-5]	-0.24	377.67	17.7
RHMW10	06/14/2023	495.59	477.69	-0.10 [N-6]	-0.09	477.50	18.09
	09/05/2023	495.59	478.13	-0.10 [N-6]	-0.09	477.94	17.65
	10/05/2023	495.59	478.20	-0.04 [N-3]	-0.09	478.07	17.52
	10/10/2023	495.59	478.23	-0.04 [N-3]	-0.09	478.10	17.49
	10/26/2023	495.59	478.34	-0.10 [N-4]	-0.09	478.15	17.44
	10/31/2023	495.59	478.32	-0.10 [N-6]	-0.09	478.13	17.46
	11/10/2023	495.59	478.34	-0.10 [N-6]	-0.09	478.15	17.44
	11/13/2023	495.59	478.35	-0.10 [N-6]	-0.09	478.16	17.43
	11/21/2023	495.59	478.26	-0.10 [N-6]	-0.09	478.07	17.52
	11/29/2023	495.59	478.21	-0.04 [N-3]	-0.09	478.08	17.51
	12/05/2023	495.59	478.20	-0.10 [N-6]	-0.09	478.01	17.58
	12/13/2023	495.59	478.20	-0.10 [N-6]	-0.09	478.01	17.58
	12/20/2023	495.59	478.16	-0.10 [N-6]	-0.09	477.97	17.62
	01/02/2024	495.59	478.19	-0.10 [N-4]	-0.09	478.00	17.59
	1/10/2024	495.59	478.05	-0.10 [N-6]	-0.09	477.86	17.73
	1/17/2024	495.59	478	-0.10 [N-6]	-0.09	477.81	17.78
RHMW11-05	10/2/2023	210.38	192.72	—	-0.09	192.63	17.75
	10/9/2023	210.38	193.8748152	—	-0.09	193.78	16.60

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	10/24/2023	210.38	192.9970152	—	-0.09	192.91	17.47
	10/30/2023	210.38	192.9277152	—	-0.09	192.84	17.54
	11/6/2023	210.38	193.7362152	—	-0.09	193.65	16.73
	11/15/2023	210.38	192.8353152	—	-0.09	192.75	17.63
	11/22/2023	210.38	192.7891152	—	-0.09	192.70	17.68
	11/27/2023	210.38	192.9508152	—	-0.09	192.86	17.52
	12/4/2023	210.38	192.7198152	—	-0.09	192.63	17.75
	12/13/2023	210.38	192.6736152	—	-0.09	192.58	17.80
	12/20/2023	210.38	192.6505152	—	-0.09	192.56	17.82
	12/28/2023	210.38	192.6274152	—	-0.09	192.54	17.84
	1/4/2024	210.38	192.5581152	—	-0.09	192.47	17.91
	1/10/2024	210.38	192.5581152	—	-0.09	192.47	17.91
	1/17/2024	210.38	192.51	—		192.51	17.87
RHMW12A	9/7/2023	238.43	221.04	-0.03 [N-5]	-0.06	220.95	17.48
	10/3/2024	238.43	221.09	-0.09 [N-6]	-0.06	220.94	17.49
	10/12/2023	238.43	221.14	-0.10 [N-3]	-0.06	220.98	17.45
	11/09/2023	238.43	221.22	-0.03 [N-5]	-0.06	221.13	17.30
	12/07/2023	238.43	221.09	-0.14 [N-4]	-0.06	220.89	17.54
	01/05/2024	238.43	221.03	-0.09 [N-6]	-0.06	220.88	17.55
RHMW13-04	9/5/2023	248.41	230.89	—	—	230.89	17.52
	10/5/2023	248.41	231.03	—	—	231.03	17.38
	10/10/2023	248.41	231.10	—	—	231.10	17.31
	10/13/2023	248.41	231.10	—	—	231.10	17.31
	10/25/2023	248.41	231.10	—	—	231.10	17.31
	10/31/2023	248.41	230.75	—	—	230.75	17.66
	11/9/2023	248.41	231.44	—	—	231.44	16.97
	11/14/2023	248.41	230.98	—	—	230.98	17.43
	11/20/2023	248.41	231.07	—	—	231.07	17.34
	11/28/2023	248.41	230.98	—	—	230.98	17.43
	12/7/2023	248.41	230.84	—	—	230.84	17.57
	12/12/2023	248.41	231.05	—	—	231.05	17.36
	12/19/2023	248.41	230.89	—	—	230.89	17.52

Location	Measurement Date	Measuring Point Elevation*	Depth to Water from TOC (Feet BMP)	Measuring Tape Correction Factor [Tape ID] (ft)	Well Displacement Correction Factor (ft)	Corrected Depth to Water (ft btoc)	Groundwater Elevation (ft msl)
	12/27/2023	248.41	230.80	—	—	230.80	17.61
	1/3/2024	248.41	230.84	—	—	230.84	17.57
	1/9/2024	248.41	230.80	—	—	230.80	17.61
	1/16/2024	248.41	231.26	—	—	231.26	17.15
RHMW13-05	9/5/2023	248.41	230.83	—	—	230.83	17.58
	10/5/2023	248.41	231.02	—	—	231.02	17.39
	10/10/2023	248.41	231.02	—	—	231.02	17.39
	10/13/2023	248.41	231.02	—	—	231.02	17.39
	10/25/2023	248.41	231.07	—	—	231.07	17.34
	10/31/2023	248.41	230.70	—	—	230.70	17.71
	11/9/2023	248.41	231.39	—	—	231.39	17.02
RHWM14-03	10/2/2023	179.78	162.58	—	—	162.58	17.20
	10/9/2023	179.78	162.58	—	—	162.58	17.20
	10/24/2023	179.78	162.99	—	—	162.99	16.79
	10/30/2023	179.78	163.20	—	—	163.20	16.58
	11/6/2023	179.78	163.39	—	—	163.39	16.39
	11/15/2023	179.78	162.72	—	—	162.72	17.06
	11/22/2023	179.78	162.72	—	—	162.72	17.06
	11/27/2023	179.78	162.69	—	—	162.69	17.09
	12/4/2023	179.78	162.58	—	—	162.58	17.20
	12/13/2023	179.78	162.58	—	—	162.58	17.20
	12/20/2023	179.78	162.53	—	—	162.53	17.25
	12/28/2023	179.78	164.79	—	—	164.79	14.99
	1/4/2024	179.78	162.44	—	—	162.44	17.34
	1/10/2024	179.78	162.44	—	—	162.44	17.34
	1/17/2024	179.78	162.39	—	—	162.39	17.39
RHMW15-05	9/7/2023	310.00	292.12	—	—	292.12	17.88
	10/4/2023	310.00	291.96	—	—	291.96	18.04
	10/11/2023	310.00	292.6084	—	—	292.61	17.39
	10/23/2023	310.00	292.8856	—	—	292.89	17.11
	11/1/2023	310.00	293.0704	—	—	293.07	16.93
	11/8/2023	310.00	292.7008	—	—	292.70	17.30

Location	Measurement Date	Measuring Point Elevation*	Depth to Water from TOC (Feet BMP)	Measuring Tape Correction Factor [Tape ID] (ft)	Well Displacement Correction Factor (ft)	Corrected Depth to Water (ft btoc)	Groundwater Elevation (ft msl)
	11/13/2023	310.00	292.3312	—	—	292.33	17.67
	11/21/2023	310.00	292.3543	—	—	292.35	17.65
	11/29/2023	310.00	292.285	—	—	292.29	17.72
	12/6/2023	310.00	292.2388	—	—	292.24	17.76
	12/11/2023	310.00	292.1695	—	—	292.17	17.83
	12/18/2023	310.00	292.2157	—	—	292.22	17.78
	12/29/2023	310.00	292.1002	—	—	292.10	17.90
	1/5/2024	310.00	292.0771	—	—	292.08	17.92
	1/8/2024	310.00	292.0771	—	—	292.08	17.92
	1/15/2024	310.00	291.8894	—	—	291.89	18.11
RHMW16	9/7/2023	218.94	202.25	-0.08 [N-6]	-0.90	201.27	17.67
	10/5/2023	218.94	202.29	-0.09 [N-3]	-0.90	201.30	17.64
	10/12/2023	218.94	202.35	-0.09 [N-3]	-0.90	201.36	17.58
	10/26/2023	218.94	202.47	-0.13 [N-4]	-0.90	201.44	17.50
	10/31/2023	218.94	202.39	-0.08 [N-6]	-0.90	201.41	17.53
	11/06/2023	218.94	202.48	-0.13 [N-4]	-0.90	201.45	17.49
	11/13/2023	218.94	202.45	-0.08 [N-6]	-0.90	201.47	17.47
	11/20/2023	218.94	202.39	-0.03 [N-5]	-0.90	201.46	17.48
	11/28/2023	218.94	202.41	-0.08 [N-6]	-0.90	201.43	17.51
	12/04/2023	218.94	202.32	-0.03 [N-5]	-0.90	201.39	17.55
	12/11/2023	218.94	202.28	-0.03 [N-5]	-0.90	201.35	17.59
	12/18/2023	218.94	202.3	-0.03 [N-5]	-0.90	201.37	17.57
	12/26/2023	218.94	202.24	-0.08 [N-6]	-0.90	201.26	17.68
	01/03/2024	218.94	202.20	-0.09 [N-3]	-0.90	201.21	17.73
	1/8/2024	218.94	202.14	-0.09 [N-3]	-0.90	201.15	17.79
	1/15/2024	218.94	202.09	-0.03 [N-5]	-0.90	201.16	17.78
RHMW17	06/15/2023	252.34	234.40	-0.08 [N-1]	-0.01	234.31	18.03
	09/08/2023	252.34	234.84	-0.09 [N-6]	-0.01	234.74	17.60
	10/04/2023	252.34	234.86	-0.09 [N-6]	-0.01	234.76	17.58
	10/11/2023	252.34	234.94	-0.10 [N-3]	-0.01	234.83	17.51
	10/25/2023	252.34	235.06	-0.14 [N-4]	-0.01	234.91	17.43
	11/2/2023	252.34	234.99	-0.09 [N-6]	-0.01	234.89	17.45

Location	Measurement Date	Measuring Point Elevation*	Depth to Water from TOC (Feet BMP)	Measuring Tape Correction Factor [Tape ID] (ft)	Well Displacement Correction Factor (ft)	Corrected Depth to Water (ft btoc)	Groundwater Elevation (ft msl)
	11/08/2023	252.34	235.02	-0.10 [N-3]	-0.01	234.91	17.43
	11/15/2023	252.34	235.02	-0.10 [N-3]	-0.01	234.91	17.43
	11/22/2023	252.34	234.98	-0.03 [N-5]	-0.01	234.94	17.40
	11/28/2023	252.34	234.9	-0.03 [N-5]	-0.01	234.86	17.48
	12/06/2023	252.34	234.85	-0.03 [N-5]	-0.01	234.81	17.53
	12/12/2023	252.34	234.86	-0.03 [N-5]	-0.01	234.82	17.52
	12/19/2023	252.34	234.85	-0.10 [N-3]	-0.01	234.74	17.60
	12/27/2023	252.34	234.81	-0.03 [N-5]	-0.01	234.77	17.57
	01/03/2024	252.34	234.85	-0.14 [N-4]	-0.01	234.70	17.64
	1/9/2024	252.34	234.75	-0.09 [N-6]	-0.01	234.65	17.69
	1/16/2024	252.34	234.73	-0.14 [N-4]	-0.01	234.58	17.76
RHMW19	06/13/2023	444.82	426.50	-0.10 [N-6]	-0.21	426.19	18.63
	09/05/2023	444.82	427.09	-0.03 [N-5]	-0.21	426.85	17.97
	10/12/2023	444.82	427.21	-0.10 [N-6]	-0.21	426.90	17.92
	10/05/2023	444.82	427.19	-0.10 [N-6]	-0.21	426.88	17.94
	10/24/2023	444.82	427.26	-0.10 [N-6]	-0.21	426.95	17.87
	10/30/2023	444.82	427.27	-0.12 [N-4]	-0.21	426.94	17.88
	11/06/2023	444.82	427.29	-0.10 [N-6]	-0.21	426.98	17.84
	11/14/2023	444.82	427.30	-0.10 [N-6]	-0.21	426.99	17.83
	11/20/2023	444.82	427.24	-0.06 [N-3]	-0.21	426.97	17.85
	11/27/2023	444.82	427.2	-0.03 [N-5]	-0.21	426.96	17.86
	12/04/2023	444.82	427.21	-0.12 [N-4]	-0.21	426.88	17.94
	12/12/2023	444.82	427.15	-0.12 [N-4]	-0.21	426.82	18.00
	12/19/2023	444.82	427.14	-0.10 [N-6]	-0.21	426.83	17.99
	12/27/2023	444.82	427.03	-0.12 [N-4]	-0.21	426.70	18.12
	01/04/2024	444.82	427.03	-0.12 [N-4]	-0.21	426.70	18.12
	1/9/2024	444.82	427.02	-0.12 [N-4]	-0.21	426.69	18.13
	1/16/2024	444.82	426.91	-0.03 [N-5]	-0.21	426.67	18.15
RHMW20	06/14/2023	255.87	237.61	-0.09 [N-3]	—	237.52	18.35
	09/06/2023	255.87	238.19	-0.03 [N-5]	—	238.16	17.71
	10/05/2023	255.87	238.18	-0.09 [N-6]	—	238.09	17.78
	10/10/2023	255.87	238.32	-0.09 [N-6]	—	238.23	17.64

Location	Measurement Date	Measuring Point Elevation*	Depth to Water from TOC (Feet BMP)	Measuring Tape Correction Factor [Tape ID] (ft)	Well Displacement Correction Factor (ft)	Corrected Depth to Water (ft btoc)	Groundwater Elevation (ft msl)
	10/23/2023	255.87	238.24	-0.09 [N-3]	—	238.15	17.72
	11/2/2023	255.87	238.31	-0.09 [N-6]	—	238.22	17.65
	11/09/2023	255.87	238.36	-0.09 [N-3]	—	238.27	17.60
	11/14/2023	255.87	238.45	-0.14 [N-4]	—	238.31	17.56
	11/21/2023	255.87	238.35	-0.03 [N-5]	—	238.32	17.55
	11/29/2023	255.87	238.26	-0.03 [N-5]	—	238.23	17.64
	12/07/2023	255.87	238.22	-0.14 [N-4]	—	238.08	17.79
	12/13/2023	255.87	238.24	-0.10 [N-3]	—	238.14	17.73
	12/20/2023	255.87	238.24	-0.14 [N-4]	—	238.10	17.77
	12/28/2023	255.87	238.16	-0.10 [N-3]	—	238.06	17.81
	01/03/2024	255.87	238.12	-0.10 [N-3]	—	238.02	17.85
	1/10/2024	255.87	238.15	-0.14 [N-4]	—	238.01	17.86
	1/17/2024	255.87	238.07	-0.03 [N-5]	—	238.04	17.83
RHMW2254-01	09/06/2023	105.51	88.72	-0.08 [N-4]	—	88.64	16.87
	10/05/2023	105.51	88.13	-0.08 [N-4]	—	88.05	17.46
	10/12/2023	105.51	NC	NC	—	—	—
	10/17/2023	105.51	88.83	-0.08 [N-4]	—	88.75	16.76
	10/24/2023	105.51	88.84	-0.08 [N-4]	—	88.76	16.75
	10/31/2023	105.51	88.77	-0.05 [N-3]	—	88.72	16.79
	11/07/2023	105.51	89.01	-0.08 [N-4]	—	88.93	16.58
	11/14/2023	105.51	88.82	-0.05 [N-3]	—	88.77	16.74
	11/21/2023	105.51	88.9	0.00 [N-5]	—	88.90	16.61
	11/28/2023	105.51	88.75	0.00 [N-5]	—	88.75	16.76
	12/05/2023	105.51	88.68	0.00 [N-5]	—	88.68	16.83
	12/12/2023	105.51	88.85	-0.06 [N-6]	—	88.79	16.72
	12/19/2023	105.51	88.73	-0.08 [N-4]	—	88.65	16.86
	12/26/2023	105.51	88.69	-0.08 [N-4]	—	88.61	16.90
	01/02/2024	105.51	88.61	0.00 [N-5]	—	88.61	16.90
	1/9/2024	105.51	88.54	0.00 [N-5]	—	88.54	16.97
	1/16/2024	105.51	88.57	-0.08 [N-4]	—	88.49	17.02
RHP01	09/06/2023	156.79	139.66	-0.07 [N-6]	-0.04	139.55	17.24
	10/04/2023	156.79	139.66	-0.01 [N-5]	-0.04	139.61	17.18

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	10/09/2023	156.79	139.73	-0.08 [N-3]	-0.04	139.61	17.18
	10/25/2023	156.79	139.81	-0.07 [N-6]	-0.04	139.70	17.09
	11/1/2023	156.79	139.74	-0.08 [N-3]	-0.04	139.62	17.17
	11/06/2023	156.79	139.83	-0.11 [N-4]	-0.04	139.68	17.11
	11/13/2023	156.79	139.81	-0.08 [N-3]	-0.04	139.69	17.10
	11/20/2023	156.79	139.81	-0.11 [N-4]	-0.04	139.66	17.13
	12/04/2023	156.79	139.63	-0.07 [N-6]	-0.04	139.52	17.27
	12/11/2023	156.79	139.68	-0.11 [N-4]	-0.04	139.53	17.26
	12/18/2023	156.79	139.69	-0.08 [N-3]	-0.04	139.57	17.22
	12/26/2023	156.79	139.57	-0.08 [N-3]	-0.04	139.45	17.34
	01/02/2024	156.79	139.60	-0.08 [N-3]	-0.04	139.48	17.31
	1/8/2024	156.79	139.58	-0.11 [N-4]	-0.04	139.43	17.36
	1/15/2024	156.79	139.53	-0.11 [N-4]	-0.04	139.38	17.41
RHP02	09/06/2023	140.36	122.65	-0.07 [N-6]	-0.02	122.56	17.80
	10/06/2023	140.36	122.66	-0.07 [N-6]	-0.02	122.57	17.79
	10/13/2023	140.36	122.75	-0.07 [N-6]	-0.02	122.66	17.70
	11/08/2023	140.36	122.73	-0.01 [N-5]	-0.02	122.70	17.66
	11/14/2023	140.36	122.78	-0.10 [N-4]	-0.02	122.66	17.70
	11/22/2023	140.36	122.78	-0.01 [N-5]	-0.02	122.75	17.61
	11/27/2023	140.36	122.73	-0.07 [N-3]	-0.02	122.64	17.72
	12/06/2023	140.36	122.58	-0.07 [N-3]	-0.02	122.49	17.87
	12/11/2023	140.36	122.56	-0.07 [N-3]	-0.02	122.47	17.89
	12/18/2023	140.36	122.57	-0.07 [N-3]	-0.02	122.48	17.88
	12/26/2023	140.36	122.46	-0.07 [N-3]	-0.02	122.37	17.99
	01/02/2024	140.36	122.49	-0.07 [N-3]	-0.02	122.40	17.96
	1/8/2024	140.36	122.37	-0.07 [N-6]	-0.02	122.28	18.08
	1/15/2024	140.36	122.37	-0.10 [N-4]	-0.02	122.25	18.11
RHP03	09/08/2023	136.78	119.33	-0.07 [N-3]	-0.02	119.24	17.54
	10/06/2023	136.78	119.39	-0.07 [N-3]	-0.02	119.30	17.48
	10/13/2023	136.78	119.43	-0.07 [N-3]	-0.02	119.34	17.44
	10/26/2023	136.78	119.45	-0.07 [N-3]	-0.02	119.36	17.42
	11/2/2023	136.78	119.43	-0.07 [N-3]	-0.02	119.34	17.44

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	11/08/2023	136.78	119.46	-0.01 [N-5]	-0.02	119.43	17.35
	11/14/2023	136.78	119.52	-0.10 [N-4]	-0.02	119.40	17.38
	11/22/2023	136.78	119.48	-0.01 [N-5]	-0.02	119.45	17.33
	11/27/2023	136.78	119.44	-0.07 [N-3]	-0.02	119.35	17.43
	12/06/2023	136.78	119.34	-0.07 [N-3]	-0.02	119.25	17.53
	12/11/2023	136.78	119.32	-0.07 [N-3]	-0.02	119.23	17.55
	01/02/2024	136.78	119.28	-0.01 [N-5]	-0.02	119.25	17.53
	1/8/2024	136.78	119.24	-0.10 [N-4]	-0.02	119.12	17.66
	1/15/2024	136.78	119.17	-0.10 [N-4]	-0.04	119.03	17.75
RHP04A	06/14/2023	157.70	139.83	-0.07 [N-6]	-0.04	139.72	17.98
	09/11/2023	157.70	140.33	-0.07 [N-6]	-0.04	140.22	17.48
	10/06/2023	157.70	140.34	-0.01 [N-5]	-0.04	140.29	17.41
	10/12/2023	157.70	140.37	-0.01 [N-5]	-0.04	140.32	17.38
	11/07/2023	157.70	140.40	-0.08 [N-3]	-0.04	140.28	17.42
	11/15/2023	157.70	140.43	-0.07 [N-6]	-0.04	140.32	17.38
	11/22/2023	157.70	140.41	-0.08 [N-3]	-0.04	140.29	17.41
	11/28/2023	157.70	140.36	-0.08 [N-3]	-0.04	140.24	17.46
	12/05/2023	157.70	140.27	-0.08 [N-3]	-0.04	140.15	17.55
	12/12/2023	157.70	140.26	-0.08 [N-3]	-0.04	140.14	17.56
	12/19/2023	157.70	140.29	-0.08 [N-3]	-0.04	140.17	17.53
	12/27/2023	157.70	140.16	-0.08 [N-3]	-0.04	140.04	17.66
	01/03/2024	157.70	140.17	-0.01 [N-5]	-0.04	140.12	17.58
	1/9/2024	157.70	140.1	-0.08 [N-3]	-0.04	139.98	17.72
	1/16/2024	157.70	140.08	-0.07 [N-6]	-0.04	139.97	17.73
RHP04B	06/14/2023	156.81	138.95	-0.07 [N-6]	—	138.88	17.93
	9/11/2023	156.81	139.45	-0.07 [N-6]	—	139.38	17.43
	10/06/2023	156.81	139.48	-0.01 [N-5]	—	139.47	17.34
	10/12/2023	156.81	139.40	-0.01 [N-5]	—	139.39	17.42
	10/23/2023	156.81	139.57	-0.07 [N-6]	—	139.50	17.31
	11/3/2023	156.81	139.5	-0.08 [N-3]	—	139.42	17.39
	11/07/2023	156.81	139.52	-0.08 [N-3]	—	139.44	17.37
	11/15/2023	156.81	139.57	-0.07 [N-6]	—	139.50	17.31

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	11/22/2023	156.81	139.54	-0.08 [N-3]	—	139.46	17.35
	11/28/2023	156.81	139.43	-0.08 [N-3]	—	139.35	17.46
	12/05/2023	156.81	139.40	-0.08 [N-3]	—	139.32	17.49
	12/12/2023	156.81	139.34	-0.08 [N-3]	—	139.26	17.55
	12/19/2023	156.81	139.36	-0.08 [N-3]	—	139.28	17.53
	12/27/2023	156.81	139.27	-0.08 [N-3]	—	139.19	17.62
	01/03/2024	156.81	139.29	-0.01 [N-5]	—	139.28	17.53
	1/9/2024	156.81	139.23	-0.08 [N-3]	—	139.15	17.66
	1/16/2024	156.81	139.19	-0.08 [N-3]	—	139.11	17.70
RHP04C	09/08/2023	156.08	138.66	-0.08 [N-3]	-0.02	138.56	17.52
	10/06/2023	156.08	138.73	-0.08 [N-3]	-0.02	138.63	17.45
	10/13/2023	156.08	138.81	-0.07 [N-6]	-0.02	138.72	17.36
	10/25/2023	156.08	138.79	-0.08 [N-3]	-0.02	138.69	17.39
	11/1/2023	156.08	138.8	-0.11 [N-4]	-0.02	138.67	17.41
	11/06/2023	156.08	138.83	-0.08 [N-3]	-0.02	138.73	17.35
	11/15/2023	156.08	138.81	-0.08 [N-3]	-0.02	138.71	17.37
	11/20/2023	156.08	138.87	-0.11 [N-4]	-0.02	138.74	17.34
	11/29/2023	156.08	138.72	-0.01 [N-5]	-0.02	138.69	17.39
	12/04/2023	156.08	138.73	-0.07 [N-6]	-0.02	138.64	17.44
	12/13/2023	156.08	138.69	-0.08 [N-3]	-0.02	138.59	17.49
	12/20/2023	156.08	138.69	-0.11 [N-4]	-0.02	138.56	17.52
	12/28/2023	156.08	138.57	-0.08 [N-3]	-0.02	138.47	17.61
	01/05/2024	156.08	138.58	-0.01 [N-5]	-0.02	138.55	17.53
	1/10/2024	156.08	138.57	-0.11 [N-4]	-0.02	138.44	17.64
	1/17/2024	156.08	138.48	-0.01 [N-5]	-0.02	138.45	17.63
RHP05	09/08/2023	230.28	213.09	-0.14 [N-4]	—	212.95	17.33
	10/02/2023	230.28	213.15	-0.14 [N-4]	—	213.01	17.27
	10/13/2023	230.28	213.17	-0.10 [N-3]	—	213.07	17.21
	10/26/2023	230.28	213.18	-0.10 [N-3]	—	213.08	17.20
	11/2/2023	230.28	213.17	-0.10 [N-3]	—	213.07	17.21
	11/08/2023	230.28	213.26	-0.14 [N-4]	—	213.12	17.16
	11/15/2023	230.28	213.21	-0.03 [N-5]	—	213.18	17.10

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	11/22/2023	230.28	213.25	-0.08 [N-6]	—	213.17	17.11
	11/29/2023	230.28	213.15	-0.08 [N-6]	—	213.07	17.21
	12/06/2023	230.28	213.11	-0.14 [N-4]	—	212.97	17.31
	12/13/2023	230.28	213.11	-0.14 [N-4]	—	212.97	17.31
	12/20/2023	230.28	213.04	-0.03 [N-5]	—	213.01	17.27
	12/28/2023	230.28	212.97	-0.03 [N-5]	—	212.94	17.34
	01/03/2024	230.28	212.90	-0.10 [N-3]	—	212.80	17.48
	1/10/2024	230.28	212.9	-0.08 [N-6]	—	212.82	17.46
	1/17/2024	230.28	212.94	-0.08 [N-6]	—	212.86	17.42
RHP06	09/07/2023	270.84	253.55	-0.09 [N-6]	—	253.46	17.38
	10/02/2023	270.84	253.61	-0.14 [N-4]	—	253.47	17.37
	10/11/2023	270.84	253.60	-0.10 [N-3]	—	253.50	17.34
	10/27/2023	270.84	253.6	-0.10 [N-3]	—	253.50	17.34
	11/2/2023	270.84	253.66	-0.14 [N-4]	—	253.52	17.32
	11/08/2023	270.84	253.69	-0.14 [N-4]	—	253.55	17.29
	11/15/2023	270.84	253.65	-0.03 [N-5]	—	253.62	17.22
	11/22/2023	270.84	253.69	-0.09 [N-6]	—	253.60	17.24
	11/29/2023	270.84	253.61	-0.09 [N-6]	—	253.52	17.32
	12/06/2023	270.84	253.59	-0.14 [N-4]	—	253.45	17.39
	12/13/2023	270.84	253.56	-0.14 [N-4]	—	253.42	17.42
	12/20/2023	270.84	253.43	-0.03 [N-5]	—	253.40	17.44
	12/28/2023	270.84	253.43	-0.03 [N-5]	—	253.40	17.44
	01/02/2024	270.84	253.40	-0.10 [N-3]	—	253.30	17.54
	1/8/2024	270.84	253.39	-0.03 [N-5]	—	253.36	17.48
	1/17/2024	270.84	253.39	-0.09 [N-6]	—	253.30	17.54
RHP07	06/15/2023	100.83	82.37	-0.08 [N-4]	-0.0026	82.29	18.54
	09/06/2023	100.83	83.36	-0.08 [N-4]	-0.0026	83.28	17.55
	10/05/2023	100.83	83.56	-0.08 [N-4]	-0.0026	83.48	17.35
	10/10/2023	100.83	83.64	-0.08 [N-4]	-0.0026	83.56	17.27
	10/17/2023	100.83	83.54	0.00 [N-5]	-0.0026	83.54	17.29
	10/24/2023	100.83	83.55	-0.05 [N-3]	-0.0026	83.50	17.33
	10/31/2023	100.83	83.54	-0.08 [N-4]	-0.0026	83.46	17.37

Location	Measurement Date	Measuring Point Elevation*	Depth to Water from TOC (Feet BMP)	Measuring Tape Correction Factor [Tape ID] (ft)	Well Displacement Correction Factor (ft)	Corrected Depth to Water (ft btoc)	Groundwater Elevation (ft msl)
	11/10/2023	100.83	83.59	-0.05 [N-3]	-0.0026	83.54	17.29
	11/14/2023	100.83	83.86	0.00 [N-5]	-0.0026	83.86	16.97
	11/21/2023	100.83	83.67	-0.08 [N-4]	-0.0026	83.59	17.24
	11/28/2023	100.83	83.53	-0.08 [N-4]	-0.0026	83.45	17.38
	12/05/2023	100.83	83.43	0.00 [N-5]	-0.0026	83.43	17.40
	12/12/2023	100.83	83.40	-0.05 [N-3]	-0.0026	83.35	17.48
	12/22/2023	100.83	83.33	-0.08 [N-4]	-0.0026	83.25	17.58
	12/29/2023	100.83	83.32	-0.08 [N-4]	-0.0026	83.24	17.59
	01/02/2024	100.83	83.33	0.00 [N-5]	-0.0026	83.33	17.50
	1/9/2024	100.83	83.22	0.00 [N-5]	-0.0026	83.22	17.61
	1/16/2024	100.83	83.12	-0.06 [N-6]	-0.0026	83.06	17.77
RHP08	09/11/2023	302.96	285.70	-0.14 [N-4]	—	285.56	17.40
	10/03/2023	302.96	285.76	-0.14 [N-4]	—	285.62	17.34
	10/11/2023	302.96	285.84	-0.14 [N-4]	—	285.70	17.26
	10/27/2023	302.96	285.79	-0.10 [N-3]	—	285.69	17.27
	11/2/2023	302.96	285.82	-0.14 [N-4]	—	285.68	17.28
	11/06/2023	302.96	285.82	-0.10 [N-3]	—	285.72	17.24
	11/13/2023	302.96	285.86	-0.09 [N-6]	—	285.77	17.19
	11/21/2023	302.96	285.86	-0.09 [N-6]	—	285.77	17.19
	11/29/2023	302.96	285.73	-0.10 [N-3]	—	285.63	17.33
	12/05/2023	302.96	285.72	-0.09 [N-6]	—	285.63	17.33
	12/13/2023	302.96	285.70	-0.09 [N-6]	—	285.61	17.35
	12/20/2023	302.96	285.67	-0.09 [N-6]	—	285.58	17.38
	12/28/2023	302.96	285.64	-0.14 [N-4]	—	285.50	17.46
	01/02/2024	302.96	285.69	-0.14 [N-4]	—	285.55	17.41
	1/10/2024	302.96	285.52	-0.09 [N-6]	—	285.43	17.53
	1/15/2024	302.96	285.48	-0.10 [N-3]	—	285.38	17.58

* All Elevations are reported in feet relative to NAVD88 vertical datum.

If NAPL is present, the Groundwater Elevation needs to be corrected for NAPL de

MPE = Measuring Point Elevation

BMP = below measuring point

Location	Measurement Date	Measuring Point Elevation*	Depth to Water from TOC (Feet BMP)	Measuring Tape Correction Factor [Tape ID] (ft)	Well Displacement Correction Factor (ft)	Corrected Depth to Water (ft btoc)	Groundwater Elevation (ft msl)

BGS = below ground surface

NC = not collected

Appendix B.3 – Natural Attenuation Parameters

Table B.3.1 Natural Attenuation Parameters, Current Reporting Period

					Location	RHMW2254-01	NMW24	NMW25	NMW30	NMW32
					COC ID	RHMW2254-01-WGN01LF-23Q4	NMW24-WGN01LF-23Q4	NMW25-WGN01LF-23Q4	NMW30-WGN01LF-23Q4	NMW32-WGN01LF-23Q4
					Collection Date	10/12/2023	10/13/2023	10/13/2023	10/19/2023	10/10/2023
					Sample Type	N	N	N	N	N
					FD Parent Sample	—	—	—	—	—
Analyte	Laboratory	CAS No.	Method	Screening Criterion	Unit	Result	Result	Result	Result	Result
Natural Attenuation Parameters										
Methane	Eurofins	74-82-8	RSK175	—	µg/L	**0.17 J**	<0.25 U	**0.23 J**	**0.18 J**	<0.25 U
Iron, Ion (Fe2+)	Eurofins	15438-31-0	3500_FE_B	—	mg/L	<0.32 U	<0.32 U	<0.32 U	<0.32 U	<0.32 U
Nitrate (as N)	Eurofins	14797-55-8	300.0	—	mg/L	**0.61**	**0.88**	**4.7**	**0.17 J**	**3.2**
Nitrate (as NO3 anion)c	—	14797-55-8_A	—	—	mg/L	**2.7**	**3.9**	**20.8**	**0.8 J**	**14.2**
Sulfate (as SO4)	Eurofins	14808-79-8	300	—	mg/L	20	**19**	**96**	**33**	**60**
Chloride (as Cl)	Eurofins	16887-00-6	300	—	mg/L	**120**	**73**	**220**	**110**	**160**
Nitrogen, Nitrate-Nitrite	Eurofins	NO3NO2N	353.2	—	mg/L	**0.58**	**0.92**	**4.8**	**0.19**	**0.49**
Alkalinity, Bicarbonate	Eurofins	ALKB	2320B	—	mg/L	**52**	**110**	**200**	**130**	**210**
Alkalinity, Carbonate (as CO3)	Eurofins	ALKC	2320B	—	mg/L	<7 U	<7 U	<7 U	<7 U	<7 U
Alkalinity, Total (as CaCO3)	Eurofins	ALK	2320B	—	mg/L	**52**	**110**	**200**	**130**	**210**
Total Organic Carbon	Energy	TOC	9060A	—	mg/L	<1 U	<1 U	**0.75 J-**	**1.6 J**	**0.77 J**
Dissolved Organic Carbon	Eurofins	DOC	9060A	—	mg/L	—	—	—	**3.6 J-**	—
General Chemistry										
Bromide	Eurofins	24959-67-9	300	—	mg/L	—	—	—	**0.41 J**	—
Fluoride	Eurofins	16984-48-8	300	—	mg/L	—	—	—	**0.14 J**	—
Dissolved Silica	EMAX	7631-86-9	4500-SI-D	—	mg/L	—	—	—	**44**	—
Total Silica	EMAX	7631-86-9	4500-SI-D	—	mg/L	—	—	—	**45**	—
Total Calcium	Eurofins	7440-70-2	6010C	—	µg/L	—	—	—	**26000**	—
Total Magnesium	Eurofins	7439-95-4	6010C	—	µg/L	—	—	—	**22000**	—
Total Manganese	Eurofins	7439-96-5	6010C	—	µg/L	—	—	—	**120**	—
Total Potassium	Eurofins	7440-09-7	6010C	—	µg/L	—	—	—	**5500**	—
Total Sodium	Eurofins	7440-23-5	6010C	—	µg/L	—	—	—	**74000 J+**	—
Dissolved Orthophosphate Phosphorous		—	SM4500 PB5 DIS	—	mg/L	—	—	—	—	—
Total Orthophosphate Phosphorous		—	SM4500 PE	—	mg/L	—	—	—	—	—
Dissolved Phosphorous		—	SM4500 PB5 DIS	—	mg/L	—	—	—	—	—
Total Phosphorous		—	SM4500 PE	—	mg/L	—	—	—	—	—
Field Parameters										
Total Dissolved Solids		—	—	—	ppm	379.01	364.30	918.04	457.81	712.12
pH		—	—	—	—	7.59	7.12	7.06	7.51	7.28
Specific Conductivity		—	—	—	mS/cm	0.58	0.56	1.41	0.70	1.10
Dissolved Oxygen		—	—	—	mg/L	8.64	6.08	7.90	0.30	5.92
Turbidity		—	—	—	NTU	0.00	0.04	0.12	1.42	0.53
Temperature		—	—	—	°C	22.02	26.02	27.39	27.40	27.28
ORP		—	—	—	mV	253.1	256.7	285.4	-8.5	277.3
Salinity		—	—	—	PSU	0.29	0.27	0.72	0.35	0.55

Table B.3.1 Natural Attenuation Parameters, Current Reporting Period (cont'd)

					Location	NMW33	RHMW01R	RHMW02	RHMW03	RHMW04
					COC ID	NMW33-WGN01LF-23Q4	RHMW01R-WGN01LF-23Q4	RHMW02-WGN01LF-23Q4	RHMW03-WGN01LF-23Q4	RHMW04-WGN01LF-23Q4
					Collection Date	10/9/2023	10/12/2023	10/9/2023	10/9/2023	10/13/2023
					Sample Type	N	N	N	N	N
					FD Parent Sample	—	—	—	—	—
Analyte	Laboratory	CAS No.	Method	Screening Criterion	Unit	Result	Result	Result	Result	Result
Natural Attenuation Parameters										
Methane	Eurofins	74-82-8	RSK175	—	µg/L	<0.25 U	**1020**	**3670**	<0.25 U	<0.25 U
Iron, Ion (Fe2+)	Eurofins	15438-31-0	3500_FE_B	—	mg/L	<0.32 U	**0.66 J**	**1.6**	<0.32 U	<0.32 U
Nitrate (as N)	Eurofins	14797-55-8	300.0	—	mg/L	**4.8**	<0.12 U	<0.12 U	**1.8**	**0.53**
Nitrate (as NO3 anion)c	—	14797-55-8_A	—	—	mg/L	**21.2**	**—**	—	**8**	**2.3**
Sulfate (as SO4)	Eurofins	14808-79-8	300	—	mg/L	**55**	**4.9**	**3**	**49**	**11**
Chloride (as Cl)	Eurofins	16887-00-6	300	—	mg/L	**260**	**42**	**40**	**46**	**74**
Nitrogen, Nitrate-Nitrite	Eurofins	NO3NO2N	353.2	—	mg/L	**0.81**	<0.12 U	<0.12 U	**2.4**	**0.52**
Alkalinity, Bicarbonate	Eurofins	ALKB	2320B	—	mg/L	**230**	**71**	**180**	**260**	**65**
Alkalinity, Carbonate (as CO3)	Eurofins	ALKC	2320B	—	mg/L	<7 U	<7 U	<7 U	<7 U	<7 U
Alkalinity, Total (as CaCO3)	Eurofins	ALK	2320B	—	mg/L	**230**	**71**	**180**	**260**	**65**
Total Organic Carbon	Energy	TOC	9060A	—	mg/L	<1 U	**0.77 J**	**5**	**1.2 J-**	<1 U
Dissolved Organic Carbon	Eurofins	DOC	9060A	—	mg/L	**0.7 J**	—	—	—	—
General Chemistry										
Bromide	Eurofins	24959-67-9	300	—	mg/L	**0.75 J**	—	—	—	—
Fluoride	Eurofins	16984-48-8	300	**—**	mg/L	**0.094 J**	—	—	—	—
Dissolved Silica	EMAX	7631-86-9	4500-SI-D	—	mg/L	**33**	—	—	—	—
Total Silica	EMAX	7631-86-9	4500-SI-D	—	mg/L	**33**	—	—	—	—
Total Calcium	Eurofins	7440-70-2	6010C	—	µg/L	**35000**	—	—	—	—
Total Magnesium	Eurofins	7439-95-4	6010C	—	µg/L	**35000**	—	—	—	—
Total Manganese	Eurofins	7439-96-5	6010C	—	µg/L	<6.8 U	—	—	—	—
Total Potassium	Eurofins	7440-09-7	6010C	—	µg/L	**7000**	—	—	—	—
Total Sodium	Eurofins	7440-23-5	6010C	—	µg/L	**230000 J+**	—	—	—	—
Dissolved Orthophosphate Phosphorous		—	SM4500 PB5 DIS	—	mg/L	—	—	—	—	—
Total Orthophosphate Phosphorous		—	SM4500 PE	—	mg/L	—	—	—	—	—
Dissolved Phosphorous		—	SM4500 PB5 DIS	—	mg/L	—	—	—	—	—
Total Phosphorous		—	SM4500 PE	—	mg/L	—	—	—	—	—
Field Parameters										
Total Dissolved Solids		—	—	—	ppm	941.65	210.84	321.87	499.18	273.37
pH		—	—	—	—	7.49	7.16	6.65	6.81	7.21
Specific Conductivity		—	—	—	mS/cm	1.45	0.32	0.50	0.77	0.42
Dissolved Oxygen		—	—	—	mg/L	7.28	0.54	0.07	0.43	8.59
Turbidity		—	—	—	NTU	0.07	0.00	0.22	0.39	0.27
Temperature		—	—	—	°C	26.05	23.49	24.44	27.23	23.77
ORP		—	—	—	mV	229.5	-78.7	-178.0	133.4	310.5
Salinity		—	—	—	PSU	0.74	0.16	0.24	0.38	0.20

Table B.3.1 Natural Attenuation Parameters, Current Reporting Period (cont'd)

					Location	RHMW05	RHMW06	RHMW08	RHMW08	RHMW09
					COC ID	RHMW05-WGN01LF-23Q4	RHMW06-WGN01LF-23Q4	RHMW08-WGN01LF-23Q4	RHMW08-WGFD01LF-23Q4	RHMW09-WGN01LF-23Q4
					Collection Date	10/10/2023	10/13/2023	10/11/2023	10/11/2023	10/12/2023
					Sample Type	N	N	N	FD	N
					FD Parent Sample	—	—	—	RHMW08-WGN01LF-23Q4	—
Analyte	Laboratory	CAS No.	Method	Screening Criterion	Unit	Result	Result	Result	Result	Result
Natural Attenuation Parameters										
Methane	Eurofins	74-82-8	RSK175	—	µg/L	<0.25 U	<0.25 U	<0.25 U	—	<0.25 U
Iron, Ion (Fe2+)	Eurofins	15438-31-0	3500_FE_B	—	mg/L	<0.32 U	<0.32 U	<0.32 U	—	<0.32 U
Nitrate (as N)	Eurofins	14797-55-8	300.0	—	mg/L	**0.44**	**0.45**	**0.49**	—	**0.44**
Nitrate (as NO3 anion)c	—	14797-55-8_A	—	—	mg/L	**1.9**	**2**	**2.2**	—	**1.9**
Sulfate (as SO4)	Eurofins	14808-79-8	300	—	mg/L	**12**	**93**	**24**	—	**9.1**
Chloride (as Cl)	Eurofins	16887-00-6	300	—	mg/L	**56**	**420**	**100**	—	**55**
Nitrogen, Nitrate-Nitrite	Eurofins	NO3NO2N	353.2	—	mg/L	**0.46**	**0.58**	**0.6**	—	**0.43**
Alkalinity, Bicarbonate	Eurofins	ALKB	2320B	—	mg/L	**60**	**94**	**100**	—	**52**
Alkalinity, Carbonate (as CO3)	Eurofins	ALKC	2320B	—	mg/L	<7 U	<7 U	<7 U	—	<7 U
Alkalinity, Total (as CaCO3)	Eurofins	ALK	2320B	—	mg/L	**60**	**94**	**100**	—	**52**
Total Organic Carbon	Energy	TOC	9060A	—	mg/L	<1 U	<1 U	**0.68 J-**	—	<1 U
Dissolved Organic Carbon	Eurofins	DOC	9060A	—	mg/L	—	—	—	—	—
General Chemistry										
Bromide	Eurofins	24959-67-9	300	—	mg/L	—	—	—	—	—
Fluoride	Eurofins	16984-48-8	300	—	mg/L	—	—	—	—	—
Dissolved Silica	EMAX	7631-86-9	4500-SI-D	—	mg/L	—	—	—	—	—
Total Silica	EMAX	7631-86-9	4500-SI-D	—	mg/L	—	—	—	—	—
Total Calcium	Eurofins	7440-70-2	6010C	—	µg/L	—	—	—	—	—
Total Magnesium	Eurofins	7439-95-4	6010C	—	µg/L	—	—	—	—	—
Total Manganese	Eurofins	7439-96-5	6010C	—	µg/L	—	—	—	—	—
Total Potassium	Eurofins	7440-09-7	6010C	—	µg/L	—	—	—	—	—
Total Sodium	Eurofins	7440-23-5	6010C	—	µg/L	—	—	—	—	—
Dissolved Orthophosphate Phosphorous		—	SM4500 PB5 DIS	—	mg/L	—	—	—	—	—
Total Orthophosphate Phosphorous		—	SM4500 PE	—	mg/L	—	—	—	—	—
Dissolved Phosphorous		—	SM4500 PB5 DIS	—	mg/L	—	—	—	—	—
Total Phosphorous		—	SM4500 PE	—	mg/L	—	—	—	—	—
Field Parameters										
Total Dissolved Solids		—	—	—	ppm	207.07	1124.58	427.80	—	211.68
pH		—	—	—	—	7.36	6.90	7.71	—	7.50
Specific Conductivity		—	—	—	mS/cm	0.32	1.73	0.66	—	0.33
Dissolved Oxygen		—	—	—	mg/L	7.59	6.62	0.72	—	8.62
Turbidity		—	—	—	NTU	0.95	0.09	0.68	—	0.43
Temperature		—	—	—	°C	22.99	24.36	25.71	—	24.18
ORP		—	—	—	mV	276.6	289.1	165.8	—	280.9
Salinity		—	—	—	PSU	0.15	0.89	0.32	—	0.16

Table B.3.1 Natural Attenuation Parameters, Current Reporting Period (cont'd)

					Location	RHMW10	RHMW10	RHMW11-05	RHMW12A	RHMW13-05
					COC ID	RHMW10-WGN01LF-23Q4	RHMW10-WGFD01LF-23Q4	RHMW11-05-WGN01G-23Q4	RHMW12A-WGN01LF-23Q4	RHMW13-04-WGN01G-23Q4
					Collection Date	10/10/2023	10/10/2023	10/9/2023	10/12/2023	10/10/2023
					Sample Type	N	FD	N	N	N
					FD Parent Sample	—	RHMW10-WGN01LF-23Q4	—	—	—
Analyte	Laboratory	CAS No.	Method	Screening Criterion	Unit	Result	Result	Result	Result	Result
Natural Attenuation Parameters										
Methane	Eurofins	74-82-8	RSK175	—	µg/L	<0.25 U	—	**0.91**	**0.16 J**	**0.42 J**
Iron, Ion (Fe2+)	Eurofins	15438-31-0	3500_FE_B	—	mg/L	<0.32 U	—	<0.32 U	<0.32 U	<0.32 UJ
Nitrate (as N)	Eurofins	14797-55-8	300.0	—	mg/L	**0.42**	—	<0.12 U	**0.36**	**0.4**
Nitrate (as NO3 anion)c	—	14797-55-8_A	—	—	mg/L	**1.9**	—	—	**1.6**	**1.8**
Sulfate (as SO4)	Eurofins	14808-79-8	300	—	mg/L	**6.8**	—	**11**	**8.4**	**7.2**
Chloride (as Cl)	Eurofins	16887-00-6	300	—	mg/L	**42**	—	**55**	**54**	**50**
Nitrogen, Nitrate-Nitrite	Eurofins	NO3NO2N	353.2	—	mg/L	**0.56**	—	<0.12 U	**0.36**	**0.38**
Alkalinity, Bicarbonate	Eurofins	ALKB	2320B	—	mg/L	**64**	—	**110**	**52**	**71**
Alkalinity, Carbonate (as CO3)	Eurofins	ALKC	2320B	—	mg/L	<7 U	—	<7 U	<7 U	<7 U
Alkalinity, Total (as CaCO3)	Eurofins	ALK	2320B	—	mg/L	**64**	—	**110**	**52**	**71**
Total Organic Carbon	Energy	TOC	9060A	—	mg/L	<1 U	—	<1 U	<1 U	<1 U
Dissolved Organic Carbon	Eurofins	DOC	9060A	—	mg/L	—	—	—	—	—
General Chemistry										
Bromide	Eurofins	24959-67-9	300	—	mg/L	—	—	—	—	—
Fluoride	Eurofins	16984-48-8	300	—	mg/L	—	—	—	—	—
Dissolved Silica	EMAX	7631-86-9	4500-SI-D	—	mg/L	—	—	—	—	—
Total Silica	EMAX	7631-86-9	4500-SI-D	—	mg/L	—	—	—	—	—
Total Calcium	Eurofins	7440-70-2	6010C	—	µg/L	—	—	—	—	—
Total Magnesium	Eurofins	7439-95-4	6010C	—	µg/L	—	—	—	—	—
Total Manganese	Eurofins	7439-96-5	6010C	—	µg/L	—	—	—	—	—
Total Potassium	Eurofins	7440-09-7	6010C	—	µg/L	—	—	—	—	—
Total Sodium	Eurofins	7440-23-5	6010C	—	µg/L	—	—	—	—	—
Dissolved Orthophosphate Phosphorous		—	SM4500 PB5 DIS	—	mg/L	—	—	—	—	—
Total Orthophosphate Phosphorous		—	SM4500 PE	—	mg/L	—	—	—	—	—
Dissolved Phosphorous		—	SM4500 PB5 DIS	—	mg/L	—	—	—	—	—
Total Phosphorous		—	SM4500 PE	—	mg/L	—	—	—	—	—
Field Parameters										
Total Dissolved Solids		—	—	—	ppm	184.50	—	269.45	201.82	216.17
pH		—	—	—	—	7.46	—	7.85	8.47	7.83
Specific Conductivity		—	—	—	mS/cm	0.28	—	0.41	0.31	0.33
Dissolved Oxygen		—	—	—	mg/L	8.44	—	2.12	6.37	3.88
Turbidity		—	—	—	NTU	0.48	—	0.28	0.23	0.11
Temperature		—	—	—	°C	25.85	—	26.06	25.55	25.24
ORP		—	—	—	mV	286.2	—	28.8	197.1	200.9
Salinity		—	—	—	PSU	0.14	—	0.20	0.15	0.16

Table B.3.1 Natural Attenuation Parameters, Current Reporting Period (cont'd)

					Location	RHMW14-03	RHMW15-05	RHMW16	RHMW16	RHMW17
					COC ID	RHMW14-03-WGN01G-23Q4	RHMW15-05-WGN01G-23Q4	RHMW16-WGN01LF-23Q4	RHMW16-WGFD01LF-23Q4	RHMW17-WGN01LF-23Q4
					Collection Date	10/9/2023	10/11/2023	10/12/2023	10/12/2023	10/11/2023
					Sample Type	N	N	N	FD	N
					FD Parent Sample	—	—	—	RHMW16-WGN01LF-23Q4	—
Analyte	Laboratory	CAS No.	Method	Screening Criterion	Unit	Result	Result	Result	Result	Result
Natural Attenuation Parameters										
Methane	Eurofins	74-82-8	RSK175	—	µg/L	**0.34 J**	<0.25 U	<0.25 U	—	**0.18 J**
Iron, Ion (Fe2+)	Eurofins	15438-31-0	3500_FE_B	—	mg/L	<0.32 U	<0.32 U	<0.32 U	—	<0.32 U
Nitrate (as N)	Eurofins	14797-55-8	300.0	—	mg/L	**0.44**	**0.38**	**0.34**	—	**0.19 J**
Nitrate (as NO3 anion)c	—	14797-55-8_A	—	—	mg/L	**1.9**	**1.7**	**1.5**	—	**0.8 J**
Sulfate (as SO4)	Eurofins	14808-79-8	300	—	mg/L	**7.8**	**8.8**	**10**	—	**20**
Chloride (as Cl)	Eurofins	16887-00-6	300	—	mg/L	**45**	**53**	**73**	—	**47**
Nitrogen, Nitrate-Nitrite	Eurofins	NO3NO2N	353.2	—	mg/L	**0.45**	**0.46**	**0.33**	—	**0.26**
Alkalinity, Bicarbonate	Eurofins	ALKB	2320B	—	mg/L	**56**	**58**	**45**	—	**90**
Alkalinity, Carbonate (as CO3)	Eurofins	ALKC	2320B	—	mg/L	<7 U	<7 U	<7 U	—	<7 U
Alkalinity, Total (as CaCO3)	Eurofins	ALK	2320B	—	mg/L	**56**	**58**	**45**	—	**90**
Total Organic Carbon	Energy	TOC	9060A	—	mg/L	<1 U	1 R	<1 U	—	1 R
Dissolved Organic Carbon	Eurofins	DOC	9060A	—	mg/L	—	—	—	—	—
General Chemistry										
Bromide	Eurofins	24959-67-9	300	—	mg/L	—	—	—	—	—
Fluoride	Eurofins	16984-48-8	300	—	mg/L	—	—	—	—	—
Dissolved Silica	EMAX	7631-86-9	4500-SI-D	—	mg/L	—	—	—	—	—
Total Silica	EMAX	7631-86-9	4500-SI-D	—	mg/L	—	—	—	—	—
Total Calcium	Eurofins	7440-70-2	6010C	—	µg/L	—	—	—	—	—
Total Magnesium	Eurofins	7439-95-4	6010C	—	µg/L	—	—	—	—	—
Total Manganese	Eurofins	7439-96-5	6010C	—	µg/L	—	—	—	—	—
Total Potassium	Eurofins	7440-09-7	6010C	—	µg/L	—	—	—	—	—
Total Sodium	Eurofins	7440-23-5	6010C	—	µg/L	—	—	—	—	—
Dissolved Orthophosphate Phosphorous		—	SM4500 PB5 DIS	—	mg/L	—	—	—	—	—
Total Orthophosphate Phosphorous		—	SM4500 PE	—	mg/L	—	—	—	—	—
Dissolved Phosphorous		—	SM4500 PB5 DIS	—	mg/L	—	—	—	—	—
Total Phosphorous		—	SM4500 PE	—	mg/L	—	—	—	—	—
Field Parameters										
Total Dissolved Solids		—	—	—	ppm	186.62	204.45	240.71	—	247.98
pH		—	—	—	—	7.16	7.82	8.03	—	7.50
Specific Conductivity		—	—	—	mS/cm	0.29	0.31	0.37	—	0.38
Dissolved Oxygen		—	—	—	mg/L	2.28	0.92	8.62	—	3.45
Turbidity		—	—	—	NTU	0.73	0.53	0.22	—	0.00
Temperature		—	—	—	°C	26.99	26.60	26.00	—	24.83
ORP		—	—	—	mV	259.6	141.6	231.7	—	260.4
Salinity		—	—	—	PSU	0.14	0.15	0.18	—	0.18

Table B.3.1 Natural Attenuation Parameters, Current Reporting Period (cont'd)

					Location	RHMW18	RHMW19	RHMW20	RHP01	RHP02
					COC ID	RHMW18-WGN01LF-23Q4	RHMW19-WGN01LF-23Q4	RHMW20-WGN01LF-23Q4	RHP01-WGN01LF-23Q4	RHP02-WGN01LF-23Q4
					Collection Date	12/31/2023	10/12/2023	10/10/2023	10/9/2023	10/13/2023
					Sample Type	N	N	N	N	N
					FD Parent Sample	—	—	—	—	—
Analyte	Laboratory	CAS No.	Method	Screening Criterion	Unit	Result	Result	Result	Result	Result
Natural Attenuation Parameters										
Methane	Eurofins	74-82-8	RSK175	—	µg/L	<0.25 U	<0.25 U	**0.19 J**	**0.19 J**	<0.25 U
Iron, Ion (Fe2+)	Eurofins	15438-31-0	3500_FE_B	—	mg/L	<0.32 U	<0.32 U	<0.32 UJ	<0.32 U	<0.32 U
Nitrate (as N)	Eurofins	14797-55-8	300.0	—	mg/L	<0.12 U	**0.4**	**0.38**	**0.94**	**0.65**
Nitrate (as NO3 anion)c	—	14797-55-8_A	—	—	mg/L	—	**1.8**	**1.7**	**4.2**	**2.9**
Sulfate (as SO4)	Eurofins	14808-79-8	300	—	mg/L	**19**	**6.7**	**61**	**62**	**67**
Chloride (as Cl)	Eurofins	16887-00-6	300	—	mg/L	**52**	**42**	**450**	**72**	**77**
Nitrogen, Nitrate-Nitrite	Eurofins	NO3NO2N	353.2	—	mg/L	<0.12 U	**0.42**	**0.42**	**1.2 J**	**0.79**
Alkalinity, Bicarbonate	Eurofins	ALKB	2320B	—	mg/L	**100**	**53**	**90**	**140**	**150**
Alkalinity, Carbonate (as CO3)	Eurofins	ALKC	2320B	—	mg/L	<7 U	<7 U	<7 U	<7 U	<7 U
Alkalinity, Total (as CaCO3)	Eurofins	ALK	2320B	—	mg/L	**100**	**53**	**90**	**140**	**150**
Total Organic Carbon	Energy	TOC	9060A	—	mg/L	**5.5**	<1 U	1 R	**0.57 J**	**0.81 J**
Dissolved Organic Carbon	Eurofins	DOC	9060A	—	mg/L	**4.4 J+**	—	—	—	—
General Chemistry										
Bromide	Eurofins	24959-67-9	300	—	mg/L	**0.16 J**	—	—	—	—
Fluoride	Eurofins	16984-48-8	300	—	mg/L	**0.27**	—	—	—	—
Dissolved Silica	EMAX	7631-86-9	4500-SI-D	—	mg/L	**61**	—	**60**	—	—
Total Silica	EMAX	7631-86-9	4500-SI-D	—	mg/L	**62**	—	**60**	—	—
Total Calcium	Eurofins	7440-70-2	6010C	—	µg/L	**9900**	—	—	—	—
Total Magnesium	Eurofins	7439-95-4	6010C	—	µg/L	**7400**	—	—	—	—
Total Manganese	Eurofins	7439-96-5	6010C	—	µg/L	**8.8 J+**	—	—	—	—
Total Potassium	Eurofins	7440-09-7	6010C	—	µg/L	**5800**	—	—	—	—
Total Sodium	Eurofins	7440-23-5	6010C	—	µg/L	**58000**	—	—	—	—
Dissolved Orthophosphate Phosphorous		—	SM4500 PB5 DIS	—	mg/L	—	—	—	—	—
Total Orthophosphate Phosphorous		—	SM4500 PE	—	mg/L	—	—	—	—	—
Dissolved Phosphorous		—	SM4500 PB5 DIS	—	mg/L	—	—	—	—	—
Total Phosphorous		—	SM4500 PE	—	mg/L	—	—	—	—	—
Field Parameters										
Total Dissolved Solids		—	—	—	ppm	256.82	182.31	1165.97	422.90	461.46
pH		—	—	—	—	8.68	7.58	7.21	6.80	6.87
Specific Conductivity		—	—	—	mS/cm	0.40	0.28	1.79	0.65	0.71
Dissolved Oxygen		—	—	—	mg/L	0.60	8.58	4.62	6.79	7.25
Turbidity		—	—	—	NTU	3.76	0.64	0.31	0.03	0.17
Temperature		—	—	—	°C	25.40	24.15	25.61	24.76	25.11
ORP		—	—	—	mV	85.1	278.5	229.0	284.8	291.7
Salinity		—	—	—	PSU	0.19	0.13	0.92	0.32	0.35

Table B.3.1 Natural Attenuation Parameters, Current Reporting Period (cont'd)

					Location	RHP03	RHP04A	RHP04B	RHP04C	RHP05
					COC ID	RHP03-WGN01LF-23Q4	RHP04A-WGN01LF-23Q4	RHP04B-WGN01LF-23Q4	RHP04C-WGN01LF-23Q4	RHP05-WGN01LF-23Q4
					Collection Date	10/13/2023	10/12/2023	10/12/2023	10/13/2023	10/13/2023
					Sample Type	N	N	N	N	N
					FD Parent Sample	—	—	—	—	—
Analyte	Laboratory	CAS No.	Method	Screening Criterion	Unit	Result	Result	Result	Result	Result
Natural Attenuation Parameters										
Methane	Eurofins	74-82-8	RSK175	—	µg/L	<0.25 U	<0.25 U	**2.1**	**0.56**	<0.25 U
Iron, Ion (Fe2+)	Eurofins	15438-31-0	3500_FE_B	—	mg/L	<0.32 U	<0.32 U	**0.23 J**	<0.32 U	<0.32 U
Nitrate (as N)	Eurofins	14797-55-8	300.0	—	mg/L	**0.82**	**0.95**	**0.068 J**	**0.33**	**1.8**
Nitrate (as NO3 anion)c	—	14797-55-8_A	—	—	mg/L	**3.6**	**4.2**	**0.3 J**	**1.5**	**8**
Sulfate (as SO4)	Eurofins	14808-79-8	300	—	mg/L	**39**	**45**	**42**	**64**	**41**
Chloride (as Cl)	Eurofins	16887-00-6	300	—	mg/L	**210**	**180**	**96**	**340**	**180**
Nitrogen, Nitrate-Nitrite	Eurofins	NO3NO2N	353.2	—	mg/L	**3.9**	**0.99**	**0.077 J**	**0.4**	**1.9**
Alkalinity, Bicarbonate	Eurofins	ALKB	2320B	—	mg/L	**130**	**110**	**82**	**54**	**100**
Alkalinity, Carbonate (as CO3)	Eurofins	ALKC	2320B	—	mg/L	<7 U	<7 U	<7 U	<7 U	<7 U
Alkalinity, Total (as CaCO3)	Eurofins	ALK	2320B	—	mg/L	**130**	**110**	**82**	**54**	**100**
Total Organic Carbon	Energy	TOC	9060A	—	mg/L	1 R	<1 U	**4.9**	**0.59 J**	**0.54 J-**
Dissolved Organic Carbon	Eurofins	DOC	9060A	—	mg/L	—	—	—	—	—
General Chemistry										
Bromide	Eurofins	24959-67-9	300	—	mg/L	—	—	—	—	—
Fluoride	Eurofins	16984-48-8	300	—	mg/L	—	—	—	—	—
Dissolved Silica	EMAX	7631-86-9	4500-SI-D	—	mg/L	—	**55**	**57**	—	—
Total Silica	EMAX	7631-86-9	4500-SI-D	—	mg/L	—	**58**	**57**	—	—
Total Calcium	Eurofins	7440-70-2	6010C	—	µg/L	—	—	—	—	—
Total Magnesium	Eurofins	7439-95-4	6010C	—	µg/L	—	—	—	—	—
Total Manganese	Eurofins	7439-96-5	6010C	—	µg/L	—	—	—	—	—
Total Potassium	Eurofins	7440-09-7	6010C	—	µg/L	—	—	—	—	—
Total Sodium	Eurofins	7440-23-5	6010C	—	µg/L	—	—	—	—	—
Dissolved Orthophosphate Phosphorous		—	SM4500 PB5 DIS	—	mg/L	—	—	—	—	—
Total Orthophosphate Phosphorous		—	SM4500 PE	—	mg/L	—	—	—	—	—
Dissolved Phosphorous		—	SM4500 PB5 DIS	—	mg/L	—	—	—	—	—
Total Phosphorous		—	SM4500 PE	—	mg/L	—	—	—	—	—
Field Parameters										
Total Dissolved Solids		—	—	—	ppm	672.50	597.94	395.07	866.06	610.49
pH		—	—	—	—	7.35	7.52	7.92	7.58	7.32
Specific Conductivity		—	—	—	mS/cm	1.03	0.92	0.61	1.33	0.94
Dissolved Oxygen		—	—	—	mg/L	4.27	3.54	0.20	3.67	6.80
Turbidity		—	—	—	NTU	0.13	0.39	0.28	0.14	0.23
Temperature		—	—	—	°C	25.41	25.83	26.44	26.12	26.68
ORP		—	—	—	mV	195.9	137.0	-270.5	226.7	194.5
Salinity		—	—	—	PSU	0.52	0.46	0.30	0.67	0.47

Table B.3.1 Natural Attenuation Parameters, Current Reporting Period (cont'd)

					Location	RHP06	RHP06	RHP07	RHP08	HDMW2253-03
					COC ID	RHP06-WGN01LF-23Q4	RHP06-WGFD01LF-23Q4	RHP07-WGN01LF-23Q4	RHP08-WGN01LF-23Q4	HDMW2253-03-WGN01LF-23Q4
					Collection Date	10/11/2023	10/11/2023	10/10/2023	10/11/2023	10/3/2023
					Sample Type	N	FD	N	N	N
					FD Parent Sample	—	RHP06-WGN01LF-23Q4	—	—	—
Analyte	Laboratory	CAS No.	Method	Screening Criterion	Unit	Result	Result	Result	Result	Result
Natural Attenuation Parameters										
Methane	Eurofins	74-82-8	RSK175	—	µg/L	**0.2 J**	—	<0.25 U	**0.18 J**	**2.5**
Iron, Ion (Fe2+)	Eurofins	15438-31-0	3500_FE_B	—	mg/L	<0.32 U	—	<0.32 U	<0.32 U	**0.85 J**
Nitrate (as N)	Eurofins	14797-55-8	300.0	—	mg/L	**2.2**	—	**1**	**0.8**	**0.21**
Nitrate (as NO3 anion)c	—	14797-55-8_A	—	—	mg/L	**9.7**	—	**4.4**	**3.5**	**0.9**
Sulfate (as SO4)	Eurofins	14808-79-8	300	—	mg/L	**87**	—	**41**	**32**	**28**
Chloride (as Cl)	Eurofins	16887-00-6	300	—	mg/L	**220**	—	**83**	**120**	**85**
Nitrogen, Nitrate-Nitrite	Eurofins	NO3NO2N	353.2	—	mg/L	**2.5**	—	**3.4**	**0.89**	**0.22**
Alkalinity, Bicarbonate	Eurofins	ALKB	2320B	—	mg/L	**75**	—	**110**	**79**	**49**
Alkalinity, Carbonate (as CO3)	Eurofins	ALKC	2320B	—	mg/L	<7 U	—	<7 U	<7 U	<7 U
Alkalinity, Total (as CaCO3)	Eurofins	ALK	2320B	—	mg/L	**75**	—	**110**	**79**	**49**
Total Organic Carbon	Energy	TOC	9060A	—	mg/L	**0.57 J-**	—	<1 U	**0.62 J-**	<1 U
Dissolved Organic Carbon	Eurofins	DOC	9060A	—	mg/L	—	—	—	—	—
General Chemistry										
Bromide	Eurofins	24959-67-9	300	—	mg/L	—	—	—	—	—
Fluoride	Eurofins	16984-48-8	300	—	mg/L	—	—	—	—	—
Dissolved Silica	EMAX	7631-86-9	4500-SI-D	—	mg/L	**40**	—	—	**54**	—
Total Silica	EMAX	7631-86-9	4500-SI-D	—	mg/L	**41**	—	—	**55**	—
Total Calcium	Eurofins	7440-70-2	6010C	—	µg/L	—	—	—	—	—
Total Magnesium	Eurofins	7439-95-4	6010C	—	µg/L	—	—	—	—	—
Total Manganese	Eurofins	7439-96-5	6010C	—	µg/L	—	—	—	—	—
Total Potassium	Eurofins	7440-09-7	6010C	—	µg/L	—	—	—	—	—
Total Sodium	Eurofins	7440-23-5	6010C	—	µg/L	—	—	—	—	—
Dissolved Orthophosphate Phosphorous		—	SM4500 PB5 DIS	—	mg/L	—	—	—	—	—
Total Orthophosphate Phosphorous		—	SM4500 PE	—	mg/L	—	—	—	—	—
Dissolved Phosphorous		—	SM4500 PB5 DIS	—	mg/L	—	—	—	—	—
Total Phosphorous		—	SM4500 PE	—	mg/L	—	—	—	—	—
Field Parameters										
Total Dissolved Solids		—	—	—	ppm	696.11	—	389.58	429.04	288.02
pH		—	—	—	—	7.61	—	7.27	7.77	6.50
Specific Conductivity		—	—	—	mS/cm	1.07	—	0.60	0.66	0.44
Dissolved Oxygen		—	—	—	mg/L	7.16	—	7.98	4.49	0.48
Turbidity		—	—	—	NTU	0.94	—	0.05	1.42	12.12
Temperature		—	—	—	°C	25.94	—	23.40	25.65	23.35
ORP		—	—	—	mV	262.0	—	282.1	216.5	83.2
Salinity		—	—	—	PSU	0.54	—	0.29	0.32	0.22

Table B.3.1 Natural Attenuation Parameters, Current Reporting Period (cont'd)

					Location	HDMW2253-03
					COC ID	HDMW2253-03-WGN02LF-23Q4
					Collection Date	12/15/2023
					Sample Type	N
					FD Parent Sample	—
Analyte	Laboratory	CAS No.	Method	Screening Criterion	Unit	Result
Natural Attenuation Parameters						
Methane	Eurofins	74-82-8	RSK175	—	µg/L	—
Iron, Ion (Fe2+)	Eurofins	15438-31-0	3500_FE_B	—	mg/L	—
Nitrate (as N)	Eurofins	14797-55-8	300.0	—	mg/L	—
Nitrate (as NO3 anion)c	—	14797-55-8_A	—	—	mg/L	—
Sulfate (as SO4)	Eurofins	14808-79-8	300	—	mg/L	—
Chloride (as Cl)	Eurofins	16887-00-6	300	—	mg/L	—
Nitrogen, Nitrate-Nitrite	Eurofins	NO3NO2N	353.2	—	mg/L	—
Alkalinity, Bicarbonate	Eurofins	ALKB	2320B	—	mg/L	—
Alkalinity, Carbonate (as CO3)	Eurofins	ALKC	2320B	—	mg/L	—
Alkalinity, Total (as CaCO3)	Eurofins	ALK	2320B	—	mg/L	—
Total Organic Carbon	Energy	TOC	9060A	—	mg/L	—
Dissolved Organic Carbon	Eurofins	DOC	9060A	—	mg/L	—
General Chemistry						
Bromide	Eurofins	24959-67-9	300	—	mg/L	—
Fluoride	Eurofins	16984-48-8	300	—	mg/L	—
Dissolved Silica	EMAX	7631-86-9	4500-SI-D	—	mg/L	—
Total Silica	EMAX	7631-86-9	4500-SI-D	—	mg/L	—
Total Calcium	Eurofins	7440-70-2	6010C	—	µg/L	—
Total Magnesium	Eurofins	7439-95-4	6010C	—	µg/L	—
Total Manganese	Eurofins	7439-96-5	6010C	—	µg/L	—
Total Potassium	Eurofins	7440-09-7	6010C	—	µg/L	—
Total Sodium	Eurofins	7440-23-5	6010C	—	µg/L	—
Dissolved Orthophosphate Phosphorous		—	SM4500 PB5 DIS	—	mg/L	—
Total Orthophosphate Phosphorous		—	SM4500 PE	—	mg/L	—
Dissolved Phosphorous		—	SM4500 PB5 DIS	—	mg/L	—
Total Phosphorous		—	SM4500 PE	—	mg/L	—
Field Parameters						
Total Dissolved Solids		—	—	—	ppm	—
pH		—	—	—	—	—
Specific Conductivity		—	—	—	mS/cm	—
Dissolved Oxygen		—	—	—	mg/L	—
Turbidity		—	—	—	NTU	—
Temperature		—	—	—	°C	—
ORP		—	—	—	mV	—
Salinity		—	—	—	PSU	—

Notes:

Bold text indicates detected value.

Bold and shaded text indicates analyte exceeds the screening criterion.

— = not analyzed or not applicable

°C = degrees Celsius

µg/L = microgram per liter

CAS = Chemical Abstracts Service

COC = chain-of-custody

EB = equipment blank (rinsate)

FB = field blank (source water)

FD = field duplicate

ID = identification

J = estimated value

J- = estimated value, low bias

J+ = estimated value, high bias

mg/L = milligram per liter

mS/cm = millisiemens per centimeter

mV = millivolt

NTU = nephelometric turbidity unit

N = normal (primary) sample

no. = number

ppm = parts per million

PSU= practical salinity unit

QC = quality control

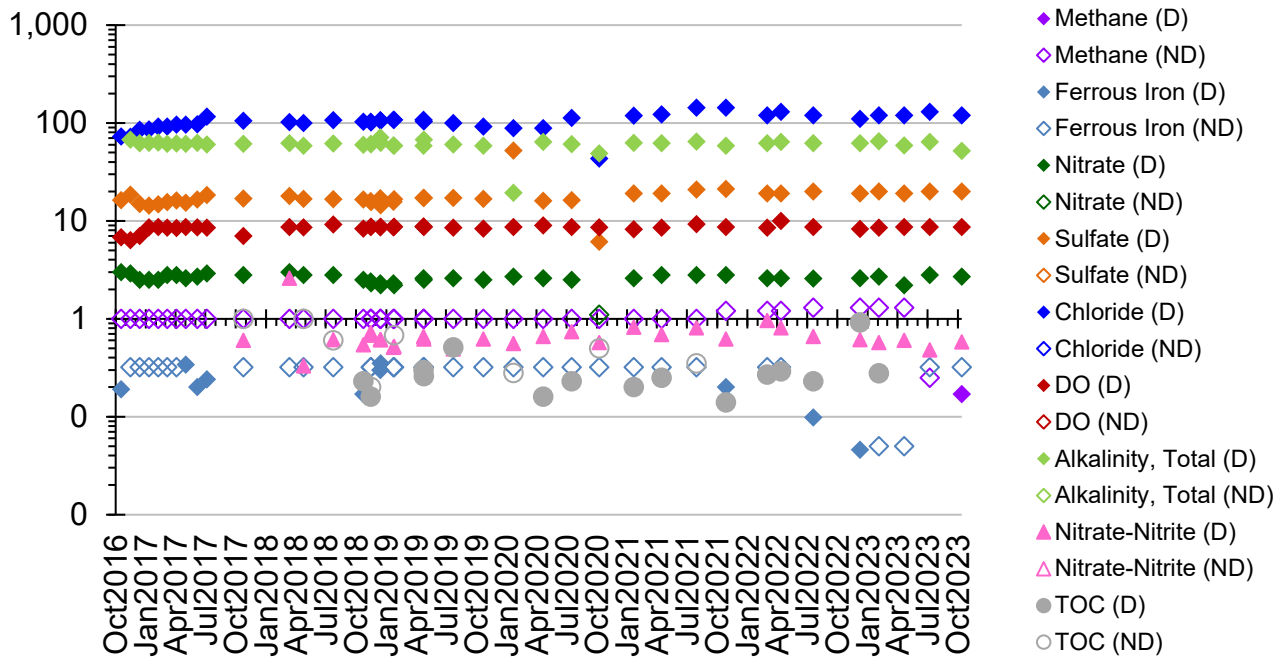
U = nondetect value

R = Rejected

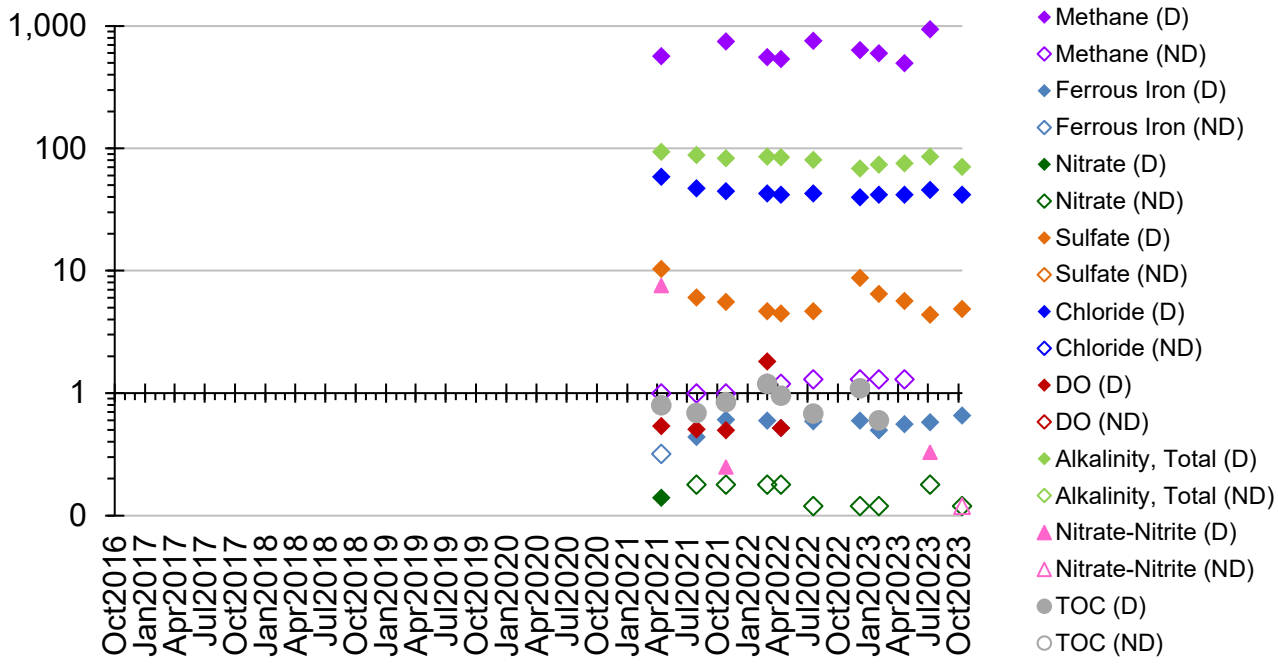
[c] Nitrate as N result converted to nitrate as NO3 anion by multiplying nitrate result by a factor of 0.2259 (CalEPA 2011).

Appendix B.3.2: Cumulative Natural Attenuation Parameter Graphs

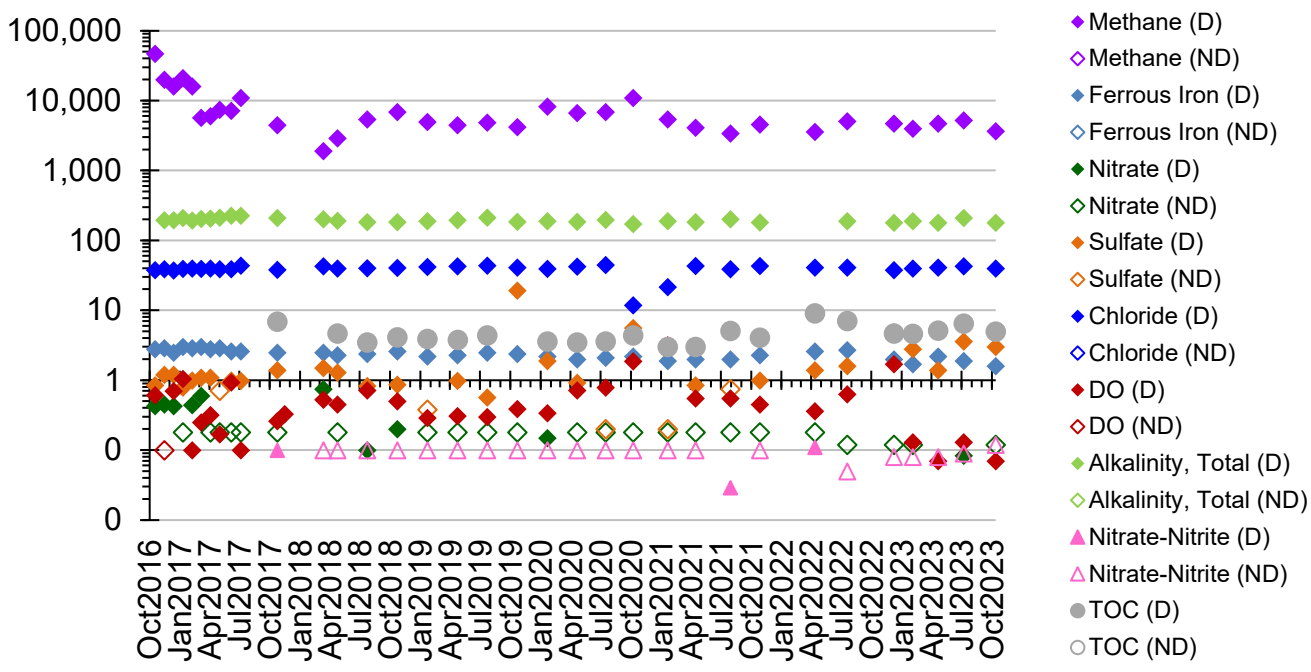
RHMW2254-01 NAPs



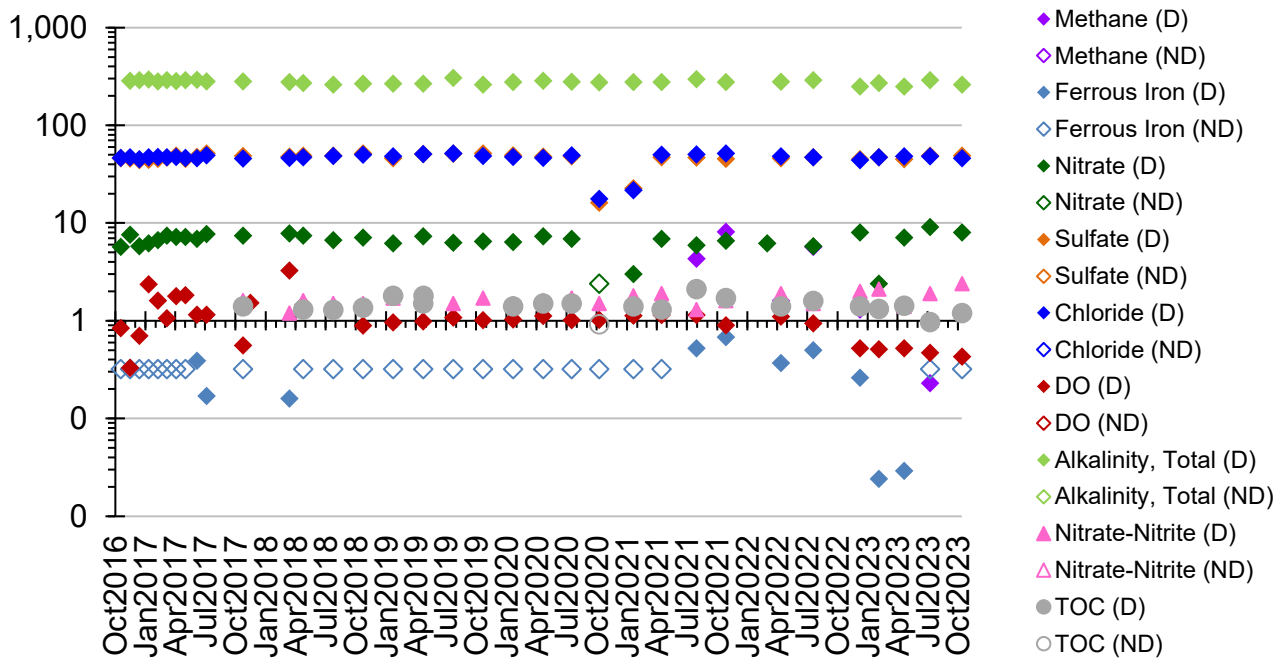
RHMW01R NAPs



RHMW02 NAPs



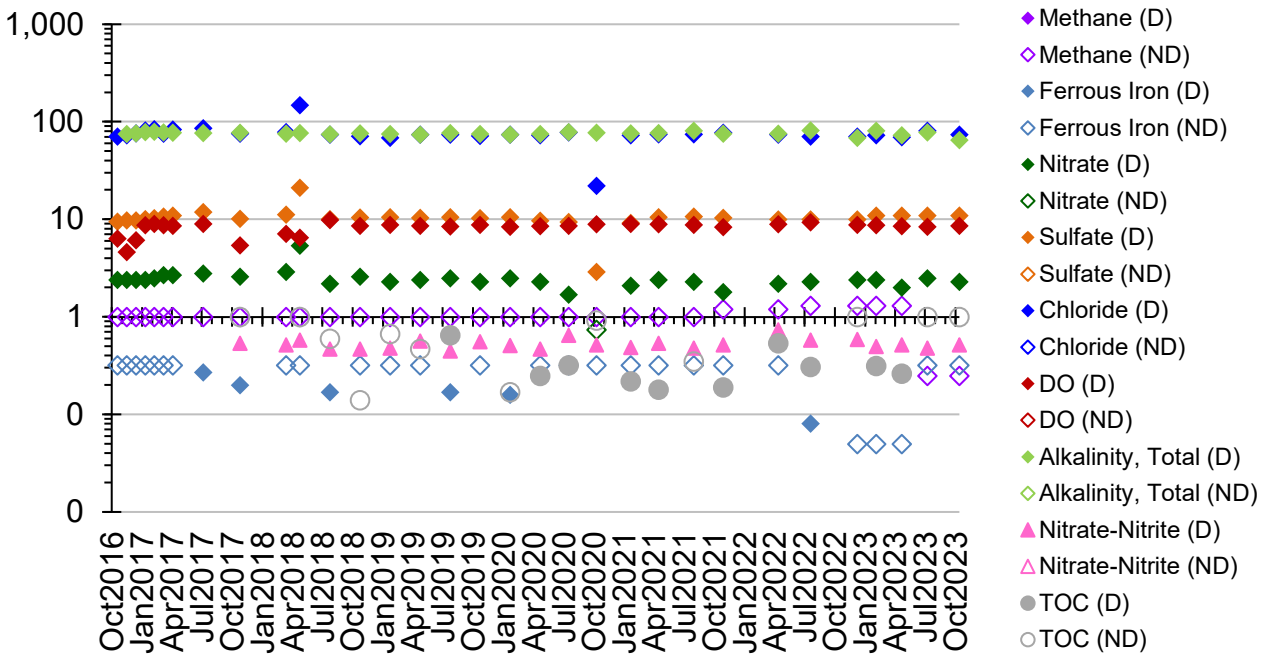
RHMW03 NAPs



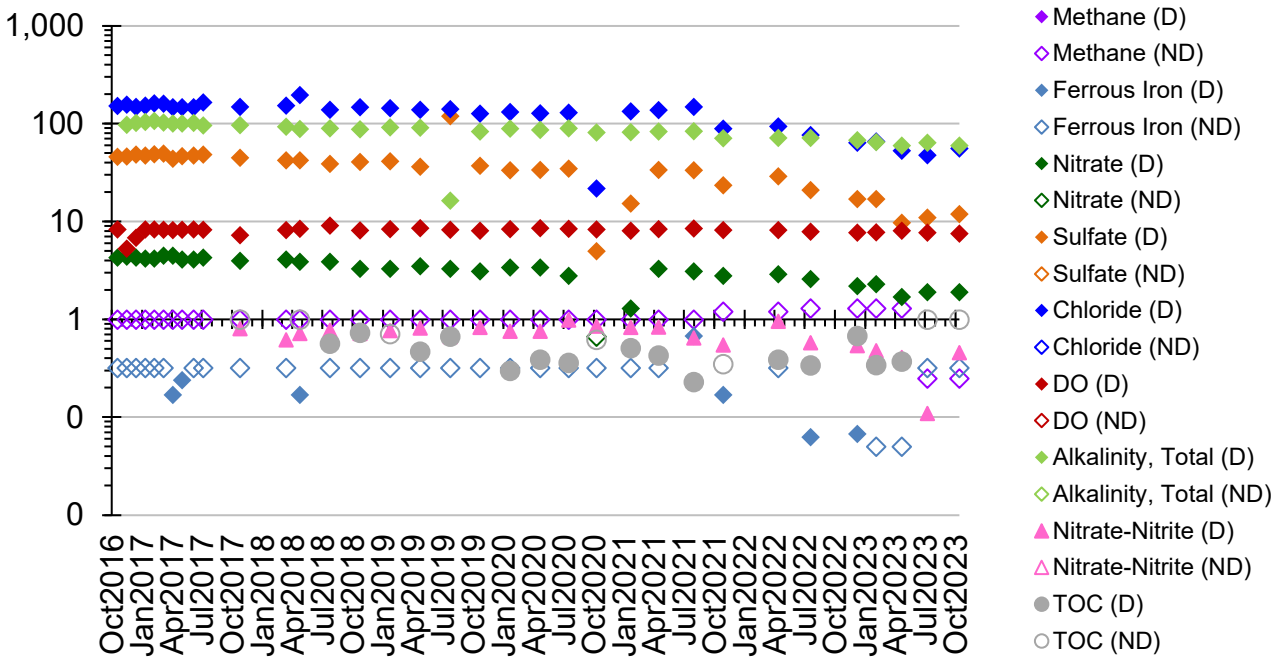
Methane results in micrograms per liter (µg/L or parts per billion).
All other results in milligrams per liter (mg/L or parts per million).

Appendix B.3.2: Cumulative Natural Attenuation Parameter Graphs (cont'd)

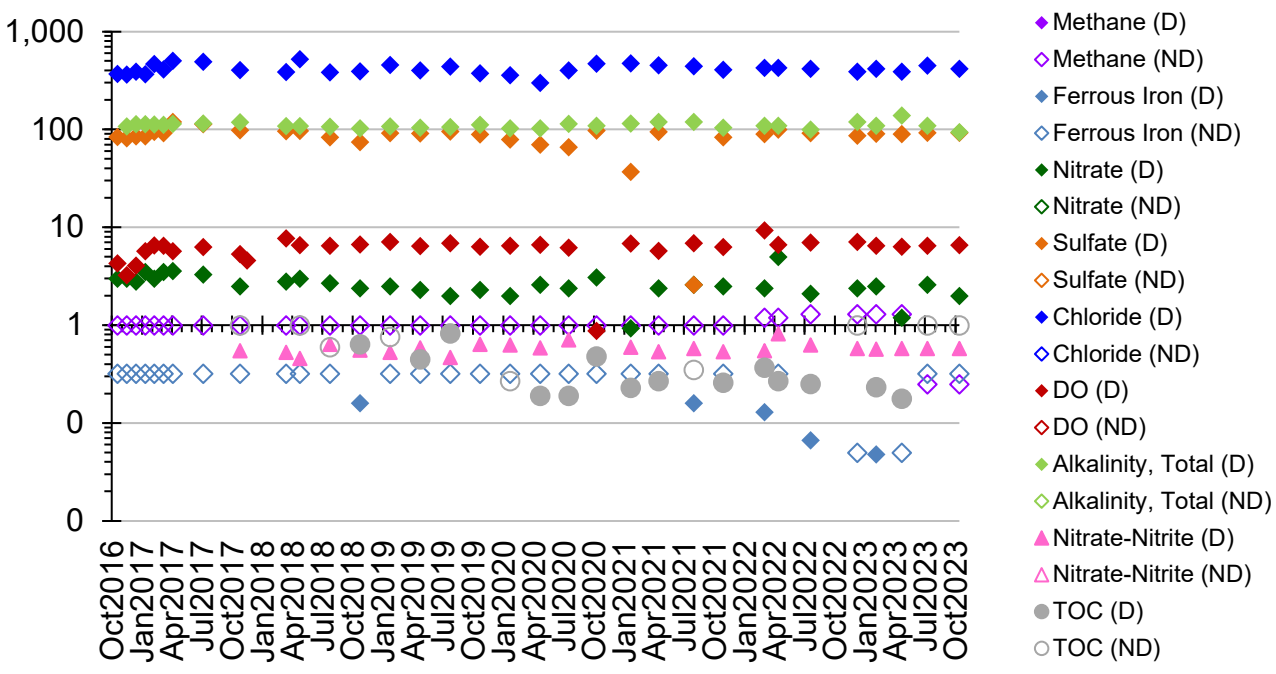
RHMW04 NAPs



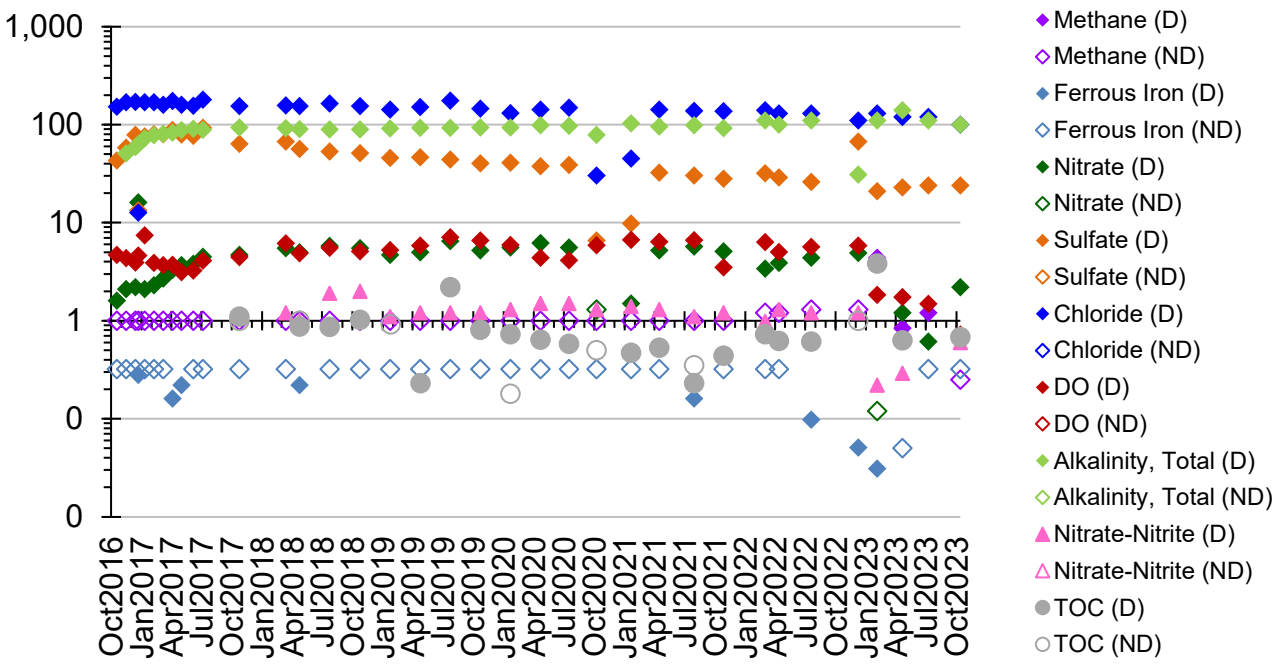
RHMW05 NAPs



RHMW06 NAPs

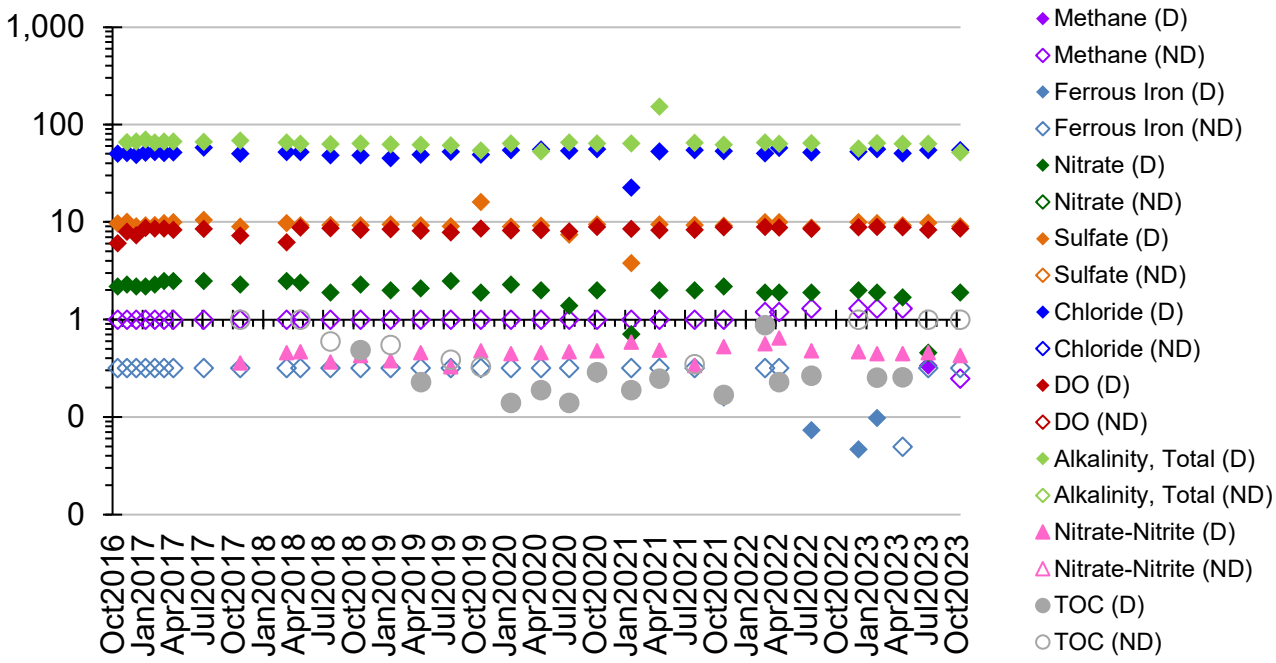


RHMW08 NAPs

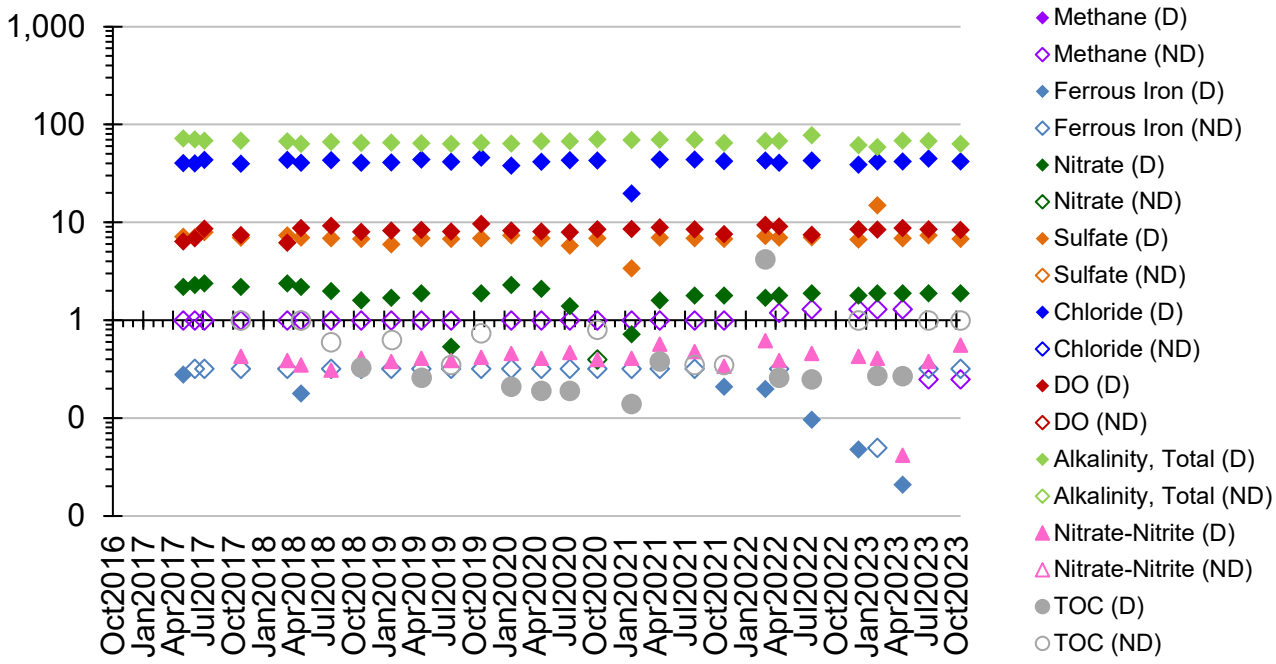


Methane results in micrograms per liter (µg/L or parts per billion).
All other results in milligrams per liter (mg/L or parts per million).

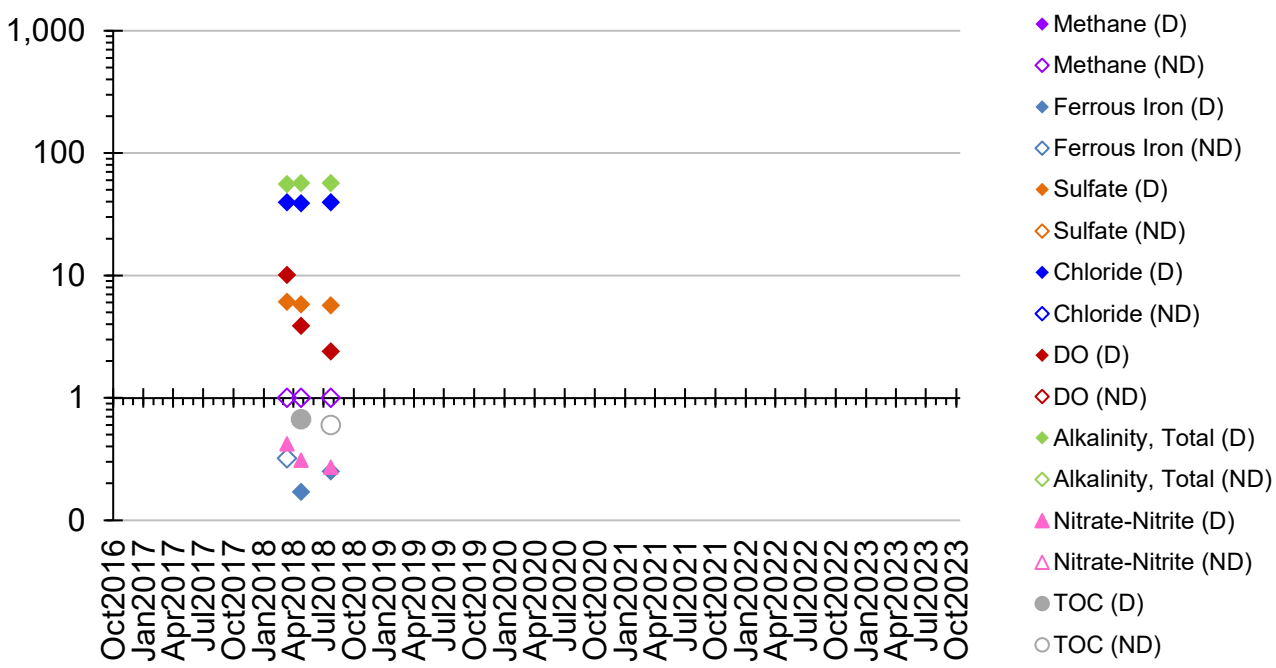
RHMW09 NAPs



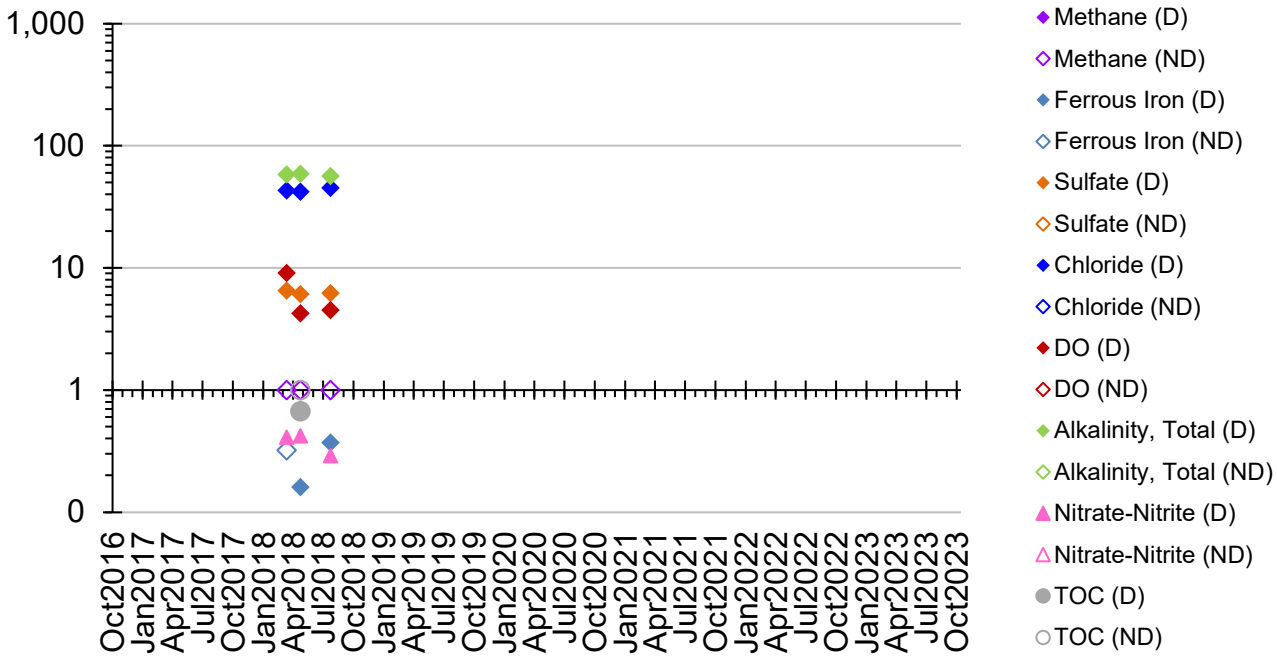
RHMW10 NAPs



RHMW11 Zone 1 NAPs

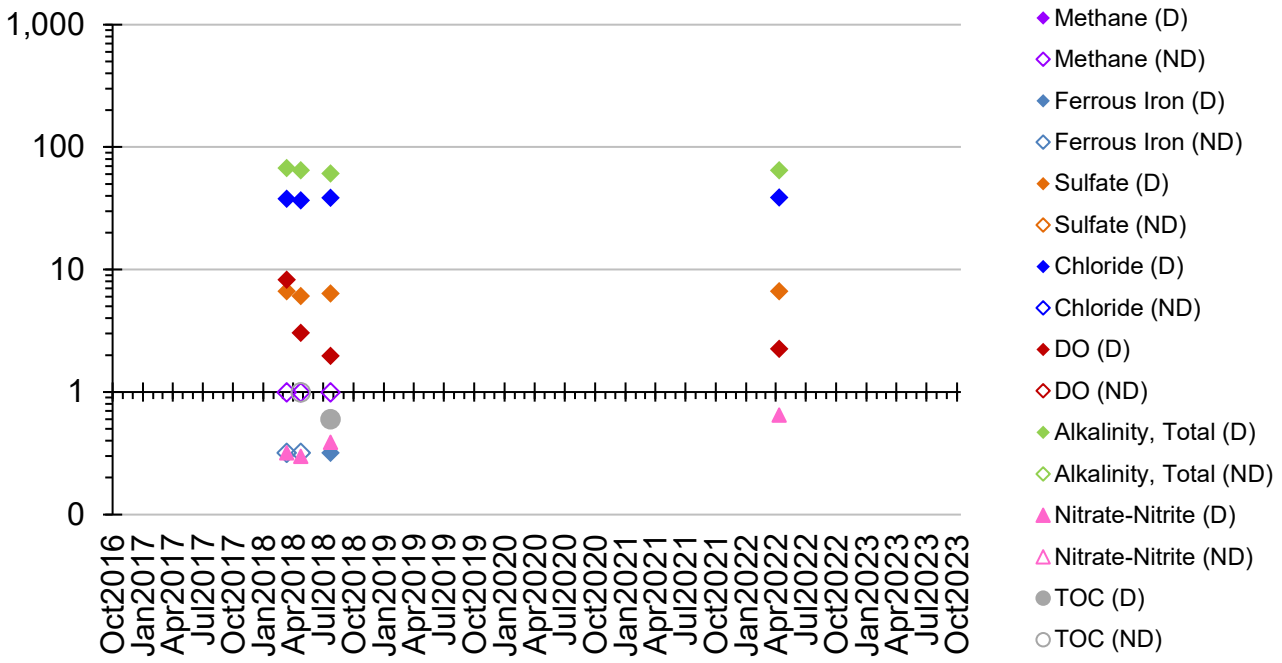


RHMW11 Zone 2 NAPs

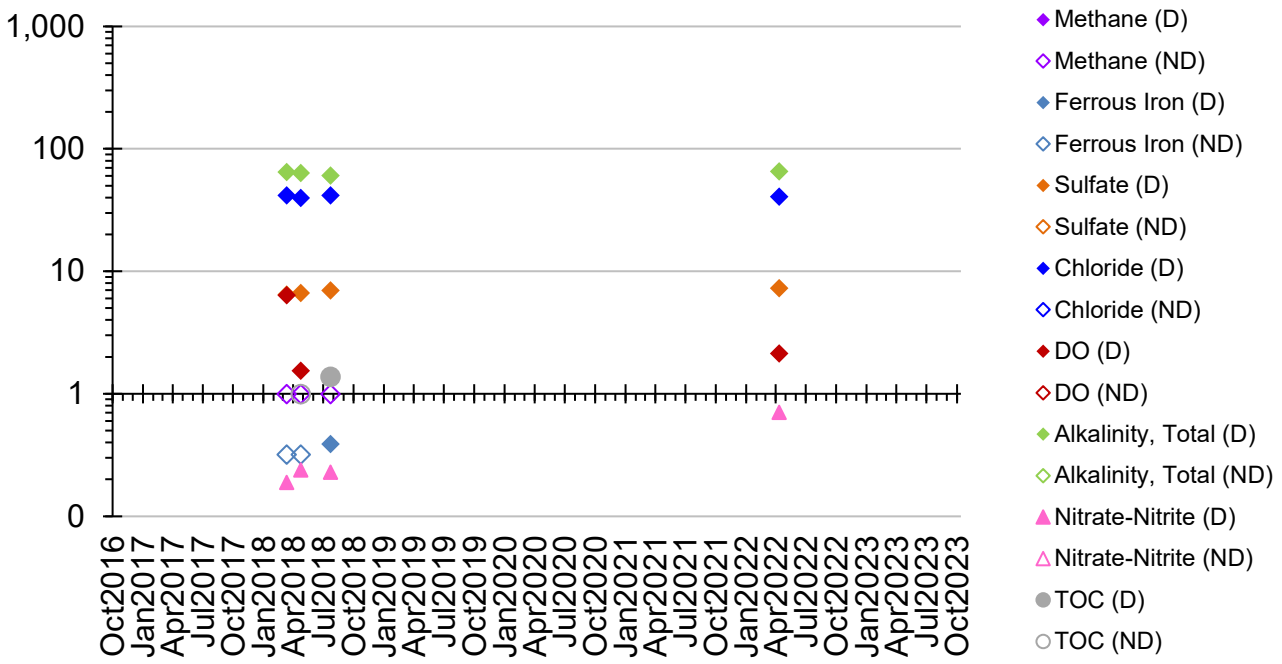


Methane results in micrograms per liter (µg/L or parts per billion).
All other results in milligrams per liter (mg/L or parts per million).

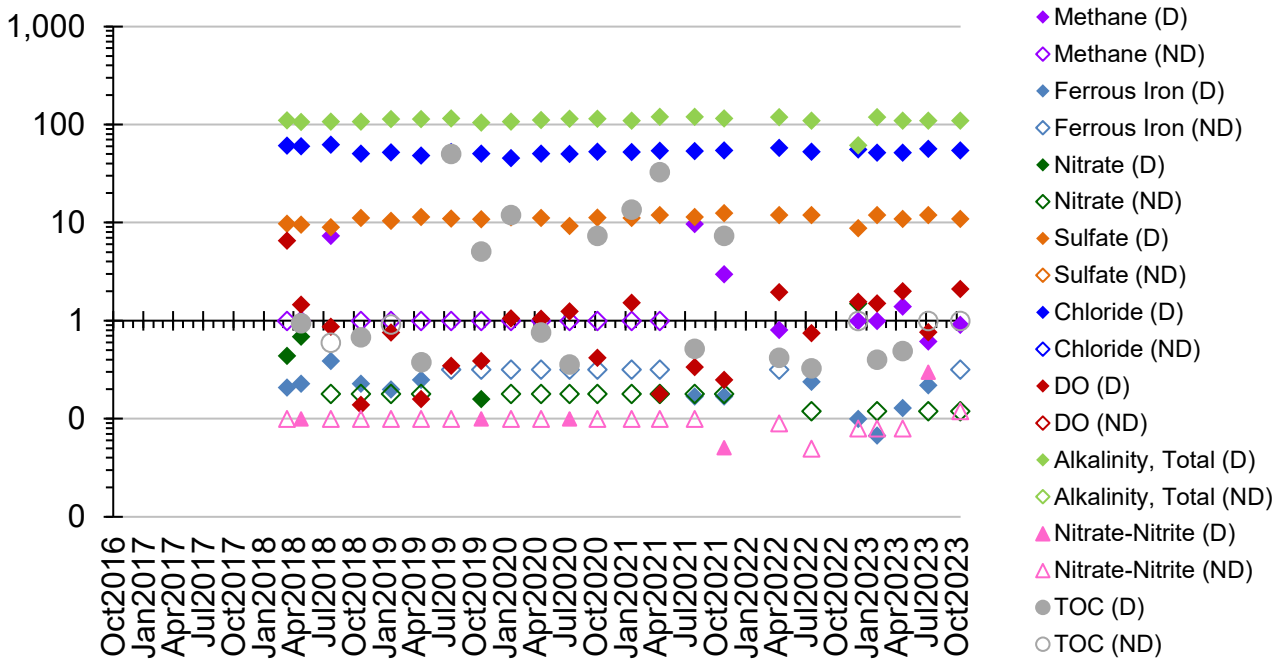
RHMW11 Zone 3 NAPs



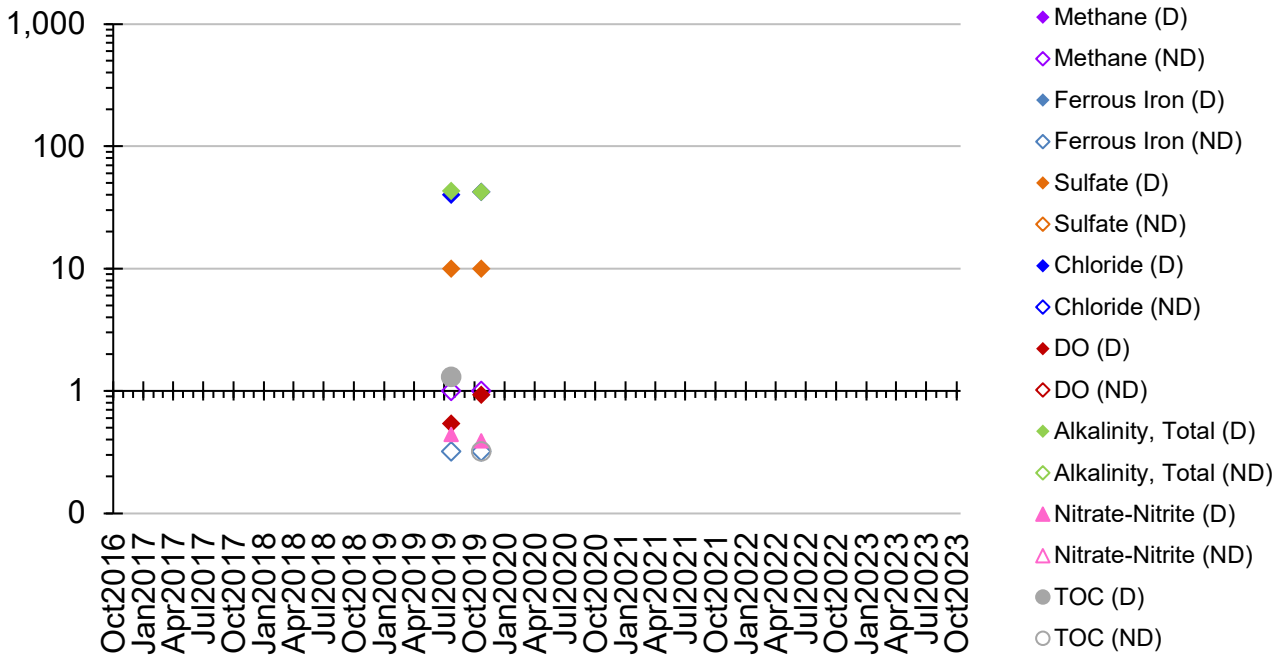
RHMW11 Zone 4 NAPs



RHMW11 Zone 5 NAPs



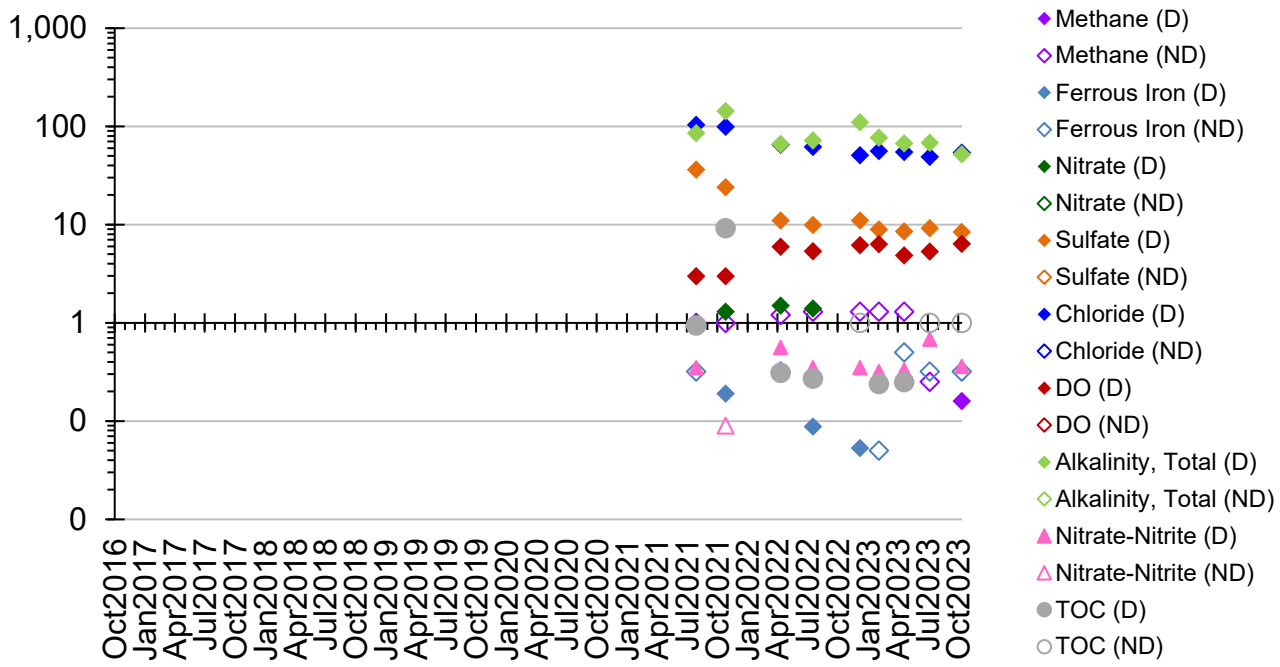
RHMW11 Zone 7 NAPs



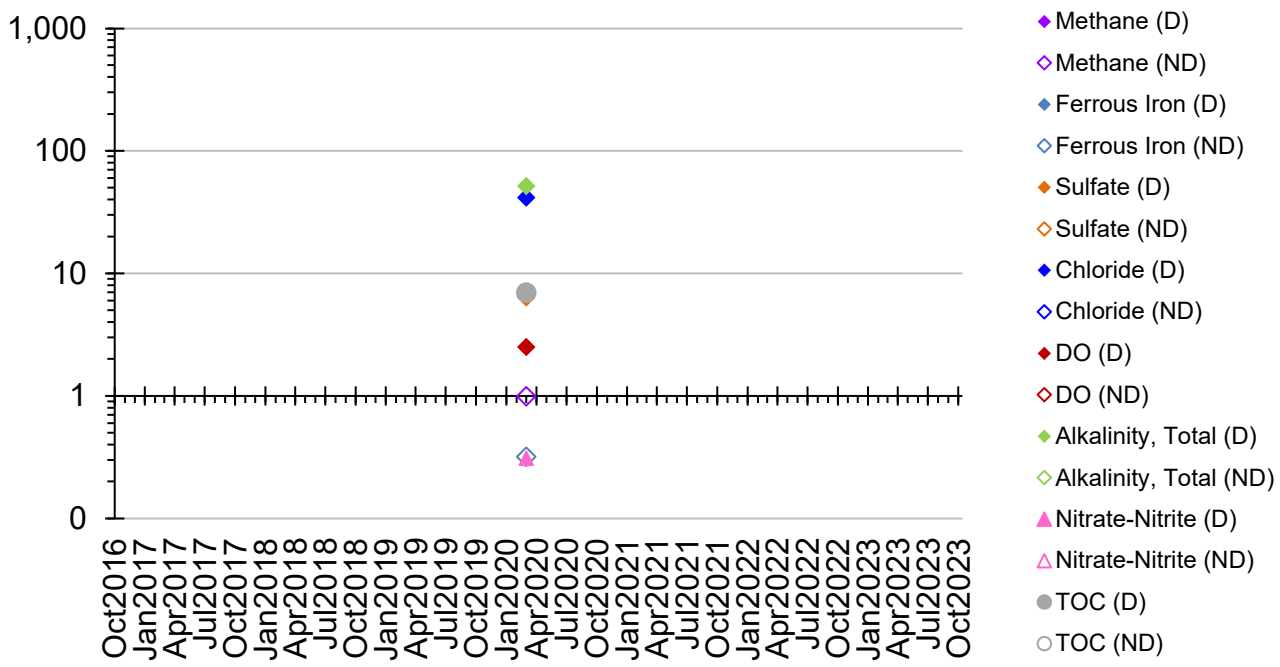
Methane results in micrograms per liter (µg/L or parts per billion).
All other results in milligrams per liter (mg/L or parts per million).

Appendix B.3.2: Cumulative Natural Attenuation Parameter Graphs (cont'd)

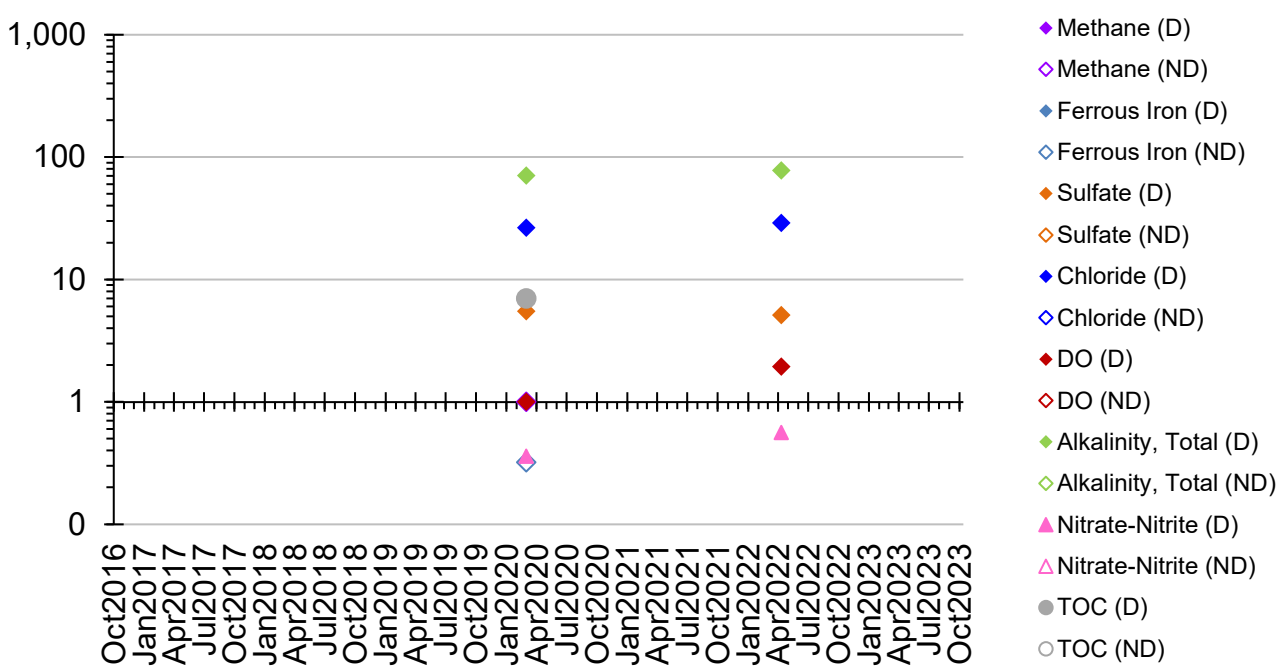
RHMW12A NAPs



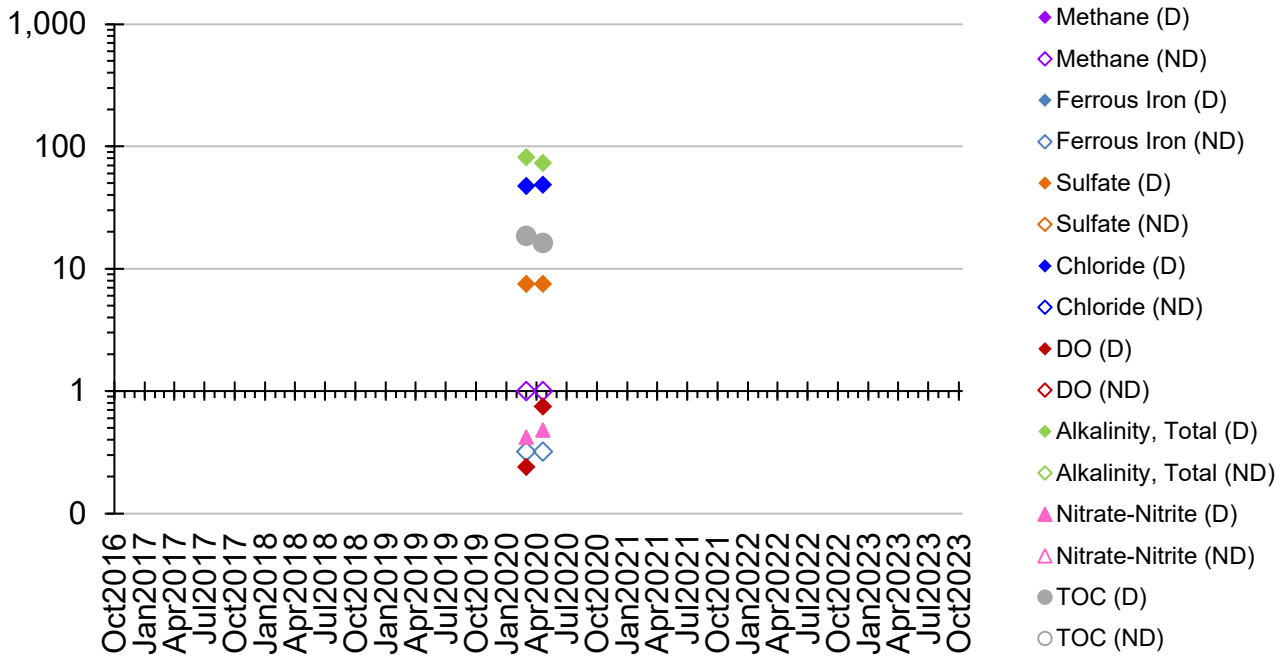
RHMW13 Zone 1 NAPs



RHMW13 Zone 2 NAPs



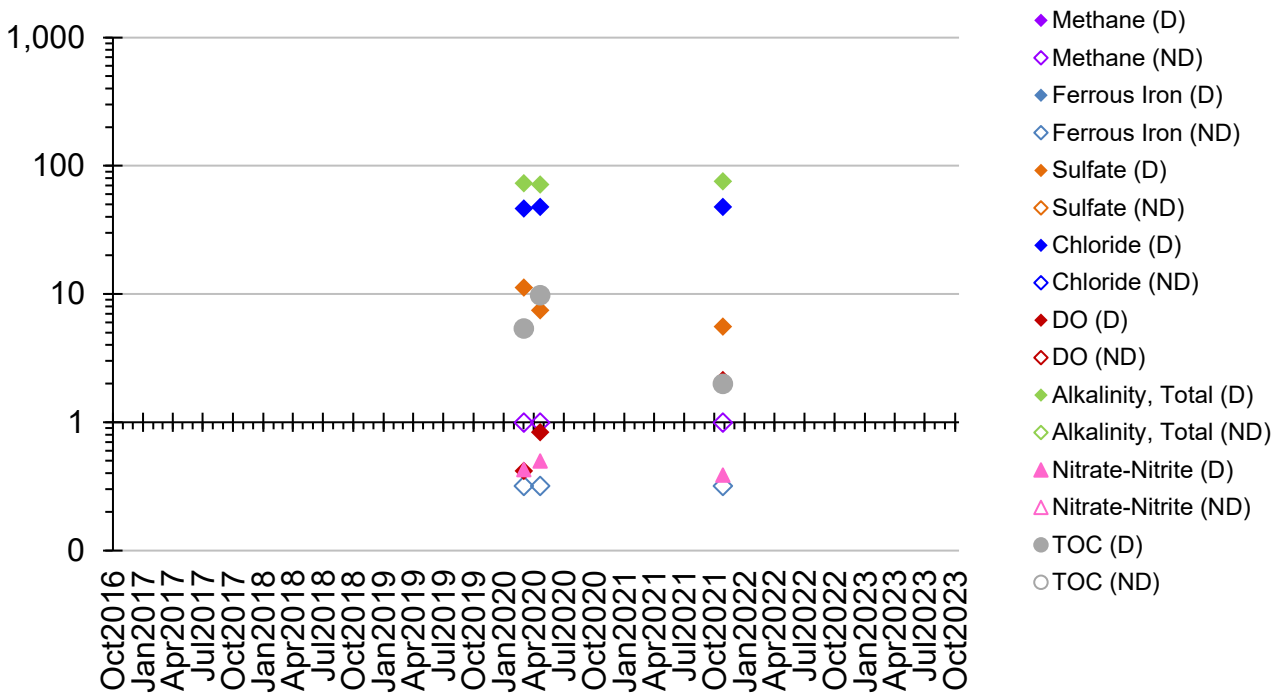
RHMW13 Zone 3 NAPs



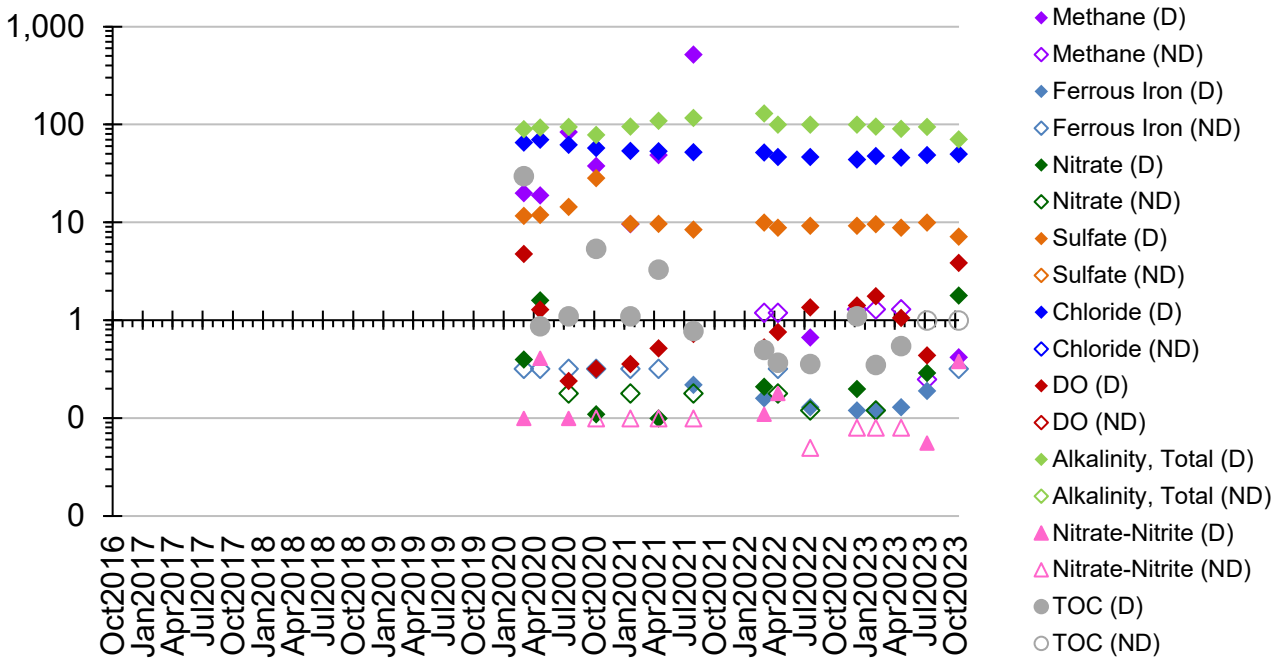
Methane results in micrograms per liter (µg/L or parts per billion).
All other results in milligrams per liter (mg/L or parts per million).

Appendix B.3.2: Cumulative Natural Attenuation Parameter Graphs (cont'd)

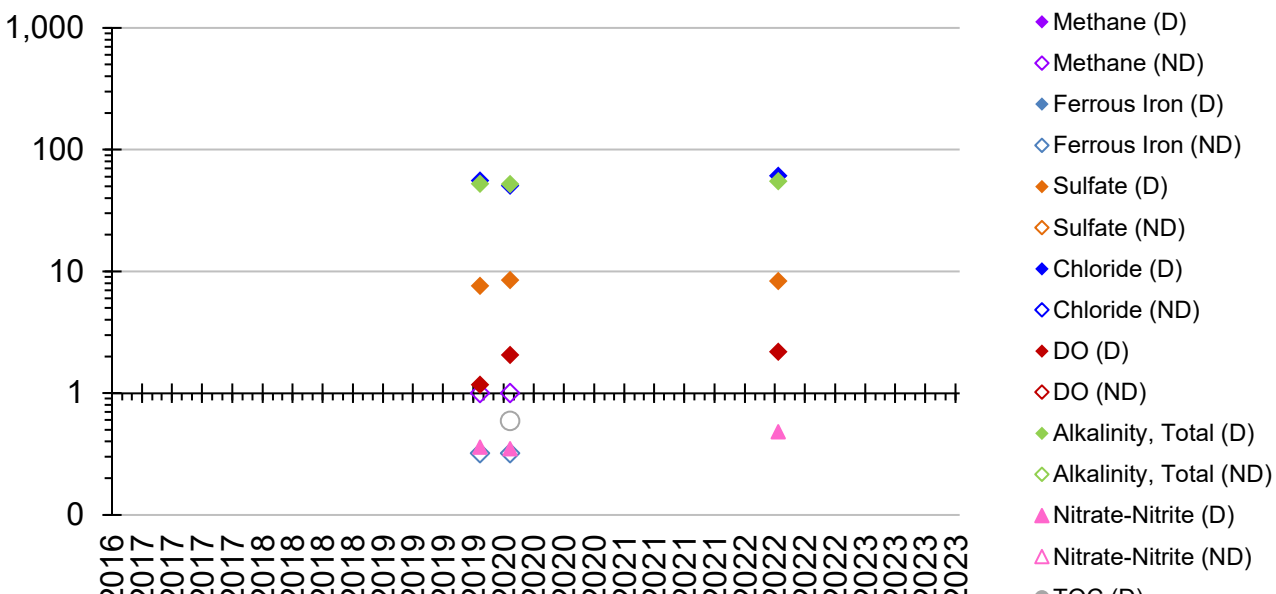
RHMW13 Zone 4 NAPs



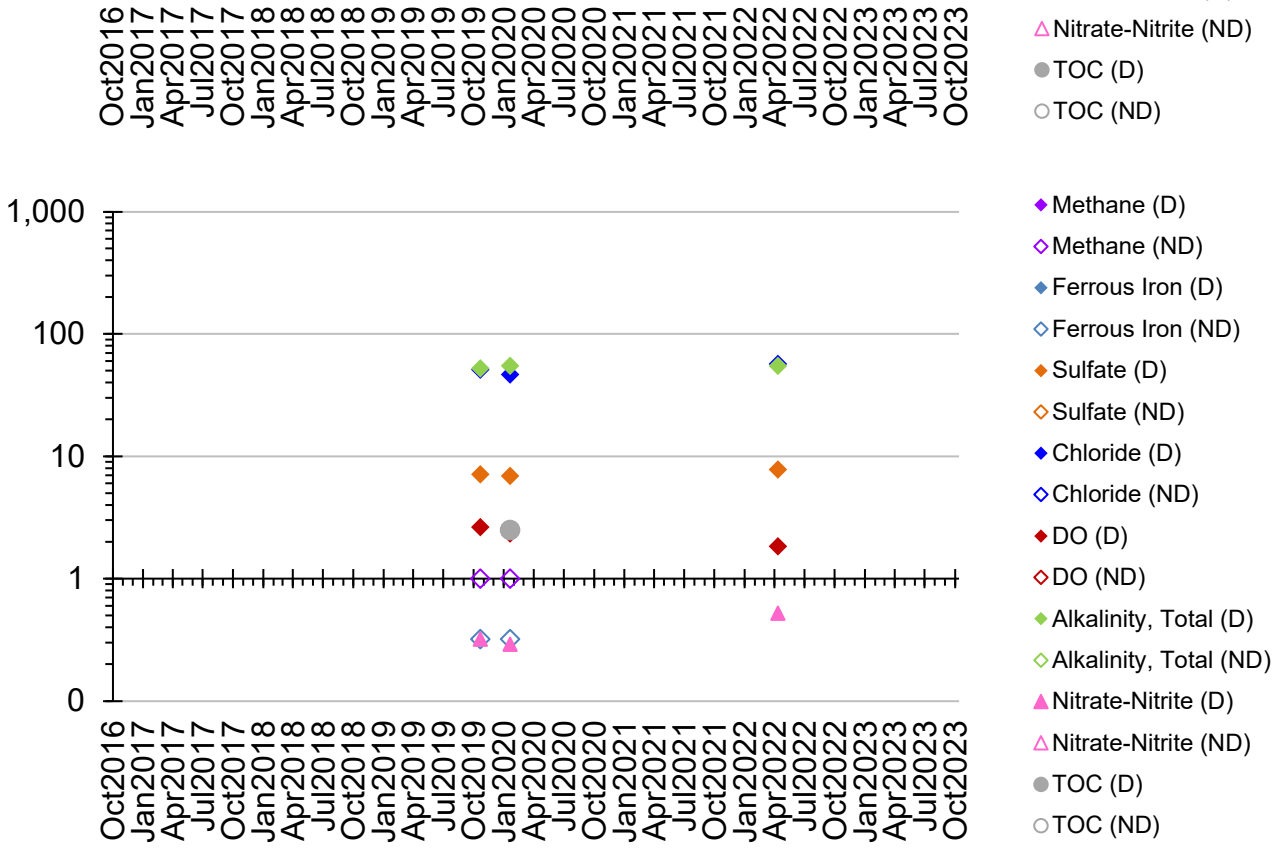
RHMW13 Zone 5 NAPs



RHMW14 Zone 1 NAPs

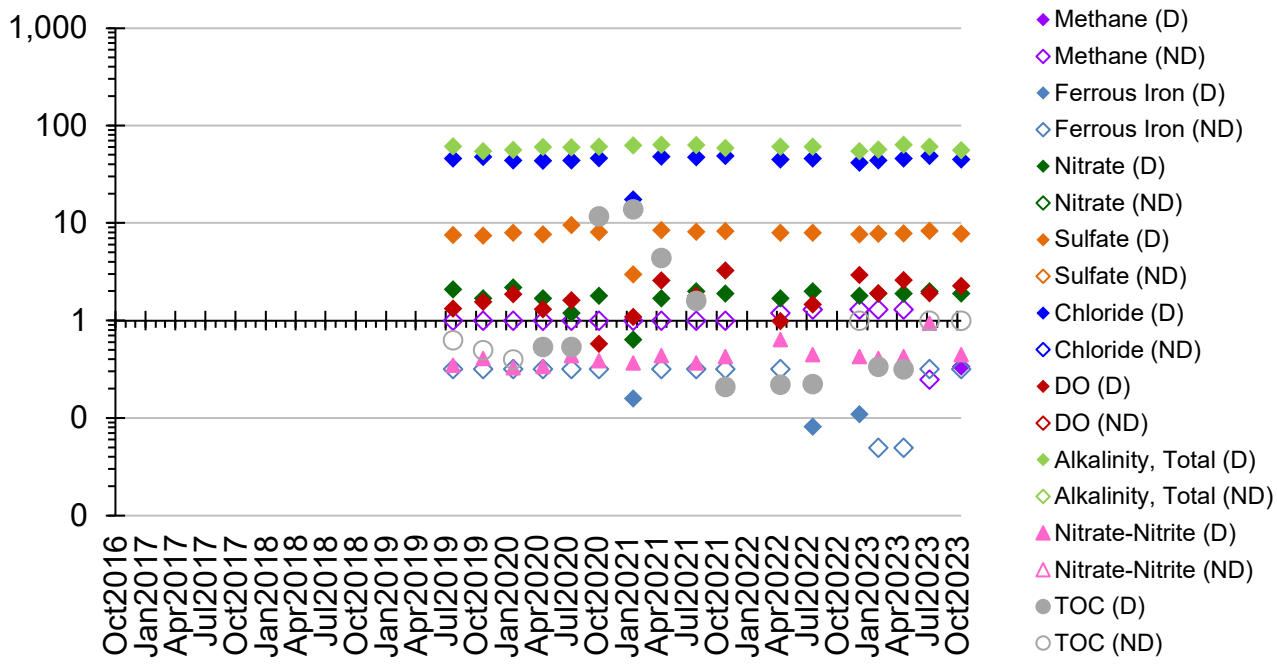


RHMW14 Zone 2 NAPs

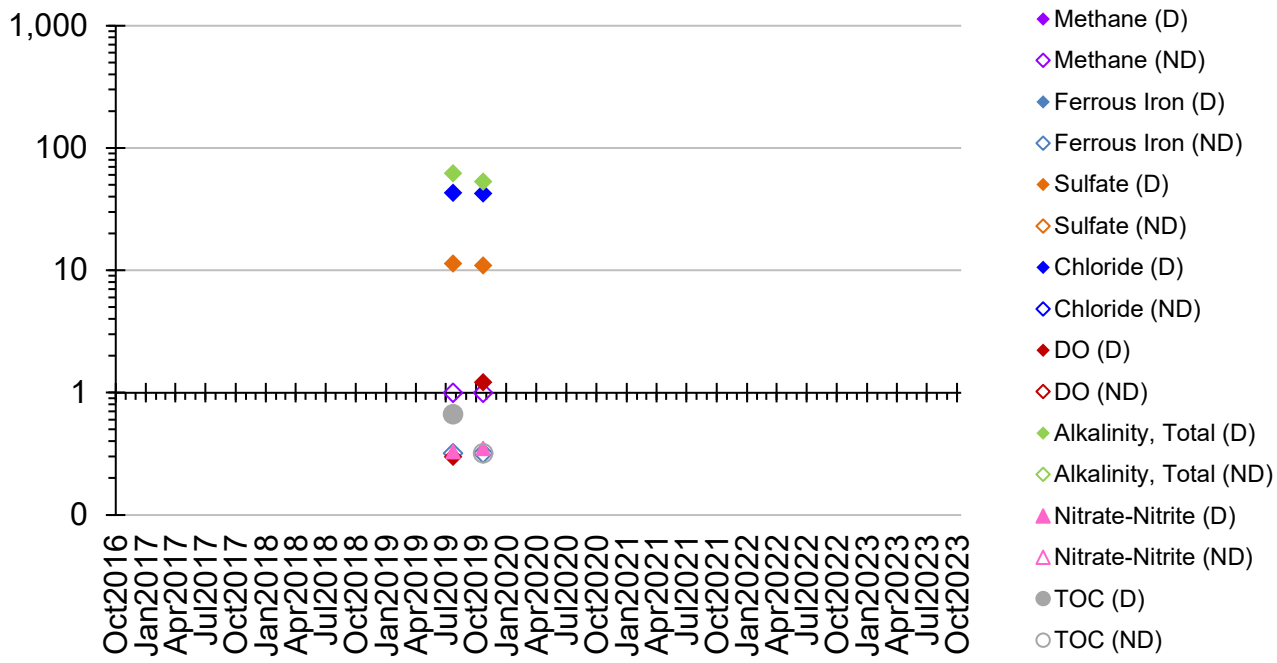


Methane results in micrograms per liter (µg/L or parts per billion).
All other results in milligrams per liter (mg/L or parts per million).

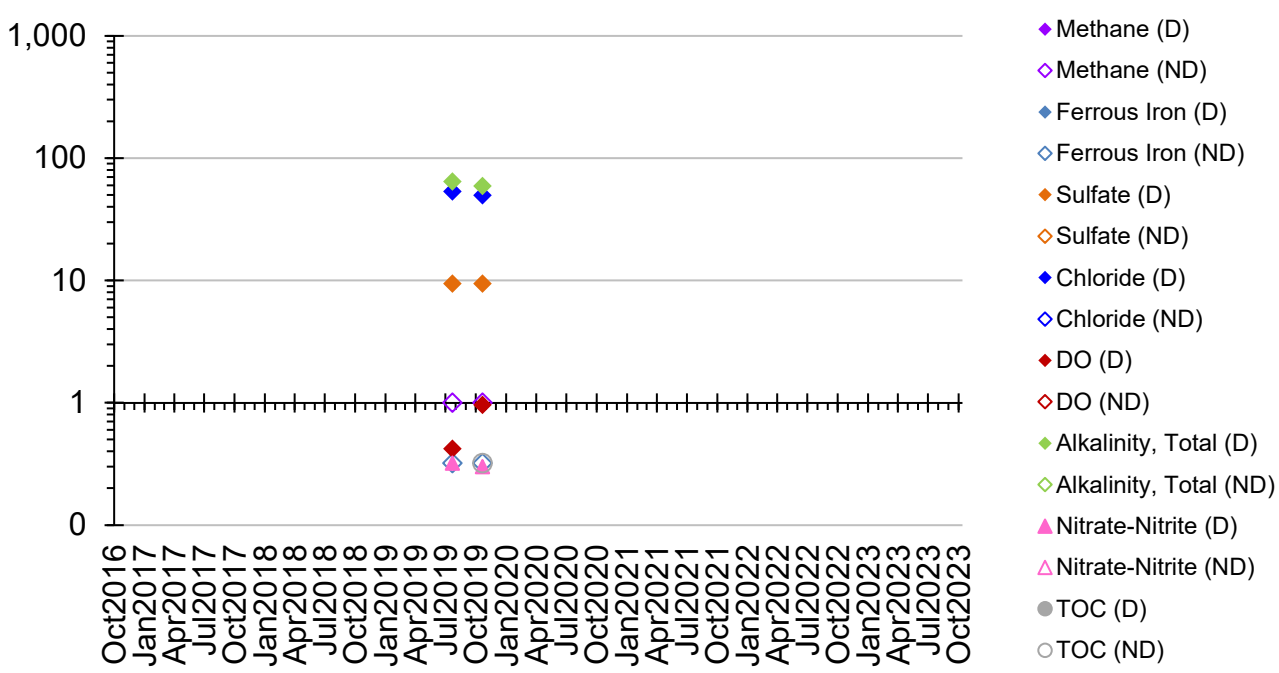
RHMW14 Zone 3 NAPs



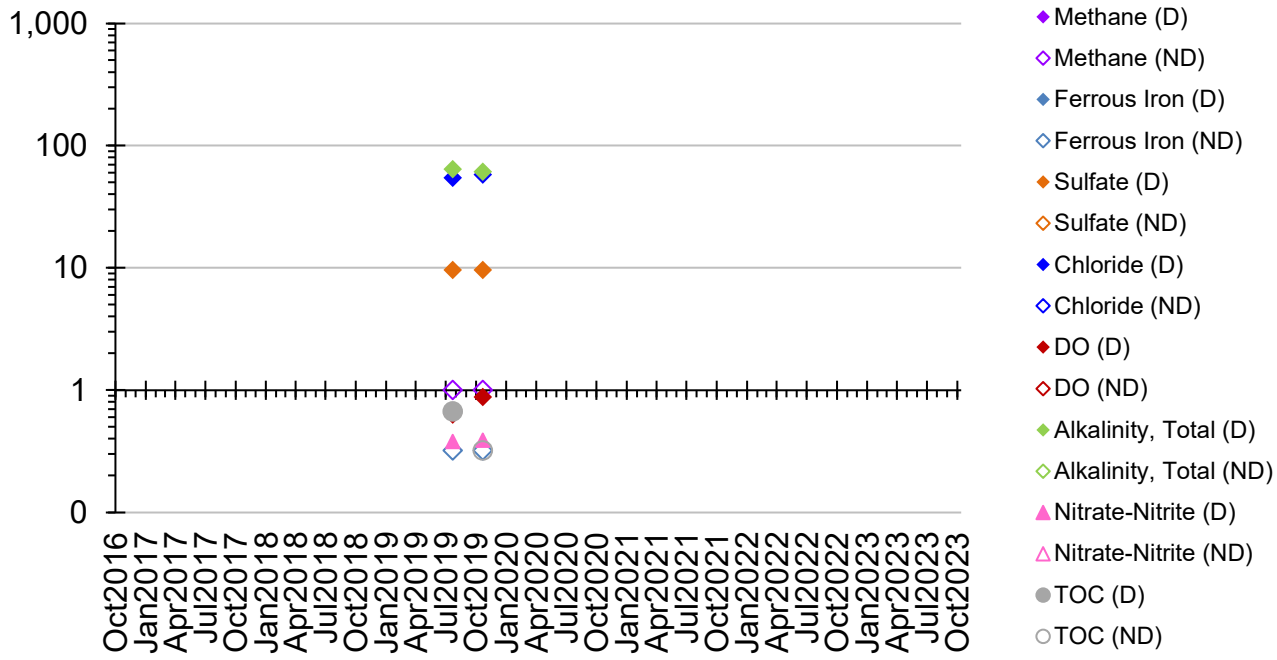
RHMW14 Zone 4 NAPs



RHMW14 Zone 5 NAPs



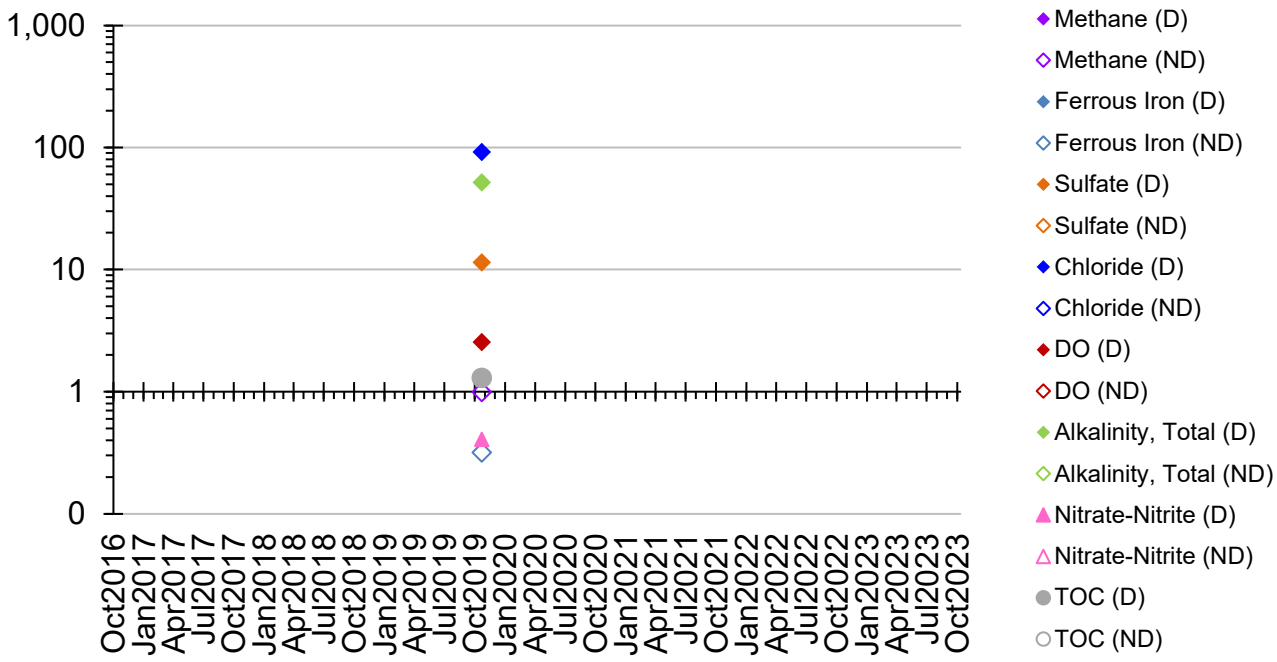
RHMW14 Zone 7 NAPs



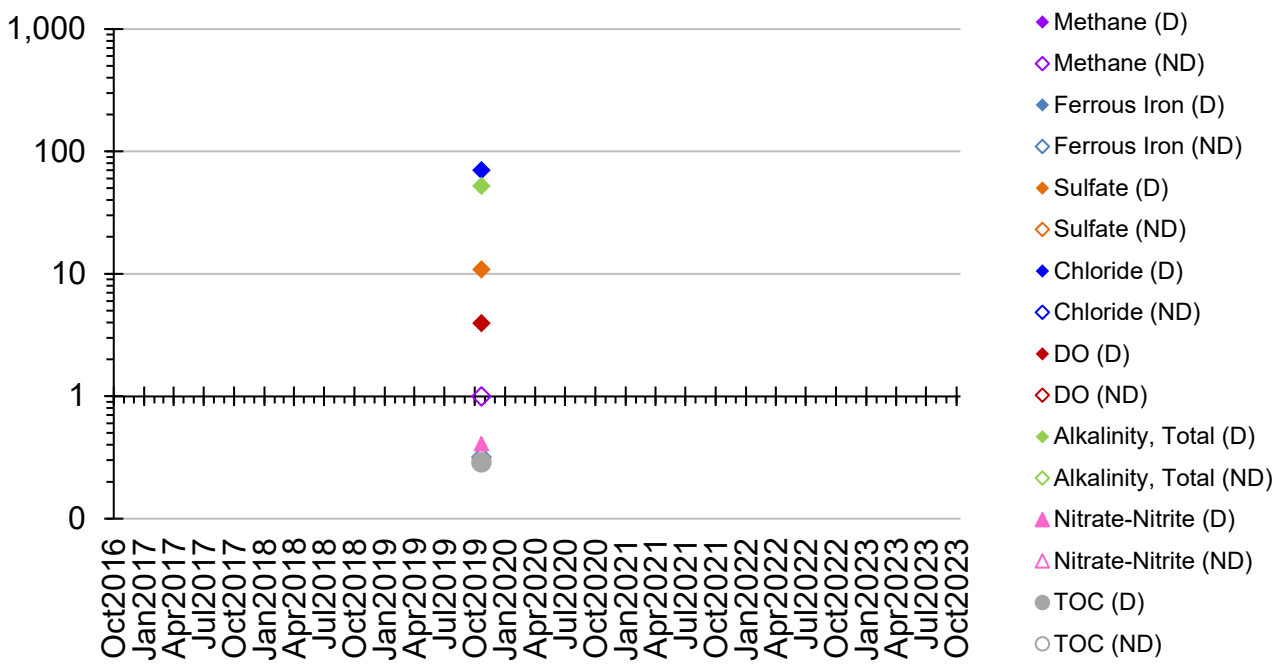
Methane results in micrograms per liter (µg/L or parts per billion).
All other results in milligrams per liter (mg/L or parts per million).

Appendix B.3.2: Cumulative Natural Attenuation Parameter Graphs (cont'd)

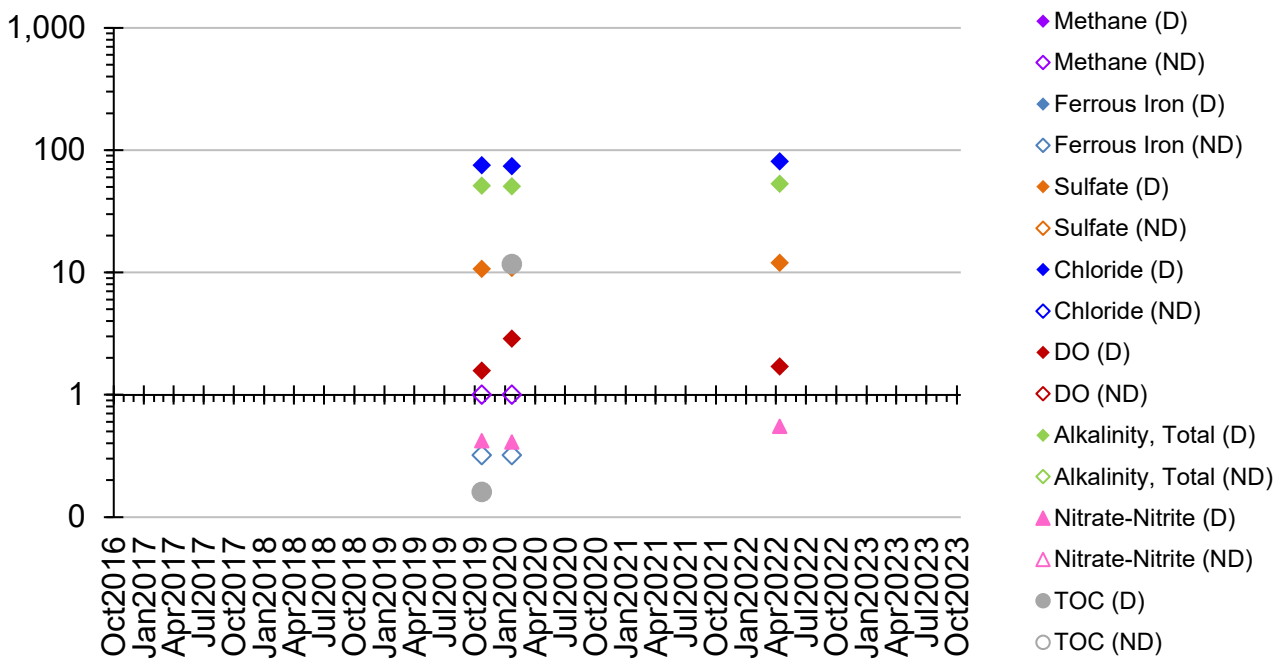
RHMW15 Zone 1 NAPs



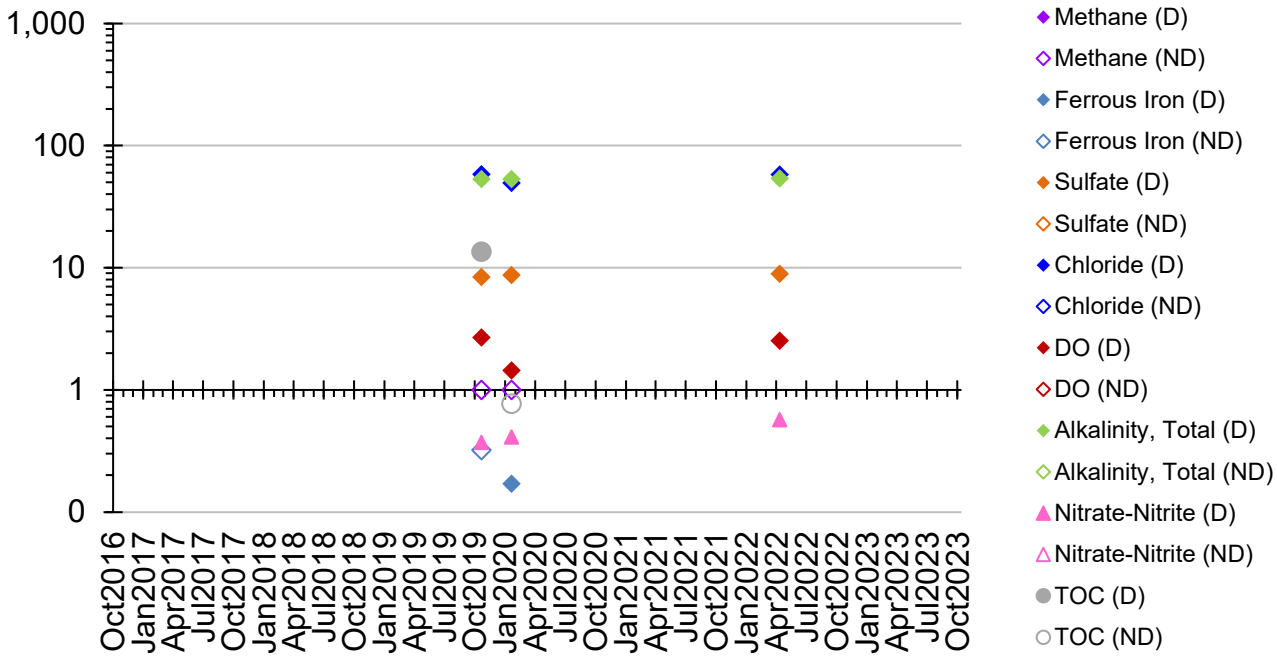
RHMW15 Zone 2 NAPs



RHMW15 Zone 3 NAPs

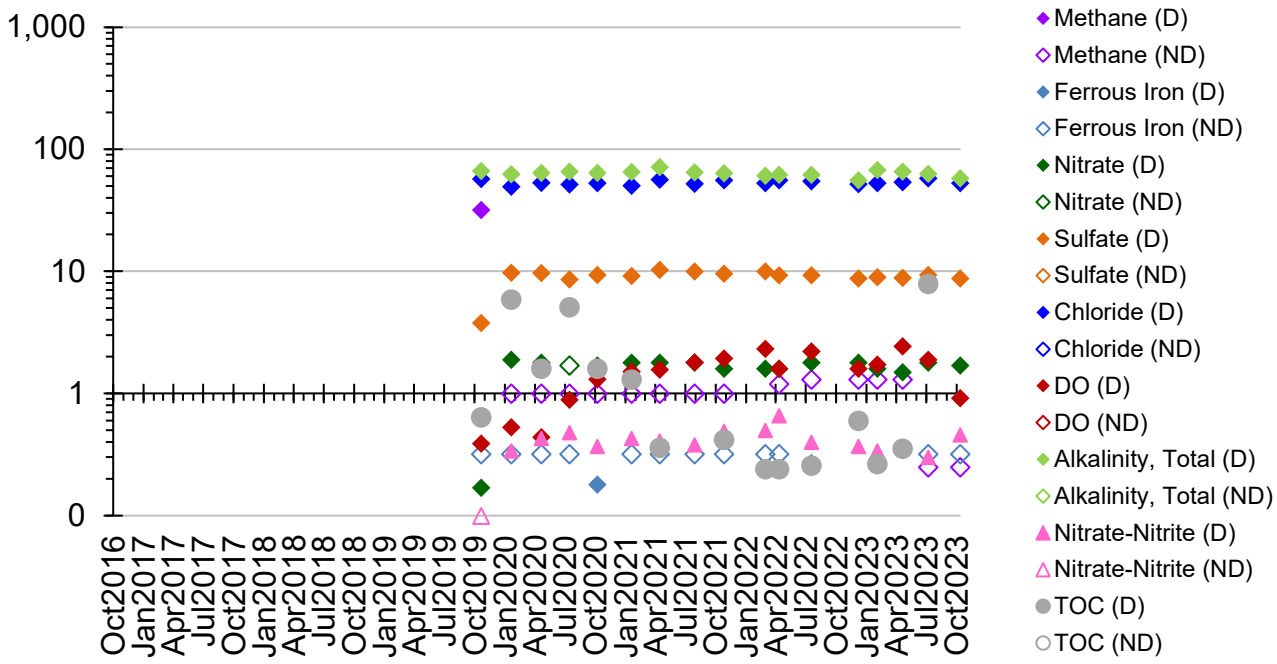


RHMW15 Zone 4 NAPs

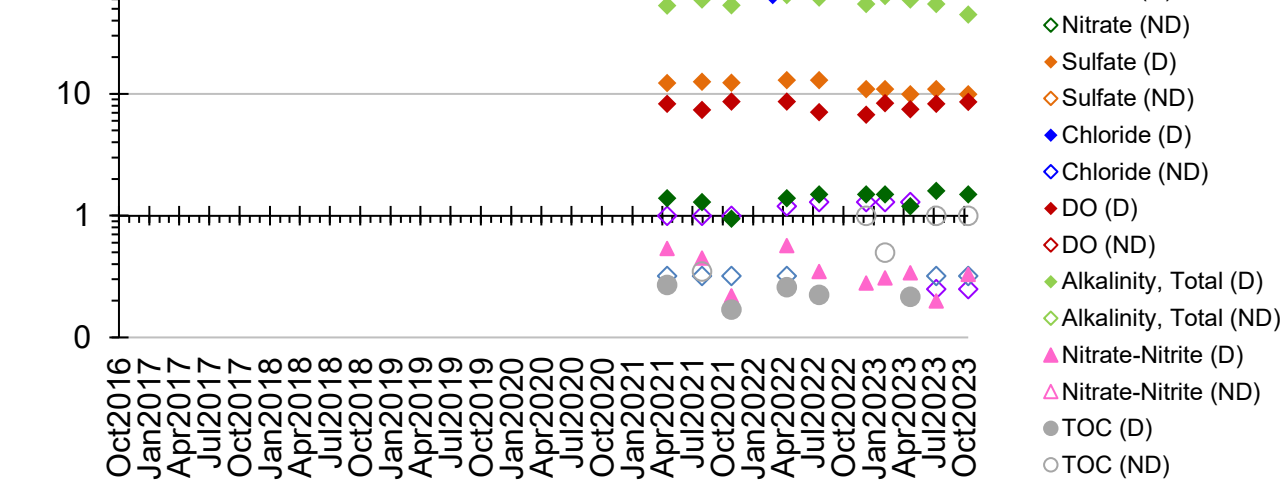


Methane results in micrograms per liter (µg/L or parts per billion).
All other results in milligrams per liter (mg/L or parts per million).

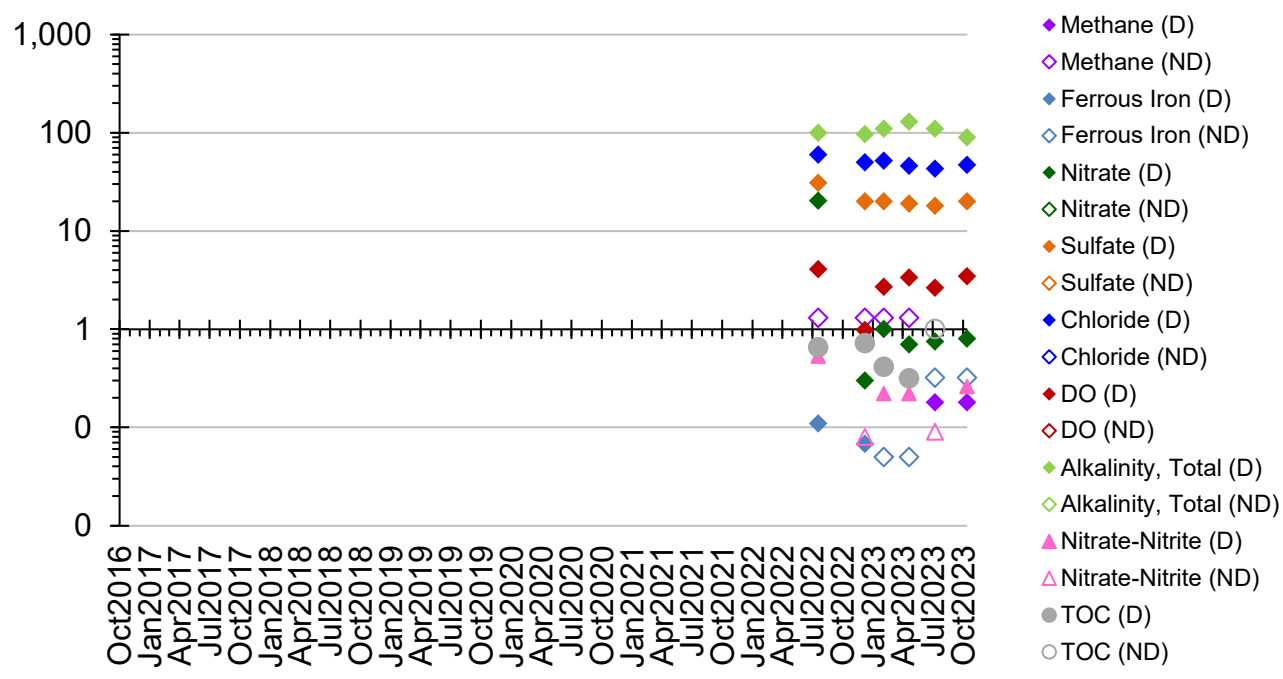
RHMW15 Zone 5 NAPs



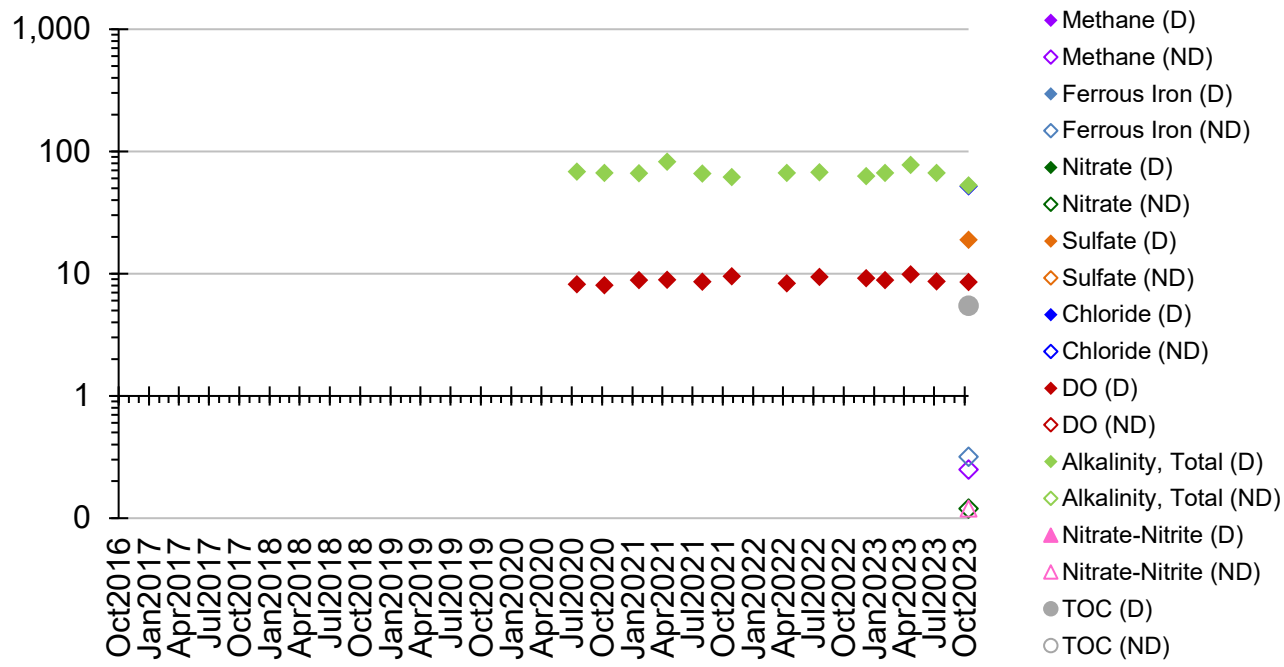
RHMW16 NAPs



RHMW17 NAPs



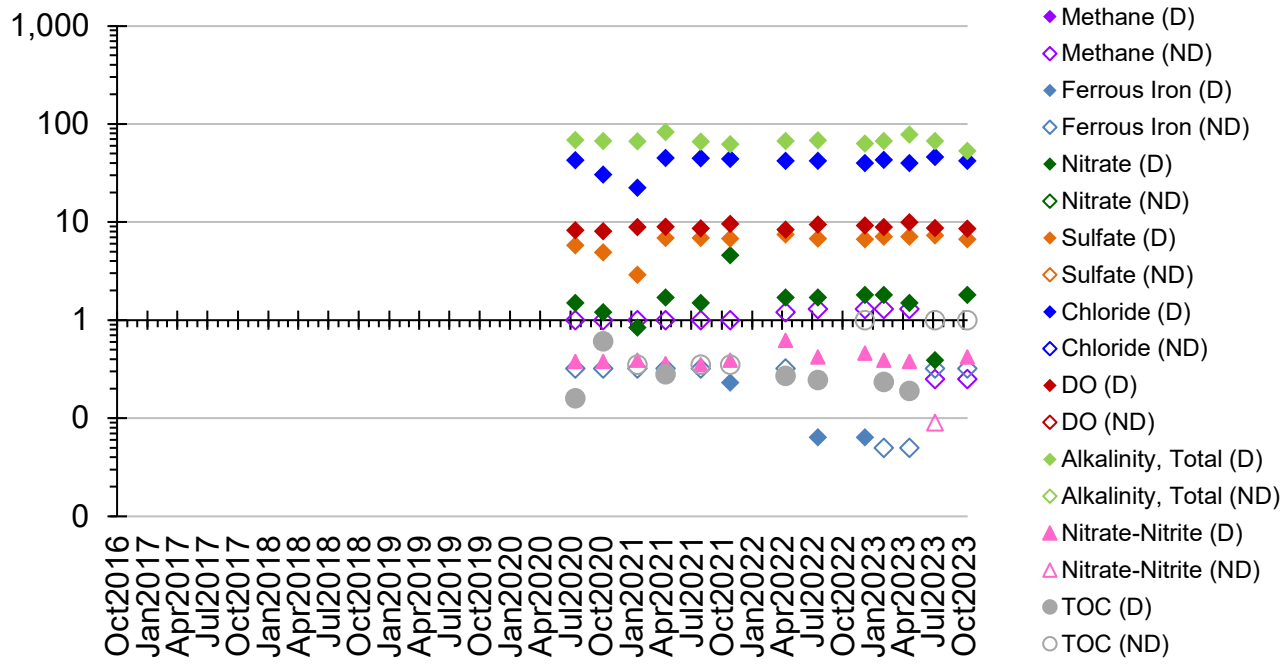
RHMW18 NAPs



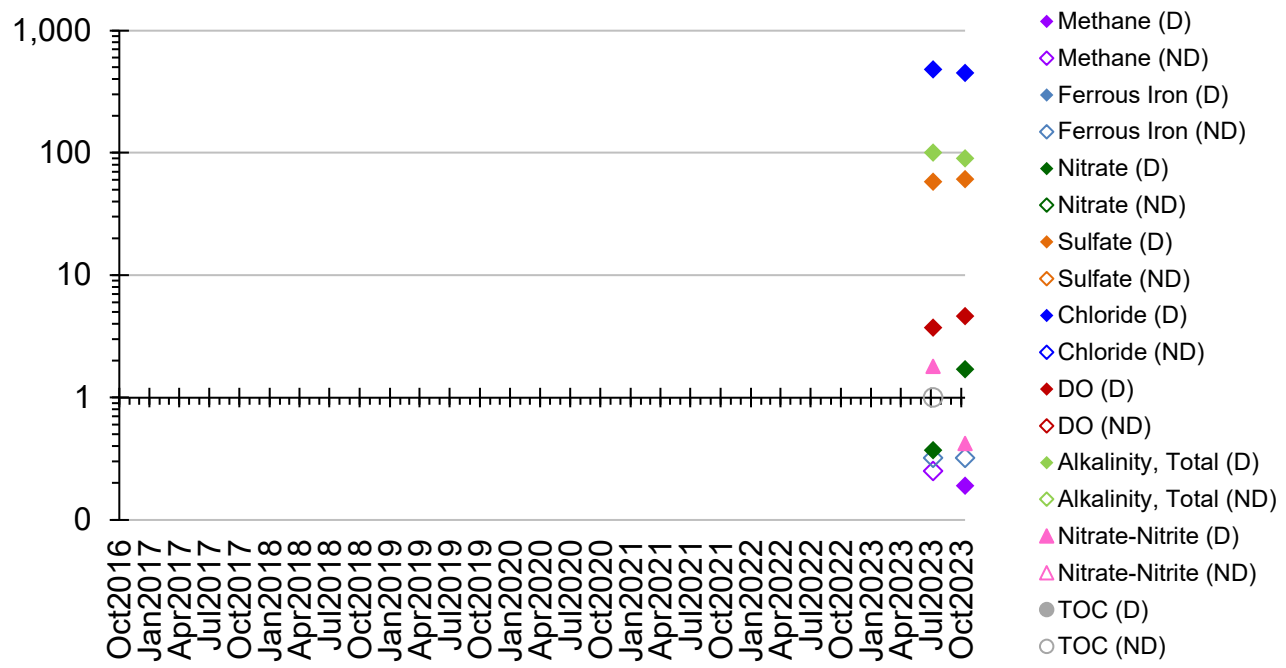
Methane results in micrograms per liter (µg/L or parts per billion).
All other results in milligrams per liter (mg/L or parts per million).

Appendix B.3.2: Cumulative Natural Attenuation Parameter Graphs (cont'd)

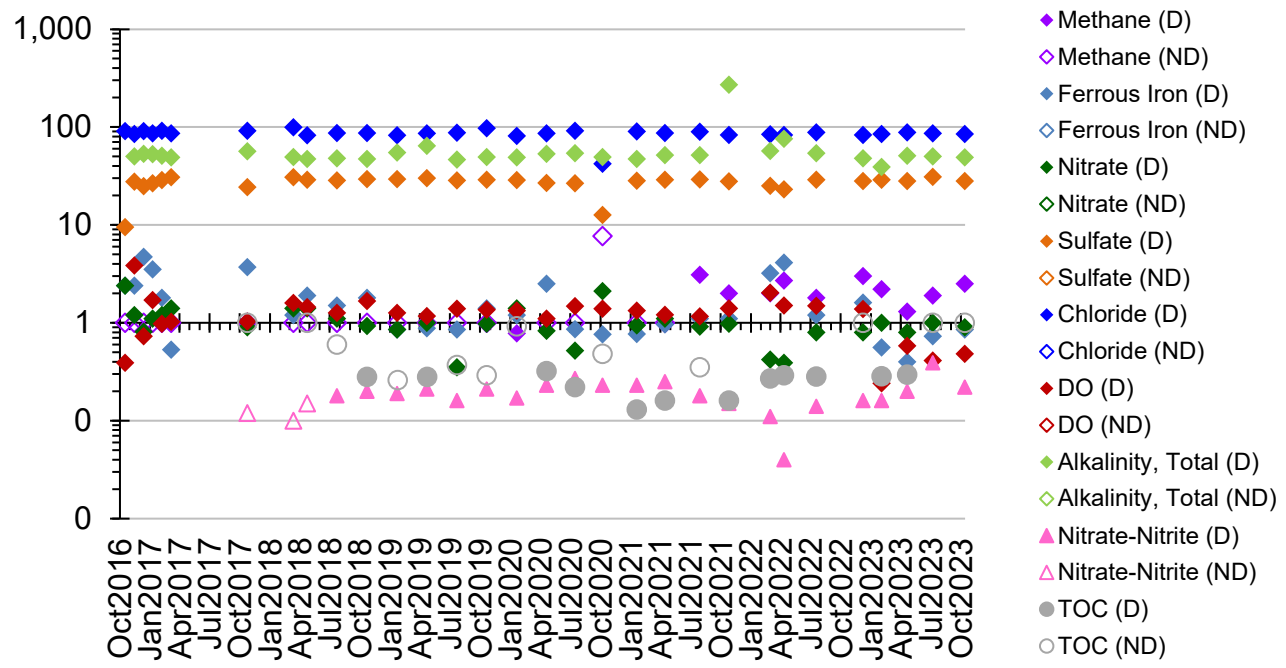
RHMW19 NAPs



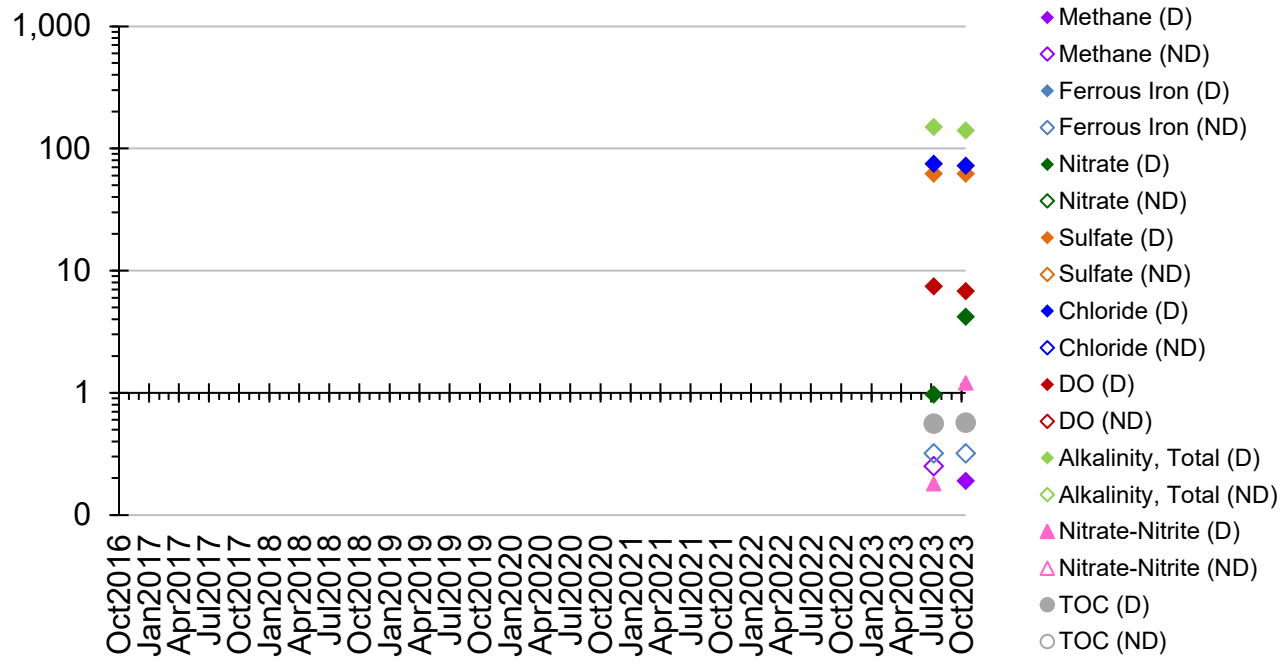
RHMW20 NAPs



HDMW2253-03 NAPs



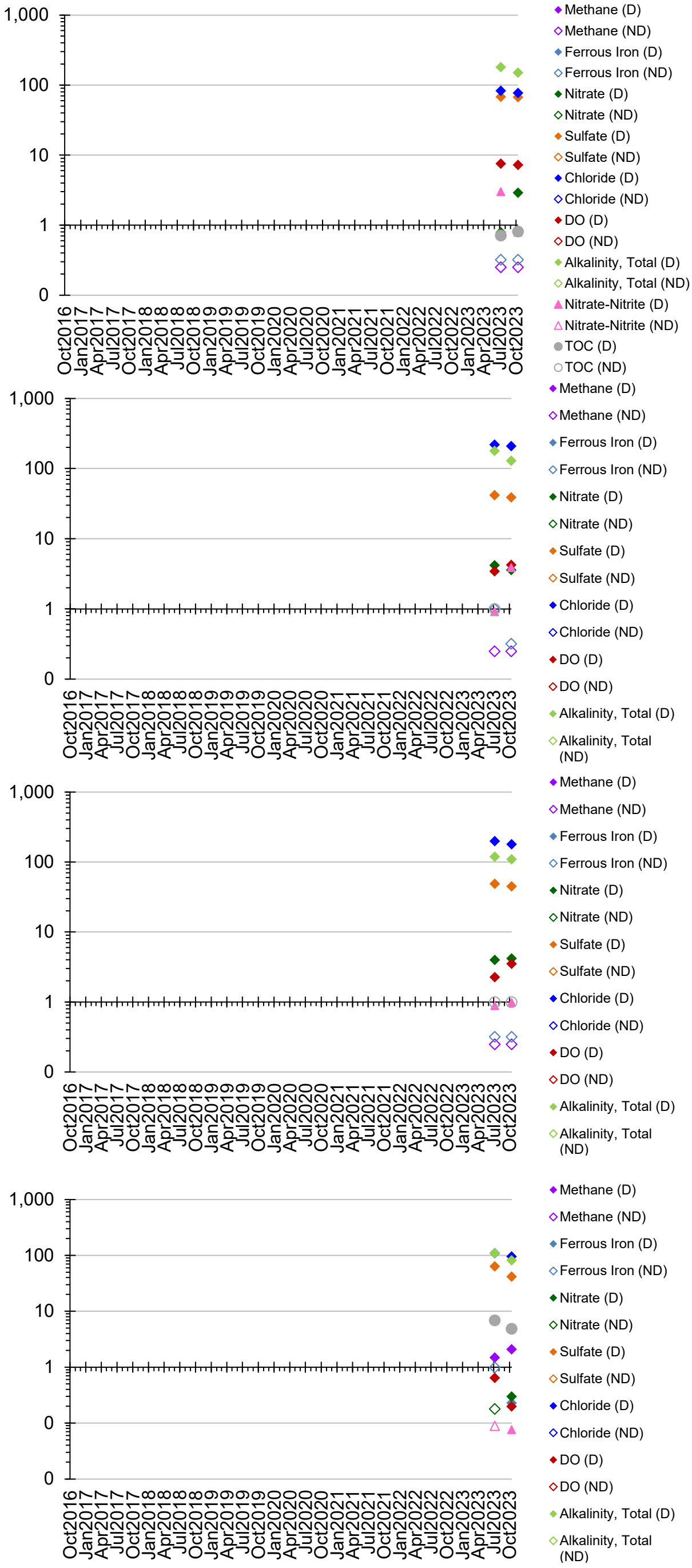
RHP01 NAPs



Methane results in micrograms per liter (µg/L or parts per billion).
All other results in milligrams per liter (mg/L or parts per million).

Appendix B.3.2: Cumulative Natural Attenuation Parameter Graphs (cont'd)

RHP02 NAPs



RHP03 NAPs

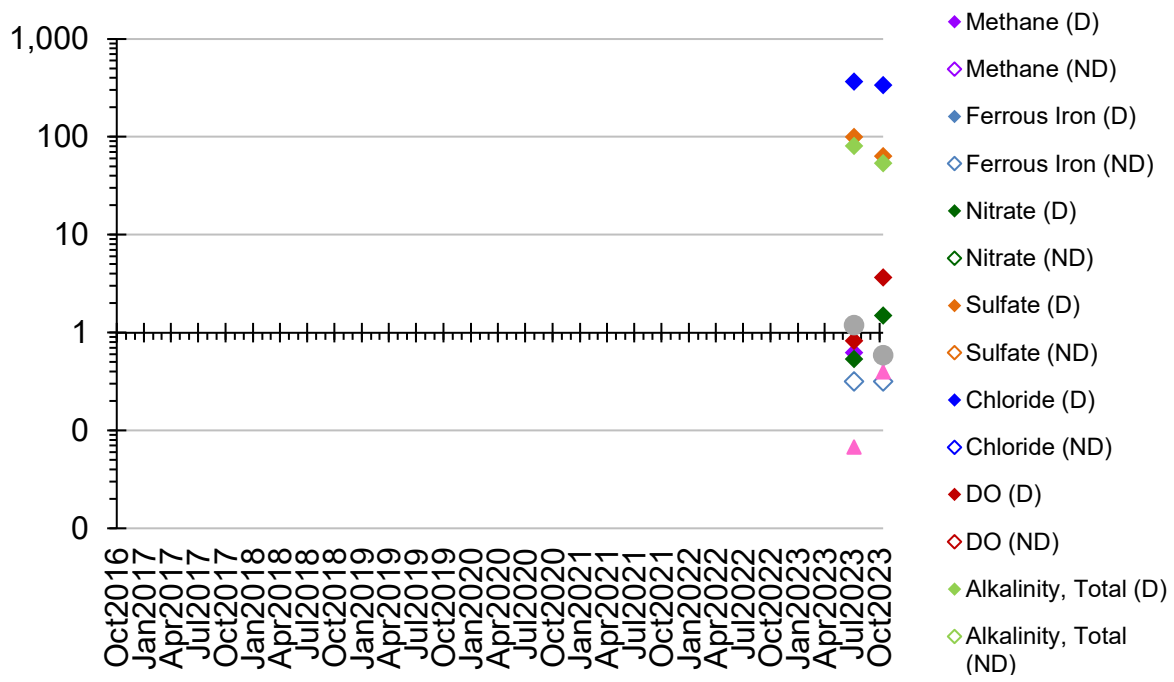
RHP04A NAPs

RHP04B NAPs

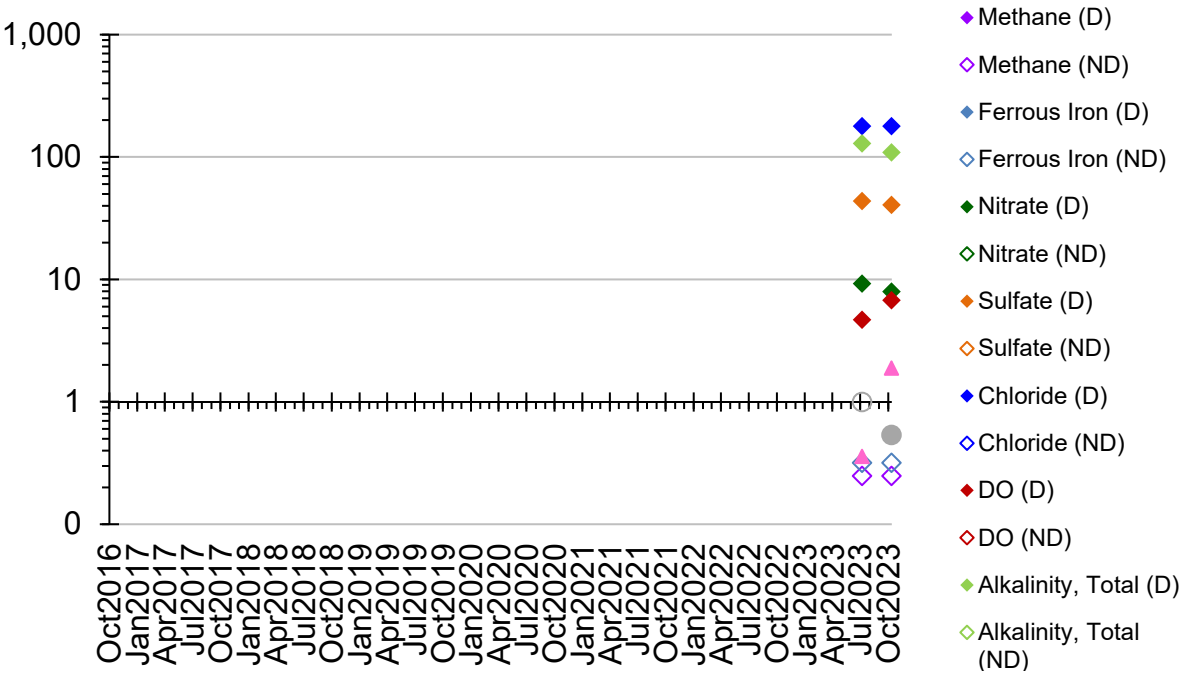
Methane results in micrograms per liter (µg/L or parts per billion).
All other results in milligrams per liter (mg/L or parts per million).

Appendix B.3.2: Cumulative Natural Attenuation Parameter Graphs (cont'd)

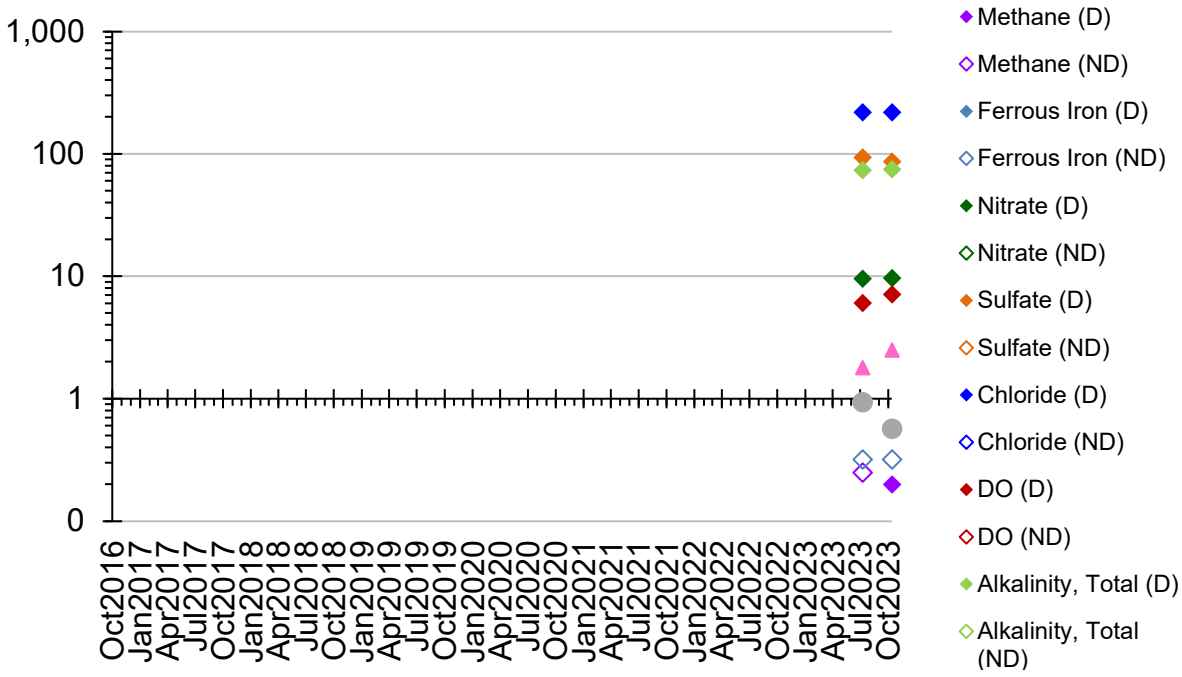
RHP04C NAPs



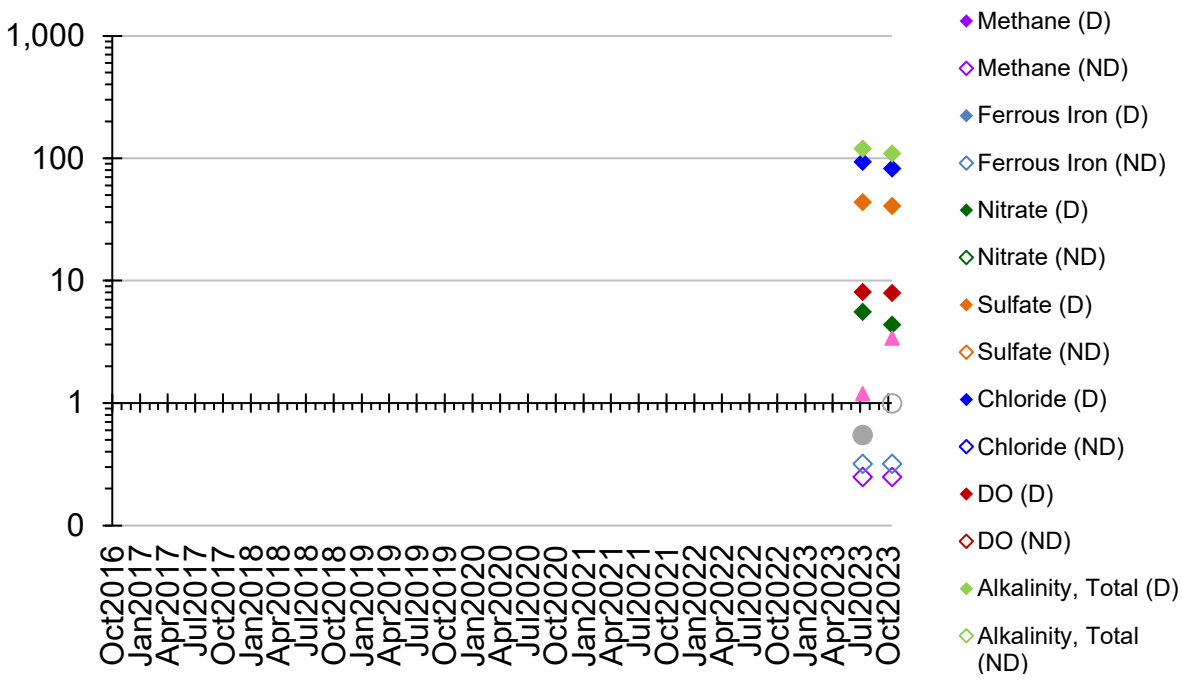
RHP05 NAPs



RHP06 NAPs



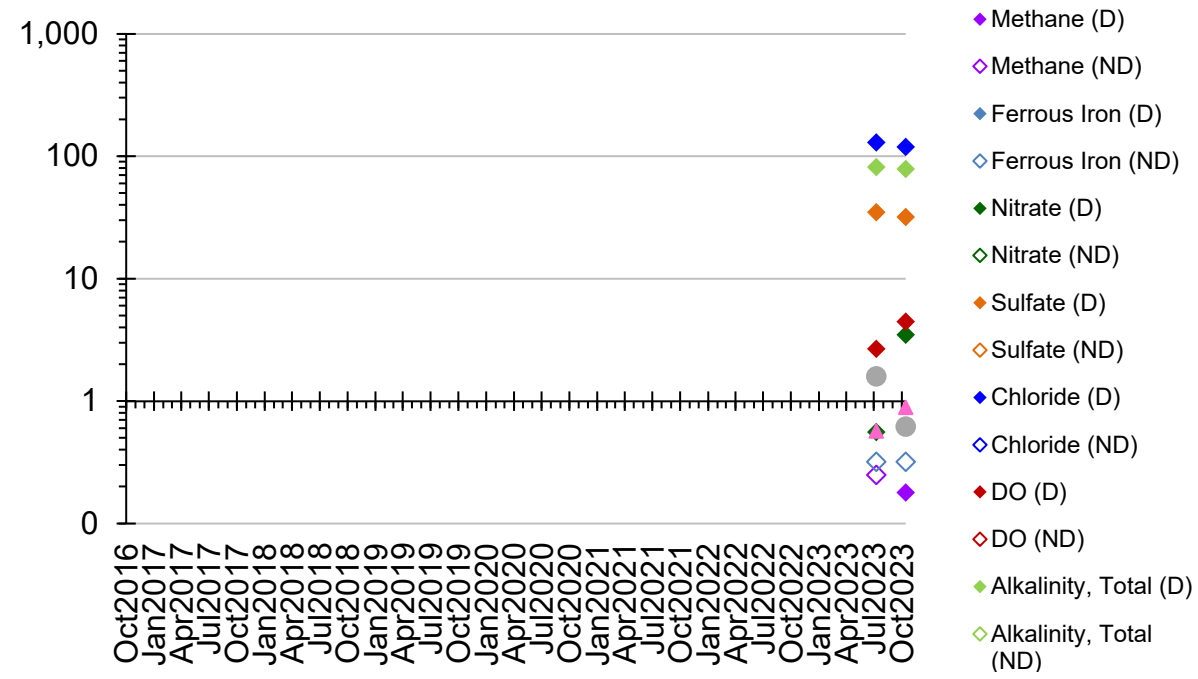
RHP07 NAPs



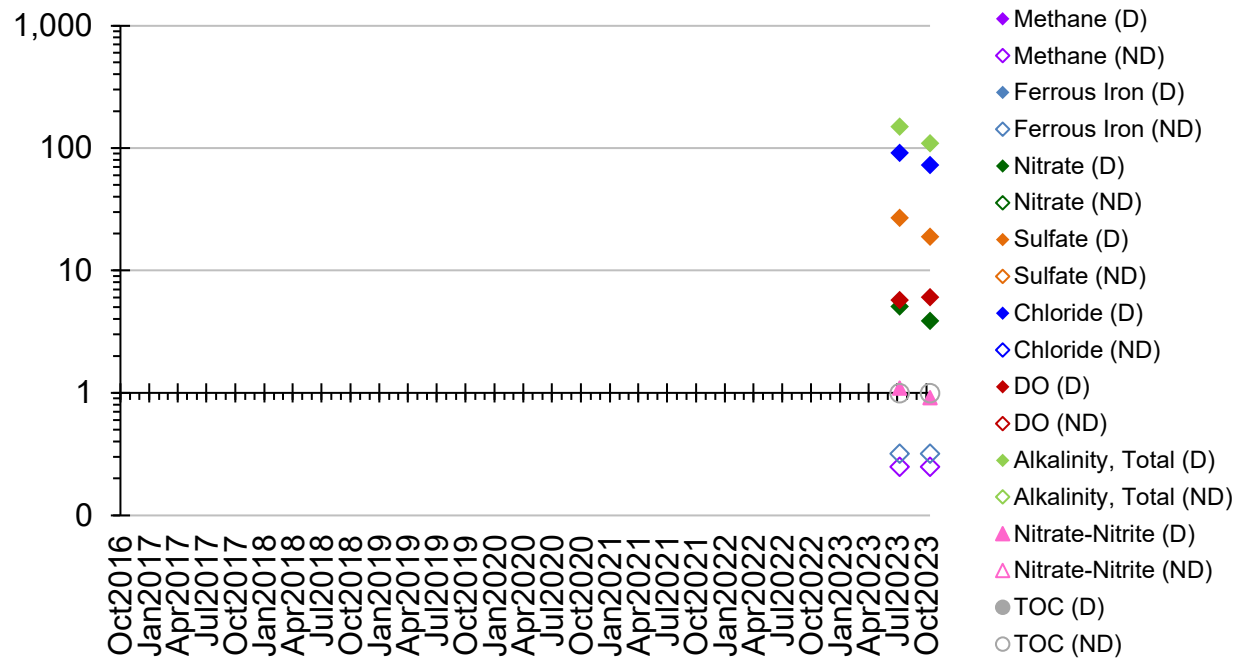
Methane results in micrograms per liter (µg/L or parts per billion).
All other results in milligrams per liter (mg/L or parts per million).

Appendix B.3.2: Cumulative Natural Attenuation Parameter Graphs (cont'd)

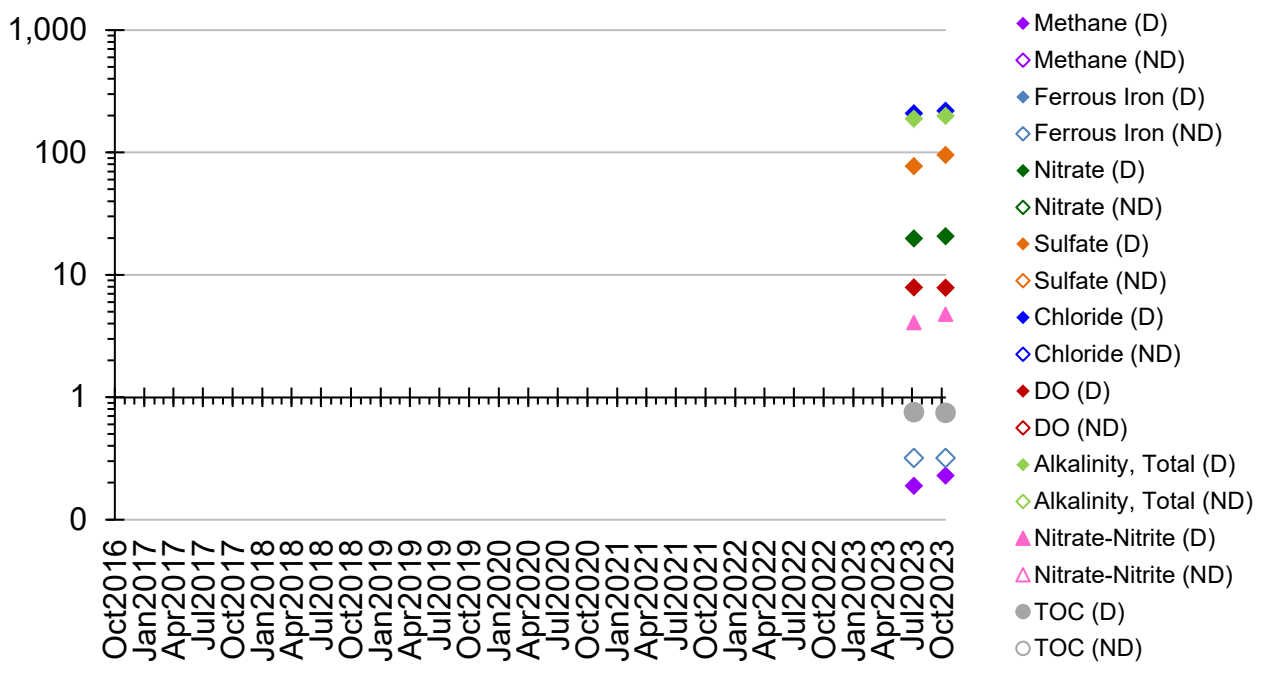
RHP08 NAPs



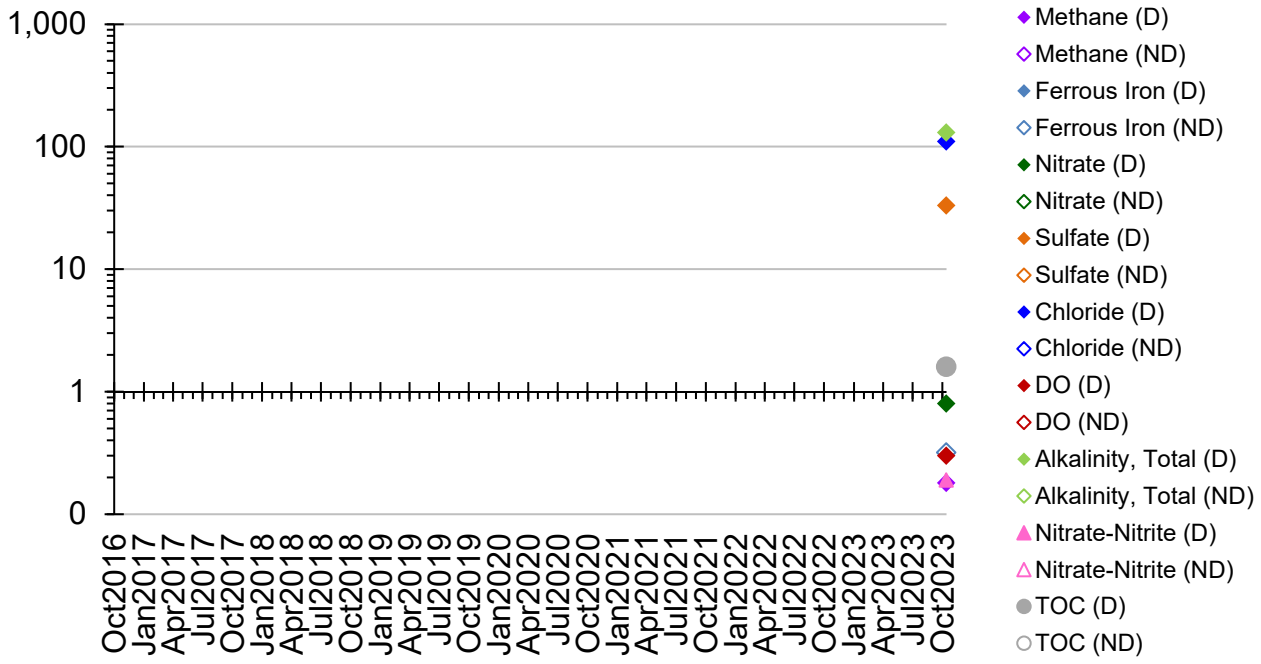
NMW24 NAPs



NMW25 NAPs



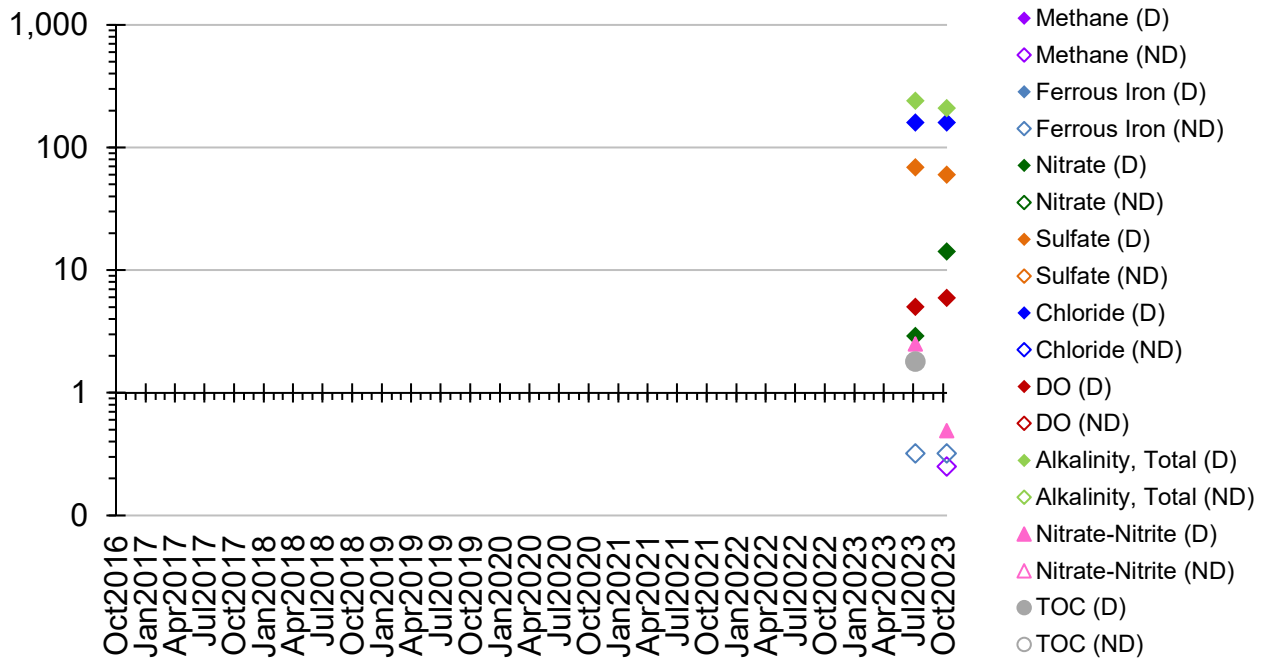
NMW30 NAPs



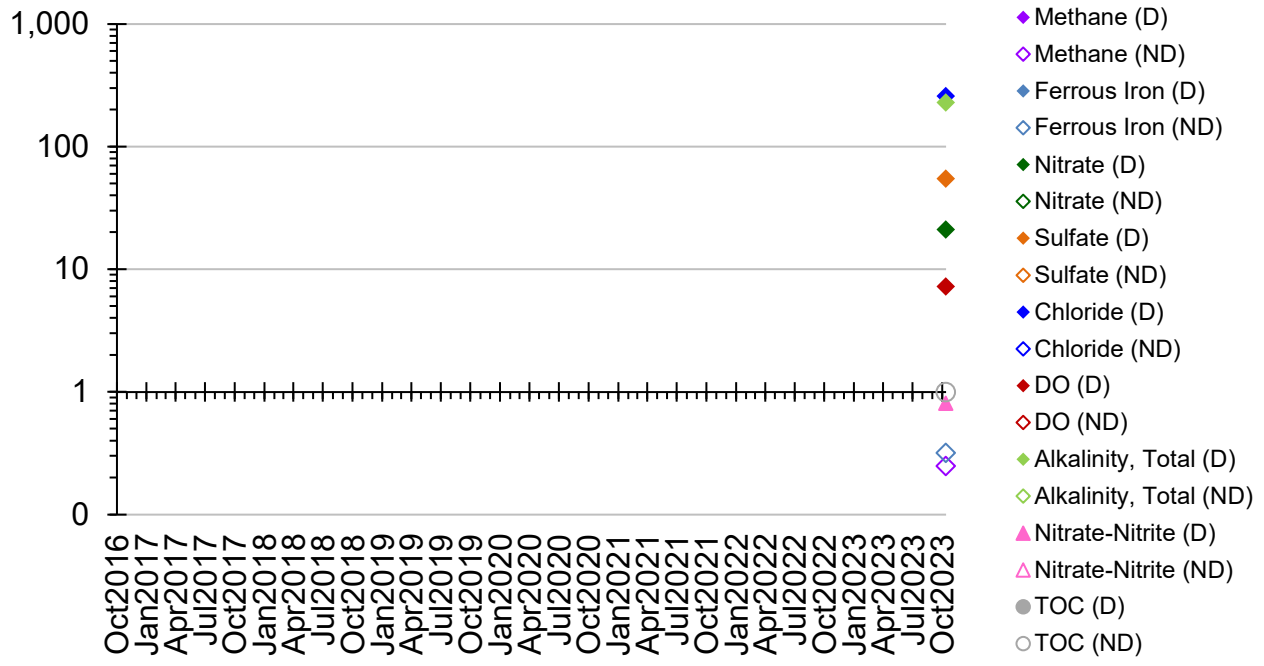
Methane results in micrograms per liter (µg/L or parts per billion).
All other results in milligrams per liter (mg/L or parts per million).

Appendix B.3.2: Cumulative Natural Attenuation Parameter Graphs (cont'd)

NMW32 NAPs

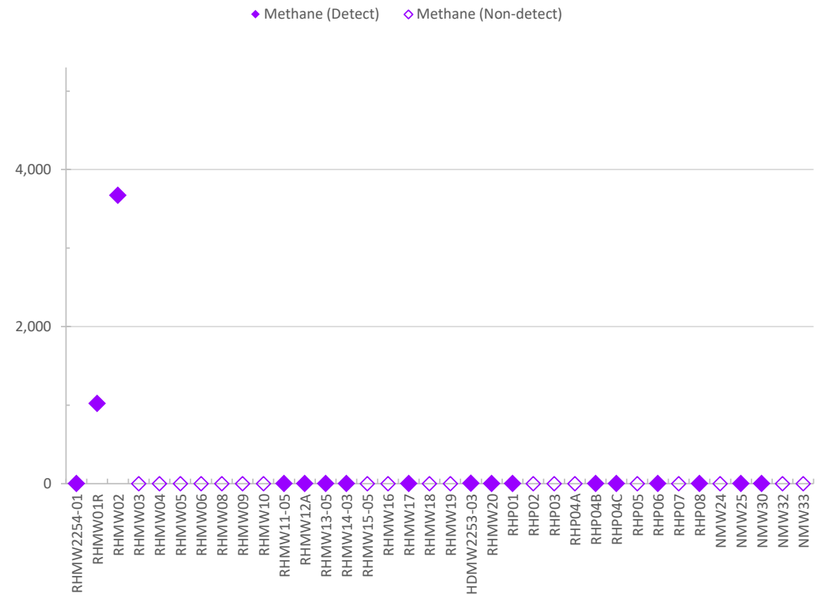


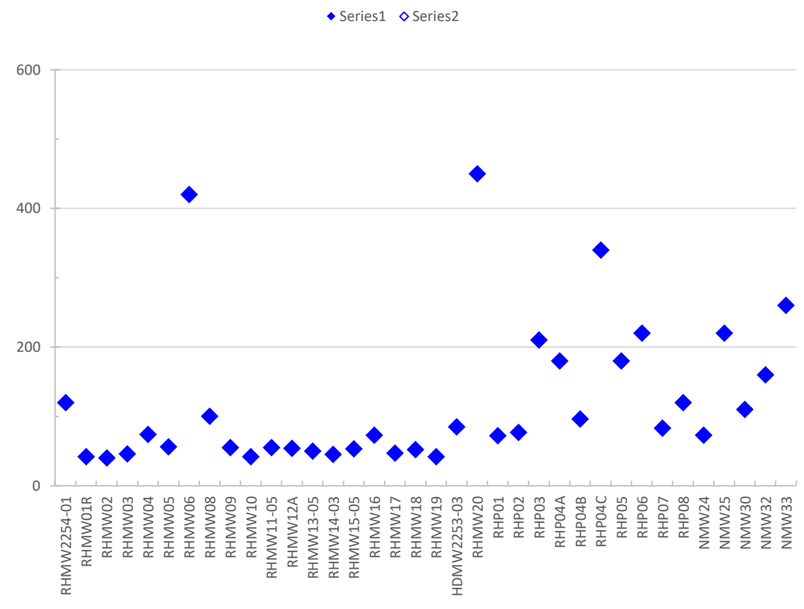
NMW33 NAPs

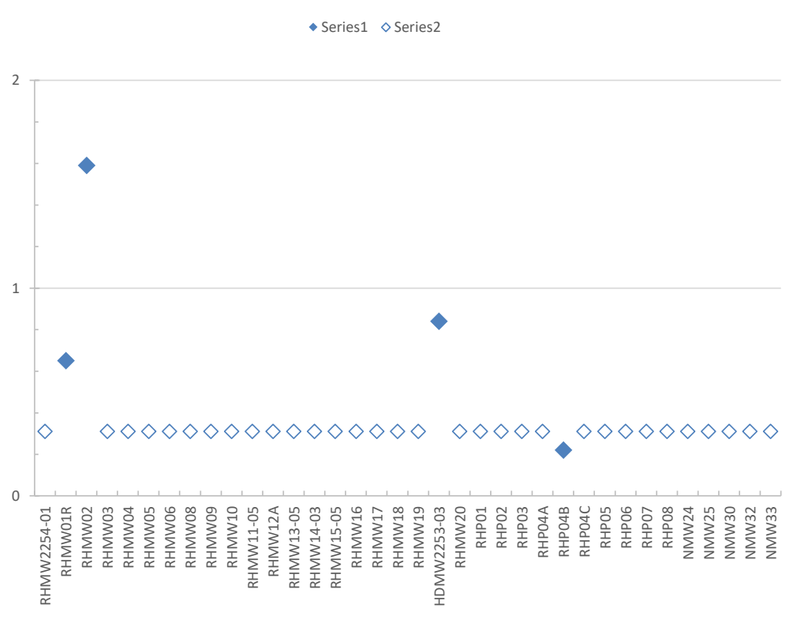


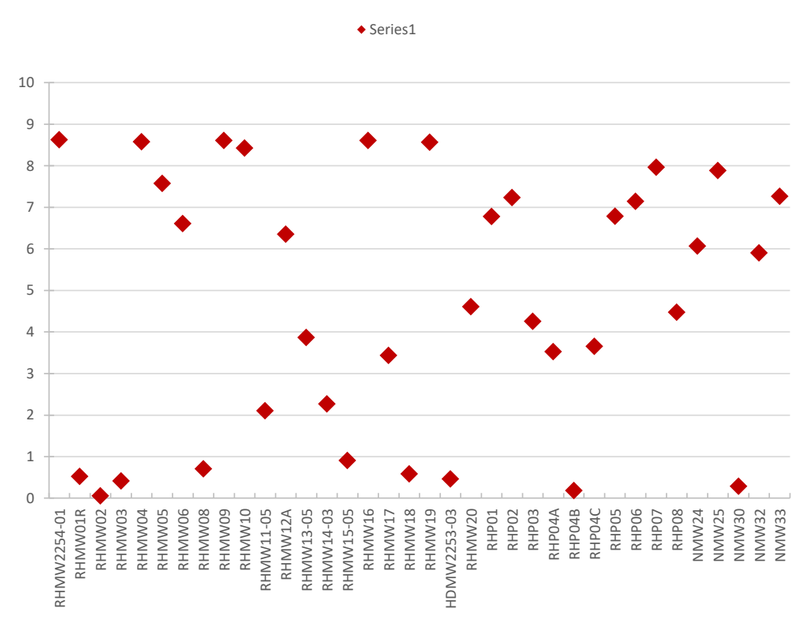
Methane results in micrograms per liter (µg/L or parts per billion).
All other results in milligrams per liter (mg/L or parts per million).

Appendix B.3.3: Natural Attenuation Parameters, Fourth Quarter 2023 Monitoring Event

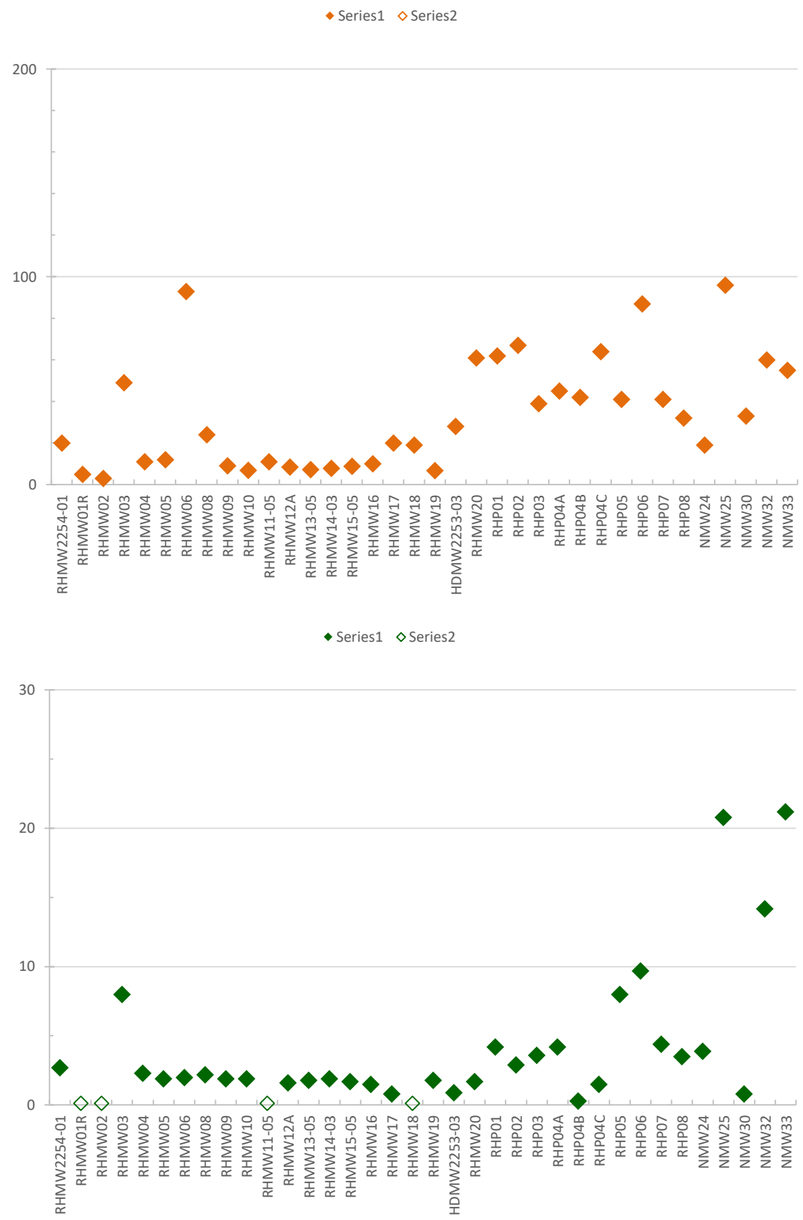


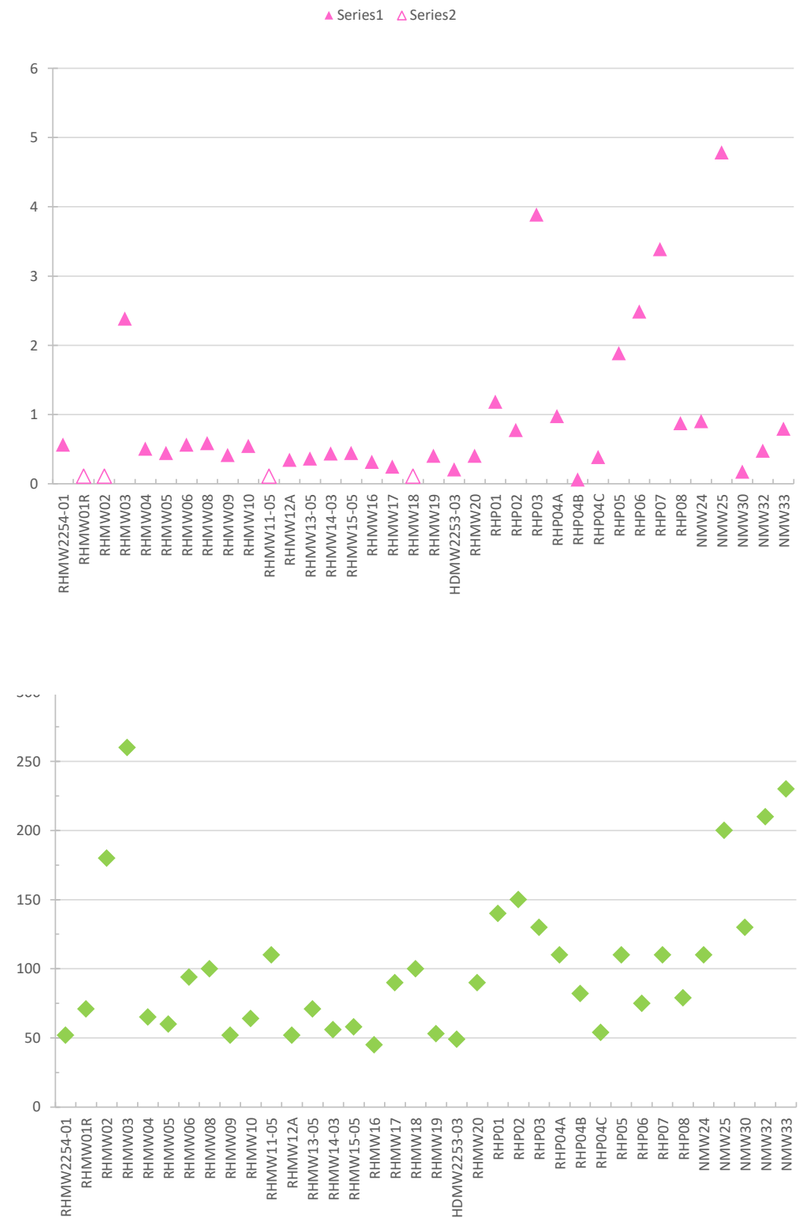




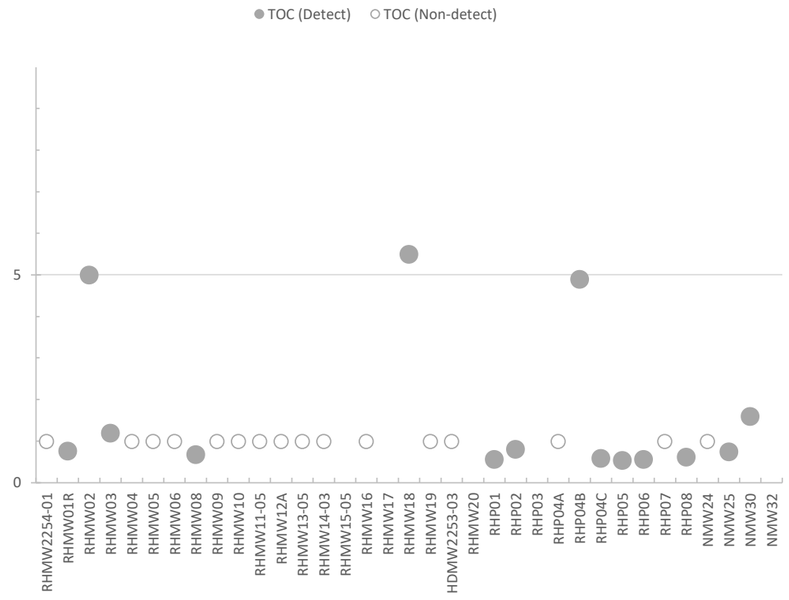


Appendix B.3.3: Natural Attenuation Parameters, Fourth Quarter 2023 Monitoring Event (cont'd)





Appendix B.3.3: Natural Attenuation Parameters, Fourth Quarter 2023 Monitoring Event (cont'd)



Appendix B.4 – Summary of Groundwater Analytical Results

Appendix B.4.1 – Groundwater Analytical Results

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: Data Legend

Non-bold text indicates non-detected value
Bold text indicates detected value, but below the Environmental Action Level (EAL).
Bold and orange shaded text indicates exceeds the Department of Health Tier 1 EAL.
Green text indicates results have completed third-party validation.
Per the Defueling GWPP, Primary release detection well samples collected after 10/16/2023 are defueling samples. These samples are compared against the GWPP Defueling Trigger Levels separate from this sub-appendix.
Specific EPA method revision used for analyses vary by lab and compound. The lab report associated with a sample specifies the exact method revision used.
– = not analyzed or not applicable
µg/L = microgram per liter (same as parts per billion)
CAS = Chemical Abstracts Service
[a] = Uses 3510 extraction method for Consolidated. Additional 3520 for Quarterly
[b] = LTM parameter only.
J = estimated value
J- = estimated value, low bias
J+ = estimated value, high bias
mg/L = milligram per liter
no. = number
QC = quality control
U = nondetect value
TPH-g = total petroleum hydrocarbons-gasoline range organics
TPH-d = total petroleum hydrocarbons-diesel range organics
TPH-o = total petroleum hydrocarbons-residual range
R = Exclusion of data recommended. The sample result was affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria.

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: NMW24

						Total Petroleum Hydrocarbons										Volatile Organic Compounds								Polycyclic Aromatic Hydrocarbons (PAHs) – AOC/LTM					
					Analyte	TPH-g		TPH-d [a]		TPH-o [a]		TPH-d with Silica Gel Cleanup [a]		TPH-o with Silica Gel Cleanup [a]		Benzene		Ethylbenzene		Toluene		Xylenes		1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene	
					CAS No.	PHCC6C10		PHCC10C24		PHCC24C40		PHCC10C24SGC		PHCC24C40SGC		71-43-2		100-41-4		108-88-3		1330-20-7		90-12-0		91-57-6		91-20-3	
					Method	8260		8015		8015		8015		8015		8260		8260		8260		8260		8270 SIM		8270 SIM		8270 SIM	
					DOH Tier 1 EAL	300		400		500		—		—		5		30		40		20		10		10		17	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		–		–		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		–		–		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
NMW24	SGS Orlando	FC9543	NMW24-WGN01LF-2309	9/8/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
NMW24	ALS Kelso	K2311233	NMW24-WGN01LF-2310	10/2/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
NMW24	Energy	B23100338	NMW24-WGN01LF-2310	10/2/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
NMW24	SGS Orlando	FC10161	NMW24-WGN01LF-2310	10/2/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U
NMW24	APPL	23J0125	NMW24-WGN01LF-23Q4	10/13/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
NMW24	Energy	B23101258	NMW24-WGN01LF-23Q4	10/13/2023	Primary	<8.5	U	<140	U	<140	U	–		–		<0.1	U	<0.1	U	<0.2	U	<0.1	U	–		–		–	
NMW24	SGS Orlando	FC10488	NMW24-WGN01LF-23Q4	10/13/2023	Primary	–		–		–		–		–		–		–		–		–		<0.4	U	<0.4	U	<0.4	U
NMW24	ALS Kelso	K2312820	NMW24-WGN01LF-2311	11/9/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
NMW24	SGS Orlando	FC11161	NMW24-WGN01LF-2311	11/9/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
NMW24	SGS Orlando	FC11847	NMW24-WGN01LF-2312	12/8/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U,J	<0.42	U,J	<0.42	U,J

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: NMW24

						Polycyclic Aromatic Hydrocarbons (PAHs) – NOI																											
					Analyte	Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)		Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
					CAS No.	83-32-9		208-96-8		120-12-7		56-55-3		50-32-8		205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
					Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
					DOH Tier 1 EAL	20		240		0.18		0.029		0.2		0.22		0.13		0.4		1		0.022		13		240		0.095		210		68	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
NMW24	SGS Orlando	FC9543	NMW24-WGN01LF-2309	9/8/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
NMW24	ALS Kelso	K2311233	NMW24-WGN01LF-2310	10/2/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW24	Energy	B23100338	NMW24-WGN01LF-2310	10/2/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW24	SGS Orlando	FC10161	NMW24-WGN01LF-2310	10/2/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
NMW24	APPL	23J0125	NMW24-WGN01LF-23Q4	10/13/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW24	Energy	B23101258	NMW24-WGN01LF-23Q4	10/13/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW24	SGS Orlando	FC10488	NMW24-WGN01LF-23Q4	10/13/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
NMW24	ALS Kelso	K2312820	NMW24-WGN01LF-2311	11/9/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW24	SGS Orlando	FC11161	NMW24-WGN01LF-2311	11/9/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
NMW24	SGS Orlando	FC11847	NMW24-WGN01LF-2312	12/8/2023	Primary	<0.42	UJ	<0.42	UJ	<0.42	UJ	<0.042	UJ	<0.042	UJ	<0.042	UJ	<0.042	UJ	<0.042	UJ	<0.083	UJ	<0.042	UJ	<0.42	UJ	<0.42	UJ	<0.042	UJ	<0.42	UJ	<0.42	UJ

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: NMW24

						Fuel Additive				Lead Scavengers				Natural Attenuation Parameters					
					Analyte	2-(2- Methoxyethoxy)-ethanol [b]		Phenol		1,2-Dibromoethane		1,2-Dichloroethane		Methane		Total Organic Carbon		NV Dissolved Organic Carbon	
					CAS No.	111-77-3		108-95-2		106-93-4		107-06-2		74-82-8		TOC		—	
					Method	8270D		SW8270		8011		8260		RSK 175		9060		9060	
					DOH Tier 1 EAL	800		300		0.04		5		—		—		—	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		ND		ND		ND		600	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result	
NMW24	SGS Orlando	FC9543	NMW24-WGN01LF-2309	9/8/2023	Primary	–		<2	U	–		<0.5	U	<0.25	U	–		–	
NMW24	ALS Kelso	K2311233	NMW24-WGN01LF-2310	10/2/2023	Primary	–		–		–		–		–		<500	U	600	
NMW24	Energy	B23100338	NMW24-WGN01LF-2310	10/2/2023	Primary	–		–		<0.0049	U	–		–		–		–	
NMW24	SGS Orlando	FC10161	NMW24-WGN01LF-2310	10/2/2023	Primary	–		<1.9	U	–		<0.5	U	<0.25	U	–		–	
NMW24	APPL	23J0125	NMW24-WGN01LF-23Q4	10/13/2023	Primary	<80	UJ	–		–		–		–		–		–	
NMW24	Energy	B23101258	NMW24-WGN01LF-23Q4	10/13/2023	Primary	–		–		<0.0048	U	<0.1	U	–		–		–	
NMW24	SGS Orlando	FC10488	NMW24-WGN01LF-23Q4	10/13/2023	Primary	–		<1.9	U	–		–		<0.25	U	<1000	U	–	
NMW24	ALS Kelso	K2312820	NMW24-WGN01LF-2311	11/9/2023	Primary	–		–		–		–		–		<500	U	<500	U
NMW24	SGS Orlando	FC11161	NMW24-WGN01LF-2311	11/9/2023	Primary	–		<1.9	U	<0.014	U	<0.5	U	<0.25	U	–		–	
NMW24	SGS Orlando	FC11847	NMW24-WGN01LF-2312	12/8/2023	Primary	–		<1.9	U	<0.014	U	<0.5	U	<0.25	U	–		–	

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: NMW25

						Total Petroleum Hydrocarbons										Volatile Organic Compounds								Polycyclic Aromatic Hydrocarbons (PAHs) – AOC/LTM					
					Analyte	TPH-g		TPH-d [a]		TPH-o [a]		TPH-d with Silica Gel Cleanup [a]		TPH-o with Silica Gel Cleanup [a]		Benzene		Ethylbenzene		Toluene		Xylenes		1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene	
					CAS No.	PHCC6C10		PHCC10C24		PHCC24C40		PHCC10C24SGC		PHCC24C40SGC		71-43-2		100-41-4		108-88-3		1330-20-7		90-12-0		91-57-6		91-20-3	
					Method	8260		8015		8015		8015		8015		8260		8260		8260		8260		8270 SIM		8270 SIM		8270 SIM	
					DOH Tier 1 EAL	300		400		500		—		—		5		30		40		20		10		10		17	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		101		ND		ND		ND		ND		ND		ND		ND	
					Maximum	3.99		81.7		114		ND		101		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
NMW25	SGS Orlando	FC9446	NMW25-WGN01LF-2309	9/7/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
NMW25	ALS Kelso	K2311233	NMW25-WGN01LF-2310	10/2/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
NMW25	Energy	B23100338	NMW25-WGN01LF-2310	10/2/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
NMW25	SGS Orlando	FC10161	NMW25-WGN01LF-2310	10/2/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U
NMW25	APPL	23J0125	NMW25-WGN01LF-23Q4	10/13/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
NMW25	Energy	B23101258	NMW25-WGN01LF-23Q4	10/13/2023	Primary	3.99	J	<141	U	<141	U	–		–		<0.1	U	<0.1	U	<0.2	U	<0.1	U	–		–		–	
NMW25	SGS Orlando	FC10488	NMW25-WGN01LF-23Q4	10/13/2023	Primary	–		–		–		–		–		–		–		–		–		<0.4	U	<0.4	U	<0.4	U
NMW25	ALS Kelso	K2312820	NMW25-WGN01LF-2311	11/9/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
NMW25	SGS Orlando	FC11161	NMW25-WGN01LF-2311	11/9/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
NMW25	SGS Orlando	FC11804	NMW25-WGN01LF-2312	12/7/2023	Primary	<50	U	81.7	J	114	J	<100	U	101	J	<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	U,J	<0.4	U,J	<0.4	U

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: NMW25

						Polycyclic Aromatic Hydrocarbons (PAHs)																											
					Analyte	Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)		Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
					CAS No.	83-32-9		208-96-8		120-12-7		56-55-3		50-32-8		205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
					Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
					DOH Tier 1 EAL	20		240		0.18		0.029		0.2		0.22		0.13		0.4		1		0.022		13		240		0.095		210		68	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
NMW25	SGS Orlando	FC9446	NMW25-WGN01LF-2309	9/7/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	UJ	<0.042	UJ	<0.042	U	<0.042	UJ	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
NMW25	ALS Kelso	K2311233	NMW25-WGN01LF-2310	10/2/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW25	Energy	B23100338	NMW25-WGN01LF-2310	10/2/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW25	SGS Orlando	FC10161	NMW25-WGN01LF-2310	10/2/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
NMW25	APPL	23J0125	NMW25-WGN01LF-23Q4	10/13/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW25	Energy	B23101258	NMW25-WGN01LF-23Q4	10/13/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW25	SGS Orlando	FC10488	NMW25-WGN01LF-23Q4	10/13/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
NMW25	ALS Kelso	K2312820	NMW25-WGN01LF-2311	11/9/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW25	SGS Orlando	FC11161	NMW25-WGN01LF-2311	11/9/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
NMW25	SGS Orlando	FC11804	NMW25-WGN01LF-2312	12/7/2023	Primary	<0.4	UJ	<0.4	UJ	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	UJ	<0.4	UJ	<0.04	U	<0.4	UJ	<0.4	U

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: NMW25

						Fuel Additive				Lead Scavengers				Natural Attenuation Parameters					
					Analyte	2-(2- Methoxyethoxy)-ethanol [b]		Phenol		1,2-Dibromoethane		1,2-Dichloroethane		Methane		Total Organic Carbon		NV Dissolved Organic Carbon	
					CAS No.	111-77-3		108-95-2		106-93-4		107-06-2		74-82-8		TOC		—	
					Method	8270D		SW8270		8011		8260		RSK 175		9060		9060	
					DOH Tier 1 EAL	800		300		0.04		5		—		—		—	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		500		700	
					Maximum	ND		ND		ND		ND		0.34		750		800	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result	
NMW25	SGS Orlando	FC9446	NMW25-WGN01LF-2309	9/7/2023	Primary	–		<2	U	–		<0.5	U	0.29	J	–		–	
NMW25	ALS Kelso	K2311233	NMW25-WGN01LF-2310	10/2/2023	Primary	–		–		–		–		–		500		700	
NMW25	Energy	B23100338	NMW25-WGN01LF-2310	10/2/2023	Primary	–		–		<0.0049	U	–		–		–		–	
NMW25	SGS Orlando	FC10161	NMW25-WGN01LF-2310	10/2/2023	Primary	–		<1.9	U	–		<0.5	U	<0.25	U	–		–	
NMW25	APPL	23J0125	NMW25-WGN01LF-23Q4	10/13/2023	Primary	<80	UJ	–		–		–		–		–		–	
NMW25	Energy	B23101258	NMW25-WGN01LF-23Q4	10/13/2023	Primary	–		–		<0.0048	U	<0.1	U	–		–		–	
NMW25	SGS Orlando	FC10488	NMW25-WGN01LF-23Q4	10/13/2023	Primary	–		<1.9	U	–		–		0.23	J	750	J-	–	
NMW25	ALS Kelso	K2312820	NMW25-WGN01LF-2311	11/9/2023	Primary	–		–		–		–		–		700		800	
NMW25	SGS Orlando	FC11161	NMW25-WGN01LF-2311	11/9/2023	Primary	–		<2	U	<0.015	U	<0.5	U	<0.25	U	–		–	
NMW25	SGS Orlando	FC11804	NMW25-WGN01LF-2312	12/7/2023	Primary	–		<2	U	<0.015	U	<0.5	U	0.34	J	–		–	

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: NMW30

						Total Petroleum Hydrocarbons												Volatile Organic Compounds												Polycyclic Aromatic Hydrocarbons (PAHs) – AOC/LTM					
					Analyte	TPH-g		TPH-d [a]		TPH-o [a]		TPH-d with Silica Gel Cleanup [a]		TPH-o with Silica Gel Cleanup [a]		Benzene		Ethylbenzene		Toluene		Xylenes		1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene	
					CAS No.	PHCC6C10		PHCC10C24		PHCC24C40		PHCC10C24SGC		PHCC24C40SGC		71-43-2		100-41-4		108-88-3		1330-20-7		90-12-0		91-57-6		91-20-3	
					Method	8260		8015		8015		8015		8015		8260		8260		8260		8260		8270 SIM		8270 SIM		8270 SIM	
					DOH Tier 1 EAL	300		400		500		—		—		5		30		40		20		10		10		17	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		103		94		ND		ND		ND		ND		1.2		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
NMW30	ALS Kelso	K2312080	NMW30-WGN01LF-2310	10/19/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
NMW30	Energy	B23101663	NMW30-WGN01LF-2310	10/19/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
NMW30	SGS Orlando	FC10616	NMW30-WGN01LF-2310	10/19/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	1.2		<1.5	U	<0.4	U	<0.4	U	<0.4	U
NMW30	APPL	23J0238	NMW30-WGN01LF-23Q4	10/19/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
NMW30	Energy	B23101659	NMW30-WGN01LF-23Q4	10/19/2023	Primary	<8.5	U	55.3	J	<145	U	<145	U	<145	U	<0.1	U	<0.1	U	1.02		<0.1	U	–		–		–	
NMW30	SGS Orlando	FC10617	NMW30-WGN01LF-23Q4	10/19/2023	Primary	–		–		–		–		–		–		–		–		–		<0.4	U	<0.4	U	<0.4	U
NMW30	ALS Kelso	K2312820	NMW30-WGN01LF-2311	11/9/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
NMW30	SGS Orlando	FC11161	NMW30-WGN01LF-2311	11/9/2023	Primary	<50	U	<96	U	<150	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
NMW30	SGS Orlando	FC11804	NMW30-WGN01LF-2312	12/7/2023	Primary	<50	U	103	J	94	J	<100	U	<160	U	<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	UJ	<0.4	UJ	<0.4	U

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: NMW30

						Polycyclic Aromatic Hydrocarbons (PAHs)																													
					Analyte	Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)		Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
					CAS No.	83-32-9		208-96-8		120-12-7		56-55-3		50-32-8		205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
					Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
					DOH Tier 1 EAL	20		240		0.18		0.029		0.2		0.22		0.13		0.4		1		0.022		13		240		0.095		210		68	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
NMW30	ALS Kelso	K2312080	NMW30-WGN01LF-2310	10/19/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW30	Energy	B23101663	NMW30-WGN01LF-2310	10/19/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW30	SGS Orlando	FC10616	NMW30-WGN01LF-2310	10/19/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
NMW30	APPL	23J0238	NMW30-WGN01LF-23Q4	10/19/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW30	Energy	B23101659	NMW30-WGN01LF-23Q4	10/19/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW30	SGS Orlando	FC10617	NMW30-WGN01LF-23Q4	10/19/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
NMW30	ALS Kelso	K2312820	NMW30-WGN01LF-2311	11/9/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW30	SGS Orlando	FC11161	NMW30-WGN01LF-2311	11/9/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
NMW30	SGS Orlando	FC11804	NMW30-WGN01LF-2312	12/7/2023	Primary	<0.4	UJ	<0.4	UJ	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	UJ	<0.4	UJ	<0.04	U	<0.4	UJ	<0.4	U

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: NMW30

						Fuel Additive				Lead Scavengers						Natural Attenuation Parameters					
					Analyte	2-(2- Methoxyethoxy)-ethanol [b]		Phenol		1,2-Dibromoethane		1,2-Dichloroethane		Methane		Total Organic Carbon		NV Dissolved Organic Carbon	
					CAS No.	111-77-3		108-95-2		106-93-4		107-06-2		74-82-8		TOC		—	
					Method	8270D		SW8270		8011		8260		RSK 175		9060		9060	
					DOH Tier 1 EAL	800		300		0.04		5		—		—		—	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		0.18		900		1100	
					Maximum	ND		ND		ND		ND		22.9		2800		3300	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result	
NMW30	ALS Kelso	K2312080	NMW30-WGN01LF-2310	10/19/2023	Primary	–		–		–		–		–		900		1100	
NMW30	Energy	B23101663	NMW30-WGN01LF-2310	10/19/2023	Primary	–		–		<0.005	U	–		–		–		–	
NMW30	SGS Orlando	FC10616	NMW30-WGN01LF-2310	10/19/2023	Primary	–		<2	U	–		<0.5	U	0.18	J	–		–	
NMW30	APPL	23J0238	NMW30-WGN01LF-23Q4	10/19/2023	Primary	<80	UJ	–		–		–		–		–		–	
NMW30	Energy	B23101659	NMW30-WGN01LF-23Q4	10/19/2023	Primary	–		–		<0.005	U	<0.1	U	–		–		–	
NMW30	SGS Orlando	FC10617	NMW30-WGN01LF-23Q4	10/19/2023	Primary	–		<1.9	U	–		–		0.18	J	1600	J	–	
NMW30	ALS Kelso	K2312820	NMW30-WGN01LF-2311	11/9/2023	Primary	–		–		–		–		–		2800		3300	
NMW30	SGS Orlando	FC11161	NMW30-WGN01LF-2311	11/9/2023	Primary	–		<1.9	U	<0.014	U	<0.5	U	0.23	J	–		–	
NMW30	SGS Orlando	FC11804	NMW30-WGN01LF-2312	12/7/2023	Primary	–		<2	U	<0.015	U	<0.5	U	22.9		–		–	

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: NMW32

						Total Petroleum Hydrocarbons										Volatile Organic Compounds								Polycyclic Aromatic Hydrocarbons (PAHs) – AOC/LTM					
					Analyte	TPH-g		TPH-d [a]		TPH-o [a]		TPH-d with Silica Gel Cleanup [a]		TPH-o with Silica Gel Cleanup [a]		Benzene		Ethylbenzene		Toluene		Xylenes		1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene	
					CAS No.	PHCC6C10		PHCC10C24		PHCC24C40		PHCC10C24SGC		PHCC24C40SGC		71-43-2		100-41-4		108-88-3		1330-20-7		90-12-0		91-57-6		91-20-3	
					Method	8260		8015		8015		8015		8015		8260		8260		8260		8260		8270 SIM		8270 SIM		8270 SIM	
					DOH Tier 1 EAL	300		400		500		—		—		5		30		40		20		10		10		17	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		–		–		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		–		–		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
NMW32	SGS Orlando	FC9641	NMW32-WGN01LF-2309	9/13/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U
NMW32	ALS Kelso	K2311233	NMW32-WGN01LF-2310	10/3/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
NMW32	Energy	B23100338	NMW32-WGN01LF-2310	10/3/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
NMW32	SGS Orlando	FC10202	NMW32-WGN01LF-2310	10/3/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
NMW32	APPL	23J0098	NMW32-WGN01LF-23Q4	10/10/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
NMW32	Energy	B23100868	NMW32-WGN01LF-23Q4	10/10/2023	Primary	<8.5	U	<141	U	<141	U	–		–		<0.1	U	<0.1	U	<0.2	U	<0.1	U	–		–		–	
NMW32	SGS Orlando	FC10364	NMW32-WGN01LF-23Q4	10/10/2023	Primary	–		–		–		–		–		–		–		–		–		<0.4	U	<0.4	U	<0.4	U
NMW32	ALS Kelso	K2312867	NMW32-WGN01LF-2311	11/10/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
NMW32	SGS Orlando	FC11172	NMW32-WGN01LF-2311	11/10/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U
NMW32	SGS Orlando	FC11847	NMW32-WGN01LF-2312	12/8/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	UJ	<0.42	UJ	<0.42	U

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: NMW32

						Polycyclic Aromatic Hydrocarbons (PAHs)																											
					Analyte	Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)		Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
					CAS No.	83-32-9		208-96-8		120-12-7		56-55-3		50-32-8		205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
					Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
					DOH Tier 1 EAL	20		240		0.18		0.029		0.2		0.22		0.13		0.4		1		0.022		13		240		0.095		210		68	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
NMW32	SGS Orlando	FC9641	NMW32-WGN01LF-2309	9/13/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
NMW32	ALS Kelso	K2311233	NMW32-WGN01LF-2310	10/3/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW32	Energy	B23100338	NMW32-WGN01LF-2310	10/3/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW32	SGS Orlando	FC10202	NMW32-WGN01LF-2310	10/3/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
NMW32	APPL	23J0098	NMW32-WGN01LF-23Q4	10/10/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW32	Energy	B23100868	NMW32-WGN01LF-23Q4	10/10/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW32	SGS Orlando	FC10364	NMW32-WGN01LF-23Q4	10/10/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
NMW32	ALS Kelso	K2312867	NMW32-WGN01LF-2311	11/10/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW32	SGS Orlando	FC11172	NMW32-WGN01LF-2311	11/10/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
NMW32	SGS Orlando	FC11847	NMW32-WGN01LF-2312	12/8/2023	Primary	<0.42	UJ	<0.42	UJ	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	UJ	<0.042	U	<0.42	UJ	<0.42	U

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: NMW32

						Fuel Additive				Lead Scavengers				Natural Attenuation Parameters					
					Analyte	2-(2- Methoxyethoxy)-ethanol [b]		Phenol		1,2-Dibromoethane		1,2-Dichloroethane		Methane		Total Organic Carbon		NV Dissolved Organic Carbon	
					CAS No.	111-77-3		108-95-2		106-93-4		107-06-2		74-82-8		TOC		—	
					Method	8270D		SW8270		8011		8260		RSK 175		9060		9060	
					DOH Tier 1 EAL	800		300		0.04		5		—		—		—	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		600		1000	
					Maximum	ND		ND		ND		ND		0.39		800		1100	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result	
NMW32	SGS Orlando	FC9641	NMW32-WGN01LF-2309	9/13/2023	Primary	–		<2	U	–		<0.5	U	<0.25	U	–		–	
NMW32	ALS Kelso	K2311233	NMW32-WGN01LF-2310	10/3/2023	Primary	–		–		–		–		–		**600**		**1000**	
NMW32	Energy	B23100338	NMW32-WGN01LF-2310	10/3/2023	Primary	–		–		<0.0049	U	–		–		–		–	
NMW32	SGS Orlando	FC10202	NMW32-WGN01LF-2310	10/3/2023	Primary	–		<1.9	U	–		<0.5	U	**0.39**	**J**	–		–	
NMW32	APPL	23J0098	NMW32-WGN01LF-23Q4	10/10/2023	Primary	<80	UJ	–		–		–		–		–		–	
NMW32	Energy	B23100868	NMW32-WGN01LF-23Q4	10/10/2023	Primary	–		–		<0.005	U	<0.1	U	–		–		–	
NMW32	SGS Orlando	FC10364	NMW32-WGN01LF-23Q4	10/10/2023	Primary	–		<1.9	U	–		–		<0.25	U	**770**	**J**	–	
NMW32	ALS Kelso	K2312867	NMW32-WGN01LF-2311	11/10/2023	Primary	–		–		–		–		–		**800**		**1100**	
NMW32	SGS Orlando	FC11172	NMW32-WGN01LF-2311	11/10/2023	Primary	–		<1.9	U	<0.014	U	<0.5	U	<0.25	U	–		–	
NMW32	SGS Orlando	FC11847	NMW32-WGN01LF-2312	12/8/2023	Primary	–		<1.9	U	<0.015	U	<0.5	U	<0.25	U	–		–	

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: NMW33

						Total Petroleum Hydrocarbons												Volatile Organic Compounds								Polycyclic Aromatic Hydrocarbons (PAHs) – AOC/LTM					
					Analyte	TPH-g		TPH-d [a]		TPH-o [a]		TPH-d with Silica Gel Cleanup [a]		TPH-o with Silica Gel Cleanup [a]		Benzene		Ethylbenzene		Toluene		Xylenes		1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene	
					CAS No.	PHCC6C10		PHCC10C24		PHCC24C40		PHCC10C24SGC		PHCC24C40SGC		71-43-2		100-41-4		108-88-3		1330-20-7		90-12-0		91-57-6		91-20-3	
					Method	8260		8015		8015		8015		8015		8260		8260		8260		8260		8270 SIM		8270 SIM		8270 SIM	
					DOH Tier 1 EAL	300		400		500		—		—		5		30		40		20		10		10		17	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		105		281		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
NMW33	ALS Kelso	K2311328	NMW33-WGN01LF-2310	10/3/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
NMW33	Energy	B23100338	NMW33-WGN01LF-2310	10/3/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
NMW33	SGS Orlando	FC10202	NMW33-WGN01LF-2310	10/3/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U
NMW33	APPL	23J0094	NMW33-WGN01LF-23Q4	10/9/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
NMW33	Energy	B23100745	NMW33-WGN01LF-23Q4	10/9/2023	Primary	<8.5	U	105	J	281	J	<141	U	<141	U	<0.1	U	<0.1	U	<0.2	U	<0.1	U	–		–		–	
NMW33	SGS Orlando	FC10327	NMW33-WGN01LF-23Q4	10/9/2023	Primary	–		–		–		–		–		–		–		–		–		<0.4	U	<0.4	U	<0.4	U
NMW33	ALS Kelso	K2312867	NMW33-WGN01LF-2311	11/10/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
NMW33	SGS Orlando	FC11172	NMW33-WGN01LF-2311	11/10/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U
NMW33	SGS Orlando	FC11847	NMW33-WGN01LF-2312	12/8/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	UJ	<0.42	UJ	<0.42	U

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: NMW33

						Polycyclic Aromatic Hydrocarbons (PAHs)																											
					Analyte	Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)		Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
					CAS No.	83-32-9		208-96-8		120-12-7		56-55-3		50-32-8		205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
					Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
					DOH Tier 1 EAL	20		240		0.18		0.029		0.2		0.22		0.13		0.4		1		0.022		13		240		0.095		210		68	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
NMW33	ALS Kelso	K2311328	NMW33-WGN01LF-2310	10/3/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW33	Energy	B23100338	NMW33-WGN01LF-2310	10/3/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW33	SGS Orlando	FC10202	NMW33-WGN01LF-2310	10/3/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
NMW33	APPL	23J0094	NMW33-WGN01LF-23Q4	10/9/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW33	Energy	B23100745	NMW33-WGN01LF-23Q4	10/9/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW33	SGS Orlando	FC10327	NMW33-WGN01LF-23Q4	10/9/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
NMW33	ALS Kelso	K2312867	NMW33-WGN01LF-2311	11/10/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW33	SGS Orlando	FC11172	NMW33-WGN01LF-2311	11/10/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
NMW33	SGS Orlando	FC11847	NMW33-WGN01LF-2312	12/8/2023	Primary	<0.42	UJ	<0.42	UJ	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	UJ	<0.042	U	<0.42	UJ	<0.42	U

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: NMW33

						Fuel Additive				Lead Scavengers				Natural Attenuation Parameters					
					Analyte	2-(2- Methoxyethoxy)-ethanol [b]		Phenol		1,2-Dibromoethane		1,2-Dichloroethane		Methane		Total Organic Carbon		NV Dissolved Organic Carbon	
					CAS No.	111-77-3		108-95-2		106-93-4		107-06-2		74-82-8		TOC		—	
					Method	8270D		SW8270		8011		8260		RSK 175		9060		9060	
					DOH Tier 1 EAL	800		300		0.04		5		—		—		—	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		ND		0.29		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result	
NMW33	ALS Kelso	K2311328	NMW33-WGN01LF-2310	10/3/2023	Primary	–		–		–		–		–		<500	UJ-	<500	UJ
NMW33	Energy	B23100338	NMW33-WGN01LF-2310	10/3/2023	Primary	–		–		<0.005	U	–		–		–		–	
NMW33	SGS Orlando	FC10202	NMW33-WGN01LF-2310	10/3/2023	Primary	–		<1.9	U	–		<0.5	U	<0.25	U	–		–	
NMW33	APPL	23J0094	NMW33-WGN01LF-23Q4	10/9/2023	Primary	<80	UJ	–		–		–		–		–		–	
NMW33	Energy	B23100745	NMW33-WGN01LF-23Q4	10/9/2023	Primary	–		–		<0.0048	U	<0.1	U	–		–		–	
NMW33	SGS Orlando	FC10327	NMW33-WGN01LF-23Q4	10/9/2023	Primary	–		<1.9	U	–		–		<0.25	U	<1000	U	–	
NMW33	ALS Kelso	K2312867	NMW33-WGN01LF-2311	11/10/2023	Primary	–		–		–		–		–		<500	U	<500	U
NMW33	SGS Orlando	FC11172	NMW33-WGN01LF-2311	11/10/2023	Primary	–		<1.9	U	<0.014	U	<0.5	U	**0.29**	**J**	–		–	
NMW33	SGS Orlando	FC11847	NMW33-WGN01LF-2312	12/8/2023	Primary	–		<1.9	U	<0.014	U	<0.5	U	<0.25	U	–		–	

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: HDMW2253-01

						Total Petroleum Hydrocarbons												Volatile Organic Compounds								Polycyclic Aromatic Hydrocarbons (PAHs) – AOC/LTM					
					Analyte	TPH-g		TPH-d [a]		TPH-o [a]		TPH-d with Silica Gel Cleanup [a]		TPH-o with Silica Gel Cleanup [a]		Benzene		Ethylbenzene		Toluene		Xylenes		1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene	
					CAS No.	PHCC6C10		PHCC10C24		PHCC24C40		PHCC10C24SGC		PHCC24C40SGC		71-43-2		100-41-4		108-88-3		1330-20-7		90-12-0		91-57-6		91-20-3	
					Method	8260		8015		8015		8015		8015		8260		8260		8260		8260		8270 SIM		8270 SIM		8270 SIM	
					DOH Tier 1 EAL	300		400		500		—		—		5		30		40		20		10		10		17	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		–		–		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		–		–		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
HDMW2253-03	ALS Kelso	K2310020	HDMW2253-03-WGN01LF-2309	9/5/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
HDMW2253-03	SGS Orlando	FC9377	HDMW2253-03-WGN01LF-2309	9/5/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U
HDMW2253-03	ALS Kelso	K2311233	HDMW2253-03-WGN01LF-2310	10/3/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
HDMW2253-03	SGS Orlando	FC10202	HDMW2253-03-WGN01LF-2310	10/3/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
HDMW2253-03	APPL	23J0035	HDMW2253-03-WGN01LF-23Q4	10/3/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
HDMW2253-03	Energy	B23100332	HDMW2253-03-WGN01LF-23Q4	10/3/2023	Primary	<8.5	U	<141	U	<141	U	–		–		<0.1	U	<0.1	U	<0.2	U	<0.1	U	–		–		–	
HDMW2253-03	SGS Orlando	FC10199	HDMW2253-03-WGN01LF-23Q4	10/3/2023	Primary	–		–		–		–		–		–		–		–		–		<0.4	U	<0.4	U	<0.4	U
HDMW2253-03	ALS Kelso	K2312763	HDMW2253-03-WGN01LF-2311	11/7/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
HDMW2253-03	SGS Orlando	FC11063C	HDMW2253-03-WGN01LF-2311	11/7/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	UJ	<0.42	U	<0.42	U
HDMW2253-03	SGS Orlando	FC11847	HDMW2253-03-WGN01LF-2312	12/8/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	UJ	<0.42	UJ	<0.42	U
HDMW2253-03	APPL	23L0135	HDMW2253-03-WGN02LF-23Q4	12/15/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: HDMW2253-01

						Polycyclic Aromatic Hydrocarbons (PAHs)																											
					Analyte	Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)		Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
					CAS No.	83-32-9		208-96-8		120-12-7		56-55-3		50-32-8		205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
					Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
					DOH Tier 1 EAL	20		240		0.18		0.029		0.2		0.22		0.13		0.4		1		0.022		13		240		0.095		210		68	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
HDMW2253-03	ALS Kelso	K2310020	HDMW2253-03-WGN01LF-2309	9/5/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
HDMW2253-03	SGS Orlando	FC9377	HDMW2253-03-WGN01LF-2309	9/5/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	UJ	<0.04	UJ	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
HDMW2253-03	ALS Kelso	K2311233	HDMW2253-03-WGN01LF-2310	10/3/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
HDMW2253-03	SGS Orlando	FC10202	HDMW2253-03-WGN01LF-2310	10/3/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
HDMW2253-03	APPL	23J0035	HDMW2253-03-WGN01LF-23Q4	10/3/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
HDMW2253-03	Energy	B23100332	HDMW2253-03-WGN01LF-23Q4	10/3/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
HDMW2253-03	SGS Orlando	FC10199	HDMW2253-03-WGN01LF-23Q4	10/3/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
HDMW2253-03	ALS Kelso	K2312763	HDMW2253-03-WGN01LF-2311	11/7/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
HDMW2253-03	SGS Orlando	FC11063C	HDMW2253-03-WGN01LF-2311	11/7/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
HDMW2253-03	SGS Orlando	FC11847	HDMW2253-03-WGN01LF-2312	12/8/2023	Primary	<0.42	UJ	<0.42	UJ	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	UJ	<0.042	U	<0.42	UJ	<0.42	U
HDMW2253-03	APPL	23L0135	HDMW2253-03-WGN02LF-23Q4	12/15/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: HDMW2253-01

						Fuel Additive				Lead Scavengers				Natural Attenuation Parameters					
					Analyte	2-(2- Methoxyethoxy)-ethanol [b]		Phenol		1,2-Dibromoethane		1,2-Dichloroethane		Methane		Total Organic Carbon		NV Dissolved Organic Carbon	
					CAS No.	111-77-3		108-95-2		106-93-4		107-06-2		74-82-8		TOC		—	
					Method	8270D		SW8270		8011		8260		RSK 175		9060		9060	
					DOH Tier 1 EAL	800		300		0.04		5		—		—		—	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		–		–		1.6		ND		ND	
					Maximum	ND		ND		–		–		2.5		ND		800	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result	
HDMW2253-03	ALS Kelso	K2310020	HDMW2253-03-WGN01LF-2309	9/5/2023	Primary	–		–		–		–		–		<500	U	<500	U
HDMW2253-03	SGS Orlando	FC9377	HDMW2253-03-WGN01LF-2309	9/5/2023	Primary	–		<2	U	–		–		1.9		–		–	
HDMW2253-03	ALS Kelso	K2311233	HDMW2253-03-WGN01LF-2310	10/3/2023	Primary	–		–		–		–		–		<500	U	<500	U
HDMW2253-03	SGS Orlando	FC10202	HDMW2253-03-WGN01LF-2310	10/3/2023	Primary	–		<1.9	U	–		–		2		–		–	
HDMW2253-03	APPL	23J0035	HDMW2253-03-WGN01LF-23Q4	10/3/2023	Primary	–		–		–		–		–		–		–	
HDMW2253-03	Energy	B23100332	HDMW2253-03-WGN01LF-23Q4	10/3/2023	Primary	–		–		–		–		–		–		–	
HDMW2253-03	SGS Orlando	FC10199	HDMW2253-03-WGN01LF-23Q4	10/3/2023	Primary	–		<1.9	U	–		–		2.5		<1000	U	–	
HDMW2253-03	ALS Kelso	K2312763	HDMW2253-03-WGN01LF-2311	11/7/2023	Primary	–		–		–		–		–		<500	U	800	
HDMW2253-03	SGS Orlando	FC11063C	HDMW2253-03-WGN01LF-2311	11/7/2023	Primary	–		<2	U	–		–		2.4		–		–	
HDMW2253-03	SGS Orlando	FC11847	HDMW2253-03-WGN01LF-2312	12/8/2023	Primary	–		<1.9	U	–		–		1.6		–		–	
HDMW2253-03	APPL	23L0135	HDMW2253-03-WGN02LF-23Q4	12/15/2023	Primary	<80	UJ	–		–		–		–		–		–	

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHMW01R

						Total Petroleum Hydrocarbons														Volatile Organic Compounds								Polycyclic Aromatic Hydrocarbons (PAHs) – AOC/LTM					
					Analyte	TPH-g		TPH-d [a]		TPH-o [a]		TPH-d with Silica Gel Cleanup [a]		TPH-o with Silica Gel Cleanup [a]		Benzene		Ethylbenzene		Toluene		Xylenes		1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene	
					CAS No.	PHCC6C10		PHCC10C24		PHCC24C40		PHCC10C24SGC		PHCC24C40SGC		71-43-2		100-41-4		108-88-3		1330-20-7		90-12-0		91-57-6		91-20-3	
					Method	8260		8015		8015		8015		8015		8260		8260		8260		8260		8270 SIM		8270 SIM		8270 SIM	
					DOH Tier 1 EAL	300		400		500		—		—		5		30		40		20		10		10		17	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		392		545		266		ND		ND		ND		ND		ND		1.6		ND		0.54	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW01R	SGS Orlando	FC7026	RHMW01R-WGN01LF-2306WK2	6/15/2023	Primary	<50	U	392		106	J	266		<170	U	<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U
RHMW01R	ALS Kelso	K2310020	RHMW01R-WGN01LF-2309	9/5/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	SGS Orlando	FC9377	RHMW01R-WGN01LF-2309	9/5/2023	Primary	<50	U	158	J	<160	U	125	J	<160	U	<0.5	U	<0.5	U	<0.5	U	<1.5	U	0.57	J	<0.4	U	<0.4	U
RHMW01R	ALS Kelso	K2311474	RHMW01R-WGN01LF-2310	10/4/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	SGS Orlando	FC10295	RHMW01R-WGN01LF-2310	10/4/2023	Primary	<50	U	242		<160	U	168	J	<160	U	<0.5	U	<0.5	U	<0.5	U	<1.5	U	1.6	J	<0.42	UJ	0.54	J
RHMW01R	APPL	23J0127	RHMW01R-WGN01LF-23Q4	10/12/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Energy	B2310113	RHMW01R-WGN01LF-23Q4	10/12/2023	Primary	<8.5	U	385		545		85.3	J	<141	U	<0.1	U	<0.1	U	<0.2	U	<0.1	U	–		–		–	
RHMW01R	SGS Orlando	FC10448	RHMW01R-WGN01LF-23Q4	10/12/2023	Primary	–		–		–		–		–		–		–		–		–		0.96		<0.42	U	<0.42	U
RHMW01R	SGS Orlando	FC10534	RHMW01R-WGN01LF-2310WK3-DF	10/17/2023	Primary	–		233		<160	U	220		<160	U	–		–		–		–		1.3		<0.4	U	<0.4	U
RHMW01R	SGS Orlando	FC10716	RHMW01R-WGN01LF-2310WK4-DF	10/24/2023	Primary	–		202	J	<170	U	167	J	<170	U	–		–		–		–		1.3		<0.4	U	<0.4	U
RHMW01R	SGS Orlando	FC10882	RHMW01R-WGN01LF-2310WK5-DF	10/31/2023	Primary	–		247		<170	U	233		<170	U	–		–		–		–		1.4		<0.42	U	0.34	J
RHMW01R	SGS Orlando	FC11019	RHMW01R-WGN01LF-2311-DF	11/6/2023	Primary	–		260		<170	U	194	J	<170	U	–		–		–		–		1.5		<0.42	U	0.35	J
RHMW01R	ALS Kelso	K2312763	RHMW01R-WGN01LF-2311	11/7/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	SGS Orlando	FC11063C	RHMW01R-WGN01LF-2311	11/7/2023	Primary	<50	U	200	J	<170	U	161	J	<170	U	<0.5	U	<0.5	U	<0.5	U	<1.5	U	1	J	<0.42	U	<0.42	U
RHMW01R	SGS Orlando	FC11221	RHMW01R-WGN01LF-2311WK2-DF	11/13/2023	Primary	–		253		<170	U	180	J	<170	U	–		–		–		–		1.1		<0.42	U	<0.42	U
RHMW01R	SGS Orlando	FC11477	RHMW01R-WGN01LF-2311WK3-DF	11/24/2023	Primary	–		244		<170	U	168	J	<170	U	–		–		–		–		1.1	J	<0.42	UJ	<0.42	U
RHMW01R	SGS Orlando	FC11651	RHMW01R-WGN01LF-2311WK4-DF	12/1/2023	Primary	–		244		<160	U	217		<160	U	–		–		–		–		0.63	J	<0.42	UJ	<0.42	U
RHMW01R	SGS Orlando	FC11848	RHMW01R-WGFD01LF-2312-DF	12/8/2023	Field Duplicate	<50	U	102	J	<160	U	<100	U	<160	U	<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	UJ	<0.42	UJ	<0.42	U
RHMW01R	SGS Anchorage	1236695_EDMS	RHMW01R-WGN01LF-2312-DF	12/8/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	SGS Orlando	FC11848	RHMW01R-WGN01LF-2312-DF	12/8/2023	Primary	<50	U	107	J	<160	U	80.3	J	<160	U	<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	UJ	<0.42	UJ	<0.42	U
RHMW01R	SGS Orlando	FC11848B	RHMW01R-WGN01LF-2312-DF	12/8/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	SGS Orlando	FC12040	RHMW01R-WGFD01LF-2312WK2-DF	12/15/2023	Field Duplicate	–		93.1	J	<170	U	90.7	J	<170	U	–		–		–		–		–		–		–		–	
RHMW01R	SGS Orlando	FC12040B	RHMW01R-WGFD01LF-2312WK2-DF	12/15/2023	Field Duplicate	–		–		–		–		–		–		–		–		–		<0.42	U	<0.42	U	<0.42	U
RHMW01R	SGS Orlando	FC12040	RHMW01R-WGN01LF-2312WK2-DF	12/15/2023	Primary	–		86.2	J	<170	U	85.6	J	<170	U	–		–		–		–		–		–		–		–	
RHMW01R	SGS Orlando	FC12040B	RHMW01R-WGN01LF-2312WK2-DF	12/15/2023	Primary	–		–		–		–		–		–		–		–		–		<0.42	U	<0.42	U	<0.42	U
RHMW01R	SGS Orlando	FC12136	RHMW01R-WGFD01LF-2312WK3-DF	12/19/2023	Field Duplicate	–		103	J	<170	U	92	J	<170	U	–		–		–		–		<0.42	U	<0.42	U	<0.42	U
RHMW01R	SGS Orlando	FC12136	RHMW01R-WGN01LF-2312WK3-DF	12/19/2023	Primary	–		<100	U	<170	U	–		–		–		–		–		–		<0.43	U	<0.43	U	<0.43	U
RHMW01R	SGS Orlando	FC12235	RHMW01R-WGFD01LF-2312WK4-DF	12/26/2023	Field Duplicate	–		95.5	J	<170	U	<100	U	<170	U	–		–		–		–		<0.42	U	<0.42	U	<0.42	U
RHMW01R	SGS Orlando	FC12235	RHMW01R-WGN01LF-2312WK4-DF	12/26/2023	Primary	–		92.1	J	<170	U	<100	U	<170	U	–		–		–		–		<0.42	U	<0.42	U	<0.42	U
RHMW01R	SGS Orlando	FC12419	RHMW01R-WGFD01LF-2401-DF	1/5/2024	Field Duplicate	<50	U	86.6	J	<170	U	<100	U	<170	U	<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW01R	SGS Anchorage	1240121_EDMS	RHMW01R-WGN01LF-2401-DF	1/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	SGS Orlando	FC12419	RHMW01R-WGN01LF-2401-DF	1/5/2024	Primary	<50	U	89.8	J	<170	U	<100	U	<170	U	<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW01R	SGS Orlando	FC12419B	RHMW01R-WGN01LF-2401-DF	1/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	SGS Orlando	FC12560	RHMW01R-WGFD01LF-2401WK2-DF	1/12/2024	Field Duplicate	–		95.9	J	<170	U	<100	U	<170	U	–		–		–		–		<0.42	U	<0.42	U	<0.42	U
RHMW01R	SGS Orlando	FC12560	RHMW01R-WGN01LF-2401WK2-DF	1/12/2024	Primary	–		114	J	<170	U	92.3	J	<170	U	–		–		–		–		<0.42	U	<0.42	U	<0.42	U
RHMW01R	SGS Orlando	FC12701	RHMW01R-WGFD01LF-2401WK3-DF	1/19/2024	Field Duplicate	–		90.4	J	<150	U	91	J	<150	U	–		–		–		–		<0.38	U	<0.38	U	<0.38	U
RHMW01R	SGS Orlando	FC12701	RHMW01R-WGN01LF-2401WK3-DF	1/19/2024	Primary	–		85.5	J	<160	U	<100	U	<160	U	–		–		–		–		<0.4	U	<0.4	U	<0.4	U

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHMW01R

						Polycyclic Aromatic Hydrocarbons (PAHs)																													
					Analyte	Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)		Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)peryelene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
					CAS No.	83-32-9		208-96-8		120-12-7		56-55-3		50-32-8		205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
					Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
					DOH Tier 1 EAL	20		240		0.18		0.029		0.2		0.22		0.13		0.4		.1		0.022		13		240		0.095		210		68	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW01R	SGS Orlando	FC7026	RHMW01R-WGN01LF-2306WK2	6/15/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHMW01R	ALS Kelso	K2310020	RHMW01R-WGN01LF-2309	9/5/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	SGS Orlando	FC9377	RHMW01R-WGN01LF-2309	9/5/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	UJ	<0.04	UJ	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHMW01R	ALS Kelso	K2311474	RHMW01R-WGN01LF-2310	10/4/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	SGS Orlando	FC10295	RHMW01R-WGN01LF-2310	10/4/2023	Primary	<0.42	UJ	<0.42	UJ	<0.42	UJ	<0.042	UJ	<0.042	UJ	<0.042	UJ	<0.042	UJ	<0.042	UJ	<0.083	UJ	<0.042	UJ	<0.42	UJ	<0.42	UJ	<0.042	UJ	<0.42	UJ	<0.42	UJ
RHMW01R	APPL	23J0127	RHMW01R-WGN01LF-23Q4	10/12/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Energy	B2310113	RHMW01R-WGN01LF-23Q4	10/12/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	SGS Orlando	FC10448	RHMW01R-WGN01LF-23Q4	10/12/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW01R	SGS Orlando	FC10534	RHMW01R-WGN01LF-2310WK3-DF	10/17/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	SGS Orlando	FC10716	RHMW01R-WGN01LF-2310WK4-DF	10/24/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	SGS Orlando	FC10882	RHMW01R-WGN01LF-2310WK5-DF	10/31/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	SGS Orlando	FC11019	RHMW01R-WGN01LF-2311-DF	11/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	ALS Kelso	K2312763	RHMW01R-WGN01LF-2311	11/7/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	SGS Orlando	FC11063C	RHMW01R-WGN01LF-2311	11/7/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW01R	SGS Orlando	FC11221	RHMW01R-WGN01LF-2311WK2-DF	11/13/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	SGS Orlando	FC11477	RHMW01R-WGN01LF-2311WK3-DF	11/24/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	SGS Orlando	FC11651	RHMW01R-WGN01LF-2311WK4-DF	12/1/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	SGS Orlando	FC11848	RHMW01R-WGFD01LF-2312-DF	12/8/2023	Field Duplicate	<0.42	UJ	<0.42	UJ	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	UJ	<0.042	U	<0.42	UJ	<0.42	U
RHMW01R	SGS Anchorage	1236695_EDMS	RHMW01R-WGN01LF-2312-DF	12/8/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	SGS Orlando	FC11848	RHMW01R-WGN01LF-2312-DF	12/8/2023	Primary	<0.42	UJ	<0.42	UJ	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	UJ	<0.042	U	<0.42	UJ	<0.42	U
RHMW01R	SGS Orlando	FC11848B	RHMW01R-WGN01LF-2312-DF	12/8/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	SGS Orlando	FC12040	RHMW01R-WGFD01LF-2312WK2-DF	12/15/2023	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	SGS Orlando	FC12040B	RHMW01R-WGFD01LF-2312WK2-DF	12/15/2023	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	SGS Orlando	FC12040	RHMW01R-WGN01LF-2312WK2-DF	12/15/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	SGS Orlando	FC12040B	RHMW01R-WGN01LF-2312WK2-DF	12/15/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	SGS Orlando	FC12136	RHMW01R-WGFD01LF-2312WK3-DF	12/19/2023	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	SGS Orlando	FC12136	RHMW01R-WGN01LF-2312WK3-DF	12/19/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	SGS Orlando	FC12235	RHMW01R-WGFD01LF-2312WK4-DF	12/26/2023	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	SGS Orlando	FC12235	RHMW01R-WGN01LF-2312WK4-DF	12/26/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	SGS Orlando	FC12419	RHMW01R-WGFD01LF-2401-DF	1/5/2024	Field Duplicate	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW01R	SGS Anchorage	1240121_EDMS	RHMW01R-WGN01LF-2401-DF	1/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	SGS Orlando	FC12419	RHMW01R-WGN01LF-2401-DF	1/5/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW01R	SGS Orlando	FC12419B	RHMW01R-WGN01LF-2401-DF	1/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	SGS Orlando	FC12560	RHMW01R-WGFD01LF-2401WK2-DF	1/12/2024	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	SGS Orlando	FC12560	RHMW01R-WGN01LF-2401WK2-DF	1/12/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	SGS Orlando	FC12701	RHMW01R-WGFD01LF-2401WK3-DF	1/19/2024	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	SGS Orlando	FC12701	RHMW01R-WGN01LF-2401WK3-DF	1/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHMW01R

						Fuel Additive				Lead Scavengers				Natural Attenuation Parameters					
					Analyte	2-(2- Methoxyethoxy)-ethanol [b]		Phenol		1,2-Dibromoethane		1,2-Dichloroethane		Methane		Total Organic Carbon		NV Dissolved Organic Carbon	
					CAS No.	111-77-3		108-95-2		106-93-4		107-06-2		74-82-8		TOC		—	
					Method	8270D		SW8270		8011		8260		RSK 175		9060		9060	
					DOH Tier 1 EAL	800		300		0.04		5		—		—		—	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		–		–		301		ND		ND	
					Maximum	ND		ND		–		–		1060		800		1000	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result	
RHMW01R	SGS Orlando	FC7026	RHMW01R-WGN01LF-2306WK2	6/15/2023	Primary	–		<2	U	–		–		534		–		–	
RHMW01R	ALS Kelso	K2310020	RHMW01R-WGN01LF-2309	9/5/2023	Primary	–		–		–		–		–		800		600	
RHMW01R	SGS Orlando	FC9377	RHMW01R-WGN01LF-2309	9/5/2023	Primary	–		<2	U	–		–		901		–		–	
RHMW01R	ALS Kelso	K2311474	RHMW01R-WGN01LF-2310	10/4/2023	Primary	–		–		–		–		–		800		900	
RHMW01R	SGS Orlando	FC10295	RHMW01R-WGN01LF-2310	10/4/2023	Primary	–		<1.9	U	–		–		1060		–		–	
RHMW01R	APPL	23J0127	RHMW01R-WGN01LF-23Q4	10/12/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHMW01R	Energy	B23101113	RHMW01R-WGN01LF-23Q4	10/12/2023	Primary	–		–		–		–		–		–		–	
RHMW01R	SGS Orlando	FC10448	RHMW01R-WGN01LF-23Q4	10/12/2023	Primary	–		<1.9	U	–		–		1020		770	J	–	
RHMW01R	SGS Orlando	FC10534	RHMW01R-WGN01LF-2310WK3-DF	10/17/2023	Primary	–		–		–		–		–		–		–	
RHMW01R	SGS Orlando	FC10716	RHMW01R-WGN01LF-2310WK4-DF	10/24/2023	Primary	–		–		–		–		–		–		–	
RHMW01R	SGS Orlando	FC10882	RHMW01R-WGN01LF-2310WK5-DF	10/31/2023	Primary	–		–		–		–		–		–		–	
RHMW01R	SGS Orlando	FC11019	RHMW01R-WGN01LF-2311-DF	11/6/2023	Primary	–		–		–		–		–		–		–	
RHMW01R	ALS Kelso	K2312763	RHMW01R-WGN01LF-2311	11/7/2023	Primary	–		–		–		–		–		700		1000	
RHMW01R	SGS Orlando	FC11063C	RHMW01R-WGN01LF-2311	11/7/2023	Primary	–		<1.9	U	–		–		968		–		–	
RHMW01R	SGS Orlando	FC11221	RHMW01R-WGN01LF-2311WK2-DF	11/13/2023	Primary	–		–		–		–		–		–		–	
RHMW01R	SGS Orlando	FC11477	RHMW01R-WGN01LF-2311WK3-DF	11/24/2023	Primary	–		–		–		–		–		–		–	
RHMW01R	SGS Orlando	FC11651	RHMW01R-WGN01LF-2311WK4-DF	12/1/2023	Primary	–		–		–		–		–		–		–	
RHMW01R	SGS Orlando	FC11848	RHMW01R-WGFD01LF-2312-DF	12/8/2023	Field Duplicate	–		<2	U	–		–		–		–		–	
RHMW01R	SGS Anchorage	1236695_EDMS	RHMW01R-WGN01LF-2312-DF	12/8/2023	Primary	–		–		–		–		–		<750	U	<750	U
RHMW01R	SGS Orlando	FC11848	RHMW01R-WGN01LF-2312-DF	12/8/2023	Primary	–		<1.9	U	–		–		–		–		–	
RHMW01R	SGS Orlando	FC11848B	RHMW01R-WGN01LF-2312-DF	12/8/2023	Primary	–		–		–		–		461		–		–	
RHMW01R	SGS Orlando	FC12040	RHMW01R-WGFD01LF-2312WK2-DF	12/15/2023	Field Duplicate	–		–		–		–		–		–		–	
RHMW01R	SGS Orlando	FC12040B	RHMW01R-WGFD01LF-2312WK2-DF	12/15/2023	Field Duplicate	–		–		–		–		–		–		–	
RHMW01R	SGS Orlando	FC12040	RHMW01R-WGN01LF-2312WK2-DF	12/15/2023	Primary	–		–		–		–		–		–		–	
RHMW01R	SGS Orlando	FC12040B	RHMW01R-WGN01LF-2312WK2-DF	12/15/2023	Primary	–		–		–		–		–		–		–	
RHMW01R	SGS Orlando	FC12136	RHMW01R-WGFD01LF-2312WK3-DF	12/19/2023	Field Duplicate	–		–		–		–		–		–		–	
RHMW01R	SGS Orlando	FC12136	RHMW01R-WGN01LF-2312WK3-DF	12/19/2023	Primary	–		–		–		–		–		–		–	
RHMW01R	SGS Orlando	FC12235	RHMW01R-WGFD01LF-2312WK4-DF	12/26/2023	Field Duplicate	–		–		–		–		–		–		–	
RHMW01R	SGS Orlando	FC12235	RHMW01R-WGN01LF-2312WK4-DF	12/26/2023	Primary	–		–		–		–		–		–		–	
RHMW01R	SGS Orlando	FC12419	RHMW01R-WGFD01LF-2401-DF	1/5/2024	Field Duplicate	–		<2	U	–		–		–		–		–	
RHMW01R	SGS Anchorage	1240121_EDMS	RHMW01R-WGN01LF-2401-DF	1/5/2024	Primary	–		–		–		–		–		698	J	702	J
RHMW01R	SGS Orlando	FC12419	RHMW01R-WGN01LF-2401-DF	1/5/2024	Primary	–		<2	U	–		–		–		–		–	
RHMW01R	SGS Orlando	FC12419B	RHMW01R-WGN01LF-2401-DF	1/5/2024	Primary	–		–		–		–		301		–		–	
RHMW01R	SGS Orlando	FC12560	RHMW01R-WGFD01LF-2401WK2-DF	1/12/2024	Field Duplicate	–		–		–		–		–		–		–	
RHMW01R	SGS Orlando	FC12560	RHMW01R-WGN01LF-2401WK2-DF	1/12/2024	Primary	–		–		–		–		–		–		–	
RHMW01R	SGS Orlando	FC12701	RHMW01R-WGFD01LF-2401WK3-DF	1/19/2024	Field Duplicate	–		–		–		–		–		–		–	
RHMW01R	SGS Orlando	FC12701	RHMW01R-WGN01LF-2401WK3-DF	1/19/2024	Primary	–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHMW02

						Total Petroleum Hydrocarbons														Volatile Organic Compounds										Polycyclic Aromatic Hydrocarbons (PAHs) – AOC/LTM								
					Analyte	TPH-g		TPH-d [a]		TPH-o [a]		TPH-d with Silica Gel Cleanup [a]		TPH-o with Silica Gel Cleanup [a]		Benzene		Ethylbenzene		Toluene		Xylenes		1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene									
					CAS No.	PHCC6C10		PHCC10C24		PHCC24C40		PHCC10C24SGC		PHCC24C40SGC		71-43-2		100-41-4		108-88-3		1330-20-7		90-12-0		91-57-6		91-20-3									
					Method	8260		8015		8015		8015		8015		8260		8260		8260		8260		8270 SIM		8270 SIM		8270 SIM									
					DOH Tier 1 EAL	300		400		500		—		—		5		30		40		20		10		10		17									
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L									
					Minimum	ND		693		ND		151		ND		ND		ND		ND		ND		0.81		ND		1.3									
					Maximum	50.9		2110		145		1620		91.8		ND		0.0912		ND		0.121		3.9		2.4		10.3									
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result									
RHMW02	SGS Orlando	FC7026	RHMW02-WGN01LF-2306WK2	6/15/2023	Primary	<50	U	2110		131	J	1620		<160	U	<0.5	U	<0.5	U	<0.5	U	<1.5	U	3.2		0.5	J	5.3									
RHMW02	SGS Orlando	FC9446	RHMW02-WGN01LF-2309	9/7/2023	Primary	<50	U	1190		<160	U	477		<160	U	<0.5	U	<0.5	U	<0.5	U	<1.5	U	2.8		2.1		6.4									
RHMW02	ALS Kelso	K2311474	RHMW02-WGN01LF-2310	10/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–									
RHMW02	SGS Orlando	FC10336	RHMW02-WGN01LF-2310	10/6/2023	Primary	<50	U	1460		89.5	J	846		<170	U	<0.5	UJ	<0.5	UJ	<0.5	UJ	<1.5	UJ	3.5		2.4		7									
RHMW02	APPL	23J0093	RHMW02-WGN01LF-23Q4	10/9/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–									
RHMW02	Energy	B2310074S	RHMW02-WGN01LF-23Q4	10/9/2023	Primary	10.7	J	1850		145	J	151	J	<143	U	<0.1	U	0.0912	J	<0.2	U	0.121	J	–		–		–									
RHMW02	SGS Orlando	FC10327	RHMW02-WGN01LF-23Q4	10/9/2023	Primary	–		–		–		–		–		–		–		–		–		3.2		1.7		7.4									
RHMW02	SGS Orlando	FC10638	RHMW02-WGFD01LF-2310WK3-DF	10/20/2023	Field Duplicate	–		1170		<150	U	992		<150	U	–		–		–		–		2.9		2.1		7.3									
RHMW02	SGS Orlando	FC10638	RHMW02-WGN01LF-2310WK3-DF	10/20/2023	Primary	–		990		<160	U	814		<160	U	–		–		–		–		3.1		2.3		7.2									
RHMW02	SGS Orlando	FC10809	RHMW02-WGFD01LF-2310WK4-DF	10/27/2023	Field Duplicate	–		1390		88.5	J	991		<160	U	–		–		–		–		2.5		1.3		6.8									
RHMW02	SGS Orlando	FC10809	RHMW02-WGN01LF-2310WK4-DF	10/27/2023	Primary	–		1270		<160	U	992		<160	U	–		–		–		–		3.1		1.7		7.9									
RHMW02	SGS Orlando	FC10974	RHMW02-WGFD01LF-2310WK5-DF	11/3/2023	Field Duplicate	–		1300		90.6	J	1190		<160	U	–		–		–		–		3.1		1.9		8									
RHMW02	SGS Orlando	FC10974	RHMW02-WGN01LF-2310WK5-DF	11/3/2023	Primary	–		1140		<150	U	1060		91.3	J	–		–		–		–		2.9		1.7		7.8									
RHMW02	SGS Orlando	FC11063	RHMW02-WGFD01LF-2311-DF	11/7/2023	Field Duplicate	<50	U	1270		97.4	J	941		<170	U	<0.5	U	<0.5	U	<0.5	U	<1.5	U	3.3	J	2.2		6.9									
RHMW02	ALS Kelso	K2312760	RHMW02-WGN01LF-2311-DF	11/7/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–									
RHMW02	SGS Orlando	FC11063	RHMW02-WGN01LF-2311-DF	11/7/2023	Primary	50.9	J	1090		<170	U	833		<170	U	<0.5	U	<0.5	U	<0.5	U	<1.5	U	3.3	J	2.1		6.8									
RHMW02	SGS Orlando	FC11063B	RHMW02-WGN01LF-2311-DF	11/7/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–									
RHMW02	SGS Orlando	FC11366	RHMW02-WGFD01LF-2311WK2-DF	11/17/2023	Field Duplicate	–		1500		121	J	1140		89.2	J	–		–		–		–		1.7		0.81	J	4.7									
RHMW02	SGS Orlando	FC11366	RHMW02-WGN01LF-2311WK2-DF	11/17/2023	Primary	–		1360		101	J	1110		91.8	J	–		–		–		–		2		0.98		5.1									
RHMW02	SGS Orlando	FC11473	RHMW02-WGFD01LF-2311WK3-DF	11/21/2023	Field Duplicate	–		1480		91.6	J	1320		<170	U	–		–		–		–		3.9	J	2.2	J	10.3									
RHMW02	SGS Orlando	FC11473	RHMW02-WGN01LF-2311WK3-DF	11/21/2023	Primary	–		1530		99.4	J	1360		87.3	J	–		–		–		–		3.4	J	1.7	J	9.3									
RHMW02	SGS Orlando	FC11651	RHMW02-WGFD01LF-2311WK4-DF	12/1/2023	Field Duplicate	–		1110		92.5	J	948		<170	U	–		–		–		–		1.6	J	0.79	J	2.9									
RHMW02	SGS Orlando	FC11651	RHMW02-WGN01LF-2311WK4-DF	12/1/2023	Primary	–		1080		<160	U	920		<160	U	–		–		–		–		1.6	J	0.81	J	3									
RHMW02	SGS Orlando	FC11848	RHMW02-WGFD01LF-2312-DF	12/8/2023	Field Duplicate	<50	U	835		<160	U	645		<160	U	<0.5	U	<0.5	U	<0.5	U	<1.5	U	0.96	J	0.37	J	1.4									
RHMW02	SGS Anchorage	1236695_EDMS	RHMW02-WGN01LF-2312-DF	12/8/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–									
RHMW02	SGS Orlando	FC11848	RHMW02-WGN01LF-2312-DF	12/8/2023	Primary	<50	U	693		<160	U	539		<160	U	<0.5	U	<0.5	U	<0.5	U	<1.5	U	0.91	J	0.36	J	1.3									
RHMW02	SGS Orlando	FC11848B	RHMW02-WGN01LF-2312-DF	12/8/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–									
RHMW02	SGS Orlando	FC12040	RHMW02-WGFD01LF-2312WK2-DF	12/15/2023	Field Duplicate	–		1210		93.8	J	1030		<170	U	–		–		–		–		–		–		–		–									
RHMW02	SGS Orlando	FC12040B	RHMW02-WGFD01LF-2312WK2-DF	12/15/2023	Field Duplicate	–		–		–		–		–		–		–		–		–		2.7		1.1		8.2									
RHMW02	SGS Orlando	FC12040	RHMW02-WGN01LF-2312WK2-DF	12/15/2023	Primary	–		1250		86.7	J	1210		<170	U	–		–		–		–		–		–		–		–									
RHMW02	SGS Orlando	FC12040B	RHMW02-WGN01LF-2312WK2-DF	12/15/2023	Primary	–		–		–		–		–		–		–		–		–		2.4		0.91		7.4									
RHMW02	SGS Orlando	FC12136	RHMW02-WGFD01LF-2312WK3-DF	12/19/2023	Field Duplicate	–		1100		<170	U	969		<170	U	–		–		–		–		2		0.79	J	4.7	J								
RHMW02	SGS Orlando	FC12136	RHMW02-WGN01LF-2312WK3-DF	12/19/2023	Primary	–	U	991		<160	U	908		<160	U	–		–		–		–		1.4		0.5	J	3.6	J								
RHMW02	SGS Orlando	FC12235	RHMW02-WGFD01LF-2312WK4-DF	12/26/2023	Field Duplicate	–		1110		84.4	J	828		<170	U	–		–		–		–		0.81	J	<0.42	U	1.9	J								
RHMW02	SGS Orlando	FC12235	RHMW02-WGN01LF-2312WK4-DF	12/26/2023	Primary	–		1030		88.6	J	720		<160	U	–		–		–		–		1.3		0.58	J	2.8	J								
RHMW02	SGS Anchorage	1240121_EDMS	RHMW02-WGN01LF-2401-DF	1/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–									
RHMW02	SGS Orlando	FC12419	RHMW02-WGN01LF-2401-DF	1/5/2024	Primary	<50	U	1050		<170	U	881		<170	U	<0.5	U	<0.5	U	<0.5	U	<1.5	U	1.9		1.1		4.4									
RHMW02	SGS Orlando	FC12419B	RHMW02-WGN01LF-2401-DF	1/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–									
RHMW02	SGS Orlando	FC12560	RHMW02-WGFD01LF-2401WK2-DF	1/12/2024	Field Duplicate	–		1110		<170	U	980		<170	U	–		–		–		–		1.8		0.76	J	3.6	J								
RHMW02	SGS Orlando	FC12560	RHMW02-WGN01LF-2401WK2-DF	1/12/2024	Primary	–		1080		88.6	J	944		<170	U	–		–		–		–		1.8		0.73	J	3.4									
RHMW02	SGS Orlando	FC12701	RHMW02-WGFD01LF-2401WK3-DF	1/19/2024	Field Duplicate	–		912		<160	U	834		<160	U	–		–		–		–		1.1		0.38	J	2.4									
RHMW02	SGS Orlando	FC12701	RHMW02-WGN01LF-2401WK3-DF	1/19/2024	Primary	–		942		<170	U	849		<170	U	–		–		–		–		1.2		0.44	J	2.6									

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHMW02

						Polycyclic Aromatic Hydrocarbons (PAHs)																													
					Analyte	Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)		Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)peryleне (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
					CAS No.	83-32-9		208-96-8		120-12-7		56-55-3		50-32-8		205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
					Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
					DOH Tier 1 EAL	20		240		0.18		0.029		0.2		0.22		0.13		0.4		1		0.022		13		240		0.095		210		68	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW02	SGS Orlando	FC7026	RHMW02-WGN01LF-2306WK2	6/15/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHMW02	SGS Orlando	FC9446	RHMW02-WGN01LF-2309	9/7/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW02	ALS Kelso	K2311474	RHMW02-WGN01LF-2310	10/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	SGS Orlando	FC10336	RHMW02-WGN01LF-2310	10/6/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHMW02	APPL	23J0093	RHMW02-WGN01LF-23Q4	10/9/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Energy	B23100745	RHMW02-WGN01LF-23Q4	10/9/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	SGS Orlando	FC10327	RHMW02-WGN01LF-23Q4	10/9/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHMW02	SGS Orlando	FC10638	RHMW02-WGFD01LF-2310WK3-DF	10/20/2023	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	SGS Orlando	FC10638	RHMW02-WGN01LF-2310WK3-DF	10/20/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	SGS Orlando	FC10809	RHMW02-WGFD01LF-2310WK4-DF	10/27/2023	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	SGS Orlando	FC10809	RHMW02-WGN01LF-2310WK4-DF	10/27/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	SGS Orlando	FC10974	RHMW02-WGFD01LF-2310WK5-DF	11/3/2023	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	SGS Orlando	FC10974	RHMW02-WGN01LF-2310WK5-DF	11/3/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	SGS Orlando	FC11063	RHMW02-WGFD01LF-2311-DF	11/7/2023	Field Duplicate	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW02	ALS Kelso	K2312760	RHMW02-WGN01LF-2311-DF	11/7/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	SGS Orlando	FC11063	RHMW02-WGN01LF-2311-DF	11/7/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW02	SGS Orlando	FC11063B	RHMW02-WGN01LF-2311-DF	11/7/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	SGS Orlando	FC11366	RHMW02-WGFD01LF-2311WK2-DF	11/17/2023	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	SGS Orlando	FC11366	RHMW02-WGN01LF-2311WK2-DF	11/17/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	SGS Orlando	FC11473	RHMW02-WGFD01LF-2311WK3-DF	11/21/2023	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	SGS Orlando	FC11473	RHMW02-WGN01LF-2311WK3-DF	11/21/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	SGS Orlando	FC11651	RHMW02-WGFD01LF-2311WK4-DF	12/1/2023	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	SGS Orlando	FC11651	RHMW02-WGN01LF-2311WK4-DF	12/1/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	SGS Orlando	FC11848	RHMW02-WGFD01LF-2312-DF	12/8/2023	Field Duplicate	<0.42	UJ	<0.42	UJ	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	UJ	<0.042	U	<0.42	UJ	<0.42	U
RHMW02	SGS Anchorage	1236695_EDMS	RHMW02-WGN01LF-2312-DF	12/8/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	SGS Orlando	FC11848	RHMW02-WGN01LF-2312-DF	12/8/2023	Primary	<0.42	UJ	<0.42	UJ	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	UJ	<0.042	U	<0.42	UJ	<0.42	U
RHMW02	SGS Orlando	FC11848B	RHMW02-WGN01LF-2312-DF	12/8/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	SGS Orlando	FC12040	RHMW02-WGFD01LF-2312WK2-DF	12/15/2023	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	SGS Orlando	FC12040B	RHMW02-WGFD01LF-2312WK2-DF	12/15/2023	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	SGS Orlando	FC12040	RHMW02-WGN01LF-2312WK2-DF	12/15/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	SGS Orlando	FC12040B	RHMW02-WGN01LF-2312WK2-DF	12/15/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	SGS Orlando	FC12136	RHMW02-WGFD01LF-2312WK3-DF	12/19/2023	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	SGS Orlando	FC12136	RHMW02-WGN01LF-2312WK3-DF	12/19/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	SGS Orlando	FC12235	RHMW02-WGFD01LF-2312WK4-DF	12/26/2023	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	SGS Orlando	FC12235	RHMW02-WGN01LF-2312WK4-DF	12/26/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	SGS Anchorage	1240121_EDMS	RHMW02-WGN01LF-2401-DF	1/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	SGS Orlando	FC12419	RHMW02-WGN01LF-2401-DF	1/5/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW02	SGS Orlando	FC12419B	RHMW02-WGN01LF-2401-DF	1/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	SGS Orlando	FC12560	RHMW02-WGFD01LF-2401WK2-DF	1/12/2024	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	SGS Orlando	FC12560	RHMW02-WGN01LF-2401WK2-DF	1/12/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	SGS Orlando	FC12701	RHMW02-WGFD01LF-2401WK3-DF	1/19/2024	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	SGS Orlando	FC12701	RHMW02-WGN01LF-2401WK3-DF	1/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHMW02

						Fuel Additive				Lead Scavengers				Natural Attenuation Parameters			
					Analyte	2-(2- Methoxyethoxy)-ethanol [b]		Phenol		1,2-Dibromoethane		1,2-Dichloroethane		Methane		Total Organic Carbon		NV Dissolved Organic Carbon	
					CAS No.	111-77-3		108-95-2		106-93-4		107-06-2		74-82-8		TOC		—	
					Method	8270D		SW8270		8011		8260		RSK 175		9060		9060	
					DOH Tier 1 EAL	800		300		0.04		5		—		—		—	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		–		–		2570		2860		2810	
					Maximum	ND		ND		–		–		3670		5000		4400	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result	
RHMW02	SGS Orlando	FC7026	RHMW02-WGN01LF-2306WK2	6/15/2023	Primary	–		<2	U	–		–		3090		–		–	
RHMW02	SGS Orlando	FC9446	RHMW02-WGN01LF-2309	9/7/2023	Primary	–		<2	U	–		–		2880		–		–	
RHMW02	ALS Kelso	K2311474	RHMW02-WGN01LF-2310	10/6/2023	Primary	–		–		–		–		–		4600		4400	
RHMW02	SGS Orlando	FC10336	RHMW02-WGN01LF-2310	10/6/2023	Primary	–		<1.9	U	–		–		2760		–		–	
RHMW02	APPL	23J0093	RHMW02-WGN01LF-23Q4	10/9/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHMW02	Energy	B23100745	RHMW02-WGN01LF-23Q4	10/9/2023	Primary	–		–		–		–		–		–		–	
RHMW02	SGS Orlando	FC10327	RHMW02-WGN01LF-23Q4	10/9/2023	Primary	–		<1.9	U	–		–		3670		5000		–	
RHMW02	SGS Orlando	FC10638	RHMW02-WGFD01LF-2310WK3-DF	10/20/2023	Field Duplicate	–		–		–		–		–		–		–	
RHMW02	SGS Orlando	FC10638	RHMW02-WGN01LF-2310WK3-DF	10/20/2023	Primary	–		–		–		–		–		–		–	
RHMW02	SGS Orlando	FC10809	RHMW02-WGFD01LF-2310WK4-DF	10/27/2023	Field Duplicate	–		–		–		–		–		–		–	
RHMW02	SGS Orlando	FC10809	RHMW02-WGN01LF-2310WK4-DF	10/27/2023	Primary	–		–		–		–		–		–		–	
RHMW02	SGS Orlando	FC10974	RHMW02-WGFD01LF-2310WK5-DF	11/3/2023	Field Duplicate	–		–		–		–		–		–		–	
RHMW02	SGS Orlando	FC10974	RHMW02-WGN01LF-2310WK5-DF	11/3/2023	Primary	–		–		–		–		–		–		–	
RHMW02	SGS Orlando	FC11063	RHMW02-WGFD01LF-2311-DF	11/7/2023	Field Duplicate	–		<2	U	–		–		–		–		–	
RHMW02	ALS Kelso	K2312760	RHMW02-WGN01LF-2311-DF	11/7/2023	Primary	–		–		–		–		–		4400		3900	
RHMW02	SGS Orlando	FC11063	RHMW02-WGN01LF-2311-DF	11/7/2023	Primary	–		<2	U	–		–		–		–		–	
RHMW02	SGS Orlando	FC11063B	RHMW02-WGN01LF-2311-DF	11/7/2023	Primary	–		–		–		–		3580		–		–	
RHMW02	SGS Orlando	FC11366	RHMW02-WGFD01LF-2311WK2-DF	11/17/2023	Field Duplicate	–		–		–		–		–		–		–	
RHMW02	SGS Orlando	FC11366	RHMW02-WGN01LF-2311WK2-DF	11/17/2023	Primary	–		–		–		–		–		–		–	
RHMW02	SGS Orlando	FC11473	RHMW02-WGFD01LF-2311WK3-DF	11/21/2023	Field Duplicate	–		–		–		–		–		–		–	
RHMW02	SGS Orlando	FC11473	RHMW02-WGN01LF-2311WK3-DF	11/21/2023	Primary	–		–		–		–		–		–		–	
RHMW02	SGS Orlando	FC11651	RHMW02-WGFD01LF-2311WK4-DF	12/1/2023	Field Duplicate	–		–		–		–		–		–		–	
RHMW02	SGS Orlando	FC11651	RHMW02-WGN01LF-2311WK4-DF	12/1/2023	Primary	–		–		–		–		–		–		–	
RHMW02	SGS Orlando	FC11848	RHMW02-WGFD01LF-2312-DF	12/8/2023	Field Duplicate	–		<1.9	U	–		–		–		–		–	
RHMW02	SGS Anchorage	1236695_EDMS	RHMW02-WGN01LF-2312-DF	12/8/2023	Primary	–		–		–		–		–		2860		2810	
RHMW02	SGS Orlando	FC11848	RHMW02-WGN01LF-2312-DF	12/8/2023	Primary	–		<1.9	U	–		–		–		–		–	
RHMW02	SGS Orlando	FC11848B	RHMW02-WGN01LF-2312-DF	12/8/2023	Primary	–		–		–		–		2570		–		–	
RHMW02	SGS Orlando	FC12040	RHMW02-WGFD01LF-2312WK2-DF	12/15/2023	Field Duplicate	–		–		–		–		–		–		–	
RHMW02	SGS Orlando	FC12040B	RHMW02-WGFD01LF-2312WK2-DF	12/15/2023	Field Duplicate	–		–		–		–		–		–		–	
RHMW02	SGS Orlando	FC12040	RHMW02-WGN01LF-2312WK2-DF	12/15/2023	Primary	–		–		–		–		–		–		–	
RHMW02	SGS Orlando	FC12040B	RHMW02-WGN01LF-2312WK2-DF	12/15/2023	Primary	–		–		–		–		–		–		–	
RHMW02	SGS Orlando	FC12136	RHMW02-WGFD01LF-2312WK3-DF	12/19/2023	Field Duplicate	–		–		–		–		–		–		–	
RHMW02	SGS Orlando	FC12136	RHMW02-WGN01LF-2312WK3-DF	12/19/2023	Primary	–		–		–		–		–		–		–	
RHMW02	SGS Orlando	FC12235	RHMW02-WGFD01LF-2312WK4-DF	12/26/2023	Field Duplicate	–		–		–		–		–		–		–	
RHMW02	SGS Orlando	FC12235	RHMW02-WGN01LF-2312WK4-DF	12/26/2023	Primary	–		–		–		–		–		–		–	
RHMW02	SGS Anchorage	1240121_EDMS	RHMW02-WGN01LF-2401-DF	1/5/2024	Primary	–		–		–		–		–		3560		3550	
RHMW02	SGS Orlando	FC12419	RHMW02-WGN01LF-2401-DF	1/5/2024	Primary	–		<2	U	–		–		–		–		–	
RHMW02	SGS Orlando	FC12419B	RHMW02-WGN01LF-2401-DF	1/5/2024	Primary	–		–		–		–		2870		–		–	
RHMW02	SGS Orlando	FC12560	RHMW02-WGFD01LF-2401WK2-DF	1/12/2024	Field Duplicate	–		–		–		–		–		–		–	
RHMW02	SGS Orlando	FC12560	RHMW02-WGN01LF-2401WK2-DF	1/12/2024	Primary	–		–		–		–		–		–		–	
RHMW02	SGS Orlando	FC12701	RHMW02-WGFD01LF-2401WK3-DF	1/19/2024	Field Duplicate	–		–		–		–		–		–		–	
RHMW02	SGS Orlando	FC12701	RHMW02-WGN01LF-2401WK3-DF	1/19/2024	Primary	–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHMW03

						Total Petroleum Hydrocarbons										Volatile Organic Compounds								Polycyclic Aromatic Hydrocarbons (PAHs) – AOC/LTM					
					Analyte	TPH-g		TPH-d [a]		TPH-o [a]		TPH-d with Silica Gel Cleanup [a]		TPH-o with Silica Gel Cleanup [a]		Benzene		Ethylbenzene		Toluene		Xylenes		1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene	
					CAS No.	PHCC6C10		PHCC10C24		PHCC24C40		PHCC10C24SGC		PHCC24C40SGC		71-43-2		100-41-4		108-88-3		1330-20-7		90-12-0		91-57-6		91-20-3	
					Method	8260		8015		8015		8015		8015		8260		8260		8260		8260		8270 SIM		8270 SIM		8270 SIM	
					DOH Tier 1 EAL	300		400		500		—		—		5		30		40		20		10		10		17	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		66.9		164		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW03	SGS Orlando	FC7026	RHMW03-WGN01LF-2306WK2	6/14/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U
RHMW03	SGS Orlando	FC9446	RHMW03-WGN01LF-2309	9/7/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U
RHMW03	ALS Kelso	K2311474	RHMW03-WGN01LF-2310	10/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Energy	B23100765	RHMW03-WGN01LF-2310	10/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	SGS Orlando	FC10336	RHMW03-WGN01LF-2310	10/6/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	UJ	<0.5	UJ	<0.5	UJ	<1.5	UJ	<0.4	U	<0.4	U	<0.4	U
RHMW03	APPL	23J0095	RHMW03-WGN01LF-23Q4	10/9/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Energy	B23100745	RHMW03-WGN01LF-23Q4	10/9/2023	Primary	<8.5	U	66.9	J	164	J	<141	U	<141	U	<0.1	U	<0.1	U	<0.2	U	<0.1	U	–		–		–	
RHMW03	SGS Orlando	FC10327	RHMW03-WGN01LF-23Q4	10/9/2023	Primary	–		–		–		–		–		–		–		–		–		<0.4	U	<0.4	U	<0.4	U
RHMW03	SGS Orlando	FC10638	RHMW03-WGN01LF-2310WK3-DF	10/20/2023	Primary	–		<96	U	<150	U	–		–		–		–		–		–		<0.4	U	<0.4	U	<0.4	U
RHMW03	SGS Orlando	FC10809	RHMW03-WGN01LF-2310WK4-DF	10/27/2023	Primary	–		<100	U	<160	U	–		–		–		–		–		–		<0.4	U	<0.4	U	<0.4	U
RHMW03	SGS Orlando	FC10974	RHMW03-WGN01LF-2310WK5-DF	11/3/2023	Primary	–		<100	U	<160	U	–		–		–		–		–		–		<0.4	U	<0.4	U	<0.4	U
RHMW03	ALS Kelso	K2312868	RHMW03-WGN01LF-2311-DF	11/10/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	SGS Orlando	FC11171	RHMW03-WGN01LF-2311-DF	11/10/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	UJ	<0.42	U
RHMW03	SGS Orlando	FC11171B	RHMW03-WGN01LF-2311-DF	11/10/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	SGS Orlando	FC11366	RHMW03-WGN01LF-2311WK2-DF	11/17/2023	Primary	–		<100	U	84	J	<100	U	<170	U	–		–		–		–		<0.38	U	<0.38	U	<0.38	U
RHMW03	SGS Orlando	FC11473	RHMW03-WGN01LF-2311WK3-DF	11/21/2023	Primary	–		<100	U	96	J	<100	U	<170	U	–		–		–		–		<0.42	UJ	<0.42	UJ	<0.42	U
RHMW03	SGS Orlando	FC11564	RHMW03-WGN01LF-2311WK4-DF	11/28/2023	Primary	–		<100	U	<170	U	–		–		–		–		–		–		<0.42	UJ	<0.42	UJ	<0.42	U
RHMW03	SGS Anchorage	1236695_EDMS	RHMW03-WGN01LF-2312-DF	12/8/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	SGS Orlando	FC11848	RHMW03-WGN01LF-2312-DF	12/8/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	UJ	<0.42	UJ	<0.42	U
RHMW03	SGS Orlando	FC11848B	RHMW03-WGN01LF-2312-DF	12/8/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	SGS Orlando	FC11937	RHMW03-WGN01LF-2312WK2-DF	12/12/2023	Primary	–		<100	U	<170	U	–		–		–		–		–		–		<0.4	UJ	<0.4	UJ	<0.4	U
RHMW03	SGS Orlando	FC12136	RHMW03-WGN01LF-2312WK3-DF	12/19/2023	Primary	–		<100	U	<170	U	–		–		–		–		–		–		<0.42	U	<0.42	U	<0.42	U
RHMW03	SGS Orlando	FC12235	RHMW03-WGN01LF-2312WK4-DF	12/26/2023	Primary	–		<100	U	<160	U	–		–		–		–		–		–		<0.42	U	<0.42	U	<0.42	U
RHMW03	SGS Anchorage	1240028_EDMS	RHMW03-WGN01LF-2401-DF	1/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	SGS Orlando	FC12338	RHMW03-WGN01LF-2401-DF	1/2/2024	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW03	SGS Orlando	FC12338B	RHMW03-WGN01LF-2401-DF	1/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	SGS Orlando	FC12486	RHMW03-WGN01LF-2401WK2-DF	1/9/2024	Primary	–		<100	U	<170	U	–		–		–		–		–		–		<0.42	U	<0.42	U	<0.42	U
RHMW03	SGS Orlando	FC12611	RHMW03-WGN01LF-2401WK3-DF	1/16/2024	Primary	–		<100	U	<170	U	–		–		–		–		–		–		<0.42	UJ	<0.42	UJ	<0.42	UJ

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHMW03

						Polycyclic Aromatic Hydrocarbons (PAHs)																											
					Analyte	Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)		Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)peryelene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
					CAS No.	83-32-9		208-96-8		120-12-7		56-55-3		50-32-8		205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
					Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
					DOH Tier 1 EAL	20		240		0.18		0.029		0.2		0.22		0.13		0.4		1		0.022		13		240		0.095		210		68	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW03	SGS Orlando	FC7026	RHMW03-WGN01LF-2306WK2	6/14/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHMW03	SGS Orlando	FC9446	RHMW03-WGN01LF-2309	9/7/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHMW03	ALS Kelso	K2311474	RHMW03-WGN01LF-2310	10/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Energy	B23100765	RHMW03-WGN01LF-2310	10/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	SGS Orlando	FC10336	RHMW03-WGN01LF-2310	10/6/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHMW03	APPL	23J0095	RHMW03-WGN01LF-23Q4	10/9/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Energy	B23100745	RHMW03-WGN01LF-23Q4	10/9/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	SGS Orlando	FC10327	RHMW03-WGN01LF-23Q4	10/9/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHMW03	SGS Orlando	FC10638	RHMW03-WGN01LF-2310WK3-DF	10/20/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	SGS Orlando	FC10809	RHMW03-WGN01LF-2310WK4-DF	10/27/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	SGS Orlando	FC10974	RHMW03-WGN01LF-2310WK5-DF	11/3/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	ALS Kelso	K2312868	RHMW03-WGN01LF-2311-DF	11/10/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	SGS Orlando	FC11171	RHMW03-WGN01LF-2311-DF	11/10/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW03	SGS Orlando	FC11171B	RHMW03-WGN01LF-2311-DF	11/10/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	SGS Orlando	FC11366	RHMW03-WGN01LF-2311WK2-DF	11/17/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	SGS Orlando	FC11473	RHMW03-WGN01LF-2311WK3-DF	11/21/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	SGS Orlando	FC11564	RHMW03-WGN01LF-2311WK4-DF	11/28/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	SGS Anchorage	1236695_EDMS	RHMW03-WGN01LF-2312-DF	12/8/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	SGS Orlando	FC11848	RHMW03-WGN01LF-2312-DF	12/8/2023	Primary	<0.42	UJ	<0.42	UJ	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	UJ	<0.042	U	<0.42	UJ	<0.42	U
RHMW03	SGS Orlando	FC11848B	RHMW03-WGN01LF-2312-DF	12/8/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	SGS Orlando	FC11937	RHMW03-WGN01LF-2312WK2-DF	12/12/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	SGS Orlando	FC12136	RHMW03-WGN01LF-2312WK3-DF	12/19/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	SGS Orlando	FC12235	RHMW03-WGN01LF-2312WK4-DF	12/26/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	SGS Anchorage	1240028_EDMS	RHMW03-WGN01LF-2401-DF	1/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	SGS Orlando	FC12338	RHMW03-WGN01LF-2401-DF	1/2/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW03	SGS Orlando	FC12338B	RHMW03-WGN01LF-2401-DF	1/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	SGS Orlando	FC12486	RHMW03-WGN01LF-2401WK2-DF	1/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	SGS Orlando	FC12611	RHMW03-WGN01LF-2401WK3-DF	1/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHMW03

						Fuel Additive				Lead Scavengers				Natural Attenuation Parameters					
					Analyte	2-(2- Methoxyethoxy)-ethanol [b]		Phenol		1,2-Dibromoethane		1,2-Dichloroethane		Methane		Total Organic Carbon		NV Dissolved Organic Carbon	
					CAS No.	111-77-3		108-95-2		106-93-4		107-06-2		74-82-8		TOC		—	
					Method	8270D		SW8270		8011		8260		RSK 175		9060		9060	
					DOH Tier 1 EAL	800		300		0.04		5		—		—		—	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		–		ND		1100		1210	
					Maximum	ND		ND		ND		–		0.22		1500		1400	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result	
RHMW03	SGS Orlando	FC7026	RHMW03-WGN01LF-2306WK2	6/14/2023	Primary	–		<1.9	U	–		–		0.18	J	–		–	
RHMW03	SGS Orlando	FC9446	RHMW03-WGN01LF-2309	9/7/2023	Primary	–		<2	U	–		–		0.18	J	–		–	
RHMW03	ALS Kelso	K2311474	RHMW03-WGN01LF-2310	10/6/2023	Primary	–		–		–		–		–		1500		1300	
RHMW03	Energy	B23100765	RHMW03-WGN01LF-2310	10/6/2023	Primary	–		–		<0.0049	U	–		–		–		–	
RHMW03	SGS Orlando	FC10336	RHMW03-WGN01LF-2310	10/6/2023	Primary	–		<2	U	–		–		0.22	J	–		–	
RHMW03	APPL	23J0095	RHMW03-WGN01LF-23Q4	10/9/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHMW03	Energy	B23100745	RHMW03-WGN01LF-23Q4	10/9/2023	Primary	–		–		<0.0049	U	–		–		–		–	
RHMW03	SGS Orlando	FC10327	RHMW03-WGN01LF-23Q4	10/9/2023	Primary	–		<1.9	U	–		–		<0.25	U	1200	J-	–	
RHMW03	SGS Orlando	FC10638	RHMW03-WGN01LF-2310WK3-DF	10/20/2023	Primary	–		–		–		–		–		–		–	
RHMW03	SGS Orlando	FC10809	RHMW03-WGN01LF-2310WK4-DF	10/27/2023	Primary	–		–		–		–		–		–		–	
RHMW03	SGS Orlando	FC10974	RHMW03-WGN01LF-2310WK5-DF	11/3/2023	Primary	–		–		–		–		–		–		–	
RHMW03	ALS Kelso	K2312868	RHMW03-WGN01LF-2311-DF	11/10/2023	Primary	–		–		–		–		–		1100		1400	
RHMW03	SGS Orlando	FC11171	RHMW03-WGN01LF-2311-DF	11/10/2023	Primary	–		<1.9	UJ	<0.014	U	–		–		–		–	
RHMW03	SGS Orlando	FC11171B	RHMW03-WGN01LF-2311-DF	11/10/2023	Primary	–		–		–		–		<0.25	U	–		–	
RHMW03	SGS Orlando	FC11366	RHMW03-WGN01LF-2311WK2-DF	11/17/2023	Primary	–		–		–		–		–		–		–	
RHMW03	SGS Orlando	FC11473	RHMW03-WGN01LF-2311WK3-DF	11/21/2023	Primary	–		–		–		–		–		–		–	
RHMW03	SGS Orlando	FC11564	RHMW03-WGN01LF-2311WK4-DF	11/28/2023	Primary	–		–		–		–		–		–		–	
RHMW03	SGS Anchorage	1236695_EDMS	RHMW03-WGN01LF-2312-DF	12/8/2023	Primary	–		–		–		–		–		1230	J+	1210	J+
RHMW03	SGS Orlando	FC11848	RHMW03-WGN01LF-2312-DF	12/8/2023	Primary	–		<1.9	U	<0.015	UJ	–		–		–		–	
RHMW03	SGS Orlando	FC11848B	RHMW03-WGN01LF-2312-DF	12/8/2023	Primary	–		–		–		–		<0.25	U	–		–	
RHMW03	SGS Orlando	FC11937	RHMW03-WGN01LF-2312WK2-DF	12/12/2023	Primary	–		–		–		–		–		–		–	
RHMW03	SGS Orlando	FC12136	RHMW03-WGN01LF-2312WK3-DF	12/19/2023	Primary	–		–		–		–		–		–		–	
RHMW03	SGS Orlando	FC12235	RHMW03-WGN01LF-2312WK4-DF	12/26/2023	Primary	–		–		–		–		–		–		–	
RHMW03	SGS Anchorage	1240028_EDMS	RHMW03-WGN01LF-2401-DF	1/2/2024	Primary	–		–		–		–		–		1300		1380	J+
RHMW03	SGS Orlando	FC12338	RHMW03-WGN01LF-2401-DF	1/2/2024	Primary	–		<1.9	U	<0.014	U	–		–		–		–	
RHMW03	SGS Orlando	FC12338B	RHMW03-WGN01LF-2401-DF	1/2/2024	Primary	–		–		–		–		<0.25	U	–		–	
RHMW03	SGS Orlando	FC12486	RHMW03-WGN01LF-2401WK2-DF	1/9/2024	Primary	–		–		–		–		–		–		–	
RHMW03	SGS Orlando	FC12611	RHMW03-WGN01LF-2401WK3-DF	1/16/2024	Primary	–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHMW04

						Total Petroleum Hydrocarbons										Volatile Organic Compounds								Polycyclic Aromatic Hydrocarbons (PAHs) – AOC/LTM					
					Analyte	TPH-g		TPH-d [a]		TPH-o [a]		TPH-d with Silica Gel Cleanup [a]		TPH-o with Silica Gel Cleanup [a]		Benzene		Ethylbenzene		Toluene		Xylenes		1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene	
					CAS No.	PHCC6C10		PHCC10C24		PHCC24C40		PHCC10C24SGC		PHCC24C40SGC		71-43-2		100-41-4		108-88-3		1330-20-7		90-12-0		91-57-6		91-20-3	
					Method	8260		8015		8015		8015		8015		8260		8260		8260		8260		8270 SIM		8270 SIM		8270 SIM	
					DOH Tier 1 EAL	300		400		500		—		—		5		30		40		20		10		10		17	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		113		104		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		232		141		113		104		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW04	SGS Orlando	FC7026	RHMW04-WGN01LF-2306WK2	6/14/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U
RHMW04	SGS Orlando	FC9543	RHMW04-WGN01LF-2309	9/8/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U
RHMW04	ALS Kelso	K2311474	RHMW04-WGN01LF-2310	10/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	SGS Orlando	FC10336	RHMW04-WGN01LF-2310	10/6/2023	Primary	<50	U	232	J-	141	J	113	J	104	J	<0.5	UJ	<0.5	UJ	<0.5	UJ	<1.5	UJ	<0.4	U	<0.4	U	<0.4	U
RHMW04	APPL	23J0126	RHMW04-WGN01LF-23Q4	10/13/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Energy	B23101258	RHMW04-WGN01LF-23Q4	10/13/2023	Primary	<8.5	U	<141	U	<141	U	–		–		<0.1	U	<0.1	U	<0.2	U	<0.1	U	–		–		–	
RHMW04	SGS Orlando	FC10488	RHMW04-WGN01LF-23Q4	10/13/2023	Primary	–		–		–		–		–		–		–		–		–		<0.4	U	<0.4	U	<0.4	U
RHMW04	APPL	23J0260	RHMW04-WGN01LF-2310WK4-DF	10/23/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	SGS Orlando	FC10676	RHMW04-WGN01LF-2310WK4-DF	10/23/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.38	U	<0.38	U	<0.38	U
RHMW04	APPL	23J0325	RHMW04-WGN01LF-2310WK5-DF	10/30/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	SGS Orlando	FC10844	RHMW04-WGN01LF-2310WK5-DF	10/30/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW04	ALS Kelso	K2312760	RHMW04-WGN01LF-2311-DF	11/7/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	APPL	23K0050	RHMW04-WGN01LF-2311-DF	11/7/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	SGS Orlando	FC11063	RHMW04-WGN01LF-2311-DF	11/7/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	UJ	<0.42	U	<0.42	U
RHMW04	SGS Orlando	FC11063B	RHMW04-WGN01LF-2311-DF	11/7/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	APPL	23K0106	RHMW04-WGN01LF-2311WK2-DF	11/13/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	SGS Orlando	FC11221	RHMW04-WGN01LF-2311WK2-DF	11/13/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW04	APPL	23K0183	RHMW04-WGN01LF-2311WK3-DF	11/20/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	SGS Orlando	FC11419	RHMW04-WGN01LF-2311WK3-DF	11/20/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	UJ	<0.5	UJ	<0.5	UJ	<1.5	UJ	<0.42	UJ	<0.42	UJ	<0.42	U
RHMW04	APPL	23K0219	RHMW04-WGN01LF-2311WK4-DF	11/27/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	SGS Orlando	FC11512	RHMW04-WGN01LF-2311WK4-DF	11/27/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.43	UJ	<0.43	UJ	<0.43	U
RHMW04	APPL	23L0027	RHMW04-WGN01LF-2312-DF	12/5/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	SGS Anchorage	1236605_EDMS	RHMW04-WGN01LF-2312-DF	12/5/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	SGS Orlando	FC11717	RHMW04-WGN01LF-2312-DF	12/5/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	UJ	<0.42	UJ	<0.42	U
RHMW04	SGS Orlando	FC11717B	RHMW04-WGN01LF-2312-DF	12/5/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	APPL	23L0083	RHMW04-WGN01LF-2312WK2-DF	12/11/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	SGS Orlando	FC11893	RHMW04-WGN01LF-2312WK2-DF	12/11/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	UJ	<0.4	UJ	<0.4	U
RHMW04	APPL	23L0150	RHMW04-WGN01LF-2312WK3-DF	12/18/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	SGS Orlando	FC12097	RHMW04-WGN01LF-2312WK3-DF	12/18/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW04	APPL	23L0216	RHMW04-WGN01LF-2312WK4-DF	12/27/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	SGS Orlando	FC12258	RHMW04-WGN01LF-2312WK4-DF	12/27/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW04	APPL	24A0008	RHMW04-WGN01LF-2401-DF	1/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	SGS Anchorage	1240028_EDMS	RHMW04-WGN01LF-2401-DF	1/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	SGS Orlando	FC12338	RHMW04-WGN01LF-2401-DF	1/2/2024	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW04	SGS Orlando	FC12338B	RHMW04-WGN01LF-2401-DF	1/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	APPL	24A0050	RHMW04-WGN01LF-2401WK2-DF	1/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	SGS Orlando	FC12452	RHMW04-WGN01LF-2401WK2-DF	1/8/2024	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.38	U	<0.38	U	<0.38	U
RHMW04	APPL	24A0104	RHMW04-WGN01LF-2401WK3-DF	1/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	SGS Orlando	FC12594	RHMW04-WGN01LF-2401WK3-DF	1/15/2024	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHMW04

						Polycyclic Aromatic Hydrocarbons (PAHs)																													
					Analyte	Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)		Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)peryelene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
					CAS No.	83-32-9		208-96-8		120-12-7		56-55-3		50-32-8		205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
					Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
					DOH Tier 1 EAL	20		240		0.18		0.029		0.2		0.22		0.13		0.4		1		0.022		13		240		0.095		210		68	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW04	SGS Orlando	FC7026	RHMW04-WGN01LF-2306WK2	6/14/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHMW04	SGS Orlando	FC9543	RHMW04-WGN01LF-2309	9/8/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHMW04	ALS Kelso	K2311474	RHMW04-WGN01LF-2310	10/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	SGS Orlando	FC10336	RHMW04-WGN01LF-2310	10/6/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHMW04	APPL	23J0126	RHMW04-WGN01LF-23Q4	10/13/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Energy	B23101258	RHMW04-WGN01LF-23Q4	10/13/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	SGS Orlando	FC10488	RHMW04-WGN01LF-23Q4	10/13/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHMW04	APPL	23J0260	RHMW04-WGN01LF-2310WK4-DF	10/23/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	SGS Orlando	FC10676	RHMW04-WGN01LF-2310WK4-DF	10/23/2023	Primary	<0.38	U	<0.38	U	<0.38	U	<0.038	U	<0.038	U	<0.038	U	<0.038	U	<0.038	U	<0.077	U	<0.038	U	<0.38	U	<0.38	U	<0.038	U	<0.38	U	<0.38	U
RHMW04	APPL	23J0325	RHMW04-WGN01LF-2310WK5-DF	10/30/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	SGS Orlando	FC10844	RHMW04-WGN01LF-2310WK5-DF	10/30/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW04	ALS Kelso	K2312760	RHMW04-WGN01LF-2311-DF	11/7/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	APPL	23K0050	RHMW04-WGN01LF-2311-DF	11/7/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	SGS Orlando	FC11063	RHMW04-WGN01LF-2311-DF	11/7/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW04	SGS Orlando	FC11063B	RHMW04-WGN01LF-2311-DF	11/7/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	APPL	23K0106	RHMW04-WGN01LF-2311WK2-DF	11/13/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	SGS Orlando	FC11221	RHMW04-WGN01LF-2311WK2-DF	11/13/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	UJ	<0.42	U	<0.42	U
RHMW04	APPL	23K0183	RHMW04-WGN01LF-2311WK3-DF	11/20/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	SGS Orlando	FC11419	RHMW04-WGN01LF-2311WK3-DF	11/20/2023	Primary	<0.42	UJ	<0.42	UJ	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	UJ	<0.042	U	<0.42	UJ	<0.42	U
RHMW04	APPL	23K0219	RHMW04-WGN01LF-2311WK4-DF	11/27/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	SGS Orlando	FC11512	RHMW04-WGN01LF-2311WK4-DF	11/27/2023	Primary	<0.43	UJ	<0.43	UJ	<0.43	U	<0.043	U	<0.043	U	<0.043	U	<0.043	U	<0.043	U	<0.087	U	<0.043	U	<0.43	UJ	<0.43	UJ	<0.043	U	<0.43	UJ	<0.43	U
RHMW04	APPL	23L0027	RHMW04-WGN01LF-2312-DF	12/5/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	SGS Anchorage	1236605_EDMS	RHMW04-WGN01LF-2312-DF	12/5/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	SGS Orlando	FC11717	RHMW04-WGN01LF-2312-DF	12/5/2023	Primary	<0.42	UJ	<0.42	UJ	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	UJ	<0.042	U	<0.42	UJ	<0.42	U
RHMW04	SGS Orlando	FC11717B	RHMW04-WGN01LF-2312-DF	12/5/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	APPL	23L0083	RHMW04-WGN01LF-2312WK2-DF	12/11/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	SGS Orlando	FC11893	RHMW04-WGN01LF-2312WK2-DF	12/11/2023	Primary	<0.4	UJ	<0.4	UJ	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	UJ	<0.4	UJ	<0.04	U	<0.4	UJ	<0.4	U
RHMW04	APPL	23L0150	RHMW04-WGN01LF-2312WK3-DF	12/18/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	SGS Orlando	FC12097	RHMW04-WGN01LF-2312WK3-DF	12/18/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW04	APPL	23L0216	RHMW04-WGN01LF-2312WK4-DF	12/27/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	SGS Orlando	FC12258	RHMW04-WGN01LF-2312WK4-DF	12/27/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW04	APPL	24A0008	RHMW04-WGN01LF-2401-DF	1/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	SGS Anchorage	1240028_EDMS	RHMW04-WGN01LF-2401-DF	1/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	SGS Orlando	FC12338	RHMW04-WGN01LF-2401-DF	1/2/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW04	SGS Orlando	FC12338B	RHMW04-WGN01LF-2401-DF	1/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	APPL	24A0050	RHMW04-WGN01LF-2401WK2-DF	1/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	SGS Orlando	FC12452	RHMW04-WGN01LF-2401WK2-DF	1/8/2024	Primary	<0.38	U	<0.38	U	<0.38	U	<0.038	U	<0.038	U	<0.038	U	<0.038	U	<0.038	U	<0.077	U	<0.038	U	<0.38	U	<0.38	U	<0.038	U	<0.38	U	<0.38	U
RHMW04	APPL	24A0104	RHMW04-WGN01LF-2401WK3-DF	1/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	SGS Orlando	FC12594	RHMW04-WGN01LF-2401WK3-DF	1/15/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHMW04

						Fuel Additive				Lead Scavengers				Natural Attenuation Parameters					
					Analyte	2-(2- Methoxyethoxy)-ethanol [b]		Phenol		1,2-Dibromoethane		1,2-Dichloroethane		Methane		Total Organic Carbon		NV Dissolved Organic Carbon	
					CAS No.	111-77-3		108-95-2		106-93-4		107-06-2		74-82-8		TOC		—	
					Method	8270D		SW8270		8011		8260		RSK 175		9060		9060	
					DOH Tier 1 EAL	800		300		0.04		5		—		—		—	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		ND		0.39		1500		2500	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result	
RHMW04	SGS Orlando	FC7026	RHMW04-WGN01LF-2306WK2	6/14/2023	Primary	–		<1.9	U	–		–		<0.25	U	–		–	
RHMW04	SGS Orlando	FC9543	RHMW04-WGN01LF-2309	9/8/2023	Primary	–		<2	U	–		–		<0.25	U	–		–	
RHMW04	ALS Kelso	K2311474	RHMW04-WGN01LF-2310	10/6/2023	Primary	–		–		–		–		–		1500		2500	
RHMW04	SGS Orlando	FC10336	RHMW04-WGN01LF-2310	10/6/2023	Primary	–		<1.9	U	–		–		0.39	J	–		–	
RHMW04	APPL	23J0126	RHMW04-WGN01LF-23Q4	10/13/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHMW04	Energy	B23101258	RHMW04-WGN01LF-23Q4	10/13/2023	Primary	–		–		–		–		–		–		–	
RHMW04	SGS Orlando	FC10488	RHMW04-WGN01LF-23Q4	10/13/2023	Primary	–		<1.9	U	–		–		<0.25	U	<1000	U	–	
RHMW04	APPL	23J0260	RHMW04-WGN01LF-2310WK4-DF	10/23/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHMW04	SGS Orlando	FC10676	RHMW04-WGN01LF-2310WK4-DF	10/23/2023	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	
RHMW04	APPL	23J0325	RHMW04-WGN01LF-2310WK5-DF	10/30/2023	Primary	<80	U	–		–		–		–		–		–	
RHMW04	SGS Orlando	FC10844	RHMW04-WGN01LF-2310WK5-DF	10/30/2023	Primary	–		<1.9	U	<0.014	U	<0.5	U	–		–		–	
RHMW04	ALS Kelso	K2312760	RHMW04-WGN01LF-2311-DF	11/7/2023	Primary	–		–		–		–		–		<500	U	600	
RHMW04	APPL	23K0050	RHMW04-WGN01LF-2311-DF	11/7/2023	Primary	<80	U	–		–		–		–		–		–	
RHMW04	SGS Orlando	FC11063	RHMW04-WGN01LF-2311-DF	11/7/2023	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	
RHMW04	SGS Orlando	FC11063B	RHMW04-WGN01LF-2311-DF	11/7/2023	Primary	–		–		–		–		0.28	J	–		–	
RHMW04	APPL	23K0106	RHMW04-WGN01LF-2311WK2-DF	11/13/2023	Primary	<80	U	–		–		–		–		–		–	
RHMW04	SGS Orlando	FC11221	RHMW04-WGN01LF-2311WK2-DF	11/13/2023	Primary	–		<1.9	UJ	<0.014	U	<0.5	U	–		–		–	
RHMW04	APPL	23K0183	RHMW04-WGN01LF-2311WK3-DF	11/20/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHMW04	SGS Orlando	FC11419	RHMW04-WGN01LF-2311WK3-DF	11/20/2023	Primary	–		<1.9	U	<0.014	U	<0.5	UJ	–		–		–	
RHMW04	APPL	23K0219	RHMW04-WGN01LF-2311WK4-DF	11/27/2023	Primary	<80	U	–		–		–		–		–		–	
RHMW04	SGS Orlando	FC11512	RHMW04-WGN01LF-2311WK4-DF	11/27/2023	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	
RHMW04	APPL	23L0027	RHMW04-WGN01LF-2312-DF	12/5/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHMW04	SGS Anchorage	1236605_EDMS	RHMW04-WGN01LF-2312-DF	12/5/2023	Primary	–		–		–		–		–		<750	U	<750	U
RHMW04	SGS Orlando	FC11717	RHMW04-WGN01LF-2312-DF	12/5/2023	Primary	–		<1.9	U	<0.014	U	<0.5	U	–		–		–	
RHMW04	SGS Orlando	FC11717B	RHMW04-WGN01LF-2312-DF	12/5/2023	Primary	–		–		–		–		<0.25	U	–		–	
RHMW04	APPL	23L0083	RHMW04-WGN01LF-2312WK2-DF	12/11/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHMW04	SGS Orlando	FC11893	RHMW04-WGN01LF-2312WK2-DF	12/11/2023	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	
RHMW04	APPL	23L0150	RHMW04-WGN01LF-2312WK3-DF	12/18/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHMW04	SGS Orlando	FC12097	RHMW04-WGN01LF-2312WK3-DF	12/18/2023	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	
RHMW04	APPL	23L0216	RHMW04-WGN01LF-2312WK4-DF	12/27/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHMW04	SGS Orlando	FC12258	RHMW04-WGN01LF-2312WK4-DF	12/27/2023	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	
RHMW04	APPL	24A0008	RHMW04-WGN01LF-2401-DF	1/2/2024	Primary	<80	UJ	–		–		–		–		–		–	
RHMW04	SGS Anchorage	1240028_EDMS	RHMW04-WGN01LF-2401-DF	1/2/2024	Primary	–		–		–		–		–		<750	U	<750	U
RHMW04	SGS Orlando	FC12338	RHMW04-WGN01LF-2401-DF	1/2/2024	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	
RHMW04	SGS Orlando	FC12338B	RHMW04-WGN01LF-2401-DF	1/2/2024	Primary	–		–		–		–		<0.25	U	–		–	
RHMW04	APPL	24A0050	RHMW04-WGN01LF-2401WK2-DF	1/8/2024	Primary	<80	U	–		–		–		–		–		–	
RHMW04	SGS Orlando	FC12452	RHMW04-WGN01LF-2401WK2-DF	1/8/2024	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	
RHMW04	APPL	24A0104	RHMW04-WGN01LF-2401WK3-DF	1/15/2024	Primary	<80	UJ	–		–		–		–		–		–	
RHMW04	SGS Orlando	FC12594	RHMW04-WGN01LF-2401WK3-DF	1/15/2024	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHMW05

						Total Petroleum Hydrocarbons														Volatile Organic Compounds								Polycyclic Aromatic Hydrocarbons (PAHs) – AOC/LTM					
					Analyte	TPH-g		TPH-d [a]		TPH-o [a]		TPH-d with Silica Gel Cleanup [a]		TPH-o with Silica Gel Cleanup [a]		Benzene		Ethylbenzene		Toluene		Xylenes		1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene	
					CAS No.	PHCC6C10		PHCC10C24		PHCC24C40		PHCC10C24SGC		PHCC24C40SGC		71-43-2		100-41-4		108-88-3		1330-20-7		90-12-0		91-57-6		91-20-3	
					Method	8260		8015		8015		8015		8015		8260		8260		8260		8260		8270 SIM		8270 SIM		8270 SIM	
					DOH Tier 1 EAL	300		400		500		—		—		5		30		40		20		10		10		17	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		138		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW05	SGS Orlando	FC7026	RHMW05-WGN01LF-2306WK2	6/15/2023	Primary	<50	U	138	J	<160	U	<100	U	<160	U	<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U
RHMW05	ALS Kelso	K2310020	RHMW05-WGN01LF-2309	9/5/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	SGS Orlando	FC9377	RHMW05-WGN01LF-2309	9/5/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U
RHMW05	ALS Kelso	K2311474	RHMW05-WGN01LF-2310	10/4/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	SGS Orlando	FC10295	RHMW05-WGN01LF-2310	10/4/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	UJ	<0.5	UJ	<0.5	UJ	<1.5	UJ	<0.4	UJ	<0.4	UJ	<0.4	UJ
RHMW05	APPL	23J0116	RHMW05-WGN01LF-23Q4	10/10/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Energy	B23101127	RHMW05-WGN01LF-23Q4	10/10/2023	Primary	<8.5	U	<143	U	<143	U	–		–		<0.1	U	<0.1	U	<0.2	U	<0.1	U	–		–		–	
RHMW05	SGS Orlando	FC10364	RHMW05-WGN01LF-23Q4	10/10/2023	Primary	–		–		–		–		–		–		–		–		–		<0.4	U	<0.4	U	<0.4	U
RHMW05	SGS Orlando	FC10534	RHMW05-WGN01LF-2310WK3-DF	10/17/2023	Primary	–		<100	U	<160	U	–		–		–		–		–		–		<0.4	U	<0.4	U	<0.4	U
RHMW05	SGS Orlando	FC10716	RHMW05-WGN01LF-2310WK4-DF	10/24/2023	Primary	–		<100	U	<170	U	–		–		–		–		–		–		<0.4	U	<0.4	U	<0.4	U
RHMW05	SGS Orlando	FC10882	RHMW05-WGN01LF-2310WK5-DF	10/31/2023	Primary	–		<100	U	<170	U	–		–		–		–		–		–		<0.42	U	<0.42	U	<0.42	U
RHMW05	ALS Kelso	K2312868	RHMW05-WGN01LF-2311-DF	11/10/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	SGS Orlando	FC11171	RHMW05-WGN01LF-2311-DF	11/10/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	UJ	<0.42	U
RHMW05	SGS Orlando	FC11171B	RHMW05-WGN01LF-2311-DF	11/10/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	SGS Orlando	FC11263	RHMW05-WGN01LF-2311WK2-DF	11/14/2023	Primary	–		<100	U	<170	U	–		–		–		–		–		–		<0.4	U	<0.4	U	<0.4	U
RHMW05	SGS Orlando	FC11473	RHMW05-WGN01LF-2311WK3-DF	11/21/2023	Primary	–		<100	U	<170	U	–		–		–		–		–		–		<0.42	UJ	<0.42	UJ	<0.42	U
RHMW05	SGS Orlando	FC11564	RHMW05-WGN01LF-2311WK4-DF	11/28/2023	Primary	–		<100	U	<170	U	–		–		–		–		–		–		<0.42	UJ	<0.42	UJ	<0.42	U
RHMW05	SGS Anchorage	1236605_EDMS	RHMW05-WGN01LF-2312-DF	12/5/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	SGS Orlando	FC11717	RHMW05-WGN01LF-2312-DF	12/5/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	UJ	<0.42	UJ	<0.42	U
RHMW05	SGS Orlando	FC11717B	RHMW05-WGN01LF-2312-DF	12/5/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	SGS Orlando	FC11937	RHMW05-WGN01LF-2312WK2-DF	12/12/2023	Primary	–		<96	U	<150	U	–		–		–		–		–		–		<0.4	UJ	<0.4	UJ	<0.4	U
RHMW05	SGS Orlando	FC12219	RHMW05-WGN01LF-2312WK3-DF	12/22/2023	Primary	–		<100	U	<170	U	–		–		–		–		–		–		<0.42	U	<0.42	U	<0.42	U
RHMW05	SGS Orlando	FC12292	RHMW05-WGN01LF-2312WK4-DF	12/29/2023	Primary	–		<100	U	<160	U	–		–		–		–		–		–		<0.42	U	<0.42	U	<0.42	U
RHMW05	SGS Anchorage	1240028_EDMS	RHMW05-WGN01LF-2401-DF	1/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	SGS Orlando	FC12338	RHMW05-WGN01LF-2401-DF	1/2/2024	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW05	SGS Orlando	FC12338B	RHMW05-WGN01LF-2401-DF	1/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	SGS Orlando	FC12486	RHMW05-WGN01LF-2401WK2-DF	1/9/2024	Primary	–		<100	U	<170	U	–		–		–		–		–		–		<0.42	U	<0.42	U	<0.42	U
RHMW05	SGS Orlando	FC12611	RHMW05-WGN01LF-2401WK3-DF	1/16/2024	Primary	–		<100	U	<170	U	–		–		–		–		–		–		<0.4	UJ	<0.4	UJ	<0.4	UJ

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHMW05

						Polycyclic Aromatic Hydrocarbons (PAHs)																											
					Analyte	Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)		Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)peryelene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
					CAS No.	83-32-9		208-96-8		120-12-7		56-55-3		50-32-8		205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
					Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
					DOH Tier 1 EAL	20		240		0.18		0.029		0.2		0.22		0.13		0.4		1		0.022		13		240		0.095		210		68	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW05	SGS Orlando	FC7026	RHMW05-WGN01LF-2306WK2	6/15/2023	Primary	<0.4	UJ	<0.4	U	<0.4	UJ	<0.04	UJ	<0.04	UJ	<0.04	UJ	<0.04	UJ	<0.04	UJ	<0.08	UJ	<0.04	UJ	<0.4	U	<0.4	U	<0.04	UJ	<0.4	UJ	<0.4	UJ
RHMW05	ALS Kelso	K2310020	RHMW05-WGN01LF-2309	9/5/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	SGS Orlando	FC9377	RHMW05-WGN01LF-2309	9/5/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	UJ	<0.04	UJ	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHMW05	ALS Kelso	K2311474	RHMW05-WGN01LF-2310	10/4/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	SGS Orlando	FC10295	RHMW05-WGN01LF-2310	10/4/2023	Primary	<0.4	UJ	<0.4	UJ	<0.4	UJ	<0.04	UJ	<0.04	UJ	<0.04	UJ	<0.04	UJ	<0.04	UJ	<0.08	UJ	<0.04	UJ	<0.4	UJ	<0.4	UJ	<0.04	UJ	<0.4	UJ	<0.4	UJ
RHMW05	APPL	23J0116	RHMW05-WGN01LF-23Q4	10/10/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Energy	B23101127	RHMW05-WGN01LF-23Q4	10/10/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	SGS Orlando	FC10364	RHMW05-WGN01LF-23Q4	10/10/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHMW05	SGS Orlando	FC10534	RHMW05-WGN01LF-2310WK3-DF	10/17/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	SGS Orlando	FC10716	RHMW05-WGN01LF-2310WK4-DF	10/24/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	SGS Orlando	FC10882	RHMW05-WGN01LF-2310WK5-DF	10/31/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	ALS Kelso	K2312868	RHMW05-WGN01LF-2311-DF	11/10/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	SGS Orlando	FC11171	RHMW05-WGN01LF-2311-DF	11/10/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW05	SGS Orlando	FC11171B	RHMW05-WGN01LF-2311-DF	11/10/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	SGS Orlando	FC11263	RHMW05-WGN01LF-2311WK2-DF	11/14/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	SGS Orlando	FC11473	RHMW05-WGN01LF-2311WK3-DF	11/21/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	SGS Orlando	FC11564	RHMW05-WGN01LF-2311WK4-DF	11/28/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	SGS Anchorage	1236605_EDMS	RHMW05-WGN01LF-2312-DF	12/5/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	SGS Orlando	FC11717	RHMW05-WGN01LF-2312-DF	12/5/2023	Primary	<0.42	UJ	<0.42	UJ	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	UJ	<0.042	U	<0.42	UJ	<0.42	U
RHMW05	SGS Orlando	FC11717B	RHMW05-WGN01LF-2312-DF	12/5/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	SGS Orlando	FC11937	RHMW05-WGN01LF-2312WK2-DF	12/12/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	SGS Orlando	FC12219	RHMW05-WGN01LF-2312WK3-DF	12/22/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	SGS Orlando	FC12292	RHMW05-WGN01LF-2312WK4-DF	12/29/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	SGS Anchorage	1240028_EDMS	RHMW05-WGN01LF-2401-DF	1/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	SGS Orlando	FC12338	RHMW05-WGN01LF-2401-DF	1/2/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW05	SGS Orlando	FC12338B	RHMW05-WGN01LF-2401-DF	1/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	SGS Orlando	FC12486	RHMW05-WGN01LF-2401WK2-DF	1/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	SGS Orlando	FC12611	RHMW05-WGN01LF-2401WK3-DF	1/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHMW05

						Fuel Additive				Lead Scavengers				Natural Attenuation Parameters					
					Analyte	2-(2- Methoxyethoxy)-ethanol [b]		Phenol		1,2-Dibromoethane		1,2-Dichloroethane		Methane		Total Organic Carbon		NV Dissolved Organic Carbon	
					CAS No.	111-77-3		108-95-2		106-93-4		107-06-2		74-82-8		TOC		—	
					Method	8270D		SW8270		8011		8260		RSK 175		9060		9060	
					DOH Tier 1 EAL	800		300		0.04		5		—		—		—	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		–		–		ND		ND		ND	
					Maximum	ND		ND		–		–		ND		500		1200	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result	
RHMW05	SGS Orlando	FC7026	RHMW05-WGN01LF-2306WK2	6/15/2023	Primary	–		<2	U	–		–		<0.25	U	–		–	
RHMW05	ALS Kelso	K2310020	RHMW05-WGN01LF-2309	9/5/2023	Primary	–		–		–		–		–		500		1200	
RHMW05	SGS Orlando	FC9377	RHMW05-WGN01LF-2309	9/5/2023	Primary	–		<2	U	–		–		<0.25	U	–		–	
RHMW05	ALS Kelso	K2311474	RHMW05-WGN01LF-2310	10/4/2023	Primary	–		–		–		–		–		<500	U	500	
RHMW05	SGS Orlando	FC10295	RHMW05-WGN01LF-2310	10/4/2023	Primary	–		<1.9	U	–		–		<0.25	UJ	–		–	
RHMW05	APPL	23J0116	RHMW05-WGN01LF-23Q4	10/10/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHMW05	Energy	B23101127	RHMW05-WGN01LF-23Q4	10/10/2023	Primary	–		–		–		–		–		–		–	
RHMW05	SGS Orlando	FC10364	RHMW05-WGN01LF-23Q4	10/10/2023	Primary	–		<1.9	U	–		–		<0.25	U	<1000	U	–	
RHMW05	SGS Orlando	FC10534	RHMW05-WGN01LF-2310WK3-DF	10/17/2023	Primary	–		–		–		–		–		–		–	
RHMW05	SGS Orlando	FC10716	RHMW05-WGN01LF-2310WK4-DF	10/24/2023	Primary	–		–		–		–		–		–		–	
RHMW05	SGS Orlando	FC10882	RHMW05-WGN01LF-2310WK5-DF	10/31/2023	Primary	–		–		–		–		–		–		–	
RHMW05	ALS Kelso	K2312868	RHMW05-WGN01LF-2311-DF	11/10/2023	Primary	–		–		–		–		–		<500	U	<500	U
RHMW05	SGS Orlando	FC11171	RHMW05-WGN01LF-2311-DF	11/10/2023	Primary	–		<2	UJ	–		–		–		–		–	
RHMW05	SGS Orlando	FC11171B	RHMW05-WGN01LF-2311-DF	11/10/2023	Primary	–		–		–		–		<0.25	U	–		–	
RHMW05	SGS Orlando	FC11263	RHMW05-WGN01LF-2311WK2-DF	11/14/2023	Primary	–		–		–		–		–		–		–	
RHMW05	SGS Orlando	FC11473	RHMW05-WGN01LF-2311WK3-DF	11/21/2023	Primary	–		–		–		–		–		–		–	
RHMW05	SGS Orlando	FC11564	RHMW05-WGN01LF-2311WK4-DF	11/28/2023	Primary	–		–		–		–		–		–		–	
RHMW05	SGS Anchorage	1236605_EDMS	RHMW05-WGN01LF-2312-DF	12/5/2023	Primary	–		–		–		–		–		<750	U	<750	U
RHMW05	SGS Orlando	FC11717	RHMW05-WGN01LF-2312-DF	12/5/2023	Primary	–		<2	U	–		–		–		–		–	
RHMW05	SGS Orlando	FC11717B	RHMW05-WGN01LF-2312-DF	12/5/2023	Primary	–		–		–		–		<0.25	U	–		–	
RHMW05	SGS Orlando	FC11937	RHMW05-WGN01LF-2312WK2-DF	12/12/2023	Primary	–		–		–		–		–		–		–	
RHMW05	SGS Orlando	FC12219	RHMW05-WGN01LF-2312WK3-DF	12/22/2023	Primary	–		–		–		–		–		–		–	
RHMW05	SGS Orlando	FC12292	RHMW05-WGN01LF-2312WK4-DF	12/29/2023	Primary	–		–		–		–		–		–		–	
RHMW05	SGS Anchorage	1240028_EDMS	RHMW05-WGN01LF-2401-DF	1/2/2024	Primary	–		–		–		–		–		<750	U	<750	U
RHMW05	SGS Orlando	FC12338	RHMW05-WGN01LF-2401-DF	1/2/2024	Primary	–		<2	U	–		–		–		–		–	
RHMW05	SGS Orlando	FC12338B	RHMW05-WGN01LF-2401-DF	1/2/2024	Primary	–		–		–		–		<0.25	U	–		–	
RHMW05	SGS Orlando	FC12486	RHMW05-WGN01LF-2401WK2-DF	1/9/2024	Primary	–		–		–		–		–		–		–	
RHMW05	SGS Orlando	FC12611	RHMW05-WGN01LF-2401WK3-DF	1/16/2024	Primary	–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHMW06

						Total Petroleum Hydrocarbons										Volatile Organic Compounds								Polycyclic Aromatic Hydrocarbons (PAHs) – AOC/LTM					
					Analyte	TPH-g		TPH-d [a]		TPH-o [a]		TPH-d with Silica Gel Cleanup [a]	TPH-o with Silica Gel Cleanup [a]			Benzene		Ethylbenzene		Toluene		Xylenes		1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene	
					CAS No.	PHCC6C10		PHCC10C24		PHCC24C40		PHCC10C24SGC	PHCC24C40SGC			71-43-2		100-41-4		108-88-3		1330-20-7		90-12-0		91-57-6		91-20-3	
					Method	8260		8015		8015		8015	8015			8260		8260		8260		8260		8270 SIM		8270 SIM		8270 SIM	
					DOH Tier 1 EAL	300		400		500		—	—			5		30		40		20		10		10		17	
					Units	µg/L		µg/L		µg/L		µg/L	µg/L			µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		–	–			ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		–	–			ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result	Result			Result		Result		Result		Result		Result		Result		Result	
RHMW06	SGS Orlando	FC7026	RHMW06-WGN01LF-2306WK2	6/14/2023	Primary	<50	U	<100	U	<160	U	–	–			<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U
RHMW06	SGS Orlando	FC9543	RHMW06-WGN01LF-2309	9/8/2023	Primary	<50	U	<100	U	<160	U	–	–			<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U
RHMW06	ALS Kelso	K2311474	RHMW06-WGN01LF-2310	10/6/2023	Primary	–		–		–		–	–			–		–		–		–		–		–		–	
RHMW06	SGS Orlando	FC10336	RHMW06-WGN01LF-2310	10/6/2023	Primary	<50	U	<100	U	<170	U	–	–			<0.5	UJ	<0.5	UJ	<0.5	UJ	<1.5	UJ	<0.4	U	<0.4	U	<0.4	U
RHMW06	APPL	23J0125	RHMW06-WGN01LF-23Q4	10/13/2023	Primary	–		–		–		–	–			–		–		–		–		–		–		–	
RHMW06	Energy	B23101258	RHMW06-WGN01LF-23Q4	10/13/2023	Primary	<8.5	U	<141	U	<141	U	–	–			<0.1	U	<0.1	U	<0.2	U	<0.1	U	–		–		–	
RHMW06	SGS Orlando	FC10488	RHMW06-WGN01LF-23Q4	10/13/2023	Primary	–		–		–		–	–			–		–		–		–		<0.4	U	<0.4	U	<0.4	U
RHMW06	APPL	23J0260	RHMW06-WGN01LF-2310WK4-DF	10/23/2023	Primary	–		–		–		–	–			–		–		–		–		–		–		–	
RHMW06	SGS Orlando	FC10676	RHMW06-WGN01LF-2310WK4-DF	10/23/2023	Primary	<50	U	<100	U	<160	U	–	–			<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U
RHMW06	APPL	23J0325	RHMW06-WGN01LF-2310WK5-DF	10/30/2023	Primary	–		–		–		–	–			–		–		–		–		–		–		–	
RHMW06	SGS Orlando	FC10844	RHMW06-WGN01LF-2310WK5-DF	10/30/2023	Primary	<50	U	<100	U	<170	U	–	–			<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW06	ALS Kelso	K2312760	RHMW06-WGN01LF-2311-DF	11/7/2023	Primary	–		–		–		–	–			–		–		–		–		–		–		–	
RHMW06	APPL	23K0050	RHMW06-WGN01LF-2311-DF	11/7/2023	Primary	–		–		–		–	–			–		–		–		–		–		–		–	
RHMW06	SGS Orlando	FC11063	RHMW06-WGN01LF-2311-DF	11/7/2023	Primary	<50	U	<100	U	<170	U	–	–			<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	UJ	<0.42	U	<0.42	U
RHMW06	SGS Orlando	FC11063B	RHMW06-WGN01LF-2311-DF	11/7/2023	Primary	–		–		–		–	–			–		–		–		–		–		–		–	
RHMW06	APPL	23K0106	RHMW06-WGN01LF-2311WK2-DF	11/13/2023	Primary	–		–		–		–	–			–		–		–		–		–		–		–	
RHMW06	SGS Orlando	FC11221	RHMW06-WGN01LF-2311WK2-DF	11/13/2023	Primary	<50	U	<100	U	<170	U	–	–			<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW06	APPL	23K0183	RHMW06-WGN01LF-2311WK3-DF	11/20/2023	Primary	–		–		–		–	–			–		–		–		–		–		–		–	
RHMW06	SGS Orlando	FC11419	RHMW06-WGN01LF-2311WK3-DF	11/20/2023	Primary	<50	U	<100	U	<170	U	–	–			<0.5	UJ	<0.5	UJ	<0.5	UJ	<1.5	UJ	<0.42	UJ	<0.42	UJ	<0.42	U
RHMW06	APPL	23K0219	RHMW06-WGN01LF-2311WK4-DF	11/27/2023	Primary	–		–		–		–	–			–		–		–		–		–		–		–	
RHMW06	SGS Orlando	FC11512	RHMW06-WGN01LF-2311WK4-DF	11/27/2023	Primary	<50	U	<100	U	<170	U	–	–			<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	UJ	<0.42	UJ	<0.42	U
RHMW06	APPL	23L0027	RHMW06-WGN01LF-2312-DF	12/5/2023	Primary	–		–		–		–	–			–		–		–		–		–		–		–	
RHMW06	SGS Anchorage	1236605_EDMS	RHMW06-WGN01LF-2312-DF	12/5/2023	Primary	–		–		–		–	–			–		–		–		–		–		–		–	
RHMW06	SGS Orlando	FC11717	RHMW06-WGN01LF-2312-DF	12/5/2023	Primary	<50	U	<100	U	<170	U	–	–			<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	UJ	<0.42	UJ	<0.42	U
RHMW06	SGS Orlando	FC11717B	RHMW06-WGN01LF-2312-DF	12/5/2023	Primary	–		–		–		–	–			–		–		–		–		–		–		–	
RHMW06	APPL	23L0083	RHMW06-WGN01LF-2312WK2-DF	12/11/2023	Primary	–		–		–		–	–			–		–		–		–		–		–		–	
RHMW06	SGS Orlando	FC11893	RHMW06-WGN01LF-2312WK2-DF	12/11/2023	Primary	<50	U	<100	U	<160	U	–	–			<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	UJ	<0.4	UJ	<0.4	U
RHMW06	APPL	23L0150	RHMW06-WGN01LF-2312WK3-DF	12/18/2023	Primary	–		–		–		–	–			–		–		–		–		–		–		–	
RHMW06	SGS Orlando	FC12097	RHMW06-WGN01LF-2312WK3-DF	12/18/2023	Primary	<50	U	<100	U	<170	U	–	–			<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW06	APPL	23L0216	RHMW06-WGN01LF-2312WK4-DF	12/27/2023	Primary	–		–		–		–	–			–		–		–		–		–		–		–	
RHMW06	SGS Orlando	FC12258	RHMW06-WGN01LF-2312WK4-DF	12/27/2023	Primary	<50	U	<100	U	<170	U	–	–			<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW06	APPL	24A0008	RHMW06-WGN01LF-2401-DF	1/2/2024	Primary	–		–		–		–	–			–		–		–		–		–		–		–	
RHMW06	SGS Anchorage	1240028_EDMS	RHMW06-WGN01LF-2401-DF	1/2/2024	Primary	–		–		–		–	–			–		–		–		–		–		–		–	
RHMW06	SGS Orlando	FC12338	RHMW06-WGN01LF-2401-DF	1/2/2024	Primary	<50	U	<96	U	<150	U	–	–			<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW06	SGS Orlando	FC12338B	RHMW06-WGN01LF-2401-DF	1/2/2024	Primary	–		–		–		–	–			–		–		–		–		–		–		–	
RHMW06	APPL	24A0050	RHMW06-WGN01LF-2401WK2-DF	1/8/2024	Primary	–		–		–		–	–			–		–		–		–		–		–		–	
RHMW06	SGS Orlando	FC12452	RHMW06-WGN01LF-2401WK2-DF	1/8/2024	Primary	<50	U	<96	U	<150	U	–	–			<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U
RHMW06	APPL	24A0104	RHMW06-WGN01LF-2401WK3-DF	1/15/2024	Primary	–		–		–		–	–			–		–		–		–		–		–		–	
RHMW06	SGS Orlando	FC12594	RHMW06-WGN01LF-2401WK3-DF	1/15/2024	Primary	<50	U	<100	U	<170	U	–	–			<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.38	U	<0.38	U	<0.38	U

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHMW06

						Polycyclic Aromatic Hydrocarbons (PAHs)																													
					Analyte	Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)		Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)peryelene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
					CAS No.	83-32-9		208-96-8		120-12-7		56-55-3		50-32-8		205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
					Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
					DOH Tier 1 EAL	20		240		0.18		0.029		0.2		0.22		0.13		0.4		1		0.022		13		240		0.095		210		68	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW06	SGS Orlando	FC7026	RHMW06-WGN01LF-2306WK2	6/14/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHMW06	SGS Orlando	FC9543	RHMW06-WGN01LF-2309	9/8/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHMW06	ALS Kelso	K2311474	RHMW06-WGN01LF-2310	10/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	SGS Orlando	FC10336	RHMW06-WGN01LF-2310	10/6/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHMW06	APPL	23J0125	RHMW06-WGN01LF-23Q4	10/13/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Energy	B23101258	RHMW06-WGN01LF-23Q4	10/13/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	SGS Orlando	FC10488	RHMW06-WGN01LF-23Q4	10/13/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHMW06	APPL	23J0260	RHMW06-WGN01LF-2310WK4-DF	10/23/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	SGS Orlando	FC10676	RHMW06-WGN01LF-2310WK4-DF	10/23/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHMW06	APPL	23J0325	RHMW06-WGN01LF-2310WK5-DF	10/30/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	SGS Orlando	FC10844	RHMW06-WGN01LF-2310WK5-DF	10/30/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW06	ALS Kelso	K2312760	RHMW06-WGN01LF-2311-DF	11/7/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	APPL	23K0050	RHMW06-WGN01LF-2311-DF	11/7/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	SGS Orlando	FC11063	RHMW06-WGN01LF-2311-DF	11/7/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW06	SGS Orlando	FC11063B	RHMW06-WGN01LF-2311-DF	11/7/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	APPL	23K0106	RHMW06-WGN01LF-2311WK2-DF	11/13/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	SGS Orlando	FC11221	RHMW06-WGN01LF-2311WK2-DF	11/13/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	UJ	<0.42	U	<0.42	U
RHMW06	APPL	23K0183	RHMW06-WGN01LF-2311WK3-DF	11/20/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	SGS Orlando	FC11419	RHMW06-WGN01LF-2311WK3-DF	11/20/2023	Primary	<0.42	UJ	<0.42	UJ	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	UJ	<0.042	U	<0.42	UJ	<0.42	U
RHMW06	APPL	23K0219	RHMW06-WGN01LF-2311WK4-DF	11/27/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	SGS Orlando	FC11512	RHMW06-WGN01LF-2311WK4-DF	11/27/2023	Primary	<0.42	UJ	<0.42	UJ	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	UJ	<0.042	U	<0.42	UJ	<0.42	U
RHMW06	APPL	23L0027	RHMW06-WGN01LF-2312-DF	12/5/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	SGS Anchorage	1236605_EDMS	RHMW06-WGN01LF-2312-DF	12/5/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	SGS Orlando	FC11717	RHMW06-WGN01LF-2312-DF	12/5/2023	Primary	<0.42	UJ	<0.42	UJ	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	UJ	<0.042	U	<0.42	UJ	<0.42	U
RHMW06	SGS Orlando	FC11717B	RHMW06-WGN01LF-2312-DF	12/5/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	APPL	23L0083	RHMW06-WGN01LF-2312WK2-DF	12/11/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	SGS Orlando	FC11893	RHMW06-WGN01LF-2312WK2-DF	12/11/2023	Primary	<0.4	UJ	<0.4	UJ	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	UJ	<0.4	UJ	<0.04	U	<0.4	UJ	<0.4	U
RHMW06	APPL	23L0150	RHMW06-WGN01LF-2312WK3-DF	12/18/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	SGS Orlando	FC12097	RHMW06-WGN01LF-2312WK3-DF	12/18/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW06	APPL	23L0216	RHMW06-WGN01LF-2312WK4-DF	12/27/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	SGS Orlando	FC12258	RHMW06-WGN01LF-2312WK4-DF	12/27/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW06	APPL	24A0008	RHMW06-WGN01LF-2401-DF	1/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	SGS Anchorage	1240028_EDMS	RHMW06-WGN01LF-2401-DF	1/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	SGS Orlando	FC12338	RHMW06-WGN01LF-2401-DF	1/2/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW06	SGS Orlando	FC12338B	RHMW06-WGN01LF-2401-DF	1/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	APPL	24A0050	RHMW06-WGN01LF-2401WK2-DF	1/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	SGS Orlando	FC12452	RHMW06-WGN01LF-2401WK2-DF	1/8/2024	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHMW06	APPL	24A0104	RHMW06-WGN01LF-2401WK3-DF	1/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	SGS Orlando	FC12594	RHMW06-WGN01LF-2401WK3-DF	1/15/2024	Primary	<0.38	U	<0.38	U	<0.38	U	<0.038	U	<0.038	U	<0.038	U	<0.038	U	<0.038	U	<0.077	U	<0.038	U	<0.38	U	<0.38	U	<0.038	U	<0.38	U	<0.38	U

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHMW06

						Fuel Additive				Lead Scavengers				Natural Attenuation Parameters					
					Analyte	2-(2- Methoxyethoxy)-ethanol [b]		Phenol		1,2-Dibromoethane		1,2-Dichloroethane		Methane		Total Organic Carbon		NV Dissolved Organic Carbon	
					CAS No.	111-77-3		108-95-2		106-93-4		107-06-2		74-82-8		TOC		—	
					Method	8270D		SW8270		8011		8260		RSK 175		9060		9060	
					DOH Tier 1 EAL	800		300		0.04		5		—		—		—	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		ND		0.27		ND		700	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result	
RHMW06	SGS Orlando	FC7026	RHMW06-WGN01LF-2306WK2	6/14/2023	Primary	–		<1.9	U	–		–		0.27	J	–		–	
RHMW06	SGS Orlando	FC9543	RHMW06-WGN01LF-2309	9/8/2023	Primary	–		<2	U	–		–		<0.25	U	–		–	
RHMW06	ALS Kelso	K2311474	RHMW06-WGN01LF-2310	10/6/2023	Primary	–		–		–		–		–		<500	U	700	
RHMW06	SGS Orlando	FC10336	RHMW06-WGN01LF-2310	10/6/2023	Primary	–		<1.9	U	–		–		<0.25	U	–		–	
RHMW06	APPL	23J0125	RHMW06-WGN01LF-23Q4	10/13/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHMW06	Energy	B23101258	RHMW06-WGN01LF-23Q4	10/13/2023	Primary	–		–		–		–		–		–		–	
RHMW06	SGS Orlando	FC10488	RHMW06-WGN01LF-23Q4	10/13/2023	Primary	–		<1.9	U	–		–		<0.25	U	<1000	U	–	
RHMW06	APPL	23J0260	RHMW06-WGN01LF-2310WK4-DF	10/23/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHMW06	SGS Orlando	FC10676	RHMW06-WGN01LF-2310WK4-DF	10/23/2023	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	
RHMW06	APPL	23J0325	RHMW06-WGN01LF-2310WK5-DF	10/30/2023	Primary	<80	U	–		–		–		–		–		–	
RHMW06	SGS Orlando	FC10844	RHMW06-WGN01LF-2310WK5-DF	10/30/2023	Primary	–		<1.9	U	<0.014	U	<0.5	U	–		–		–	
RHMW06	ALS Kelso	K2312760	RHMW06-WGN01LF-2311-DF	11/7/2023	Primary	–		–		–		–		–		<500	U	<500	U
RHMW06	APPL	23K0050	RHMW06-WGN01LF-2311-DF	11/7/2023	Primary	<80	U	–		–		–		–		–		–	
RHMW06	SGS Orlando	FC11063	RHMW06-WGN01LF-2311-DF	11/7/2023	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	
RHMW06	SGS Orlando	FC11063B	RHMW06-WGN01LF-2311-DF	11/7/2023	Primary	–		–		–		–		<0.25	U	–		–	
RHMW06	APPL	23K0106	RHMW06-WGN01LF-2311WK2-DF	11/13/2023	Primary	<80	U	–		–		–		–		–		–	
RHMW06	SGS Orlando	FC11221	RHMW06-WGN01LF-2311WK2-DF	11/13/2023	Primary	–		<1.9	UJ	<0.014	U	<0.5	U	–		–		–	
RHMW06	APPL	23K0183	RHMW06-WGN01LF-2311WK3-DF	11/20/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHMW06	SGS Orlando	FC11419	RHMW06-WGN01LF-2311WK3-DF	11/20/2023	Primary	–		<1.9	U	<0.014	U	<0.5	UJ	–		–		–	
RHMW06	APPL	23K0219	RHMW06-WGN01LF-2311WK4-DF	11/27/2023	Primary	<80	U	–		–		–		–		–		–	
RHMW06	SGS Orlando	FC11512	RHMW06-WGN01LF-2311WK4-DF	11/27/2023	Primary	–		<2	U	<0.015	U	<0.5	U	–		–		–	
RHMW06	APPL	23L0027	RHMW06-WGN01LF-2312-DF	12/5/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHMW06	SGS Anchorage	1236605_EDMS	RHMW06-WGN01LF-2312-DF	12/5/2023	Primary	–		–		–		–		–		<750	U	<750	U
RHMW06	SGS Orlando	FC11717	RHMW06-WGN01LF-2312-DF	12/5/2023	Primary	–		<1.9	U	<0.014	U	<0.5	U	–		–		–	
RHMW06	SGS Orlando	FC11717B	RHMW06-WGN01LF-2312-DF	12/5/2023	Primary	–		–		–		–		<0.25	U	–		–	
RHMW06	APPL	23L0083	RHMW06-WGN01LF-2312WK2-DF	12/11/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHMW06	SGS Orlando	FC11893	RHMW06-WGN01LF-2312WK2-DF	12/11/2023	Primary	–		<2	U	<0.015	U	<0.5	U	–		–		–	
RHMW06	APPL	23L0150	RHMW06-WGN01LF-2312WK3-DF	12/18/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHMW06	SGS Orlando	FC12097	RHMW06-WGN01LF-2312WK3-DF	12/18/2023	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	
RHMW06	APPL	23L0216	RHMW06-WGN01LF-2312WK4-DF	12/27/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHMW06	SGS Orlando	FC12258	RHMW06-WGN01LF-2312WK4-DF	12/27/2023	Primary	–		<2	U	<0.014	UJ	<0.5	U	–		–		–	
RHMW06	APPL	24A0008	RHMW06-WGN01LF-2401-DF	1/2/2024	Primary	<80	UJ	–		–		–		–		–		–	
RHMW06	SGS Anchorage	1240028_EDMS	RHMW06-WGN01LF-2401-DF	1/2/2024	Primary	–		–		–		–		–		<750	U	<750	U
RHMW06	SGS Orlando	FC12338	RHMW06-WGN01LF-2401-DF	1/2/2024	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	
RHMW06	SGS Orlando	FC12338B	RHMW06-WGN01LF-2401-DF	1/2/2024	Primary	–		–		–		–		<0.25	U	–		–	
RHMW06	APPL	24A0050	RHMW06-WGN01LF-2401WK2-DF	1/8/2024	Primary	<80	U	–		–		–		–		–		–	
RHMW06	SGS Orlando	FC12452	RHMW06-WGN01LF-2401WK2-DF	1/8/2024	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	
RHMW06	APPL	24A0104	RHMW06-WGN01LF-2401WK3-DF	1/15/2024	Primary	<80	UJ	–		–		–		–		–		–	
RHMW06	SGS Orlando	FC12594	RHMW06-WGN01LF-2401WK3-DF	1/15/2024	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHMW08

						Total Petroleum Hydrocarbons												Volatile Organic Compounds												Polycyclic Aromatic Hydrocarbons (PAHs) – AOC/LTM					
					Analyte	TPH-g		TPH-d [a]		TPH-o [a]		TPH-d with Silica Gel Cleanup [a]		TPH-o with Silica Gel Cleanup [a]		Benzene		Ethylbenzene		Toluene		Xylenes		1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene	
					CAS No.	PHCC6C10		PHCC10C24		PHCC24C40		PHCC10C24SGC		PHCC24C40SGC		71-43-2		100-41-4		108-88-3		1330-20-7		90-12-0		91-57-6		91-20-3	
					Method	8260		8015		8015		8015		8015		8260		8260		8260		8260		8270 SIM		8270 SIM		8270 SIM	
					DOH Tier 1 EAL	300		400		500		—		—		5		30		40		20		10		10		17	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		83		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		164		106		ND		87.6		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW08	ALS Kelso	K2310020	RHMW08-WGN01LF-2309	9/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	SGS Orlando	FC10248	RHMW08-WGFD01LF-2310	10/4/2023	Field Duplicate	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	UJ	<0.4	UJ	<0.4	UJ
RHMW08	ALS Kelso	K2311474	RHMW08-WGN01LF-2310	10/4/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	SGS Orlando	FC10248	RHMW08-WGN01LF-2310	10/4/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	UJ	<0.4	UJ	<0.4	UJ
RHMW08	APPL	23J0132	RHMW08-WGFD01LF-23Q4	10/11/2023	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Energy	B23101127	RHMW08-WGFD01LF-23Q4	10/11/2023	Field Duplicate	<8.5	UJ	<141	UJ	<141	UJ	–		–		<0.1	UJ	<0.1	UJ	<0.2	UJ	<0.1	UJ	–		–		–	
RHMW08	SGS Orlando	FC10442	RHMW08-WGFD01LF-23Q4	10/11/2023	Field Duplicate	–		–		–		–		–		–		–		–		–		<0.4	U	<0.4	U	<0.4	U
RHMW08	APPL	23J0132	RHMW08-WGN01LF-23Q4	10/11/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Energy	B23101127	RHMW08-WGN01LF-23Q4	10/11/2023	Primary	<8.5	UJ	<141	UJ	<141	UJ	–		–		<0.1	UJ	<0.1	UJ	<0.2	UJ	<0.1	UJ	–		–		–	
RHMW08	SGS Orlando	FC10442	RHMW08-WGN01LF-23Q4	10/11/2023	Primary	–		–		–		–		–		–		–		–		–		<0.4	U	<0.4	U	<0.4	U
RHMW08	SGS Orlando	FC10572	RHMW08-WGN01LF-2310WK3-DF	10/18/2023	Primary	–		<100	U	<170	U	–		–		–		–		–		–		<0.42	U	<0.42	U	<0.42	U
RHMW08	SGS Orlando	FC10745	RHMW08-WGN01LF-2310WK4-DF	10/25/2023	Primary	–		<100	U	<170	U	–		–		–		–		–		–		<0.42	U	<0.42	U	<0.42	U
RHMW08	SGS Orlando	FC10911	RHMW08-WGN01LF-2310WK5-DF	11/1/2023	Primary	–		<100	U	<170	U	–		–		–		–		–		–		<0.42	U	<0.42	U	<0.42	U
RHMW08	SGS Orlando	FC11171	RHMW08-WGFD01LF-2311-DF	11/10/2023	Field Duplicate	<50	U	<96	U	<150	U	–		–		<0.5	U	<0.5	U	<0.5	UJ	<1.5	U	<0.42	U	<0.42	UJ	<0.42	U
RHMW08	ALS Kelso	K2312868	RHMW08-WGN01LF-2311-DF	11/10/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	SGS Orlando	FC11171	RHMW08-WGN01LF-2311-DF	11/10/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	UJ	<1.5	U	<0.42	U	<0.42	UJ	<0.42	U
RHMW08	SGS Orlando	FC11171B	RHMW08-WGN01LF-2311-DF	11/10/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	SGS Orlando	FC11263	RHMW08-WGN01LF-2311WK2-DF	11/14/2023	Primary	–		<100	U	<170	U	–		–		–		–		–		–		<0.4	U	<0.4	U	<0.4	U
RHMW08	SGS Orlando	FC11419	RHMW08-WGN01LF-2311WK3-DF	11/20/2023	Primary	–		<100	U	<170	U	–		–		–		–		–		–		<0.42	UJ	<0.42	UJ	<0.42	U
RHMW08	SGS Orlando	FC11564	RHMW08-WGN01LF-2311WK4-DF	11/28/2023	Primary	–		<100	U	<170	U	–		–		–		–		–		–		<0.42	UJ	<0.42	UJ	<0.42	U
RHMW08	SGS Anchorage	1236588_EDMS	RHMW08-WGN01LF-2312-DF	12/4/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	SGS Orlando	FC11688	RHMW08-WGN01LF-2312-DF	12/4/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	UJ	<0.42	UJ	<0.42	U
RHMW08	SGS Orlando	FC11688B	RHMW08-WGN01LF-2312-DF	12/4/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	SGS Orlando	FC11893	RHMW08-WGN01LF-2312WK2-DF	12/11/2023	Primary	–		<100	U	<160	U	–		–		–		–		–		–		<0.4	UJ	<0.4	UJ	<0.4	U
RHMW08	SGS Orlando	FC12097	RHMW08-WGN01LF-2312WK3-DF	12/18/2023	Primary	–		**164**	J	**106**	J	<100	U	**87.6**	J	–		–		–		–		<0.42	U	<0.42	U	<0.42	U
RHMW08	SGS Orlando	FC12235	RHMW08-WGN01LF-2312WK4-DF	12/26/2023	Primary	–		<100	U	**82.1**	J	<100	U	**83**	J	–		–		–		–		<0.42	U	<0.42	U	<0.42	U
RHMW08	SGS Orlando	FC12382	RHMW08-WGFD01LF-2401-DF	1/3/2024	Field Duplicate	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW08	SGS Anchorage	1240064_EDMS	RHMW08-WGN01LF-2401-DF	1/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	SGS Orlando	FC12382	RHMW08-WGN01LF-2401-DF	1/3/2024	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW08	SGS Orlando	FC12382B	RHMW08-WGN01LF-2401-DF	1/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	SGS Orlando	FC12452	RHMW08-WGN01LF-2401WK2-DF	1/8/2024	Primary	–		<100	U	<170	U	–		–		–		–		–		–		<0.4	U	<0.4	U	<0.4	U
RHMW08	SGS Orlando	FC12594	RHMW08-WGN01LF-2401WK3-DF	1/15/2024	Primary	–		<100	U	<170	U	–		–		–		–		–		–		<0.42	U	<0.42	U	<0.42	U

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHMW08

						Polycyclic Aromatic Hydrocarbons (PAHs)																															
					Analyte	Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)		Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)peryelene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)			
					CAS No.	83-32-9		208-96-8		120-12-7		56-55-3		50-32-8		205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0			
					Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM			
					DOH Tier 1 EAL	20		240		0.18		0.029		0.2		0.22		0.13		0.4		1		0.022		13		240		0.095		210		68			
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L			
					Minimum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND			
					Maximum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND			
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result			
RHMW08	ALS Kelso	K2310020	RHMW08-WGN01LF-2309	9/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW08	SGS Orlando	FC10248	RHMW08-WGFD01LF-2310	10/4/2023	Field Duplicate	<0.4	UJ	<0.4	UJ	<0.4	UJ	<0.04	UJ	<0.04	UJ	<0.04	UJ	<0.04	UJ	<0.04	UJ	<0.08	UJ	<0.04	UJ	<0.4	UJ	<0.4	UJ	<0.04	UJ	<0.4	UJ	<0.4	UJ
RHMW08	ALS Kelso	K2311474	RHMW08-WGN01LF-2310	10/4/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW08	SGS Orlando	FC10248	RHMW08-WGN01LF-2310	10/4/2023	Primary	<0.4	UJ	<0.4	UJ	<0.4	UJ	<0.04	UJ	<0.04	UJ	<0.04	UJ	<0.04	UJ	<0.04	UJ	<0.08	UJ	<0.04	UJ	<0.4	UJ	<0.4	UJ	<0.04	UJ	<0.4	UJ	<0.4	UJ
RHMW08	APPL	23J0132	RHMW08-WGFD01LF-23Q4	10/11/2023	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW08	Energy	B23101127	RHMW08-WGFD01LF-23Q4	10/11/2023	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW08	SGS Orlando	FC10442	RHMW08-WGFD01LF-23Q4	10/11/2023	Field Duplicate	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHMW08	APPL	23J0132	RHMW08-WGN01LF-23Q4	10/11/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW08	Energy	B23101127	RHMW08-WGN01LF-23Q4	10/11/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW08	SGS Orlando	FC10442	RHMW08-WGN01LF-23Q4	10/11/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHMW08	SGS Orlando	FC10572	RHMW08-WGN01LF-2310WK3-DF	10/18/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW08	SGS Orlando	FC10745	RHMW08-WGN01LF-2310WK4-DF	10/25/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW08	SGS Orlando	FC10911	RHMW08-WGN01LF-2310WK5-DF	11/1/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW08	SGS Orlando	FC11171	RHMW08-WGFD01LF-2311-DF	11/10/2023	Field Duplicate	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW08	ALS Kelso	K2312868	RHMW08-WGN01LF-2311-DF	11/10/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW08	SGS Orlando	FC11171	RHMW08-WGN01LF-2311-DF	11/10/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW08	SGS Orlando	FC11171B	RHMW08-WGN01LF-2311-DF	11/10/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW08	SGS Orlando	FC11263	RHMW08-WGN01LF-2311WK2-DF	11/14/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW08	SGS Orlando	FC11419	RHMW08-WGN01LF-2311WK3-DF	11/20/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW08	SGS Orlando	FC11564	RHMW08-WGN01LF-2311WK4-DF	11/28/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW08	SGS Anchorage	1236588_EDMS	RHMW08-WGN01LF-2312-DF	12/4/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW08	SGS Orlando	FC11688	RHMW08-WGN01LF-2312-DF	12/4/2023	Primary	<0.42	UJ	<0.42	UJ	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	UJ	<0.042	U	<0.42	UJ	<0.42	U
RHMW08	SGS Orlando	FC11688B	RHMW08-WGN01LF-2312-DF	12/4/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW08	SGS Orlando	FC11893	RHMW08-WGN01LF-2312WK2-DF	12/11/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW08	SGS Orlando	FC12097	RHMW08-WGN01LF-2312WK3-DF	12/18/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW08	SGS Orlando	FC12235	RHMW08-WGN01LF-2312WK4-DF	12/26/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW08	SGS Orlando	FC12382	RHMW08-WGFD01LF-2401-DF	1/3/2024	Field Duplicate	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW08	SGS Anchorage	1240064_EDMS	RHMW08-WGN01LF-2401-DF	1/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW08	SGS Orlando	FC12382	RHMW08-WGN01LF-2401-DF	1/3/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW08	SGS Orlando	FC12382B	RHMW08-WGN01LF-2401-DF	1/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW08	SGS Orlando	FC12452	RHMW08-WGN01LF-2401WK2-DF	1/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW08	SGS Orlando	FC12594	RHMW08-WGN01LF-2401WK3-DF	1/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHMW08

						Fuel Additive				Lead Scavengers				Natural Attenuation Parameters					
					Analyte	2-(2- Methoxyethoxy)-ethanol [b]		Phenol		1,2-Dibromoethane		1,2-Dichloroethane		Methane		Total Organic Carbon		NV Dissolved Organic Carbon	
					CAS No.	111-77-3		108-95-2		106-93-4		107-06-2		74-82-8		TOC		—	
					Method	8270D		SW8270		8011		8260		RSK 175		9060		9060	
					DOH Tier 1 EAL	800		300		0.04		5		—		—		—	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		–		–		ND		ND		ND	
					Maximum	ND		ND		–		–		0.61		828		2300	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result	
RHMW08	ALS Kelso	K2310020	RHMW08-WGN01LF-2309	9/6/2023	Primary	–		–		–		–		–		500		900	
RHMW08	SGS Orlando	FC10248	RHMW08-WGFD01LF-2310	10/4/2023	Field Duplicate	–		<2	U	–		–		–		–		–	
RHMW08	ALS Kelso	K2311474	RHMW08-WGN01LF-2310	10/4/2023	Primary	–		–		–		–		–		600		2300	
RHMW08	SGS Orlando	FC10248	RHMW08-WGN01LF-2310	10/4/2023	Primary	–		<2	U	–		–		0.61		–		–	
RHMW08	APPL	23J0132	RHMW08-WGFD01LF-23Q4	10/11/2023	Field Duplicate	<80	UJ	–		–		–		–		–		–	
RHMW08	Energy	B23101127	RHMW08-WGFD01LF-23Q4	10/11/2023	Field Duplicate	–		–		–		–		–		–		–	
RHMW08	SGS Orlando	FC10442	RHMW08-WGFD01LF-23Q4	10/11/2023	Field Duplicate	–		<1.9	U	–		–		–		–		–	
RHMW08	APPL	23J0132	RHMW08-WGN01LF-23Q4	10/11/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHMW08	Energy	B23101127	RHMW08-WGN01LF-23Q4	10/11/2023	Primary	–		–		–		–		–		–		–	
RHMW08	SGS Orlando	FC10442	RHMW08-WGN01LF-23Q4	10/11/2023	Primary	–		<1.9	U	–		–		<0.25	U	680	J-	–	
RHMW08	SGS Orlando	FC10572	RHMW08-WGN01LF-2310WK3-DF	10/18/2023	Primary	–		–		–		–		–		–		–	
RHMW08	SGS Orlando	FC10745	RHMW08-WGN01LF-2310WK4-DF	10/25/2023	Primary	–		–		–		–		–		–		–	
RHMW08	SGS Orlando	FC10911	RHMW08-WGN01LF-2310WK5-DF	11/1/2023	Primary	–		–		–		–		–		–		–	
RHMW08	SGS Orlando	FC11171	RHMW08-WGFD01LF-2311-DF	11/10/2023	Field Duplicate	–		<1.9	UJ	–		–		–		–		–	
RHMW08	ALS Kelso	K2312868	RHMW08-WGN01LF-2311-DF	11/10/2023	Primary	–		–		–		–		–		<500	U	<500	U
RHMW08	SGS Orlando	FC11171	RHMW08-WGN01LF-2311-DF	11/10/2023	Primary	–		<1.9	UJ	–		–		–		–		–	
RHMW08	SGS Orlando	FC11171B	RHMW08-WGN01LF-2311-DF	11/10/2023	Primary	–		–		–		–		<0.25	U	–		–	
RHMW08	SGS Orlando	FC11263	RHMW08-WGN01LF-2311WK2-DF	11/14/2023	Primary	–		–		–		–		–		–		–	
RHMW08	SGS Orlando	FC11419	RHMW08-WGN01LF-2311WK3-DF	11/20/2023	Primary	–		–		–		–		–		–		–	
RHMW08	SGS Orlando	FC11564	RHMW08-WGN01LF-2311WK4-DF	11/28/2023	Primary	–		–		–		–		–		–		–	
RHMW08	SGS Anchorage	1236588_EDMS	RHMW08-WGN01LF-2312-DF	12/4/2023	Primary	–		–		–		–		–		<750	U	<750	U
RHMW08	SGS Orlando	FC11688	RHMW08-WGN01LF-2312-DF	12/4/2023	Primary	–		<2	U	–		–		–		–		–	
RHMW08	SGS Orlando	FC11688B	RHMW08-WGN01LF-2312-DF	12/4/2023	Primary	–		–		–		–		0.31	J	–		–	
RHMW08	SGS Orlando	FC11893	RHMW08-WGN01LF-2312WK2-DF	12/11/2023	Primary	–		–		–		–		–		–		–	
RHMW08	SGS Orlando	FC12097	RHMW08-WGN01LF-2312WK3-DF	12/18/2023	Primary	–		–		–		–		–		–		–	
RHMW08	SGS Orlando	FC12235	RHMW08-WGN01LF-2312WK4-DF	12/26/2023	Primary	–		–		–		–		–		–		–	
RHMW08	SGS Orlando	FC12382	RHMW08-WGFD01LF-2401-DF	1/3/2024	Field Duplicate	–		<1.9	U	–		–		–		–		–	
RHMW08	SGS Anchorage	1240064_EDMS	RHMW08-WGN01LF-2401-DF	1/3/2024	Primary	–		–		–		–		–		828	J	824	J+
RHMW08	SGS Orlando	FC12382	RHMW08-WGN01LF-2401-DF	1/3/2024	Primary	–		<1.9	U	–		–		–		–		–	
RHMW08	SGS Orlando	FC12382B	RHMW08-WGN01LF-2401-DF	1/3/2024	Primary	–		–		–		–		0.41	J	–		–	
RHMW08	SGS Orlando	FC12452	RHMW08-WGN01LF-2401WK2-DF	1/8/2024	Primary	–		–		–		–		–		–		–	
RHMW08	SGS Orlando	FC12594	RHMW08-WGN01LF-2401WK3-DF	1/15/2024	Primary	–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHMW09

						Total Petroleum Hydrocarbons										Volatile Organic Compounds								Polycyclic Aromatic Hydrocarbons (PAHs) – AOC/LTM					
					Analyte	TPH-g		TPH-d [a]		TPH-o [a]		TPH-d with Silica Gel Cleanup [a]		TPH-o with Silica Gel Cleanup [a]		Benzene		Ethylbenzene		Toluene		Xylenes		1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene	
					CAS No.	PHCC6C10		PHCC10C24		PHCC24C40		PHCC10C24SGC		PHCC24C40SGC		71-43-2		100-41-4		108-88-3		1330-20-7		90-12-0		91-57-6		91-20-3	
					Method	8260		8015		8015		8015		8015		8260		8260		8260		8260		8270 SIM		8270 SIM		8270 SIM	
					DOH Tier 1 EAL	300		400		500		—		—		5		30		40		20		10		10		17	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		85.3		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW09	SGS Orlando	FC7026	RHMW09-WGN01LF-2306WK2	6/13/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U
RHMW09	ALS Kelso	K2310020	RHMW09-WGN01LF-2309	9/5/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	SGS Orlando	FC9377	RHMW09-WGN01LF-2309	9/5/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U
RHMW09	ALS Kelso	K2311474	RHMW09-WGN01LF-2310	10/5/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	SGS Orlando	FC10295	RHMW09-WGN01LF-2310	10/5/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	UJ	<0.4	UJ	<0.4	UJ
RHMW09	APPL	23J0131	RHMW09-WGN01LF-23Q4	10/12/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Energy	B23101113	RHMW09-WGN01LF-23Q4	10/12/2023	Primary	<8.5	U	<141	U	<141	U	–		–		<0.1	U	<0.1	U	<0.2	U	<0.1	U	–		–		–	
RHMW09	SGS Orlando	FC10448	RHMW09-WGN01LF-23Q4	10/12/2023	Primary	–		–		–		–		–		–		–		–		–		<0.4	UJ	<0.4	UJ	<0.4	UJ
RHMW09	APPL	23J0262	RHMW09-WGN01LF-2310WK4-DF	10/24/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	SGS Orlando	FC10716	RHMW09-WGN01LF-2310WK4-DF	10/24/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U
RHMW09	APPL	23J0325	RHMW09-WGN01LF-2310WK5-DF	10/30/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	SGS Orlando	FC10844	RHMW09-WGN01LF-2310WK5-DF	10/30/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW09	ALS Kelso	K2312628	RHMW09-WGN01LF-2311-DF	11/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	APPL	23K0041	RHMW09-WGN01LF-2311-DF	11/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	SGS Orlando	FC11019	RHMW09-WGN01LF-2311-DF	11/6/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW09	SGS Orlando	FC11019B	RHMW09-WGN01LF-2311-DF	11/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	APPL	23K0123	RHMW09-WGN01LF-2311WK2-DF	11/14/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	SGS Orlando	FC11263	RHMW09-WGN01LF-2311WK2-DF	11/14/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW09	APPL	23K0183	RHMW09-WGN01LF-2311WK3-DF	11/20/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	SGS Orlando	FC11419	RHMW09-WGN01LF-2311WK3-DF	11/20/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	UJ	<0.5	UJ	<0.5	UJ	<1.5	UJ	<0.42	UJ	<0.42	UJ	<0.42	U
RHMW09	APPL	23K0219	RHMW09-WGN01LF-2311WK4-DF	11/27/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	SGS Orlando	FC11512	RHMW09-WGN01LF-2311WK4-DF	11/27/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	UJ	<0.4	UJ	<0.4	U
RHMW09	APPL	23L0019	RHMW09-WGN01LF-2312-DF	12/4/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	SGS Anchorage	1236588_EDMS	RHMW09-WGN01LF-2312-DF	12/4/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	SGS Orlando	FC11688	RHMW09-WGN01LF-2312-DF	12/4/2023	Primary	<50	U	85.3	J	<170	U	<100	U	<170	U	<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	UJ	<0.42	UJ	<0.42	U
RHMW09	SGS Orlando	FC11688B	RHMW09-WGN01LF-2312-DF	12/4/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	APPL	23L0091	RHMW09-WGN01LF-2312WK2-DF	12/12/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	SGS Orlando	FC11937	RHMW09-WGN01LF-2312WK2-DF	12/12/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.38	UJ	<0.38	UJ	<0.38	U
RHMW09	APPL	23L0161	RHMW09-WGN01LF-2312WK3-DF	12/19/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	SGS Orlando	FC12136	RHMW09-WGN01LF-2312WK3-DF	12/19/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW09	APPL	23L0216	RHMW09-WGN01LF-2312WK4-DF	12/27/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	SGS Orlando	FC12258	RHMW09-WGN01LF-2312WK4-DF	12/27/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW09	APPL	24A0035	RHMW09-WGN01LF-2401-DF	1/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	SGS Anchorage	1240082_EDMS	RHMW09-WGN01LF-2401-DF	1/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	SGS Orlando	FC12403	RHMW09-WGN01LF-2401-DF	1/4/2024	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW09	SGS Orlando	FC12403B	RHMW09-WGN01LF-2401-DF	1/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	APPL	24A0057	RHMW09-WGN01LF-2401WK2-DF	1/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	SGS Orlando	FC12486	RHMW09-WGN01LF-2401WK2-DF	1/9/2024	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW09	APPL	24A0108	RHMW09-WGN01LF-2401WK3-DF	1/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	SGS Orlando	FC12611	RHMW09-WGN01LF-2401WK3-DF	1/16/2024	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	UJ	<0.4	UJ	<0.4	UJ

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHMW09

						Polycyclic Aromatic Hydrocarbons (PAHs)																													
					Analyte	Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)		Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)peryelene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
					CAS No.	83-32-9		208-96-8		120-12-7		56-55-3		50-32-8		205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
					Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
					DOH Tier 1 EAL	20		240		0.18		0.029		0.2		0.22		0.13		0.4		1		0.022		13		240		0.095		210		68	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW09	SGS Orlando	FC7026	RHMW09-WGN01LF-2306WK2	6/13/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHMW09	ALS Kelso	K2310020	RHMW09-WGN01LF-2309	9/5/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	SGS Orlando	FC9377	RHMW09-WGN01LF-2309	9/5/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	UJ	<0.04	UJ	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHMW09	ALS Kelso	K2311474	RHMW09-WGN01LF-2310	10/5/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	SGS Orlando	FC10295	RHMW09-WGN01LF-2310	10/5/2023	Primary	<0.4	UJ	<0.4	UJ	<0.4	UJ	<0.04	UJ	<0.04	UJ	<0.04	UJ	<0.04	UJ	<0.04	UJ	<0.08	UJ	<0.04	UJ	<0.4	UJ	<0.4	UJ	<0.04	UJ	<0.4	UJ	<0.4	UJ
RHMW09	APPL	23J0131	RHMW09-WGN01LF-23Q4	10/12/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Energy	B23101113	RHMW09-WGN01LF-23Q4	10/12/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	SGS Orlando	FC10448	RHMW09-WGN01LF-23Q4	10/12/2023	Primary	<0.4	UJ	<0.4	UJ	<0.4	UJ	<0.04	UJ	<0.04	UJ	<0.04	UJ	<0.04	UJ	<0.04	UJ	<0.08	UJ	<0.04	UJ	<0.4	UJ	<0.4	UJ	<0.04	UJ	<0.4	UJ	<0.4	UJ
RHMW09	APPL	23J0262	RHMW09-WGN01LF-2310WK4-DF	10/24/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	SGS Orlando	FC10716	RHMW09-WGN01LF-2310WK4-DF	10/24/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHMW09	APPL	23J0325	RHMW09-WGN01LF-2310WK5-DF	10/30/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	SGS Orlando	FC10844	RHMW09-WGN01LF-2310WK5-DF	10/30/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW09	ALS Kelso	K2312628	RHMW09-WGN01LF-2311-DF	11/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	APPL	23K0041	RHMW09-WGN01LF-2311-DF	11/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	SGS Orlando	FC11019	RHMW09-WGN01LF-2311-DF	11/6/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW09	SGS Orlando	FC11019B	RHMW09-WGN01LF-2311-DF	11/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	APPL	23K0123	RHMW09-WGN01LF-2311WK2-DF	11/14/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	SGS Orlando	FC11263	RHMW09-WGN01LF-2311WK2-DF	11/14/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW09	APPL	23K0183	RHMW09-WGN01LF-2311WK3-DF	11/20/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	SGS Orlando	FC11419	RHMW09-WGN01LF-2311WK3-DF	11/20/2023	Primary	<0.42	UJ	<0.42	UJ	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	UJ	<0.042	U	<0.42	UJ	<0.42	U
RHMW09	APPL	23K0219	RHMW09-WGN01LF-2311WK4-DF	11/27/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	SGS Orlando	FC11512	RHMW09-WGN01LF-2311WK4-DF	11/27/2023	Primary	<0.4	UJ	<0.4	UJ	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	UJ	<0.4	UJ	<0.04	U	<0.4	UJ	<0.4	U
RHMW09	APPL	23L0019	RHMW09-WGN01LF-2312-DF	12/4/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	SGS Anchorage	1236588_EDMS	RHMW09-WGN01LF-2312-DF	12/4/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	SGS Orlando	FC11688	RHMW09-WGN01LF-2312-DF	12/4/2023	Primary	<0.42	UJ	<0.42	UJ	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	UJ	<0.042	U	<0.42	UJ	<0.42	U
RHMW09	SGS Orlando	FC11688B	RHMW09-WGN01LF-2312-DF	12/4/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	APPL	23L0091	RHMW09-WGN01LF-2312WK2-DF	12/12/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	SGS Orlando	FC11937	RHMW09-WGN01LF-2312WK2-DF	12/12/2023	Primary	<0.38	UJ	<0.38	UJ	<0.38	U	<0.038	U	<0.038	U	<0.038	U	<0.038	U	<0.038	U	<0.077	U	<0.038	U	<0.38	UJ	<0.38	UJ	<0.038	U	<0.38	UJ	<0.38	U
RHMW09	APPL	23L0161	RHMW09-WGN01LF-2312WK3-DF	12/19/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	SGS Orlando	FC12136	RHMW09-WGN01LF-2312WK3-DF	12/19/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW09	APPL	23L0216	RHMW09-WGN01LF-2312WK4-DF	12/27/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	SGS Orlando	FC12258	RHMW09-WGN01LF-2312WK4-DF	12/27/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW09	APPL	24A0035	RHMW09-WGN01LF-2401-DF	1/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	SGS Anchorage	1240082_EDMS	RHMW09-WGN01LF-2401-DF	1/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	SGS Orlando	FC12403	RHMW09-WGN01LF-2401-DF	1/4/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW09	SGS Orlando	FC12403B	RHMW09-WGN01LF-2401-DF	1/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	APPL	24A0057	RHMW09-WGN01LF-2401WK2-DF	1/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	SGS Orlando	FC12486	RHMW09-WGN01LF-2401WK2-DF	1/9/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW09	APPL	24A0108	RHMW09-WGN01LF-2401WK3-DF	1/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	SGS Orlando	FC12611	RHMW09-WGN01LF-2401WK3-DF	1/16/2024	Primary	<0.4	UJ	<0.4	UJ	<0.4	UJ	<0.04	UJ	<0.04	UJ	<0.04	UJ	<0.04	UJ	<0.04	UJ	<0.08	UJ	<0.04	UJ	<0.4	UJ	<0.4	UJ	<0.04	UJ	<0.4	UJ	<0.4	UJ

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHMW09

						Fuel Additive				Lead Scavengers				Natural Attenuation Parameters					
					Analyte	2-(2- Methoxyethoxy)-ethanol [b]		Phenol		1,2-Dibromoethane		1,2-Dichloroethane		Methane		Total Organic Carbon		NV Dissolved Organic Carbon	
					CAS No.	111-77-3		108-95-2		106-93-4		107-06-2		74-82-8		TOC		—	
					Method	8270D		SW8270		8011		8260		RSK 175		9060		9060	
					DOH Tier 1 EAL	800		300		0.04		5		—		—		—	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		ND		1.8		1110		2640	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result	
RHMW09	SGS Orlando	FC7026	RHMW09-WGN01LF-2306WK2	6/13/2023	Primary	–		<1.9	U	–		–		<0.25	U	–		–	
RHMW09	ALS Kelso	K2310020	RHMW09-WGN01LF-2309	9/5/2023	Primary	–		–		–		–		–		<500	U	1500	
RHMW09	SGS Orlando	FC9377	RHMW09-WGN01LF-2309	9/5/2023	Primary	–		<2	U	–		–		<0.25	U	–		–	
RHMW09	ALS Kelso	K2311474	RHMW09-WGN01LF-2310	10/5/2023	Primary	–		–		–		–		–		<500	U	<500	U
RHMW09	SGS Orlando	FC10295	RHMW09-WGN01LF-2310	10/5/2023	Primary	–		<1.9	U	–		–		<0.25	U	–		–	
RHMW09	APPL	23J0131	RHMW09-WGN01LF-23Q4	10/12/2023	Primary	–	R	–		–		–		–		–		–	
RHMW09	Energy	B23101113	RHMW09-WGN01LF-23Q4	10/12/2023	Primary	–		–		–		–		–		–		–	
RHMW09	SGS Orlando	FC10448	RHMW09-WGN01LF-23Q4	10/12/2023	Primary	–		<1.9	U	–		–		<0.25	U	<1000	U	–	
RHMW09	APPL	23J0262	RHMW09-WGN01LF-2310WK4-DF	10/24/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHMW09	SGS Orlando	FC10716	RHMW09-WGN01LF-2310WK4-DF	10/24/2023	Primary	–		<1.9	U	<0.014	U	<0.5	U	–		–		–	
RHMW09	APPL	23J0325	RHMW09-WGN01LF-2310WK5-DF	10/30/2023	Primary	<80	U	–		–		–		–		–		–	
RHMW09	SGS Orlando	FC10844	RHMW09-WGN01LF-2310WK5-DF	10/30/2023	Primary	–		<1.9	U	<0.014	U	<0.5	U	–		–		–	
RHMW09	ALS Kelso	K2312628	RHMW09-WGN01LF-2311-DF	11/6/2023	Primary	–		–		–		–		–		<500	U	<500	U
RHMW09	APPL	23K0041	RHMW09-WGN01LF-2311-DF	11/6/2023	Primary	<80	U	–		–		–		–		–		–	
RHMW09	SGS Orlando	FC11019	RHMW09-WGN01LF-2311-DF	11/6/2023	Primary	–		<1.9	U	<0.014	U	<0.5	U	–		–		–	
RHMW09	SGS Orlando	FC11019B	RHMW09-WGN01LF-2311-DF	11/6/2023	Primary	–		–		–		–		1.8		–		–	
RHMW09	APPL	23K0123	RHMW09-WGN01LF-2311WK2-DF	11/14/2023	Primary	<80	U	–		–		–		–		–		–	
RHMW09	SGS Orlando	FC11263	RHMW09-WGN01LF-2311WK2-DF	11/14/2023	Primary	–		<1.9	U	<0.014	U	<0.5	U	–		–		–	
RHMW09	APPL	23K0183	RHMW09-WGN01LF-2311WK3-DF	11/20/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHMW09	SGS Orlando	FC11419	RHMW09-WGN01LF-2311WK3-DF	11/20/2023	Primary	–		<1.9	U	<0.014	U	<0.5	UJ	–		–		–	
RHMW09	APPL	23K0219	RHMW09-WGN01LF-2311WK4-DF	11/27/2023	Primary	<80	U	–		–		–		–		–		–	
RHMW09	SGS Orlando	FC11512	RHMW09-WGN01LF-2311WK4-DF	11/27/2023	Primary	–		<2	U	<0.015	U	<0.5	U	–		–		–	
RHMW09	APPL	23L0019	RHMW09-WGN01LF-2312-DF	12/4/2023	Primary	<80	U	–		–		–		–		–		–	
RHMW09	SGS Anchorage	1236588_EDMS	RHMW09-WGN01LF-2312-DF	12/4/2023	Primary	–		–		–		–		–		1110	J+	2640	
RHMW09	SGS Orlando	FC11688	RHMW09-WGN01LF-2312-DF	12/4/2023	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	
RHMW09	SGS Orlando	FC11688B	RHMW09-WGN01LF-2312-DF	12/4/2023	Primary	–		–		–		–		<0.25	U	–		–	
RHMW09	APPL	23L0091	RHMW09-WGN01LF-2312WK2-DF	12/12/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHMW09	SGS Orlando	FC11937	RHMW09-WGN01LF-2312WK2-DF	12/12/2023	Primary	–		<2	U	<0.015	U	<0.5	U	–		–		–	
RHMW09	APPL	23L0161	RHMW09-WGN01LF-2312WK3-DF	12/19/2023	Primary	<80	U	–		–		–		–		–		–	
RHMW09	SGS Orlando	FC12136	RHMW09-WGN01LF-2312WK3-DF	12/19/2023	Primary	–		<1.9	U	<0.014	U	<0.5	U	–		–		–	
RHMW09	APPL	23L0216	RHMW09-WGN01LF-2312WK4-DF	12/27/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHMW09	SGS Orlando	FC12258	RHMW09-WGN01LF-2312WK4-DF	12/27/2023	Primary	–		<2	U	<0.015	U	<0.5	U	–		–		–	
RHMW09	APPL	24A0035	RHMW09-WGN01LF-2401-DF	1/4/2024	Primary	<80	UJ	–		–		–		–		–		–	
RHMW09	SGS Anchorage	1240082_EDMS	RHMW09-WGN01LF-2401-DF	1/4/2024	Primary	–		–		–		–		–		<750	U	<750	U
RHMW09	SGS Orlando	FC12403	RHMW09-WGN01LF-2401-DF	1/4/2024	Primary	–		<2	U	<0.015	U	<0.5	U	–		–		–	
RHMW09	SGS Orlando	FC12403B	RHMW09-WGN01LF-2401-DF	1/4/2024	Primary	–		–		–		–		<0.25	U	–		–	
RHMW09	APPL	24A0057	RHMW09-WGN01LF-2401WK2-DF	1/9/2024	Primary	<80	UJ	–		–		–		–		–		–	
RHMW09	SGS Orlando	FC12486	RHMW09-WGN01LF-2401WK2-DF	1/9/2024	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	
RHMW09	APPL	24A0108	RHMW09-WGN01LF-2401WK3-DF	1/16/2024	Primary	<80	UJ	–		–		–		–		–		–	
RHMW09	SGS Orlando	FC12611	RHMW09-WGN01LF-2401WK3-DF	1/16/2024	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHMW10

						Total Petroleum Hydrocarbons												Volatile Organic Compounds												Polycyclic Aromatic Hydrocarbons (PAHs) – AOC/LTM					
					Analyte	TPH-g		TPH-d [a]		TPH-o [a]		TPH-d with Silica Gel Cleanup [a]		TPH-o with Silica Gel Cleanup [a]		Benzene		Ethylbenzene		Toluene		Xylenes		1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene	
					CAS No.	PHCC6C10		PHCC10C24		PHCC24C40		PHCC10C24SGC		PHCC24C40SGC		71-43-2		100-41-4		108-88-3		1330-20-7		90-12-0		91-57-6		91-20-3	
					Method	8260		8015		8015		8015		8015		8260		8260		8260		8260		8270 SIM		8270 SIM		8270 SIM	
					DOH Tier 1 EAL	300		400		500		—		—		5		30		40		20		10		10		17	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		–		–		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		–		–		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW10	SGS Orlando	FC7026	RHMW10-WGN01LF-2306WK2	6/14/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U
RHMW10	ALS Kelso	K2310020	RHMW10-WGN01LF-2309	9/5/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW10	SGS Orlando	FC9377	RHMW10-WGN01LF-2309	9/5/2023	Primary	<50	U	<100	UJ	<160	UJ	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U
RHMW10	ALS Kelso	K2311474	RHMW10-WGN01LF-2310	10/5/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW10	SGS Orlando	FC10295	RHMW10-WGN01LF-2310	10/5/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.38	UJ	<0.38	UJ	<0.38	UJ
RHMW10	APPL	23J0116	RHMW10-WGFD01LF-23Q4	10/10/2023	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW10	Energy	B23100868	RHMW10-WGFD01LF-23Q4	10/10/2023	Field Duplicate	<8.5	U	<141	U	<141	U	–		–		<0.1	U	<0.1	U	<0.2	U	<0.1	U	–		–		–	
RHMW10	SGS Orlando	FC10364	RHMW10-WGFD01LF-23Q4	10/10/2023	Field Duplicate	–		–		–		–		–		–		–		–		–		<0.4	U	<0.4	U	<0.4	U
RHMW10	APPL	23J0116	RHMW10-WGN01LF-23Q4	10/10/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW10	Energy	B23100868	RHMW10-WGN01LF-23Q4	10/10/2023	Primary	<8.5	U	<145	U	<145	U	–		–		<0.1	U	<0.1	U	<0.2	U	<0.1	U	–		–		–	
RHMW10	SGS Orlando	FC10364	RHMW10-WGN01LF-23Q4	10/10/2023	Primary	–		–		–		–		–		–		–		–		–		<0.4	U	<0.4	U	<0.4	U
RHMW10	APPL	23J0296	RHMW10-WGN01LF-2310WK4-DF	10/26/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW10	SGS Orlando	FC10788	RHMW10-WGN01LF-2310WK4-DF	10/26/2023	Primary	<50	U	<96	U	<150	U	–		–		<0.5	UJ	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U
RHMW10	APPL	23K0001	RHMW10-WGN01LF-2310WK5-DF	10/31/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW10	SGS Orlando	FC10882	RHMW10-WGN01LF-2310WK5-DF	10/31/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW10	ALS Kelso	K2312868	RHMW10-WGN01LF-2311-DF	11/10/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW10	APPL	23K0088	RHMW10-WGN01LF-2311-DF	11/10/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW10	SGS Orlando	FC11171	RHMW10-WGN01LF-2311-DF	11/10/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	UJ	<0.42	U
RHMW10	SGS Orlando	FC11171B	RHMW10-WGN01LF-2311-DF	11/10/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW10	APPL	23K0106	RHMW10-WGN01LF-2311WK2-DF	11/13/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW10	SGS Orlando	FC11221	RHMW10-WGN01LF-2311WK2-DF	11/13/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW10	APPL	23K0205	RHMW10-WGN01LF-2311WK3-DF	11/21/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW10	SGS Orlando	FC11473	RHMW10-WGN01LF-2311WK3-DF	11/21/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	UJ	<0.42	UJ	<0.42	U
RHMW10	APPL	23K0236	RHMW10-WGN01LF-2311WK4-DF	11/29/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW10	SGS Orlando	FC11596	RHMW10-WGN01LF-2311WK4-DF	11/29/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	UJ	<0.42	UJ	<0.42	U
RHMW10	APPL	23L0027	RHMW10-WGN01LF-2312-DF	12/5/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW10	SGS Anchorage	1236605_EDMS	RHMW10-WGN01LF-2312-DF	12/5/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW10	SGS Orlando	FC11717	RHMW10-WGN01LF-2312-DF	12/5/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	UJ	<0.4	UJ	<0.4	U
RHMW10	SGS Orlando	FC11717B	RHMW10-WGN01LF-2312-DF	12/5/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW10	APPL	23L0108	RHMW10-WGN01LF-2312WK2-DF	12/13/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW10	SGS Orlando	FC11982	RHMW10-WGN01LF-2312WK2-DF	12/13/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.38	UJ	<0.38	UJ	<0.38	U
RHMW10	SGS Orlando	FC11982A	RHMW10-WGN01LF-2312WK2-DF	12/13/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW10	APPL	23L0179	RHMW10-WGN01LF-2312WK3-DF	12/20/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW10	SGS Orlando	FC12167	RHMW10-WGN01LF-2312WK3-DF	12/20/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW10	APPL	23L0220	RHMW10-WGN01LF-2312WK4-DF	12/28/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW10	SGS Orlando	FC12289	RHMW10-WGN01LF-2312WK4-DF	12/28/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW10	APPL	24A0008	RHMW10-WGN01LF-2401-DF	1/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW10	SGS Anchorage	1240028_EDMS	RHMW10-WGN01LF-2401-DF	1/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW10	SGS Orlando	FC12338	RHMW10-WGN01LF-2401-DF	1/2/2024	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW10	SGS Orlando	FC12338B	RHMW10-WGN01LF-2401-DF	1/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW10	APPL	24A0066	RHMW10-WGN01LF-2401WK2-DF	1/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW10	SGS Orlando	FC12522	RHMW10-WGN01LF-2401WK2-DF	1/10/2024	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW10	APPL	24A0125	RHMW10-WGN01LF-2401WK3-DF	1/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW10	SGS Orlando	FC12661	RHMW10-WGN01LF-2401WK3-DF	1/17/2024	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.38	U	<0.38	U	<0.38	U

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHMW10

						Polycyclic Aromatic Hydrocarbons (PAHs)																													
					Analyte	Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)		Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)peryelene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
					CAS No.	83-32-9		208-96-8		120-12-7		56-55-3		50-32-8		205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
					Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
					DOH Tier 1 EAL	20		240		0.18		0.029		0.2		0.22		0.13		0.4		1		0.022		13		240		0.095		210		68	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW10	SGS Orlando	FC7026	RHMW10-WGN01LF-2306WK2	6/14/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHMW10	ALS Kelso	K2310020	RHMW10-WGN01LF-2309	9/5/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW10	SGS Orlando	FC9377	RHMW10-WGN01LF-2309	9/5/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	UJ	<0.04	UJ	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHMW10	ALS Kelso	K2311474	RHMW10-WGN01LF-2310	10/5/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW10	SGS Orlando	FC10295	RHMW10-WGN01LF-2310	10/5/2023	Primary	<0.38	UJ	<0.38	UJ	<0.38	UJ	<0.038	UJ	<0.038	UJ	<0.038	UJ	<0.038	UJ	<0.038	UJ	<0.077	UJ	<0.038	UJ	<0.38	UJ	<0.38	UJ	<0.038	UJ	<0.38	UJ	<0.38	UJ
RHMW10	APPL	23J0116	RHMW10-WGFD01LF-23Q4	10/10/2023	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW10	Energy	B23100868	RHMW10-WGFD01LF-23Q4	10/10/2023	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW10	SGS Orlando	FC10364	RHMW10-WGFD01LF-23Q4	10/10/2023	Field Duplicate	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHMW10	APPL	23J0116	RHMW10-WGN01LF-23Q4	10/10/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW10	Energy	B23100868	RHMW10-WGN01LF-23Q4	10/10/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW10	SGS Orlando	FC10364	RHMW10-WGN01LF-23Q4	10/10/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHMW10	APPL	23J0296	RHMW10-WGN01LF-2310WK4-DF	10/26/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW10	SGS Orlando	FC10788	RHMW10-WGN01LF-2310WK4-DF	10/26/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHMW10	APPL	23K0001	RHMW10-WGN01LF-2310WK5-DF	10/31/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW10	SGS Orlando	FC10882	RHMW10-WGN01LF-2310WK5-DF	10/31/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW10	ALS Kelso	K2312868	RHMW10-WGN01LF-2311-DF	11/10/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW10	APPL	23K0088	RHMW10-WGN01LF-2311-DF	11/10/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW10	SGS Orlando	FC11171	RHMW10-WGN01LF-2311-DF	11/10/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW10	SGS Orlando	FC11171B	RHMW10-WGN01LF-2311-DF	11/10/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW10	APPL	23K0106	RHMW10-WGN01LF-2311WK2-DF	11/13/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW10	SGS Orlando	FC11221	RHMW10-WGN01LF-2311WK2-DF	11/13/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	UJ	<0.42	U	<0.42	U
RHMW10	APPL	23K0205	RHMW10-WGN01LF-2311WK3-DF	11/21/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW10	SGS Orlando	FC11473	RHMW10-WGN01LF-2311WK3-DF	11/21/2023	Primary	<0.42	UJ	<0.42	UJ	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	UJ	<0.042	U	<0.42	UJ	<0.42	U
RHMW10	APPL	23K0236	RHMW10-WGN01LF-2311WK4-DF	11/29/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW10	SGS Orlando	FC11596	RHMW10-WGN01LF-2311WK4-DF	11/29/2023	Primary	<0.42	UJ	<0.42	UJ	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	UJ	<0.042	U	<0.42	UJ	<0.42	U
RHMW10	APPL	23L0027	RHMW10-WGN01LF-2312-DF	12/5/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW10	SGS Anchorage	1236605_EDMS	RHMW10-WGN01LF-2312-DF	12/5/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW10	SGS Orlando	FC11717	RHMW10-WGN01LF-2312-DF	12/5/2023	Primary	<0.4	UJ	<0.4	UJ	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	UJ	<0.4	UJ	<0.04	U	<0.4	UJ	<0.4	U
RHMW10	SGS Orlando	FC11717B	RHMW10-WGN01LF-2312-DF	12/5/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW10	APPL	23L0108	RHMW10-WGN01LF-2312WK2-DF	12/13/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW10	SGS Orlando	FC11982	RHMW10-WGN01LF-2312WK2-DF	12/13/2023	Primary	<0.38	UJ	<0.38	UJ	<0.38	U	<0.038	U	<0.038	U	<0.038	U	<0.038	U	<0.038	U	<0.077	U	<0.038	U	<0.38	UJ	<0.38	UJ	<0.038	U	<0.38	UJ	<0.38	U
RHMW10	SGS Orlando	FC11982A	RHMW10-WGN01LF-2312WK2-DF	12/13/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW10	APPL	23L0179	RHMW10-WGN01LF-2312WK3-DF	12/20/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW10	SGS Orlando	FC12167	RHMW10-WGN01LF-2312WK3-DF	12/20/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW10	APPL	23L0220	RHMW10-WGN01LF-2312WK4-DF	12/28/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW10	SGS Orlando	FC12289	RHMW10-WGN01LF-2312WK4-DF	12/28/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW10	APPL	24A0008	RHMW10-WGN01LF-2401-DF	1/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW10	SGS Anchorage	1240028_EDMS	RHMW10-WGN01LF-2401-DF	1/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW10	SGS Orlando	FC12338	RHMW10-WGN01LF-2401-DF	1/2/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW10	SGS Orlando	FC12338B	RHMW10-WGN01LF-2401-DF	1/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW10	APPL	24A0066	RHMW10-WGN01LF-2401WK2-DF	1/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW10	SGS Orlando	FC12522	RHMW10-WGN01LF-2401WK2-DF	1/10/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW10	APPL	24A0125	RHMW10-WGN01LF-2401WK3-DF	1/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW10	SGS Orlando	FC12661	RHMW10-WGN01LF-2401WK3-DF	1/17/2024	Primary	<0.38	U	<0.38	U	<0.38	U	<0.038	U	<0.038	U	<0.038	U	<0.038	U	<0.038	U	<0.077	U	<0.038	U	<0.38	U	<0.38	U	<0.038	U	<0.38	U	<0.38	U

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHMW10

						Fuel Additive				Lead Scavengers				Natural Attenuation Parameters					
					Analyte	2-(2- Methoxyethoxy)-ethanol [b]		Phenol		1,2-Dibromoethane		1,2-Dichloroethane		Methane		Total Organic Carbon		NV Dissolved Organic Carbon	
					CAS No.	111-77-3		108-95-2		106-93-4		107-06-2		74-82-8		TOC		—	
					Method	8270D		SW8270		8011		8260		RSK 175		9060		9060	
					DOH Tier 1 EAL	800		300		0.04		5		—		—		—	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		ND		ND		500		2300	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result	
RHMW10	SGS Orlando	FC7026	RHMW10-WGN01LF-2306WK2	6/14/2023	Primary	–		<2	U	–		–		<0.25	U	–		–	
RHMW10	ALS Kelso	K2310020	RHMW10-WGN01LF-2309	9/5/2023	Primary	–		–		–		–		–		<500	U	1500	
RHMW10	SGS Orlando	FC9377	RHMW10-WGN01LF-2309	9/5/2023	Primary	–		<2	U	–		–		<0.25	U	–		–	
RHMW10	ALS Kelso	K2311474	RHMW10-WGN01LF-2310	10/5/2023	Primary	–		–		–		–		–		<500	U	800	
RHMW10	SGS Orlando	FC10295	RHMW10-WGN01LF-2310	10/5/2023	Primary	–		<1.9	U	–		–		<0.25	U	–		–	
RHMW10	APPL	23J0116	RHMW10-WGFD01LF-23Q4	10/10/2023	Field Duplicate	<80	UJ	–		–		–		–		–		–	
RHMW10	Energy	B23100868	RHMW10-WGFD01LF-23Q4	10/10/2023	Field Duplicate	–		–		–		–		–		–		–	
RHMW10	SGS Orlando	FC10364	RHMW10-WGFD01LF-23Q4	10/10/2023	Field Duplicate	–		<1.9	U	–		–		–		–		–	
RHMW10	APPL	23J0116	RHMW10-WGN01LF-23Q4	10/10/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHMW10	Energy	B23100868	RHMW10-WGN01LF-23Q4	10/10/2023	Primary	–		–		–		–		–		–		–	
RHMW10	SGS Orlando	FC10364	RHMW10-WGN01LF-23Q4	10/10/2023	Primary	–		<1.9	U	–		–		<0.25	U	<1000	U	–	
RHMW10	APPL	23J0296	RHMW10-WGN01LF-2310WK4-DF	10/26/2023	Primary	<80	U	–		–		–		–		–		–	
RHMW10	SGS Orlando	FC10788	RHMW10-WGN01LF-2310WK4-DF	10/26/2023	Primary	–		<1.9	U	<0.014	U	<0.5	U	–		–		–	
RHMW10	APPL	23K0001	RHMW10-WGN01LF-2310WK5-DF	10/31/2023	Primary	<80	U	–		–		–		–		–		–	
RHMW10	SGS Orlando	FC10882	RHMW10-WGN01LF-2310WK5-DF	10/31/2023	Primary	–		<1.9	U	<0.014	U	<0.5	U	–		–		–	
RHMW10	ALS Kelso	K2312868	RHMW10-WGN01LF-2311-DF	11/10/2023	Primary	–		–		–		–		–		500		2300	J
RHMW10	APPL	23K0088	RHMW10-WGN01LF-2311-DF	11/10/2023	Primary	<80	U	–		–		–		–		–		–	
RHMW10	SGS Orlando	FC11171	RHMW10-WGN01LF-2311-DF	11/10/2023	Primary	–		<1.9	UJ	<0.014	U	<0.5	U	–		–		–	
RHMW10	SGS Orlando	FC11171B	RHMW10-WGN01LF-2311-DF	11/10/2023	Primary	–		–		–		–		<0.25	U	–		–	
RHMW10	APPL	23K0106	RHMW10-WGN01LF-2311WK2-DF	11/13/2023	Primary	<80	U	–		–		–		–		–		–	
RHMW10	SGS Orlando	FC11221	RHMW10-WGN01LF-2311WK2-DF	11/13/2023	Primary	–		<1.9	UJ	<0.014	U	<0.5	U	–		–		–	
RHMW10	APPL	23K0205	RHMW10-WGN01LF-2311WK3-DF	11/21/2023	Primary	<80	U	–		–		–		–		–		–	
RHMW10	SGS Orlando	FC11473	RHMW10-WGN01LF-2311WK3-DF	11/21/2023	Primary	–		<1.9	U	<0.014	U	<0.5	U	–		–		–	
RHMW10	APPL	23K0236	RHMW10-WGN01LF-2311WK4-DF	11/29/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHMW10	SGS Orlando	FC11596	RHMW10-WGN01LF-2311WK4-DF	11/29/2023	Primary	–		<2	U	<0.015	U	<0.5	U	–		–		–	
RHMW10	APPL	23L0027	RHMW10-WGN01LF-2312-DF	12/5/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHMW10	SGS Anchorage	1236605_EDMS	RHMW10-WGN01LF-2312-DF	12/5/2023	Primary	–		–		–		–		–		<750	U	<750	U
RHMW10	SGS Orlando	FC11717	RHMW10-WGN01LF-2312-DF	12/5/2023	Primary	–		<1.9	U	<0.014	U	<0.5	U	–		–		–	
RHMW10	SGS Orlando	FC11717B	RHMW10-WGN01LF-2312-DF	12/5/2023	Primary	–		–		–		–		<0.25	U	–		–	
RHMW10	APPL	23L0108	RHMW10-WGN01LF-2312WK2-DF	12/13/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHMW10	SGS Orlando	FC11982	RHMW10-WGN01LF-2312WK2-DF	12/13/2023	Primary	–		<1.9	U	–		<0.5	U	–		–		–	
RHMW10	SGS Orlando	FC11982A	RHMW10-WGN01LF-2312WK2-DF	12/13/2023	Primary	–		–		<0.015	U	–		–		–		–	
RHMW10	APPL	23L0179	RHMW10-WGN01LF-2312WK3-DF	12/20/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHMW10	SGS Orlando	FC12167	RHMW10-WGN01LF-2312WK3-DF	12/20/2023	Primary	–		<1.9	U	<0.014	U	<0.5	U	–		–		–	
RHMW10	APPL	23L0220	RHMW10-WGN01LF-2312WK4-DF	12/28/2023	Primary	<80	U	–		–		–		–		–		–	
RHMW10	SGS Orlando	FC12289	RHMW10-WGN01LF-2312WK4-DF	12/28/2023	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	
RHMW10	APPL	24A0008	RHMW10-WGN01LF-2401-DF	1/2/2024	Primary	<80	UJ	–		–		–		–		–		–	
RHMW10	SGS Anchorage	1240028_EDMS	RHMW10-WGN01LF-2401-DF	1/2/2024	Primary	–		–		–		–		–		<750	U	<750	U
RHMW10	SGS Orlando	FC12338	RHMW10-WGN01LF-2401-DF	1/2/2024	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	
RHMW10	SGS Orlando	FC12338B	RHMW10-WGN01LF-2401-DF	1/2/2024	Primary	–		–		–		–		<0.25	U	–		–	
RHMW10	APPL	24A0066	RHMW10-WGN01LF-2401WK2-DF	1/10/2024	Primary	<80	UJ	–		–		–		–		–		–	
RHMW10	SGS Orlando	FC12522	RHMW10-WGN01LF-2401WK2-DF	1/10/2024	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	
RHMW10	APPL	24A0125	RHMW10-WGN01LF-2401WK3-DF	1/17/2024	Primary	<80	UJ	–		–		–		–		–		–	
RHMW10	SGS Orlando	FC12661	RHMW10-WGN01LF-2401WK3-DF	1/17/2024	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHMW11-05

							Total Petroleum Hydrocarbons										Volatile Organic Compounds										Polycyclic Aromatic Hydrocarbons (PAHs) – AOC/LTM					
						Analyte	TPH-g		TPH-d [a]		TPH-o [a]		TPH-d with Silica Gel Cleanup [a]		TPH-o with Silica Gel Cleanup [a]		Benzene		Ethylbenzene		Toluene		Xylenes		1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene	
						CAS No.	PHCC6C10		PHCC10C24		PHCC24C40		PHCC10C24SGC		PHCC24C40SGC		71-43-2		100-41-4		108-88-3		1330-20-7		90-12-0		91-57-6		91-20-3	
						Method	8260		8015		8015		8015		8015		8260		8260		8260		8260		8270 SIM		8270 SIM		8270 SIM	
						DOH Tier 1 EAL	300		400		500		—		—		5		30		40		20		10		10		17	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum	ND		ND		ND		–		–		ND		ND		ND		ND		ND		ND		ND	
						Maximum	42.5		ND		ND		–		–		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW11-05	ALS Kelso	K2311233	RHMW11-05-WGN01G-2310	10/2/2023	Primary		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	SGS Orlando	FC10202	RHMW11-05-WGN01G-2310	10/2/2023	Primary		<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.43	UJ	<0.43	UJ
RHMW11-05	APPL	23J0095	RHMW11-05-WGN01G-23Q4	10/9/2023	Primary		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Energy	B23100868	RHMW11-05-WGN01G-23Q4	10/9/2023	Primary		3.26	J	<143	U	<143	U	–		–		<0.1	U	<0.1	U	<0.2	U	<0.1	U	–		–		–	
RHMW11-05	SGS Orlando	FC10364	RHMW11-05-WGN01G-23Q4	10/9/2023	Primary		–		–		–		–		–		–		–		–		–		<0.4	U	<0.4	U	<0.4	U
RHMW11-05	APPL	23J0262	RHMW11-05-WGN01G-2310WK4-DF	10/24/2023	Primary		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	SGS Orlando	FC10716	RHMW11-05-WGN01G-2310WK4-DF	10/24/2023	Primary		<50	U	<110	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW11-05	APPL	23J0325	RHMW11-05-WGN01G-2310WK5-DF	10/30/2023	Primary		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	SGS Orlando	FC10844	RHMW11-05-WGN01G-2310WK5-DF	10/30/2023	Primary		<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW11-05	ALS Kelso	K2312628	RHMW11-05-WGN01G-2311-DF	11/6/2023	Primary		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	APPL	23K0041	RHMW11-05-WGN01G-2311-DF	11/6/2023	Primary		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	SGS Orlando	FC11019	RHMW11-05-WGN01G-2311-DF	11/6/2023	Primary		<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW11-05	SGS Orlando	FC11019B	RHMW11-05-WGN01G-2311-DF	11/6/2023	Primary		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	APPL	23K0134	RHMW11-05-WGN01G-2311WK2-DF	11/15/2023	Primary		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	SGS Orlando	FC11293	RHMW11-05-WGN01G-2311WK2-DF	11/15/2023	Primary		<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW11-05	APPL	23K0214	RHMW11-05-WGN01G-2311WK3-DF	11/22/2023	Primary		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	SGS Orlando	FC11474	RHMW11-05-WGN01G-2311WK3-DF	11/22/2023	Primary		<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	UJ	<0.42	UJ	<0.42	U
RHMW11-05	APPL	23K0219	RHMW11-05-WGN01G-2311WK4-DF	11/27/2023	Primary		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	SGS Orlando	FC11512	RHMW11-05-WGN01G-2311WK4-DF	11/27/2023	Primary		<50	U	<96	U	<150	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.43	UJ	<0.43	UJ	<0.43	U
RHMW11-05	APPL	23L0019	RHMW11-05-WGN01G-2312-DF	12/4/2023	Primary		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	SGS Anchorage	1236588_EDMS	RHMW11-05-WGN01G-2312-DF	12/4/2023	Primary		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	SGS Orlando	FC11688	RHMW11-05-WGN01G-2312-DF	12/4/2023	Primary		<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	UJ	<0.42	UJ	<0.42	U
RHMW11-05	SGS Orlando	FC11688B	RHMW11-05-WGN01G-2312-DF	12/4/2023	Primary		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	APPL	23L0108	RHMW11-05-WGN01G-2312WK2-DF	12/13/2023	Primary		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	SGS Orlando	FC11982	RHMW11-05-WGN01G-2312WK2-DF	12/13/2023	Primary		42.5	J	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	UJ	<0.4	UJ	<0.4	U
RHMW11-05	SGS Orlando	FC11982A	RHMW11-05-WGN01G-2312WK2-DF	12/13/2023	Primary		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	APPL	23L0179	RHMW11-05-WGN01G-2312WK3-DF	12/20/2023	Primary		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	SGS Orlando	FC12167	RHMW11-05-WGN01G-2312WK3-DF	12/20/2023	Primary		<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW11-05	APPL	23L0220	RHMW11-05-WGN01G-2312WK4-DF	12/28/2023	Primary		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	SGS Orlando	FC12289	RHMW11-05-WGN01G-2312WK4-DF	12/28/2023	Primary		<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW11-05	APPL	24A0035	RHMW11-05-WGN01G-2401-DF	1/4/2024	Primary		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	SGS Anchorage	1240082_EDMS	RHMW11-05-WGN01G-2401-DF	1/4/2024	Primary		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	SGS Orlando	FC12403	RHMW11-05-WGN01G-2401-DF	1/4/2024	Primary		<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW11-05	SGS Orlando	FC12403B	RHMW11-05-WGN01G-2401-DF	1/4/2024	Primary		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	APPL	24A0066	RHMW11-05-WGN01G-2401WK2-DF	1/10/2024	Primary		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	SGS Orlando	FC12522	RHMW11-05-WGN01G-2401WK2-DF	1/10/2024	Primary		<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW11-05	APPL	24A0114	RHMW11-05-WGN01G-2401WK3-DF	1/17/2024	Primary		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	SGS Orlando	FC12661	RHMW11-05-WGN01G-2401WK3-DF	1/17/2024	Primary		<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHMW11-05

						Polycyclic Aromatic Hydrocarbons (PAHs)																															
					Analyte	Acenaphthene (SIM)				Acenaphthylene (SIM)				Anthracene (SIM)				Benzo(a)anthracene (SIM)				Benzo(a)pyrene (SIM)				Benzo(b)fluoranthene (SIM)				Benzo(g,h,i)peryelene (SIM)				Benzo(k)fluoranthene (SIM)			
					CAS No.	83-32-9				208-96-8				120-12-7				56-55-3				50-32-8				205-99-2				191-24-2				207-08-9			
					Method	8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM			
					DOH Tier 1 EAL	20				240				0.18				0.029				0.2				0.22				0.13				0.4			
					Units	µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L			
					Minimum	ND				ND				ND				ND				ND				ND				ND				ND			
					Maximum	ND				ND				ND				ND				ND				ND				ND				ND			
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result				Result				Result				Result				Result				Result				Result				Result			
RHMW11-05	ALS Kelso	K2311233	RHMW11-05-WGN01G-2310	10/2/2023	Primary	–				–				–				–				–				–				–				–			
RHMW11-05	SGS Orlando	FC10202	RHMW11-05-WGN01G-2310	10/2/2023	Primary	<0.42	U			<0.42	U			<0.42	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U		
RHMW11-05	APPL	23J0095	RHMW11-05-WGN01G-23Q4	10/9/2023	Primary	–				–				–				–				–				–				–				–			
RHMW11-05	Energy	B23100868	RHMW11-05-WGN01G-23Q4	10/9/2023	Primary	–				–				–				–				–				–				–				–			
RHMW11-05	SGS Orlando	FC10364	RHMW11-05-WGN01G-23Q4	10/9/2023	Primary	<0.4	U			<0.4	U			<0.4	U			<0.04	U			<0.04	U			<0.04	U			<0.04	U			<0.08	U		
RHMW11-05	APPL	23J0262	RHMW11-05-WGN01G-2310WK4-DF	10/24/2023	Primary	–				–				–				–				–				–				–				–			
RHMW11-05	SGS Orlando	FC10716	RHMW11-05-WGN01G-2310WK4-DF	10/24/2023	Primary	<0.42	U			<0.42	U			<0.42	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.083	U		
RHMW11-05	APPL	23J0325	RHMW11-05-WGN01G-2310WK5-DF	10/30/2023	Primary	–				–				–				–				–				–				–				–			
RHMW11-05	SGS Orlando	FC10844	RHMW11-05-WGN01G-2310WK5-DF	10/30/2023	Primary	<0.42	U			<0.42	U			<0.42	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.083	U		
RHMW11-05	ALS Kelso	K2312628	RHMW11-05-WGN01G-2311-DF	11/6/2023	Primary	–				–				–				–				–				–				–				–			
RHMW11-05	APPL	23K0041	RHMW11-05-WGN01G-2311-DF	11/6/2023	Primary	–				–				–				–				–				–				–				–			
RHMW11-05	SGS Orlando	FC11019	RHMW11-05-WGN01G-2311-DF	11/6/2023	Primary	<0.42	U			<0.42	U			<0.42	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.083	U		
RHMW11-05	SGS Orlando	FC11019B	RHMW11-05-WGN01G-2311-DF	11/6/2023	Primary	–				–				–				–				–				–				–				–			
RHMW11-05	APPL	23K0134	RHMW11-05-WGN01G-2311WK2-DF	11/15/2023	Primary	–				–				–				–				–				–				–				–			
RHMW11-05	SGS Orlando	FC11293	RHMW11-05-WGN01G-2311WK2-DF	11/15/2023	Primary	<0.42	U			<0.42	U			<0.42	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.083	U		
RHMW11-05	APPL	23K0214	RHMW11-05-WGN01G-2311WK3-DF	11/22/2023	Primary	–				–				–				–				–				–				–				–			
RHMW11-05	SGS Orlando	FC11474	RHMW11-05-WGN01G-2311WK3-DF	11/22/2023	Primary	<0.42	UJ			<0.42	UJ			<0.42	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.083	U		
RHMW11-05	APPL	23K0219	RHMW11-05-WGN01G-2311WK4-DF	11/27/2023	Primary	–				–				–				–				–				–				–				–			
RHMW11-05	SGS Orlando	FC11512	RHMW11-05-WGN01G-2311WK4-DF	11/27/2023	Primary	<0.43	UJ			<0.43	UJ			<0.43	U			<0.043	U			<0.043	U			<0.043	U			<0.043	U			<0.087	U		
RHMW11-05	APPL	23L0019	RHMW11-05-WGN01G-2312-DF	12/4/2023	Primary	–				–				–				–				–				–				–				–			
RHMW11-05	SGS Anchorage	1236588_EDMS	RHMW11-05-WGN01G-2312-DF	12/4/2023	Primary	–				–				–				–				–				–				–				–			
RHMW11-05	SGS Orlando	FC11688	RHMW11-05-WGN01G-2312-DF	12/4/2023	Primary	<0.42	UJ			<0.42	UJ			<0.42	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.083	U		
RHMW11-05	SGS Orlando	FC11688B	RHMW11-05-WGN01G-2312-DF	12/4/2023	Primary	–				–				–				–				–				–				–				–			
RHMW11-05	APPL	23L0108	RHMW11-05-WGN01G-2312WK2-DF	12/13/2023	Primary	–				–				–				–				–				–				–				–			
RHMW11-05	SGS Orlando	FC11982	RHMW11-05-WGN01G-2312WK2-DF	12/13/2023	Primary	<0.4	UJ			<0.4	UJ			<0.4	U			<0.04	U			<0.04	U			<0.04	U			<0.04	U			<0.08	U		
RHMW11-05	SGS Orlando	FC11982A	RHMW11-05-WGN01G-2312WK2-DF	12/13/2023	Primary	–				–				–				–				–				–				–				–			
RHMW11-05	APPL	23L0179	RHMW11-05-WGN01G-2312WK3-DF	12/20/2023	Primary	–				–				–				–				–				–				–				–			
RHMW11-05	SGS Orlando	FC12167	RHMW11-05-WGN01G-2312WK3-DF	12/20/2023	Primary	<0.42	U			<0.42	U			<0.42	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.083	U		
RHMW11-05	APPL	23L0220	RHMW11-05-WGN01G-2312WK4-DF	12/28/2023	Primary	–				–				–				–				–				–				–				–			
RHMW11-05	SGS Orlando	FC12289	RHMW11-05-WGN01G-2312WK4-DF	12/28/2023	Primary	<0.42	U			<0.42	U			<0.42	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.083	U		
RHMW11-05	APPL	24A0035	RHMW11-05-WGN01G-2401-DF	1/4/2024	Primary	–				–				–				–				–				–				–				–			
RHMW11-05	SGS Anchorage	1240082_EDMS	RHMW11-05-WGN01G-2401-DF	1/4/2024	Primary	–				–				–				–				–				–				–				–			
RHMW11-05	SGS Orlando	FC12403	RHMW11-05-WGN01G-2401-DF	1/4/2024	Primary	<0.42	U			<0.42	U			<0.42	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.083	U		
RHMW11-05	SGS Orlando	FC12403B	RHMW11-05-WGN01G-2401-DF	1/4/2024	Primary	–				–				–				–				–				–				–				–			
RHMW11-05	APPL	24A0066	RHMW11-05-WGN01G-2401WK2-DF	1/10/2024	Primary	–				–				–				–				–				–				–				–			
RHMW11-05	SGS Orlando	FC12522	RHMW11-05-WGN01G-2401WK2-DF	1/10/2024	Primary	<0.42	U			<0.42	U			<0.42	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.083	U		
RHMW11-05	APPL	24A0114	RHMW11-05-WGN01G-2401WK3-DF	1/17/2024	Primary	–				–				–				–				–				–				–				–			
RHMW11-05	SGS Orlando	FC12661	RHMW11-05-WGN01G-2401WK3-DF	1/17/2024	Primary	<0.42	U			<0.42	U			<0.42	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.083	U		

						Polycyclic Aromatic Hydrocarbons (PAHs)																																	
					Analyte	Chrysene (SIM)				Dibenzo(a,h)anthracene (SIM)				Fluoranthene (SIM)				Fluorene (SIM)				Indeno(1,2,3-cd)pyrene (SIM)				Phenanthrene (SIM)				Pyrene (SIM)							
					CAS No.	218-01-9				53-70-3				206-44-0				86-73-7				193-39-5				85-01-8				129-00-0							
					Method	8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM							
					DOH Tier 1 EAL	1				0.022				13				240				0.095				210				68							
					Units	µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L							
					Minimum	ND				ND				ND				ND				ND				ND				ND							
					Maximum	ND				ND				ND				ND				ND				ND				ND							
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result				Result				Result				Result				Result				Result				Result							
RHMW11-05	ALS Kelso	K2311233	RHMW11-05-WGN01G-2310	10/2/2023	Primary	–				–				–				–				–				–				–							
RHMW11-05	SGS Orlando	FC10202	RHMW11-05-WGN01G-2310	10/2/2023	Primary	<0.083	U			<0.042	U			<0.42	U			<0.42	U			<0.042	U			<0.43	UJ			<0.42	U						
RHMW11-05	APPL	23J0095	RHMW11-05-WGN01G-23Q4	10/9/2023	Primary	–				–				–				–				–				–				–							
RHMW11-05	Energy	B23100868	RHMW11-05-WGN01G-23Q4	10/9/2023	Primary	–				–				–				–				–				–				–							
RHMW11-05	SGS Orlando	FC10364	RHMW11-05-WGN01G-23Q4	10/9/2023	Primary	<0.08	U			<0.04	U			<0.4	U			<0.4	U			<0.04	U			<0.4	U			<0.4	U						
RHMW11-05	APPL	23J0262	RHMW11-05-WGN01G-2310WK4-DF	10/24/2023	Primary	–				–				–				–				–				–				–							
RHMW11-05	SGS Orlando	FC10716	RHMW11-05-WGN01G-2310WK4-DF	10/24/2023	Primary	<0.083	U			<0.042	U			<0.42	U			<0.42	U			<0.042	U			<0.42	U			<0.42	U						
RHMW11-05	APPL	23J0325	RHMW11-05-WGN01G-2310WK5-DF	10/30/2023	Primary	–				–				–				–				–				–				–							
RHMW11-05	SGS Orlando	FC10844	RHMW11-05-WGN01G-2310WK5-DF	10/30/2023	Primary	<0.083	U			<0.042	U			<0.42	U			<0.42	U			<0.042	U			<0.42	U			<0.42	U						
RHMW11-05	ALS Kelso	K2312628	RHMW11-05-WGN01G-2311-DF	11/6/2023	Primary	–				–				–				–				–				–				–							
RHMW11-05	APPL	23K0041	RHMW11-05-WGN01G-2311-DF	11/6/2023	Primary	–				–				–				–				–				–				–							
RHMW11-05	SGS Orlando	FC11019	RHMW11-05-WGN01G-2311-DF	11/6/2023	Primary	<0.083	U			<0.042	U			<0.42	U			<0.42	U			<0.042	U			<0.42	U			<0.42	U						
RHMW11-05	SGS Orlando	FC11019B	RHMW11-05-WGN01G-2311-DF	11/6/2023	Primary	–				–				–				–				–				–				–							
RHMW11-05	APPL	23K0134	RHMW11-05-WGN01G-2311WK2-DF	11/15/2023	Primary	–				–				–				–				–				–				–							
RHMW11-05	SGS Orlando	FC11293	RHMW11-05-WGN01G-2311WK2-DF	11/15/2023	Primary	<0.083	U			<0.042	U			<0.42	U			<0.42	U			<0.042	U			<0.42	U			<0.42	U						
RHMW11-05	APPL	23K0214	RHMW11-05-WGN01G-2311WK3-DF	11/22/2023	Primary	–				–				–				–				–				–				–							
RHMW11-05	SGS Orlando	FC11474	RHMW11-05-WGN01G-2311WK3-DF	11/22/2023	Primary	<0.083	U			<0.042	U			<0.42	UJ			<0.42	UJ			<0.042	U			<0.42	UJ			<0.42	U						
RHMW11-05	APPL	23K0219	RHMW11-05-WGN01G-2311WK4-DF	11/27/2023	Primary	–				–				–				–				–				–				–							
RHMW11-05	SGS Orlando	FC11512	RHMW11-05-WGN01G-2311WK4-DF	11/27/2023	Primary	<0.087	U			<0.043	U			<0.43	UJ			<0.43	UJ			<0.043	U			<0.43	UJ			<0.43	U						
RHMW11-05	APPL	23L0019	RHMW11-05-WGN01G-2312-DF	12/4/2023	Primary	–				–				–				–				–				–				–							
RHMW11-05	SGS Anchorage	1236588_EDMS	RHMW11-05-WGN01G-2312-DF	12/4/2023	Primary	–				–				–				–				–				–				–							
RHMW11-05	SGS Orlando	FC11688	RHMW11-05-WGN01G-2312-DF	12/4/2023	Primary	<0.083	U			<0.042	U			<0.42	UJ			<0.42	UJ			<0.042	U			<0.42	UJ			<0.42	U						
RHMW11-05	SGS Orlando	FC11688B	RHMW11-05-WGN01G-2312-DF	12/4/2023	Primary	–				–				–				–				–				–				–							
RHMW11-05	APPL	23L0108	RHMW11-05-WGN01G-2312WK2-DF	12/13/2023	Primary	–				–				–				–				–				–				–							
RHMW11-05	SGS Orlando	FC11982	RHMW11-05-WGN01G-2312WK2-DF	12/13/2023	Primary	<0.08	U			<0.04	U			<0.4	UJ			<0.4	UJ			<0.04	U			<0.4	UJ			<0.4	U						
RHMW11-05	SGS Orlando	FC11982A	RHMW11-05-WGN01G-2312WK2-DF	12/13/2023	Primary	–				–				–				–				–				–				–							
RHMW11-05	APPL	23L0179	RHMW11-05-WGN01G-2312WK3-DF	12/20/2023	Primary	–				–				–				–				–				–				–							
RHMW11-05	SGS Orlando	FC12167	RHMW11-05-WGN01G-2312WK3-DF	12/20/2023	Primary	<0.083	U			<0.042	U			<0.42	U			<0.42	U			<0.042	U			<0.42	U			<0.42	U						
RHMW11-05	APPL	23L0220	RHMW11-05-WGN01G-2312WK4-DF	12/28/2023	Primary	–				–				–				–				–				–				–							
RHMW11-05	SGS Orlando	FC12289	RHMW11-05-WGN01G-2312WK4-DF	12/28/2023	Primary	<0.083	U			<0.042	U			<0.42	U			<0.42	U			<0.042	U			<0.42	U			<0.42	U						
RHMW11-05	APPL	24A0035	RHMW11-05-WGN01G-2401-DF	1/4/2024	Primary	–				–				–				–				–				–				–							
RHMW11-05	SGS Anchorage	1240082_EDMS	RHMW11-05-WGN01G-2401-DF	1/4/2024	Primary	–				–				–				–				–				–				–							
RHMW11-05	SGS Orlando	FC12403	RHMW11-05-WGN01G-2401-DF	1/4/2024	Primary	<0.083	U			<0.042	U			<0.42	U			<0.42	U			<0.042	U			<0.42	U			<0.42	U						
RHMW11-05	SGS Orlando	FC12403B	RHMW11-05-WGN01G-2401-DF	1/4/2024	Primary	–				–				–				–				–				–				–							
RHMW11-05	APPL	24A0066	RHMW11-05-WGN01G-2401WK2-DF	1/10/2024	Primary	–				–				–				–				–				–				–							
RHMW11-05	SGS Orlando	FC12522	RHMW11-05-WGN01G-2401WK2-DF	1/10/2024	Primary	<0.083	U			<0.042	U			<0.42	U			<0.42	U			<0.042	U			<0.42	U			<0.42	U						
RHMW11-05	APPL	24A0114	RHMW11-05-WGN01G-2401WK3-DF	1/17/2024	Primary	–				–				–				–				–				–				–							
RHMW11-05	SGS Orlando	FC12661	RHMW11-05-WGN01G-2401WK3-DF	1/17/2024	Primary	<0.083	U			<0.042	U			<0.42	U			<0.42	U			<0.042	U			<0.42	U			<0.42	U						

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHMW11-05

						Fuel Additive				Lead Scavengers				Natural Attenuation Parameters					
					Analyte	2-(2- Methoxyethoxy)-ethanol [b]		Phenol		1,2-Dibromoethane		1,2-Dichloroethane		Methane		Total Organic Carbon		NV Dissolved Organic Carbon	
					CAS No.	111-77-3		108-95-2		106-93-4		107-06-2		74-82-8		TOC		—	
					Method	8270D		SW8270		8011		8260		RSK 175		9060		9060	
					DOH Tier 1 EAL	800		300		0.04		5		—		—		—	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		ND		0.99		ND		6300	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result	
RHMW11-05	ALS Kelso	K2311233	RHMW11-05-WGN01G-2310	10/2/2023	Primary	–		–		–		–		–		<500	U	<500	U
RHMW11-05	SGS Orlando	FC10202	RHMW11-05-WGN01G-2310	10/2/2023	Primary	–		<1.9	U	–		–		0.45	J	–		–	
RHMW11-05	APPL	23J0095	RHMW11-05-WGN01G-23Q4	10/9/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHMW11-05	Energy	B23100868	RHMW11-05-WGN01G-23Q4	10/9/2023	Primary	–		–		–		–		–		–		–	
RHMW11-05	SGS Orlando	FC10364	RHMW11-05-WGN01G-23Q4	10/9/2023	Primary	–		<1.9	U	–		–		0.91		<1000	U	–	
RHMW11-05	APPL	23J0262	RHMW11-05-WGN01G-2310WK4-DF	10/24/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHMW11-05	SGS Orlando	FC10716	RHMW11-05-WGN01G-2310WK4-DF	10/24/2023	Primary	–		<1.9	U	<0.014	U	<0.5	U	–		–		–	
RHMW11-05	APPL	23J0325	RHMW11-05-WGN01G-2310WK5-DF	10/30/2023	Primary	<80	U	–		–		–		–		–		–	
RHMW11-05	SGS Orlando	FC10844	RHMW11-05-WGN01G-2310WK5-DF	10/30/2023	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	
RHMW11-05	ALS Kelso	K2312628	RHMW11-05-WGN01G-2311-DF	11/6/2023	Primary	–		–		–		–		–		<500	U	6300	
RHMW11-05	APPL	23K0041	RHMW11-05-WGN01G-2311-DF	11/6/2023	Primary	<80	U	–		–		–		–		–		–	
RHMW11-05	SGS Orlando	FC11019	RHMW11-05-WGN01G-2311-DF	11/6/2023	Primary	–		<1.9	U	<0.014	U	<0.5	U	–		–		–	
RHMW11-05	SGS Orlando	FC11019B	RHMW11-05-WGN01G-2311-DF	11/6/2023	Primary	–		–		–		–		0.99		–		–	
RHMW11-05	APPL	23K0134	RHMW11-05-WGN01G-2311WK2-DF	11/15/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHMW11-05	SGS Orlando	FC11293	RHMW11-05-WGN01G-2311WK2-DF	11/15/2023	Primary	–		<0.19	U	<0.014	U	<0.5	U	–		–		–	
RHMW11-05	APPL	23K0214	RHMW11-05-WGN01G-2311WK3-DF	11/22/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHMW11-05	SGS Orlando	FC11474	RHMW11-05-WGN01G-2311WK3-DF	11/22/2023	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	
RHMW11-05	APPL	23K0219	RHMW11-05-WGN01G-2311WK4-DF	11/27/2023	Primary	<80	U	–		–		–		–		–		–	
RHMW11-05	SGS Orlando	FC11512	RHMW11-05-WGN01G-2311WK4-DF	11/27/2023	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	
RHMW11-05	APPL	23L0019	RHMW11-05-WGN01G-2312-DF	12/4/2023	Primary	<80	U	–		–		–		–		–		–	
RHMW11-05	SGS Anchorage	1236588_EDMS	RHMW11-05-WGN01G-2312-DF	12/4/2023	Primary	–		–		–		–		–		<750	U	<750	U
RHMW11-05	SGS Orlando	FC11688	RHMW11-05-WGN01G-2312-DF	12/4/2023	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	
RHMW11-05	SGS Orlando	FC11688B	RHMW11-05-WGN01G-2312-DF	12/4/2023	Primary	–		–		–		–		0.58		–		–	
RHMW11-05	APPL	23L0108	RHMW11-05-WGN01G-2312WK2-DF	12/13/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHMW11-05	SGS Orlando	FC11982	RHMW11-05-WGN01G-2312WK2-DF	12/13/2023	Primary	–		<1.9	U	–		<0.5	U	–		–		–	
RHMW11-05	SGS Orlando	FC11982A	RHMW11-05-WGN01G-2312WK2-DF	12/13/2023	Primary	–		–		<0.015	U	–		–		–		–	
RHMW11-05	APPL	23L0179	RHMW11-05-WGN01G-2312WK3-DF	12/20/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHMW11-05	SGS Orlando	FC12167	RHMW11-05-WGN01G-2312WK3-DF	12/20/2023	Primary	–		<1.9	U	<0.015	U	<0.5	U	–		–		–	
RHMW11-05	APPL	23L0220	RHMW11-05-WGN01G-2312WK4-DF	12/28/2023	Primary	<80	U	–		–		–		–		–		–	
RHMW11-05	SGS Orlando	FC12289	RHMW11-05-WGN01G-2312WK4-DF	12/28/2023	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	
RHMW11-05	APPL	24A0035	RHMW11-05-WGN01G-2401-DF	1/4/2024	Primary	<80	UJ	–		–		–		–		–		–	
RHMW11-05	SGS Anchorage	1240082_EDMS	RHMW11-05-WGN01G-2401-DF	1/4/2024	Primary	–		–		–		–		–		<750	U	1680	J+
RHMW11-05	SGS Orlando	FC12403	RHMW11-05-WGN01G-2401-DF	1/4/2024	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	
RHMW11-05	SGS Orlando	FC12403B	RHMW11-05-WGN01G-2401-DF	1/4/2024	Primary	–		–		–		–		<0.25	U	–		–	
RHMW11-05	APPL	24A0066	RHMW11-05-WGN01G-2401WK2-DF	1/10/2024	Primary	<80	UJ	–		–		–		–		–		–	
RHMW11-05	SGS Orlando	FC12522	RHMW11-05-WGN01G-2401WK2-DF	1/10/2024	Primary	–		<2	U	<0.015	U	<0.5	U	–		–		–	
RHMW11-05	APPL	24A0114	RHMW11-05-WGN01G-2401WK3-DF	1/17/2024	Primary	<80	UJ	–		–		–		–		–		–	
RHMW11-05	SGS Orlando	FC12661	RHMW11-05-WGN01G-2401WK3-DF	1/17/2024	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHMW12A

						Total Petroleum Hydrocarbons										Volatile Organic Compounds								Polycyclic Aromatic Hydrocarbons (PAHs) – AOC/LTM					
					Analyte	TPH-g		TPH-d [a]		TPH-o [a]		TPH-d with Silica Gel Cleanup [a]		TPH-o with Silica Gel Cleanup [a]		Benzene		Ethylbenzene		Toluene		Xylenes		1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene	
					CAS No.	PHCC6C10		PHCC10C24		PHCC24C40		PHCC10C24SGC		PHCC24C40SGC		71-43-2		100-41-4		108-88-3		1330-20-7		90-12-0		91-57-6		91-20-3	
					Method	8260		8015		8015		8015		8015		8260		8260		8260		8260		8270 SIM		8270 SIM		8270 SIM	
					DOH Tier 1 EAL	300		400		500		—		—		5		30		40		20		10		10		17	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		–		–		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		–		–		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW12A	SGS Orlando	FC9446	RHMW12A-WGN01LF-2309	9/7/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U
RHMW12A	ALS Kelso	K2311328	RHMW12A-WGN01LF-2310	10/3/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Energy	B23100338	RHMW12A-WGN01LF-2310	10/3/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	SGS Orlando	FC10202	RHMW12A-WGN01LF-2310	10/3/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U
RHMW12A	APPL	23J0131	RHMW12A-WGN01LF-23Q4	10/12/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Energy	B23101113	RHMW12A-WGN01LF-23Q4	10/12/2023	Primary	<8.5	U	<141	U	<141	U	–		–		<0.1	U	<0.1	U	<0.2	U	<0.1	U	–		–		–	
RHMW12A	SGS Orlando	FC10448	RHMW12A-WGN01LF-23Q4	10/12/2023	Primary	–		–		–		–		–		–		–		–		–		<0.4	U	<0.4	U	<0.4	U
RHMW12A	ALS Kelso	K2312820	RHMW12A-WGN01LF-2311	11/9/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	SGS Orlando	FC11161	RHMW12A-WGN01LF-2311	11/9/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW12A	SGS Orlando	FC11804	RHMW12A-WGN01LF-2312	12/7/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	U,J	<0.4	U,J	<0.4	U

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHMW12A

						Polycyclic Aromatic Hydrocarbons (PAHs)																											
					Analyte	Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)		Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
					CAS No.	83-32-9		208-96-8		120-12-7		56-55-3		50-32-8		205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
					Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
					DOH Tier 1 EAL	20		240		0.18		0.029		0.2		0.22		0.13		0.4		1		0.022		13		240		0.095		210		68	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW12A	SGS Orlando	FC9446	RHMW12A-WGN01LF-2309	9/7/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	UJ	<0.04	UJ	<0.04	U	<0.04	UJ	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHMW12A	ALS Kelso	K2311328	RHMW12A-WGN01LF-2310	10/3/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Energy	B23100338	RHMW12A-WGN01LF-2310	10/3/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	SGS Orlando	FC10202	RHMW12A-WGN01LF-2310	10/3/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHMW12A	APPL	23J0131	RHMW12A-WGN01LF-23Q4	10/12/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Energy	B23101113	RHMW12A-WGN01LF-23Q4	10/12/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	SGS Orlando	FC10448	RHMW12A-WGN01LF-23Q4	10/12/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHMW12A	ALS Kelso	K2312820	RHMW12A-WGN01LF-2311	11/9/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	SGS Orlando	FC11161	RHMW12A-WGN01LF-2311	11/9/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW12A	SGS Orlando	FC11804	RHMW12A-WGN01LF-2312	12/7/2023	Primary	<0.4	UJ	<0.4	UJ	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	UJ	<0.4	UJ	<0.04	U	<0.4	UJ	<0.4	U

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHMW12A

						Fuel Additive				Lead Scavengers				Natural Attenuation Parameters					
					Analyte	2-(2- Methoxyethoxy)-ethanol [b]		Phenol		1,2-Dibromoethane		1,2-Dichloroethane		Methane		Total Organic Carbon		NV Dissolved Organic Carbon	
					CAS No.	111-77-3		108-95-2		106-93-4		107-06-2		74-82-8		TOC		—	
					Method	8270D		SW8270		8011		8260		RSK 175		9060		9060	
					DOH Tier 1 EAL	800		300		0.04		5		—		—		—	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	–		ND		ND		–		ND		ND		500	
					Maximum	–		ND		ND		–		0.47		ND		1600	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result	
RHMW12A	SGS Orlando	FC9446	RHMW12A-WGN01LF-2309	9/7/2023	Primary	–		<2	U	–		–		0.18	J	–		–	
RHMW12A	ALS Kelso	K2311328	RHMW12A-WGN01LF-2310	10/3/2023	Primary	–		–		–		–		–		<200	U	1600	
RHMW12A	Energy	B23100338	RHMW12A-WGN01LF-2310	10/3/2023	Primary	–		–		<0.0049	U	–		–		–		–	
RHMW12A	SGS Orlando	FC10202	RHMW12A-WGN01LF-2310	10/3/2023	Primary	–		<1.9	U	–		–		<0.25	U	–		–	
RHMW12A	APPL	23J0131	RHMW12A-WGN01LF-23Q4	10/12/2023	Primary	–	R	–		–		–		–		–		–	
RHMW12A	Energy	B23101113	RHMW12A-WGN01LF-23Q4	10/12/2023	Primary	–		–		<0.0049	U	–		–		–		–	
RHMW12A	SGS Orlando	FC10448	RHMW12A-WGN01LF-23Q4	10/12/2023	Primary	–		<1.9	U	–		–		0.16	J	<1000	U	–	
RHMW12A	ALS Kelso	K2312820	RHMW12A-WGN01LF-2311	11/9/2023	Primary	–		–		–		–		–		<500	U	500	
RHMW12A	SGS Orlando	FC11161	RHMW12A-WGN01LF-2311	11/9/2023	Primary	–		<1.9	U	<0.014	U	–		0.47	J	–		–	
RHMW12A	SGS Orlando	FC11804	RHMW12A-WGN01LF-2312	12/7/2023	Primary	–		<2	U	<0.015	U	–		<0.25	U	–		–	

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHMW13

						Total Petroleum Hydrocarbons												Volatile Organic Compounds								Polycyclic Aromatic Hydrocarbons (PAHs) – AOC/LTM							
					Analyte	TPH-g		TPH-d [a]		TPH-o [a]		TPH-d with Silica Gel Cleanup [a]		TPH-o with Silica Gel Cleanup [a]		Benzene		Ethylbenzene		Toluene		Xylenes		1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene			
					CAS No.	PHCC6C10		PHCC10C24		PHCC24C40		PHCC10C24SGC		PHCC24C40SGC		71-43-2		100-41-4		108-88-3		1330-20-7		90-12-0		91-57-6		91-20-3			
					Method	8260		8015		8015		8015		8015		8260		8260		8260		8260		8270 SIM		8270 SIM		8270 SIM			
					DOH Tier 1 EAL	300		400		500		—		—		5		30		40		20		10		10		17			
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L			
					Minimum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND			
					Maximum	42		89.2		211		ND		ND		ND		ND		ND		ND		ND		ND		ND			
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result			
RHMW13-05	ALS Kelso	K2310020	RHMW13-05-WGN01G-2309	9/5/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–			
RHMW13-05	SGS Orlando	FC9377	RHMW13-05-WGN01G-2309	9/5/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U		
RHMW13-05	ALS Kelso	K2311474	RHMW13-05-WGN01G-2310	10/5/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–			
RHMW13-05	SGS Orlando	FC10336	RHMW13-05-WGN01G-2310	10/5/2023	Primary	<50	U	<100	U	95.2	J	<100	U	<170	U	<0.5	UJ	<0.5	UJ	<0.5	UJ	<1.5	UJ	<0.4	UJ	<0.4	UJ	<0.4	UJ		
RHMW13-04	APPL	23J0131	RHMW13-04-WGN01G-23Q4	10/10/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–			
RHMW13-04	Energy	B23101113	RHMW13-04-WGN01G-23Q4	10/10/2023	Primary	<8.5	U	89.2	J	211	J	<141	U	<141	U	<0.1	U	<0.1	U	<0.2	U	<0.1	U	–		–		–			
RHMW13-04	SGS Orlando	FC10448	RHMW13-04-WGN01G-23Q4	10/10/2023	Primary	–		–		–		–		–		–		–		–		–		<0.4	UJ	<0.4	UJ	<0.4	UJ		
RHMW13-04	ALS Kelso	K2311962	RHMW13-04-WGN02G-2310	10/10/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–			
RHMW13-04	SGS Orlando	FC10450	RHMW13-04-WGN02G-2310	10/10/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–			
RHMW13-04	APPL	23J0280	RHMW13-04-WGN01G-2310WK4-DF	10/25/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–			
RHMW13-04	SGS Orlando	FC10745	RHMW13-04-WGN01G-2310WK4-DF	10/25/2023	Primary	<50	U	<630	U	<1000	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.45	U	<0.45	U	<0.45	U		
RHMW13-04	APPL	23K0001	RHMW13-04-WGN01G-2310WK5-DF	10/31/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–			
RHMW13-04	SGS Orlando	FC10882	RHMW13-04-WGN01G-2310WK5-DF	10/31/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U		
RHMW13-04	ALS Kelso	K2312824	RHMW13-04-WGN01G-2311-DF	11/9/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–			
RHMW13-04	APPL	23K0084	RHMW13-04-WGN01G-2311-DF	11/9/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–			
RHMW13-04	SGS Orlando	FC11133	RHMW13-04-WGN01G-2311-DF	11/9/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	UJ	<0.4	U	<0.4	U		
RHMW13-04	SGS Orlando	FC11133B	RHMW13-04-WGN01G-2311-DF	11/9/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–			
RHMW13-04	APPL	23K0123	RHMW13-04-WGN01G-2311WK2-DF	11/14/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–			
RHMW13-04	SGS Orlando	FC11263	RHMW13-04-WGN01G-2311WK2-DF	11/14/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U		
RHMW13-04	APPL	23K0183	RHMW13-04-WGN01G-2311WK3-DF	11/20/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–			
RHMW13-04	SGS Orlando	FC11419	RHMW13-04-WGN01G-2311WK3-DF	11/20/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	UJ	<0.5	UJ	<0.5	UJ	<1.5	UJ	<0.42	UJ	<0.42	UJ	<0.42	U		
RHMW13-04	APPL	23K0231	RHMW13-04-WGN01G-2311WK4-DF	11/28/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–			
RHMW13-04	SGS Orlando	FC11564	RHMW13-04-WGN01G-2311WK4-DF	11/28/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	UJ	<0.42	UJ	<0.42	U		
RHMW13-04	APPL	23L0056	RHMW13-04-WGN01G-2312-DF	12/7/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–			
RHMW13-04	SGS Anchorage	1236658_EDMS	RHMW13-04-WGN01G-2312-DF	12/7/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–			
RHMW13-04	SGS Orlando	FC11802	RHMW13-04-WGN01G-2312-DF	12/7/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	UJ	<0.4	UJ	<0.4	U		
RHMW13-04	SGS Orlando	FC11802B	RHMW13-04-WGN01G-2312-DF	12/7/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–			
RHMW13-04	APPL	23L0091	RHMW13-04-WGN01G-2312WK2-DF	12/12/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–			
RHMW13-04	SGS Orlando	FC11937	RHMW13-04-WGN01G-2312WK2-DF	12/12/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	UJ	<0.4	UJ	<0.4	U		
RHMW13-04	APPL	23L0161	RHMW13-04-WGN01G-2312WK3-DF	12/19/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–			
RHMW13-04	SGS Orlando	FC12136	RHMW13-04-WGN01G-2312WK3-DF	12/19/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.43	U	<0.43	U	<0.43	U		
RHMW13-04	APPL	23L0216	RHMW13-04-WGN01G-2312WK4-DF	12/27/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–			
RHMW13-04	SGS Orlando	FC12258	RHMW13-04-WGN01G-2312WK4-DF	12/27/2023	Primary	42	J	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U		
RHMW13-04	APPL	24A0022	RHMW13-04-WGN01G-2401-DF	1/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–			
RHMW13-04	SGS Anchorage	1240064_EDMS	RHMW13-04-WGN01G-2401-DF	1/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–			
RHMW13-04	SGS Orlando	FC12382	RHMW13-04-WGN01G-2401-DF	1/3/2024	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U		
RHMW13-04	SGS Orlando	FC12382B	RHMW13-04-WGN01G-2401-DF	1/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–			
RHMW13-04	APPL	24A0057	RHMW13-04-WGN01G-2401WK2-DF	1/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–			
RHMW13-04	SGS Orlando	FC12486	RHMW13-04-WGN01G-2401WK2-DF	1/9/2024	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U		
RHMW13-04	APPL	24A0108	RHMW13-04-WGN01G-2401WK3-DF	1/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–			
RHMW13-04	SGS Orlando	FC12611	RHMW13-04-WGN01G-2401WK3-DF	1/16/2024	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.43	UJ	<0.43	UJ	<0.43	UJ		

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHMW13

						Polycyclic Aromatic Hydrocarbons (PAHs)																															
					Analyte	Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)		Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)peryelene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
					CAS No.	83-32-9		208-96-8		120-12-7		56-55-3		50-32-8		205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
					Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
					DOH Tier 1 EAL	20		240		0.18		0.029		0.2		0.22		0.13		0.4		1		0.022		13		240		0.095		210		68	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L			
					Minimum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND			
					Maximum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND			
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result			
RHMW13-05	ALS Kelso	K2310020	RHMW13-05-WGN01G-2309	9/5/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW13-05	SGS Orlando	FC9377	RHMW13-05-WGN01G-2309	9/5/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	UJ	<0.04	UJ	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHMW13-05	ALS Kelso	K2311474	RHMW13-05-WGN01G-2310	10/5/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	SGS Orlando	FC10336	RHMW13-05-WGN01G-2310	10/5/2023	Primary	<0.4	UJ	<0.4	UJ	<0.4	UJ	<0.04	UJ	<0.04	UJ	<0.04	UJ	<0.04	UJ	<0.04	UJ	<0.08	UJ	<0.04	UJ	<0.4	UJ	<0.4	UJ	<0.04	UJ	<0.4	UJ	<0.4	UJ
RHMW13-04	APPL	23J0131	RHMW13-04-WGN01G-23Q4	10/10/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-04	Energy	B23101113	RHMW13-04-WGN01G-23Q4	10/10/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-04	SGS Orlando	FC10448	RHMW13-04-WGN01G-23Q4	10/10/2023	Primary	<0.4	UJ	<0.4	UJ	<0.4	UJ	<0.04	UJ	<0.04	UJ	<0.04	UJ	<0.04	UJ	<0.04	UJ	<0.08	UJ	<0.04	UJ	<0.4	UJ	<0.4	UJ	<0.04	UJ	<0.4	UJ	<0.4	UJ
RHMW13-04	ALS Kelso	K2311962	RHMW13-04-WGN02G-2310	10/10/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-04	SGS Orlando	FC10450	RHMW13-04-WGN02G-2310	10/10/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-04	APPL	23J0280	RHMW13-04-WGN01G-2310WK4-DF	10/25/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-04	SGS Orlando	FC10745	RHMW13-04-WGN01G-2310WK4-DF	10/25/2023	Primary	<0.45	U	<0.45	U	<0.45	U	<0.045	U	<0.045	U	<0.045	U	<0.045	U	<0.045	U	<0.091	U	<0.045	U	<0.45	U	<0.45	U	<0.045	U	<0.45	U	<0.45	U
RHMW13-04	APPL	23K0001	RHMW13-04-WGN01G-2310WK5-DF	10/31/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-04	SGS Orlando	FC10882	RHMW13-04-WGN01G-2310WK5-DF	10/31/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW13-04	ALS Kelso	K2312824	RHMW13-04-WGN01G-2311-DF	11/9/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-04	APPL	23K0084	RHMW13-04-WGN01G-2311-DF	11/9/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-04	SGS Orlando	FC11133	RHMW13-04-WGN01G-2311-DF	11/9/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHMW13-04	SGS Orlando	FC11133B	RHMW13-04-WGN01G-2311-DF	11/9/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-04	APPL	23K0123	RHMW13-04-WGN01G-2311WK2-DF	11/14/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-04	SGS Orlando	FC11263	RHMW13-04-WGN01G-2311WK2-DF	11/14/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW13-04	APPL	23K0183	RHMW13-04-WGN01G-2311WK3-DF	11/20/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-04	SGS Orlando	FC11419	RHMW13-04-WGN01G-2311WK3-DF	11/20/2023	Primary	<0.42	UJ	<0.42	UJ	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	UJ	<0.042	U	<0.42	UJ	<0.42	U
RHMW13-04	APPL	23K0231	RHMW13-04-WGN01G-2311WK4-DF	11/28/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-04	SGS Orlando	FC11564	RHMW13-04-WGN01G-2311WK4-DF	11/28/2023	Primary	<0.42	UJ	<0.42	UJ	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	UJ	<0.042	U	<0.42	UJ	<0.42	U
RHMW13-04	APPL	23L0056	RHMW13-04-WGN01G-2312-DF	12/7/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-04	SGS Anchorage	1236658_EDMS	RHMW13-04-WGN01G-2312-DF	12/7/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-04	SGS Orlando	FC11802	RHMW13-04-WGN01G-2312-DF	12/7/2023	Primary	<0.4	UJ	<0.4	UJ	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	UJ	<0.4	UJ	<0.04	U	<0.4	UJ	<0.4	U
RHMW13-04	SGS Orlando	FC11802B	RHMW13-04-WGN01G-2312-DF	12/7/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-04	APPL	23L0091	RHMW13-04-WGN01G-2312WK2-DF	12/12/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-04	SGS Orlando	FC11937	RHMW13-04-WGN01G-2312WK2-DF	12/12/2023	Primary	<0.4	UJ	<0.4	UJ	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	UJ	<0.4	UJ	<0.04	U	<0.4	UJ	<0.4	U
RHMW13-04	APPL	23L0161	RHMW13-04-WGN01G-2312WK3-DF	12/19/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-04	SGS Orlando	FC12136	RHMW13-04-WGN01G-2312WK3-DF	12/19/2023	Primary	<0.43	U	<0.43	U	<0.43	U	<0.043	U	<0.043	U	<0.043	U	<0.043	U	<0.043	U	<0.087	U	<0.043	U	<0.43	U	<0.43	U	<0.043	U	<0.43	U	<0.43	U
RHMW13-04	APPL	23L0216	RHMW13-04-WGN01G-2312WK4-DF	12/27/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-04	SGS Orlando	FC12258	RHMW13-04-WGN01G-2312WK4-DF	12/27/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW13-04	APPL	24A0022	RHMW13-04-WGN01G-2401-DF	1/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-04	SGS Anchorage	1240064_EDMS	RHMW13-04-WGN01G-2401-DF	1/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-04	SGS Orlando	FC12382	RHMW13-04-WGN01G-2401-DF	1/3/2024	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHMW13-04	SGS Orlando	FC12382B	RHMW13-04-WGN01G-2401-DF	1/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-04	APPL	24A0057	RHMW13-04-WGN01G-2401WK2-DF	1/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-04	SGS Orlando	FC12486	RHMW13-04-WGN01G-2401WK2-DF	1/9/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW13-04	APPL	24A0108	RHMW13-04-WGN01G-2401WK3-DF	1/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-04	SGS Orlando	FC12611	RHMW13-04-WGN01G-2401WK3-DF	1/16/2024	Primary	<0.43	UJ	<0.43	UJ	<0.43	UJ	<0.043	UJ	<0.043	UJ	<0.043	UJ	<0.043	UJ	<0.043	UJ	<0.087	UJ	<0.043	UJ	<0.43	UJ	<0.43	UJ	<0.043	UJ	<0.43	UJ	<0.43	UJ

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHMW13

						Fuel Additive				Lead Scavengers				Natural Attenuation Parameters					
					Analyte	2-(2- Methoxyethoxy)-ethanol [b]		Phenol		1,2-Dibromoethane		1,2-Dichloroethane		Methane		Total Organic Carbon		NV Dissolved Organic Carbon	
					CAS No.	111-77-3		108-95-2		106-93-4		107-06-2		74-82-8		TOC		—	
					Method	8270D		SW8270		8011		8260		RSK 175		9060		9060	
					DOH Tier 1 EAL	800		300		0.04		5		—		—		—	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		ND		0.42		600		1800	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result	
RHMW13-05	ALS Kelso	K2310020	RHMW13-05-WGN01G-2309	9/5/2023	Primary	–		–		–		–		–		<500	UJ	1800	
RHMW13-05	SGS Orlando	FC9377	RHMW13-05-WGN01G-2309	9/5/2023	Primary	–		<2	U	–		–		0.3	J	–		–	
RHMW13-05	ALS Kelso	K2311474	RHMW13-05-WGN01G-2310	10/5/2023	Primary	–		–		–		–		–		600		–	
RHMW13-05	SGS Orlando	FC10336	RHMW13-05-WGN01G-2310	10/5/2023	Primary	–		–		–		–		0.2	J	–		–	
RHMW13-04	APPL	23J0131	RHMW13-04-WGN01G-23Q4	10/10/2023	Primary	–	R	–		–		–		–		–		–	
RHMW13-04	Energy	B23101113	RHMW13-04-WGN01G-23Q4	10/10/2023	Primary	–		–		–		–		–		–		–	
RHMW13-04	SGS Orlando	FC10448	RHMW13-04-WGN01G-23Q4	10/10/2023	Primary	–		<1.9	U	–		–		0.42	J	<1000	U	–	
RHMW13-04	ALS Kelso	K2311962	RHMW13-04-WGN02G-2310	10/10/2023	Primary	–		–		–		–		–		<500	U	<500	U
RHMW13-04	SGS Orlando	FC10450	RHMW13-04-WGN02G-2310	10/10/2023	Primary	–		<1.9	UJ	–		–		–		–		–	
RHMW13-04	APPL	23J0280	RHMW13-04-WGN01G-2310WK4-DF	10/25/2023	Primary	<80	U	–		–		–		–		–		–	
RHMW13-04	SGS Orlando	FC10745	RHMW13-04-WGN01G-2310WK4-DF	10/25/2023	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	
RHMW13-04	APPL	23K0001	RHMW13-04-WGN01G-2310WK5-DF	10/31/2023	Primary	<80	U	–		–		–		–		–		–	
RHMW13-04	SGS Orlando	FC10882	RHMW13-04-WGN01G-2310WK5-DF	10/31/2023	Primary	–		<1.9	U	<0.014	U	<0.5	U	–		–		–	
RHMW13-04	ALS Kelso	K2312824	RHMW13-04-WGN01G-2311-DF	11/9/2023	Primary	–		–		–		–		–		<500	U	1300	
RHMW13-04	APPL	23K0084	RHMW13-04-WGN01G-2311-DF	11/9/2023	Primary	<80	U	–		–		–		–		–		–	
RHMW13-04	SGS Orlando	FC11133	RHMW13-04-WGN01G-2311-DF	11/9/2023	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	
RHMW13-04	SGS Orlando	FC11133B	RHMW13-04-WGN01G-2311-DF	11/9/2023	Primary	–		–		–		–		<0.25	U	–		–	
RHMW13-04	APPL	23K0123	RHMW13-04-WGN01G-2311WK2-DF	11/14/2023	Primary	<80	U	–		–		–		–		–		–	
RHMW13-04	SGS Orlando	FC11263	RHMW13-04-WGN01G-2311WK2-DF	11/14/2023	Primary	–		<1.9	U	<0.015	U	<0.5	U	–		–		–	
RHMW13-04	APPL	23K0183	RHMW13-04-WGN01G-2311WK3-DF	11/20/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHMW13-04	SGS Orlando	FC11419	RHMW13-04-WGN01G-2311WK3-DF	11/20/2023	Primary	–		<1.9	U	<0.014	U	<0.5	UJ	–		–		–	
RHMW13-04	APPL	23K0231	RHMW13-04-WGN01G-2311WK4-DF	11/28/2023	Primary	<80	U	–		–		–		–		–		–	
RHMW13-04	SGS Orlando	FC11564	RHMW13-04-WGN01G-2311WK4-DF	11/28/2023	Primary	–		<2	U	<0.015	U	<0.5	U	–		–		–	
RHMW13-04	APPL	23L0056	RHMW13-04-WGN01G-2312-DF	12/7/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHMW13-04	SGS Anchorage	1236658_EDMS	RHMW13-04-WGN01G-2312-DF	12/7/2023	Primary	–		–		–		–		–		<750	U	1090	J+
RHMW13-04	SGS Orlando	FC11802	RHMW13-04-WGN01G-2312-DF	12/7/2023	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	
RHMW13-04	SGS Orlando	FC11802B	RHMW13-04-WGN01G-2312-DF	12/7/2023	Primary	–		–		–		–		<0.25	U	–		–	
RHMW13-04	APPL	23L0091	RHMW13-04-WGN01G-2312WK2-DF	12/12/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHMW13-04	SGS Orlando	FC11937	RHMW13-04-WGN01G-2312WK2-DF	12/12/2023	Primary	–		<2	U	<0.015	U	<0.5	U	–		–		–	
RHMW13-04	APPL	23L0161	RHMW13-04-WGN01G-2312WK3-DF	12/19/2023	Primary	<80	U	–		–		–		–		–		–	
RHMW13-04	SGS Orlando	FC12136	RHMW13-04-WGN01G-2312WK3-DF	12/19/2023	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	
RHMW13-04	APPL	23L0216	RHMW13-04-WGN01G-2312WK4-DF	12/27/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHMW13-04	SGS Orlando	FC12258	RHMW13-04-WGN01G-2312WK4-DF	12/27/2023	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	
RHMW13-04	APPL	24A0022	RHMW13-04-WGN01G-2401-DF	1/3/2024	Primary	<80	UJ	–		–		–		–		–		–	
RHMW13-04	SGS Anchorage	1240064_EDMS	RHMW13-04-WGN01G-2401-DF	1/3/2024	Primary	–		–		–		–		–		<750	U	<750	U
RHMW13-04	SGS Orlando	FC12382	RHMW13-04-WGN01G-2401-DF	1/3/2024	Primary	–		<1.9	U	<0.014	U	<0.5	U	–		–		–	
RHMW13-04	SGS Orlando	FC12382B	RHMW13-04-WGN01G-2401-DF	1/3/2024	Primary	–		–		–		–		<0.25	U	–		–	
RHMW13-04	APPL	24A0057	RHMW13-04-WGN01G-2401WK2-DF	1/9/2024	Primary	<80	UJ	–		–		–		–		–		–	
RHMW13-04	SGS Orlando	FC12486	RHMW13-04-WGN01G-2401WK2-DF	1/9/2024	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	
RHMW13-04	APPL	24A0108	RHMW13-04-WGN01G-2401WK3-DF	1/16/2024	Primary	<80	UJ	–		–		–		–		–		–	
RHMW13-04	SGS Orlando	FC12611	RHMW13-04-WGN01G-2401WK3-DF	1/16/2024	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHMW14-03

						Total Petroleum Hydrocarbons												Volatile Organic Compounds												Polycyclic Aromatic Hydrocarbons (PAHs) – AOC/LTM					
					Analyte	TPH-g		TPH-d [a]		TPH-o [a]		TPH-d with Silica Gel Cleanup [a]		TPH-o with Silica Gel Cleanup [a]		Benzene		Ethylbenzene		Toluene		Xylenes		1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene	
					CAS No.	PHCC6C10		PHCC10C24		PHCC24C40		PHCC10C24SGC		PHCC24C40SGC		71-43-2		100-41-4		108-88-3		1330-20-7		90-12-0		91-57-6		91-20-3	
					Method	8260		8015		8015		8015		8015		8260		8260		8260		8260		8270 SIM		8270 SIM		8270 SIM	
					DOH Tier 1 EAL	300		400		500		—		—		5		30		40		20		10		10		17	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		190		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW14-03	ALS Kelso	K2311233	RHMW14-03-WGN01G-2310	10/2/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	SGS Orlando	FC10202	RHMW14-03-WGN01G-2310	10/2/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.45	UJ
RHMW14-03	APPL	23J0095	RHMW14-03-WGN01G-23Q4	10/9/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Energy	B23100745	RHMW14-03-WGN01G-23Q4	10/9/2023	Primary	<8.5	U	<141	U	<141	U	–		–		<0.1	U	<0.1	U	<0.2	U	<0.1	U	–		–		–	
RHMW14-03	SGS Orlando	FC10327	RHMW14-03-WGN01G-23Q4	10/9/2023	Primary	–		–		–		–		–		–		–		–		–		<0.4	UJ	<0.4	UJ	<0.4	UJ
RHMW14-03	APPL	23J0262	RHMW14-03-WGN01G-2310WK4-DF	10/24/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	SGS Orlando	FC10716	RHMW14-03-WGN01G-2310WK4-DF	10/24/2023	Primary	<50	U	<110	U	**190**	J	<110	U	<170	U	<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U
RHMW14-03	APPL	23J0325	RHMW14-03-WGN01G-2310WK5-DF	10/30/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	SGS Orlando	FC10844	RHMW14-03-WGN01G-2310WK5-DF	10/30/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW14-03	ALS Kelso	K2312628	RHMW14-03-WGN01G-2311-DF	11/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	APPL	23K0041	RHMW14-03-WGN01G-2311-DF	11/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	SGS Orlando	FC11019	RHMW14-03-WGN01G-2311-DF	11/6/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW14-03	SGS Orlando	FC11019B	RHMW14-03-WGN01G-2311-DF	11/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	APPL	23K0134	RHMW14-03-WGN01G-2311WK2-DF	11/15/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	SGS Orlando	FC11293	RHMW14-03-WGN01G-2311WK2-DF	11/15/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW14-03	APPL	23K0214	RHMW14-03-WGN01G-2311WK3-DF	11/22/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	SGS Orlando	FC11474	RHMW14-03-WGN01G-2311WK3-DF	11/22/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	UJ	<0.42	UJ	<0.42	U
RHMW14-03	APPL	23K0219	RHMW14-03-WGN01G-2311WK4-DF	11/27/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	SGS Orlando	FC11512	RHMW14-03-WGN01G-2311WK4-DF	11/27/2023	Primary	<50	U	<110	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	UJ	<0.42	UJ	<0.42	U
RHMW14-03	APPL	23L0019	RHMW14-03-WGN01G-2312-DF	12/4/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	SGS Anchorage	1236588_EDMS	RHMW14-03-WGN01G-2312-DF	12/4/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	SGS Orlando	FC11688	RHMW14-03-WGN01G-2312-DF	12/4/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	UJ	<0.42	UJ	<0.42	U
RHMW14-03	SGS Orlando	FC11688B	RHMW14-03-WGN01G-2312-DF	12/4/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	APPL	23L0108	RHMW14-03-WGN01G-2312WK2-DF	12/13/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	SGS Orlando	FC11982	RHMW14-03-WGN01G-2312WK2-DF	12/13/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	UJ	<0.4	UJ	<0.4	U
RHMW14-03	SGS Orlando	FC11982A	RHMW14-03-WGN01G-2312WK2-DF	12/13/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	APPL	23L0179	RHMW14-03-WGN01G-2312WK3-DF	12/20/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	SGS Orlando	FC12167	RHMW14-03-WGN01G-2312WK3-DF	12/20/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW14-03	APPL	23L0220	RHMW14-03-WGN01G-2312WK4-DF	12/28/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	SGS Orlando	FC12289	RHMW14-03-WGN01G-2312WK4-DF	12/28/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW14-03	APPL	24A0035	RHMW14-03-WGN01G-2401-DF	1/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	SGS Anchorage	1240082_EDMS	RHMW14-03-WGN01G-2401-DF	1/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	SGS Orlando	FC12403	RHMW14-03-WGN01G-2401-DF	1/4/2024	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW14-03	SGS Orlando	FC12403B	RHMW14-03-WGN01G-2401-DF	1/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	APPL	24A0066	RHMW14-03-WGN01G-2401WK2-DF	1/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	SGS Orlando	FC12522	RHMW14-03-WGN01G-2401WK2-DF	1/10/2024	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW14-03	APPL	24A0125	RHMW14-03-WGN01G-2401WK3-DF	1/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	SGS Orlando	FC12661	RHMW14-03-WGN01G-2401WK3-DF	1/17/2024	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHMW14-03

						Polycyclic Aromatic Hydrocarbons (PAHs)																															
					Analyte	Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)		Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)peryelene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)			
					CAS No.	83-32-9		208-96-8		120-12-7		56-55-3		50-32-8		205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0			
					Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM			
					DOH Tier 1 EAL	20		240		0.18		0.029		0.2		0.22		0.13		0.4		1		0.022		13		240		0.095		210		68			
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L			
					Minimum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND			
					Maximum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND			
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result			
RHMW14-03	ALS Kelso	K2311233	RHMW14-03-WGN01G-2310	10/2/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW14-03	SGS Orlando	FC10202	RHMW14-03-WGN01G-2310	10/2/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U		
RHMW14-03	APPL	23J0095	RHMW14-03-WGN01G-23Q4	10/9/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW14-03	Energy	B23100745	RHMW14-03-WGN01G-23Q4	10/9/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW14-03	SGS Orlando	FC10327	RHMW14-03-WGN01G-23Q4	10/9/2023	Primary	<0.4	UJ	<0.4	UJ	<0.4	UJ	<0.04	UJ	<0.04	UJ	<0.04	UJ	<0.04	UJ	<0.04	UJ	<0.08	UJ	<0.04	UJ	<0.4	UJ	<0.4	UJ	<0.04	UJ	<0.4	UJ	<0.4	UJ		
RHMW14-03	APPL	23J0262	RHMW14-03-WGN01G-2310WK4-DF	10/24/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW14-03	SGS Orlando	FC10716	RHMW14-03-WGN01G-2310WK4-DF	10/24/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U		
RHMW14-03	APPL	23J0325	RHMW14-03-WGN01G-2310WK5-DF	10/30/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW14-03	SGS Orlando	FC10844	RHMW14-03-WGN01G-2310WK5-DF	10/30/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U		
RHMW14-03	ALS Kelso	K2312628	RHMW14-03-WGN01G-2311-DF	11/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW14-03	APPL	23K0041	RHMW14-03-WGN01G-2311-DF	11/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW14-03	SGS Orlando	FC11019	RHMW14-03-WGN01G-2311-DF	11/6/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U		
RHMW14-03	SGS Orlando	FC11019B	RHMW14-03-WGN01G-2311-DF	11/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW14-03	APPL	23K0134	RHMW14-03-WGN01G-2311WK2-DF	11/15/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW14-03	SGS Orlando	FC11293	RHMW14-03-WGN01G-2311WK2-DF	11/15/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U		
RHMW14-03	APPL	23K0214	RHMW14-03-WGN01G-2311WK3-DF	11/22/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW14-03	SGS Orlando	FC11474	RHMW14-03-WGN01G-2311WK3-DF	11/22/2023	Primary	<0.42	UJ	<0.42	UJ	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	UJ	<0.042	U	<0.42	UJ	<0.42	U		
RHMW14-03	APPL	23K0219	RHMW14-03-WGN01G-2311WK4-DF	11/27/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW14-03	SGS Orlando	FC11512	RHMW14-03-WGN01G-2311WK4-DF	11/27/2023	Primary	<0.42	UJ	<0.42	UJ	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	UJ	<0.042	U	<0.42	UJ	<0.42	U		
RHMW14-03	APPL	23L0019	RHMW14-03-WGN01G-2312-DF	12/4/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW14-03	SGS Anchorage	1236588_EDMS	RHMW14-03-WGN01G-2312-DF	12/4/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW14-03	SGS Orlando	FC11688	RHMW14-03-WGN01G-2312-DF	12/4/2023	Primary	<0.42	UJ	<0.42	UJ	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	UJ	<0.042	U	<0.42	UJ	<0.42	U		
RHMW14-03	SGS Orlando	FC11688B	RHMW14-03-WGN01G-2312-DF	12/4/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW14-03	APPL	23L0108	RHMW14-03-WGN01G-2312WK2-DF	12/13/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW14-03	SGS Orlando	FC11982	RHMW14-03-WGN01G-2312WK2-DF	12/13/2023	Primary	<0.4	UJ	<0.4	UJ	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	UJ	<0.4	UJ	<0.04	U	<0.4	UJ	<0.4	U		
RHMW14-03	SGS Orlando	FC11982A	RHMW14-03-WGN01G-2312WK2-DF	12/13/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW14-03	APPL	23L0179	RHMW14-03-WGN01G-2312WK3-DF	12/20/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW14-03	SGS Orlando	FC12167	RHMW14-03-WGN01G-2312WK3-DF	12/20/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U		
RHMW14-03	APPL	23L0220	RHMW14-03-WGN01G-2312WK4-DF	12/28/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW14-03	SGS Orlando	FC12289	RHMW14-03-WGN01G-2312WK4-DF	12/28/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U		
RHMW14-03	APPL	24A0035	RHMW14-03-WGN01G-2401-DF	1/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW14-03	SGS Anchorage	1240082_EDMS	RHMW14-03-WGN01G-2401-DF	1/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW14-03	SGS Orlando	FC12403	RHMW14-03-WGN01G-2401-DF	1/4/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U		
RHMW14-03	SGS Orlando	FC12403B	RHMW14-03-WGN01G-2401-DF	1/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW14-03	APPL	24A0066	RHMW14-03-WGN01G-2401WK2-DF	1/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW14-03	SGS Orlando	FC12522	RHMW14-03-WGN01G-2401WK2-DF	1/10/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U		
RHMW14-03	APPL	24A0125	RHMW14-03-WGN01G-2401WK3-DF	1/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW14-03	SGS Orlando	FC12661	RHMW14-03-WGN01G-2401WK3-DF	1/17/2024	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U		

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHMW14-03

						Fuel Additive				Lead Scavengers				Natural Attenuation Parameters					
					Analyte	2-(2- Methoxyethoxy)-ethanol [b]		Phenol		1,2-Dibromoethane		1,2-Dichloroethane		Methane		Total Organic Carbon		NV Dissolved Organic Carbon	
					CAS No.	111-77-3		108-95-2		106-93-4		107-06-2		74-82-8		TOC		—	
					Method	8270D		SW8270		8011		8260		RSK 175		9060		9060	
					DOH Tier 1 EAL	800		300		0.04		5		—		—		—	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		ND		0.34		ND		3700	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result	
RHMW14-03	ALS Kelso	K2311233	RHMW14-03-WGN01G-2310	10/2/2023	Primary	–		–		–		–		–		<500	U	1800	J
RHMW14-03	SGS Orlando	FC10202	RHMW14-03-WGN01G-2310	10/2/2023	Primary	–		<2	U	–		–		<0.25	U	–		–	
RHMW14-03	APPL	23J0095	RHMW14-03-WGN01G-23Q4	10/9/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHMW14-03	Energy	B23100745	RHMW14-03-WGN01G-23Q4	10/9/2023	Primary	–		–		–		–		–		–		–	
RHMW14-03	SGS Orlando	FC10327	RHMW14-03-WGN01G-23Q4	10/9/2023	Primary	–		<1.9	U	–		–		0.34	J	<1000	U	–	
RHMW14-03	APPL	23J0262	RHMW14-03-WGN01G-2310WK4-DF	10/24/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHMW14-03	SGS Orlando	FC10716	RHMW14-03-WGN01G-2310WK4-DF	10/24/2023	Primary	–		<1.9	U	<0.015	U	<0.5	U	–		–		–	
RHMW14-03	APPL	23J0325	RHMW14-03-WGN01G-2310WK5-DF	10/30/2023	Primary	<80	U	–		–		–		–		–		–	
RHMW14-03	SGS Orlando	FC10844	RHMW14-03-WGN01G-2310WK5-DF	10/30/2023	Primary	–		<1.9	U	<0.015	U	<0.5	U	–		–		–	
RHMW14-03	ALS Kelso	K2312628	RHMW14-03-WGN01G-2311-DF	11/6/2023	Primary	–		–		–		–		–		<500	U	3700	
RHMW14-03	APPL	23K0041	RHMW14-03-WGN01G-2311-DF	11/6/2023	Primary	<80	U	–		–		–		–		–		–	
RHMW14-03	SGS Orlando	FC11019	RHMW14-03-WGN01G-2311-DF	11/6/2023	Primary	–		<1.9	U	<0.015	U	<0.5	U	–		–		–	
RHMW14-03	SGS Orlando	FC11019B	RHMW14-03-WGN01G-2311-DF	11/6/2023	Primary	–		–		–		–		<0.25	U	–		–	
RHMW14-03	APPL	23K0134	RHMW14-03-WGN01G-2311WK2-DF	11/15/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHMW14-03	SGS Orlando	FC11293	RHMW14-03-WGN01G-2311WK2-DF	11/15/2023	Primary	–		<1.9	U	<0.015	U	<0.5	U	–		–		–	
RHMW14-03	APPL	23K0214	RHMW14-03-WGN01G-2311WK3-DF	11/22/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHMW14-03	SGS Orlando	FC11474	RHMW14-03-WGN01G-2311WK3-DF	11/22/2023	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	
RHMW14-03	APPL	23K0219	RHMW14-03-WGN01G-2311WK4-DF	11/27/2023	Primary	<80	U	–		–		–		–		–		–	
RHMW14-03	SGS Orlando	FC11512	RHMW14-03-WGN01G-2311WK4-DF	11/27/2023	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	
RHMW14-03	APPL	23L0019	RHMW14-03-WGN01G-2312-DF	12/4/2023	Primary	<80	U	–		–		–		–		–		–	
RHMW14-03	SGS Anchorage	1236588_EDMS	RHMW14-03-WGN01G-2312-DF	12/4/2023	Primary	–		–		–		–		–		<750	U	<750	U
RHMW14-03	SGS Orlando	FC11688	RHMW14-03-WGN01G-2312-DF	12/4/2023	Primary	–		<2	U	<0.015	U	<0.5	U	–		–		–	
RHMW14-03	SGS Orlando	FC11688B	RHMW14-03-WGN01G-2312-DF	12/4/2023	Primary	–		–		–		–		<0.25	U	–		–	
RHMW14-03	APPL	23L0108	RHMW14-03-WGN01G-2312WK2-DF	12/13/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHMW14-03	SGS Orlando	FC11982	RHMW14-03-WGN01G-2312WK2-DF	12/13/2023	Primary	–		<1.9	U	–		<0.5	U	–		–		–	
RHMW14-03	SGS Orlando	FC11982A	RHMW14-03-WGN01G-2312WK2-DF	12/13/2023	Primary	–		–		<0.014	U	–		–		–		–	
RHMW14-03	APPL	23L0179	RHMW14-03-WGN01G-2312WK3-DF	12/20/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHMW14-03	SGS Orlando	FC12167	RHMW14-03-WGN01G-2312WK3-DF	12/20/2023	Primary	–		<1.9	U	<0.014	U	<0.5	U	–		–		–	
RHMW14-03	APPL	23L0220	RHMW14-03-WGN01G-2312WK4-DF	12/28/2023	Primary	<80	U	–		–		–		–		–		–	
RHMW14-03	SGS Orlando	FC12289	RHMW14-03-WGN01G-2312WK4-DF	12/28/2023	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	
RHMW14-03	APPL	24A0035	RHMW14-03-WGN01G-2401-DF	1/4/2024	Primary	<80	UJ	–		–		–		–		–		–	
RHMW14-03	SGS Anchorage	1240082_EDMS	RHMW14-03-WGN01G-2401-DF	1/4/2024	Primary	–		–		–		–		–		<750	U	<750	U
RHMW14-03	SGS Orlando	FC12403	RHMW14-03-WGN01G-2401-DF	1/4/2024	Primary	–		<2	U	<0.014	UJ	<0.5	U	–		–		–	
RHMW14-03	SGS Orlando	FC12403B	RHMW14-03-WGN01G-2401-DF	1/4/2024	Primary	–		–		–		–		<0.25	U	–		–	
RHMW14-03	APPL	24A0066	RHMW14-03-WGN01G-2401WK2-DF	1/10/2024	Primary	<80	UJ	–		–		–		–		–		–	
RHMW14-03	SGS Orlando	FC12522	RHMW14-03-WGN01G-2401WK2-DF	1/10/2024	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	
RHMW14-03	APPL	24A0125	RHMW14-03-WGN01G-2401WK3-DF	1/17/2024	Primary	<80	UJ	–		–		–		–		–		–	
RHMW14-03	SGS Orlando	FC12661	RHMW14-03-WGN01G-2401WK3-DF	1/17/2024	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHMW15-05

						Total Petroleum Hydrocarbons										Volatile Organic Compounds								Polycyclic Aromatic Hydrocarbons (PAHs) – AOC/LTM					
					Analyte	TPH-g		TPH-d [a]		TPH-o [a]		TPH-d with Silica Gel Cleanup [a]		TPH-o with Silica Gel Cleanup [a]		Benzene		Ethylbenzene		Toluene		Xylenes		1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene	
					CAS No.	PHCC6C10		PHCC10C24		PHCC24C40		PHCC10C24SGC		PHCC24C40SGC		71-43-2		100-41-4		108-88-3		1330-20-7		90-12-0		91-57-6		91-20-3	
					Method	8260		8015		8015		8015		8015		8260		8260		8260		8260		8270 SIM		8270 SIM		8270 SIM	
					DOH Tier 1 EAL	300		400		500		—		—		5		30		40		20		10		10		17	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		–		–		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		–		–		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW15-05	SGS Orlando	FC9446	RHMW15-05-WGN01G-2309	9/7/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW15-05	ALS Kelso	K2311474	RHMW15-05-WGN01G-2310	10/4/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	SGS Orlando	FC10248	RHMW15-05-WGN01G-2310	10/4/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	UJ	<0.42	UJ	<0.42	UJ
RHMW15-05	APPL	23J0132	RHMW15-05-WGN01G-23Q4	10/11/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Energy	B23101127	RHMW15-05-WGN01G-23Q4	10/11/2023	Primary	<8.5	U	<140	U	<140	U	–		–		<0.1	U	<0.1	U	<0.2	U	<0.1	U	–		–		–	
RHMW15-05	SGS Orlando	FC10442	RHMW15-05-WGN01G-23Q4	10/11/2023	Primary	–		–		–		–		–		–		–		–		–		<0.4	U	<0.4	U	<0.4	U
RHMW15-05	APPL	23J0260	RHMW15-05-WGN01G-2310WK4-DF	10/23/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	SGS Orlando	FC10676	RHMW15-05-WGN01G-2310WK4-DF	10/23/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW15-05	APPL	23K0012	RHMW15-05-WGN01G-2310WK5-DF	11/1/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	SGS Orlando	FC10911	RHMW15-05-WGN01G-2310WK5-DF	11/1/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW15-05	ALS Kelso	K2312749	RHMW15-05-WGN01G-2311-DF	11/8/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	APPL	23K0068	RHMW15-05-WGN01G-2311-DF	11/8/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	SGS Orlando	FC11097	RHMW15-05-WGN01G-2311-DF	11/8/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	UJ	<0.42	U	<0.42	U
RHMW15-05	SGS Orlando	FC11097B	RHMW15-05-WGN01G-2311-DF	11/8/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	APPL	23K0106	RHMW15-05-WGN01G-2311WK2-DF	11/13/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	SGS Orlando	FC11221	RHMW15-05-WGN01G-2311WK2-DF	11/13/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW15-05	APPL	23K0205	RHMW15-05-WGN01G-2311WK3-DF	11/21/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	SGS Orlando	FC11473	RHMW15-05-WGN01G-2311WK3-DF	11/21/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	UJ	<0.42	UJ	<0.42	U
RHMW15-05	APPL	23K0236	RHMW15-05-WGN01G-2311WK4-DF	11/29/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	SGS Orlando	FC11596	RHMW15-05-WGN01G-2311WK4-DF	11/29/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	UJ	<0.42	UJ	<0.42	U
RHMW15-05	APPL	23L0035	RHMW15-05-WGN01G-2312-DF	12/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	SGS Anchorage	1236637_EDMS	RHMW15-05-WGN01G-2312-DF	12/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	SGS Orlando	FC11754	RHMW15-05-WGN01G-2312-DF	12/6/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	UJ	<0.4	UJ	<0.4	U
RHMW15-05	SGS Orlando	FC11754B	RHMW15-05-WGN01G-2312-DF	12/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	APPL	23L0083	RHMW15-05-WGN01G-2312WK2-DF	12/11/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	SGS Orlando	FC11893	RHMW15-05-WGN01G-2312WK2-DF	12/11/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	UJ	<0.4	UJ	<0.4	U
RHMW15-05	APPL	23L0150	RHMW15-05-WGN01G-2312WK3-DF	12/18/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	SGS Orlando	FC12097	RHMW15-05-WGN01G-2312WK3-DF	12/18/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U
RHMW15-05	APPL	23L0222	RHMW15-05-WGN01G-2312WK4-DF	12/29/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	SGS Orlando	FC12292	RHMW15-05-WGN01G-2312WK4-DF	12/29/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW15-05	APPL	24A0039	RHMW15-05-WGN01G-2401-DF	1/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	SGS Anchorage	1240121_EDMS	RHMW15-05-WGN01G-2401-DF	1/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	SGS Orlando	FC12419	RHMW15-05-WGN01G-2401-DF	1/5/2024	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW15-05	SGS Orlando	FC12419B	RHMW15-05-WGN01G-2401-DF	1/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	APPL	24A0050	RHMW15-05-WGN01G-2401WK2-DF	1/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	SGS Orlando	FC12452	RHMW15-05-WGN01G-2401WK2-DF	1/8/2024	Primary	<50	U	<110	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW15-05	APPL	24A0104	RHMW15-05-WGN01G-2401WK3-DF	1/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	SGS Orlando	FC12594	RHMW15-05-WGN01G-2401WK3-DF	1/15/2024	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHMW15-05

						Polycyclic Aromatic Hydrocarbons (PAHs)																													
					Analyte	Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)		Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)peryelene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
					CAS No.	83-32-9		208-96-8		120-12-7		56-55-3		50-32-8		205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
					Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
					DOH Tier 1 EAL	20		240		0.18		0.029		0.2		0.22		0.13		0.4		1		0.022		13		240		0.095		210		68	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW15-05	SGS Orlando	FC9446	RHMW15-05-WGN01G-2309	9/7/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW15-05	ALS Kelso	K2311474	RHMW15-05-WGN01G-2310	10/4/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	SGS Orlando	FC10248	RHMW15-05-WGN01G-2310	10/4/2023	Primary	<0.42	UJ	<0.42	UJ	<0.42	UJ	<0.042	UJ	<0.042	UJ	<0.042	UJ	<0.042	UJ	<0.042	UJ	<0.083	UJ	<0.042	UJ	<0.42	UJ	<0.42	UJ	<0.042	UJ	<0.42	UJ	<0.42	UJ
RHMW15-05	APPL	23J0132	RHMW15-05-WGN01G-23Q4	10/11/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Energy	B23101127	RHMW15-05-WGN01G-23Q4	10/11/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	SGS Orlando	FC10442	RHMW15-05-WGN01G-23Q4	10/11/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHMW15-05	APPL	23J0260	RHMW15-05-WGN01G-2310WK4-DF	10/23/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	SGS Orlando	FC10676	RHMW15-05-WGN01G-2310WK4-DF	10/23/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW15-05	APPL	23K0012	RHMW15-05-WGN01G-2310WK5-DF	11/1/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	SGS Orlando	FC10911	RHMW15-05-WGN01G-2310WK5-DF	11/1/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW15-05	ALS Kelso	K2312749	RHMW15-05-WGN01G-2311-DF	11/8/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	APPL	23K0068	RHMW15-05-WGN01G-2311-DF	11/8/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	SGS Orlando	FC11097	RHMW15-05-WGN01G-2311-DF	11/8/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW15-05	SGS Orlando	FC11097B	RHMW15-05-WGN01G-2311-DF	11/8/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	APPL	23K0106	RHMW15-05-WGN01G-2311WK2-DF	11/13/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	SGS Orlando	FC11221	RHMW15-05-WGN01G-2311WK2-DF	11/13/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	UJ	<0.42	U	<0.42	U
RHMW15-05	APPL	23K0205	RHMW15-05-WGN01G-2311WK3-DF	11/21/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	SGS Orlando	FC11473	RHMW15-05-WGN01G-2311WK3-DF	11/21/2023	Primary	<0.42	UJ	<0.42	UJ	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	UJ	<0.042	U	<0.42	UJ	<0.42	U
RHMW15-05	APPL	23K0236	RHMW15-05-WGN01G-2311WK4-DF	11/29/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	SGS Orlando	FC11596	RHMW15-05-WGN01G-2311WK4-DF	11/29/2023	Primary	<0.42	UJ	<0.42	UJ	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	UJ	<0.042	U	<0.42	UJ	<0.42	U
RHMW15-05	APPL	23L0035	RHMW15-05-WGN01G-2312-DF	12/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	SGS Anchorage	1236637_EDMS	RHMW15-05-WGN01G-2312-DF	12/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	SGS Orlando	FC11754	RHMW15-05-WGN01G-2312-DF	12/6/2023	Primary	<0.4	UJ	<0.4	UJ	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	UJ	<0.4	UJ	<0.04	U	<0.4	UJ	<0.4	U
RHMW15-05	SGS Orlando	FC11754B	RHMW15-05-WGN01G-2312-DF	12/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	APPL	23L0083	RHMW15-05-WGN01G-2312WK2-DF	12/11/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	SGS Orlando	FC11893	RHMW15-05-WGN01G-2312WK2-DF	12/11/2023	Primary	<0.4	UJ	<0.4	UJ	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	UJ	<0.4	UJ	<0.04	U	<0.4	UJ	<0.4	U
RHMW15-05	APPL	23L0150	RHMW15-05-WGN01G-2312WK3-DF	12/18/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	SGS Orlando	FC12097	RHMW15-05-WGN01G-2312WK3-DF	12/18/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHMW15-05	APPL	23L0222	RHMW15-05-WGN01G-2312WK4-DF	12/29/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	SGS Orlando	FC12292	RHMW15-05-WGN01G-2312WK4-DF	12/29/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW15-05	APPL	24A0039	RHMW15-05-WGN01G-2401-DF	1/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	SGS Anchorage	1240121_EDMS	RHMW15-05-WGN01G-2401-DF	1/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	SGS Orlando	FC12419	RHMW15-05-WGN01G-2401-DF	1/5/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW15-05	SGS Orlando	FC12419B	RHMW15-05-WGN01G-2401-DF	1/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	APPL	24A0050	RHMW15-05-WGN01G-2401WK2-DF	1/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	SGS Orlando	FC12452	RHMW15-05-WGN01G-2401WK2-DF	1/8/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW15-05	APPL	24A0104	RHMW15-05-WGN01G-2401WK3-DF	1/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	SGS Orlando	FC12594	RHMW15-05-WGN01G-2401WK3-DF	1/15/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHMW15-05

						Fuel Additive				Lead Scavengers					Natural Attenuation Parameters							
					Analyte	2-(2- Methoxyethoxy)-ethanol [b]		Phenol		1,2-Dibromoethane		1,2-Dichloroethane		Methane		Total Organic Carbon		NV Dissolved Organic Carbon				
					CAS No.	111-77-3		108-95-2		106-93-4		107-06-2		74-82-8		TOC		—				
					Method	8270D		SW8270		8011		8260		RSK 175		9060		9060				
					DOH Tier 1 EAL	800		300		0.04		5		—		—		—				
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L				
					Minimum	ND		ND		ND		ND		ND		ND		ND				
					Maximum	ND		ND		ND		ND		0.33		353		2200				
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result				
RHMW15-05	SGS Orlando	FC9446	RHMW15-05-WGN01G-2309	9/7/2023	Primary	–		<2	U	–		–		<0.25	U	–		–				
RHMW15-05	ALS Kelso	K2311474	RHMW15-05-WGN01G-2310	10/4/2023	Primary	–		–		–		–		–		<500	U	720				
RHMW15-05	SGS Orlando	FC10248	RHMW15-05-WGN01G-2310	10/4/2023	Primary	–		<1.9	U	–		–		0.33	J	–		–				
RHMW15-05	APPL	23J0132	RHMW15-05-WGN01G-23Q4	10/11/2023	Primary	<80	UJ	–		–		–		–		–		–				
RHMW15-05	Energy	B23101127	RHMW15-05-WGN01G-23Q4	10/11/2023	Primary	–		–		–		–		–		–		–				
RHMW15-05	SGS Orlando	FC10442	RHMW15-05-WGN01G-23Q4	10/11/2023	Primary	–		<1.9	U	–		–		<0.25	U	–	R	–				
RHMW15-05	APPL	23J0260	RHMW15-05-WGN01G-2310WK4-DF	10/23/2023	Primary	<80	UJ	–		–		–		–		–		–				
RHMW15-05	SGS Orlando	FC10676	RHMW15-05-WGN01G-2310WK4-DF	10/23/2023	Primary	–		<1.9	U	<0.014	U	<0.5	U	–		–		–				
RHMW15-05	APPL	23K0012	RHMW15-05-WGN01G-2310WK5-DF	11/1/2023	Primary	<80	U	–		–		–		–		–		–				
RHMW15-05	SGS Orlando	FC10911	RHMW15-05-WGN01G-2310WK5-DF	11/1/2023	Primary	–		<1.9	U	<0.014	U	<0.5	U	–		–		–				
RHMW15-05	ALS Kelso	K2312749	RHMW15-05-WGN01G-2311-DF	11/8/2023	Primary	–		–		–		–		–		<500	U	2200	J			
RHMW15-05	APPL	23K0068	RHMW15-05-WGN01G-2311-DF	11/8/2023	Primary	<80	U	–		–		–		–		–		–				
RHMW15-05	SGS Orlando	FC11097	RHMW15-05-WGN01G-2311-DF	11/8/2023	Primary	–		<2	U	<0.015	U	<0.5	U	–		–		–				
RHMW15-05	SGS Orlando	FC11097B	RHMW15-05-WGN01G-2311-DF	11/8/2023	Primary	–		–		–		–		<0.25	U	–		–				
RHMW15-05	APPL	23K0106	RHMW15-05-WGN01G-2311WK2-DF	11/13/2023	Primary	<80	U	–		–		–		–		–		–				
RHMW15-05	SGS Orlando	FC11221	RHMW15-05-WGN01G-2311WK2-DF	11/13/2023	Primary	–		<1.9	UJ	<0.015	U	<0.5	U	–		–		–				
RHMW15-05	APPL	23K0205	RHMW15-05-WGN01G-2311WK3-DF	11/21/2023	Primary	<80	U	–		–		–		–		–		–				
RHMW15-05	SGS Orlando	FC11473	RHMW15-05-WGN01G-2311WK3-DF	11/21/2023	Primary	–		<2	U	<0.015	U	<0.5	U	–		–		–				
RHMW15-05	APPL	23K0236	RHMW15-05-WGN01G-2311WK4-DF	11/29/2023	Primary	<80	UJ	–		–		–		–		–		–				
RHMW15-05	SGS Orlando	FC11596	RHMW15-05-WGN01G-2311WK4-DF	11/29/2023	Primary	–		<1.9	U	<0.015	U	<0.5	U	–		–		–				
RHMW15-05	APPL	23L0035	RHMW15-05-WGN01G-2312-DF	12/6/2023	Primary	<80	UJ	–		–		–		–		–		–				
RHMW15-05	SGS Anchorage	1236637_EDMS	RHMW15-05-WGN01G-2312-DF	12/6/2023	Primary	–		–		–		–		–		<750	U	<750	U			
RHMW15-05	SGS Orlando	FC11754	RHMW15-05-WGN01G-2312-DF	12/6/2023	Primary	–		<1.9	U	<0.014	U	<0.5	U	–		–		–				
RHMW15-05	SGS Orlando	FC11754B	RHMW15-05-WGN01G-2312-DF	12/6/2023	Primary	–		–		–		–		0.18	J	–		–				
RHMW15-05	APPL	23L0083	RHMW15-05-WGN01G-2312WK2-DF	12/11/2023	Primary	<80	UJ	–		–		–		–		–		–				
RHMW15-05	SGS Orlando	FC11893	RHMW15-05-WGN01G-2312WK2-DF	12/11/2023	Primary	–		<2	U	<0.015	U	<0.5	U	–		–		–				
RHMW15-05	APPL	23L0150	RHMW15-05-WGN01G-2312WK3-DF	12/18/2023	Primary	<80	UJ	–		–		–		–		–		–				
RHMW15-05	SGS Orlando	FC12097	RHMW15-05-WGN01G-2312WK3-DF	12/18/2023	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–				
RHMW15-05	APPL	23L0222	RHMW15-05-WGN01G-2312WK4-DF	12/29/2023	Primary	<80	U	–		–		–		–		–		–				
RHMW15-05	SGS Orlando	FC12292	RHMW15-05-WGN01G-2312WK4-DF	12/29/2023	Primary	–		<2	U	<0.015	U	<0.5	U	–		–		–				
RHMW15-05	APPL	24A0039	RHMW15-05-WGN01G-2401-DF	1/5/2024	Primary	<80	UJ	–		–		–		–		–		–				
RHMW15-05	SGS Anchorage	1240121_EDMS	RHMW15-05-WGN01G-2401-DF	1/5/2024	Primary	–		–		–		–		–		353	J	1080				
RHMW15-05	SGS Orlando	FC12419	RHMW15-05-WGN01G-2401-DF	1/5/2024	Primary	–		<2	U	<0.014	UJ	<0.5	U	–		–		–				
RHMW15-05	SGS Orlando	FC12419B	RHMW15-05-WGN01G-2401-DF	1/5/2024	Primary	–		–		–		–		<0.25	U	–		–				
RHMW15-05	APPL	24A0050	RHMW15-05-WGN01G-2401WK2-DF	1/8/2024	Primary	<80	UJ	–		–		–		–		–		–				
RHMW15-05	SGS Orlando	FC12452	RHMW15-05-WGN01G-2401WK2-DF	1/8/2024	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–				
RHMW15-05	APPL	24A0104	RHMW15-05-WGN01G-2401WK3-DF	1/15/2024	Primary	<80	UJ	–		–		–		–		–		–				
RHMW15-05	SGS Orlando	FC12594	RHMW15-05-WGN01G-2401WK3-DF	1/15/2024	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–				

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHMW16

						Total Petroleum Hydrocarbons										Volatile Organic Compounds								Polycyclic Aromatic Hydrocarbons (PAHs) – AOC/LTM					
					Analyte	TPH-g		TPH-d [a]		TPH-o [a]		TPH-d with Silica Gel Cleanup [a]		TPH-o with Silica Gel Cleanup [a]		Benzene		Ethylbenzene		Toluene		Xylenes		1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene	
					CAS No.	PHCC6C10		PHCC10C24		PHCC24C40		PHCC10C24SGC		PHCC24C40SGC		71-43-2		100-41-4		108-88-3		1330-20-7		90-12-0		91-57-6		91-20-3	
					Method	8260		8015		8015		8015		8015		8260		8260		8260		8260		8270 SIM		8270 SIM		8270 SIM	
					DOH Tier 1 EAL	300		400		500		—		—		5		30		40		20		10		10		17	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		–		–		ND		ND		ND		ND		ND		ND		ND	
					Maximum	4.79		ND		ND		–		–		ND		ND		ND		ND		ND		ND		0.34	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW16	SGS Orlando	FC9446	RHMW16-WGN01LF-2309	9/7/2023	Primary	<50	U	<100	U	<160	UJ	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	**0.34**	J
RHMW16	ALS Kelso	K2311474	RHMW16-WGN01LF-2310	10/5/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	SGS Orlando	FC10295	RHMW16-WGN01LF-2310	10/5/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	UJ	<0.4	UJ	<0.4	UJ
RHMW16	APPL	23J0131	RHMW16-WGFD01LF-23Q4	10/12/2023	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Energy	B23101113	RHMW16-WGFD01LF-23Q4	10/12/2023	Field Duplicate	<8.5	U	<143	U	<143	U	–		–		<0.1	U	<0.1	U	<0.2	U	<0.1	U	–		–		–	
RHMW16	SGS Orlando	FC10448	RHMW16-WGFD01LF-23Q4	10/12/2023	Field Duplicate	–		–		–		–		–		–		–		–		–		<0.4	U	<0.4	U	<0.4	U
RHMW16	APPL	23J0131	RHMW16-WGN01LF-23Q4	10/12/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Energy	B23101113	RHMW16-WGN01LF-23Q4	10/12/2023	Primary	**4.79**	J	<143	U	<143	U	–		–		<0.1	U	<0.1	U	<0.2	U	<0.1	U	–		–		–	
RHMW16	SGS Orlando	FC10448	RHMW16-WGN01LF-23Q4	10/12/2023	Primary	–		–		–		–		–		–		–		–		–		<0.4	U	<0.4	U	<0.4	U
RHMW16	APPL	23J0296	RHMW16-WGN01LF-2310WK4-DF	10/26/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	SGS Orlando	FC10788	RHMW16-WGN01LF-2310WK4-DF	10/26/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	UJ	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U
RHMW16	APPL	23K0001	RHMW16-WGN01LF-2310WK5-DF	10/31/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	SGS Orlando	FC10882	RHMW16-WGN01LF-2310WK5-DF	10/31/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.43	U	<0.43	U	<0.43	U
RHMW16	ALS Kelso	K2312628	RHMW16-WGN01LF-2311-DF	11/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	APPL	23K0041	RHMW16-WGN01LF-2311-DF	11/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	SGS Orlando	FC11019	RHMW16-WGN01LF-2311-DF	11/6/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW16	SGS Orlando	FC11019B	RHMW16-WGN01LF-2311-DF	11/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	APPL	23K0106	RHMW16-WGN01LF-2311WK2-DF	11/13/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	SGS Orlando	FC11221	RHMW16-WGN01LF-2311WK2-DF	11/13/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW16	APPL	23K0183	RHMW16-WGN01LF-2311WK3-DF	11/20/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	SGS Orlando	FC11419	RHMW16-WGN01LF-2311WK3-DF	11/20/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	UJ	<0.5	UJ	<0.5	UJ	<1.5	UJ	<0.42	UJ	<0.42	UJ	<0.42	U
RHMW16	APPL	23K0231	RHMW16-WGN01LF-2311WK4-DF	11/28/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	SGS Orlando	FC11564	RHMW16-WGN01LF-2311WK4-DF	11/28/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	UJ	<0.42	UJ	<0.42	U
RHMW16	APPL	23L0019	RHMW16-WGN01LF-2312-DF	12/4/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	SGS Anchorage	1236588_EDMS	RHMW16-WGN01LF-2312-DF	12/4/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	SGS Orlando	FC11688	RHMW16-WGN01LF-2312-DF	12/4/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	UJ	<0.42	UJ	<0.42	U
RHMW16	SGS Orlando	FC11688B	RHMW16-WGN01LF-2312-DF	12/4/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	APPL	23L0083	RHMW16-WGN01LF-2312WK2-DF	12/11/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	SGS Orlando	FC11893	RHMW16-WGN01LF-2312WK2-DF	12/11/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	UJ	<0.4	UJ	<0.4	U
RHMW16	APPL	23L0150	RHMW16-WGN01LF-2312WK3-DF	12/18/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	SGS Orlando	FC12097	RHMW16-WGN01LF-2312WK3-DF	12/18/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW16	APPL	23L0208	RHMW16-WGN01LF-2312WK4-DF	12/26/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	SGS Orlando	FC12235	RHMW16-WGN01LF-2312WK4-DF	12/26/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U
RHMW16	APPL	24A0022	RHMW16-WGN01LF-2401-DF	1/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	SGS Anchorage	1240064_EDMS	RHMW16-WGN01LF-2401-DF	1/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	SGS Orlando	FC12382	RHMW16-WGN01LF-2401-DF	1/3/2024	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U
RHMW16	SGS Orlando	FC12382B	RHMW16-WGN01LF-2401-DF	1/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	APPL	24A0050	RHMW16-WGN01LF-2401WK2-DF	1/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	SGS Orlando	FC12452	RHMW16-WGN01LF-2401WK2-DF	1/8/2024	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U
RHMW16	APPL	24A0104	RHMW16-WGN01LF-2401WK3-DF	1/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	SGS Orlando	FC12594	RHMW16-WGN01LF-2401WK3-DF	1/15/2024	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHMW16

						Polycyclic Aromatic Hydrocarbons (PAHs)																													
					Analyte	Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)		Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)peryelene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
					CAS No.	83-32-9		208-96-8		120-12-7		56-55-3		50-32-8		205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
					Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
					DOH Tier 1 EAL	20		240		0.18		0.029		0.2		0.22		0.13		0.4		1		0.022		13		240		0.095		210		68	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW16	SGS Orlando	FC9446	RHMW16-WGN01LF-2309	9/7/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	UJ	<0.042	UJ	<0.042	U	<0.042	UJ	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW16	ALS Kelso	K2311474	RHMW16-WGN01LF-2310	10/5/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	SGS Orlando	FC10295	RHMW16-WGN01LF-2310	10/5/2023	Primary	<0.4	UJ	<0.4	UJ	<0.4	UJ	<0.04	UJ	<0.04	UJ	<0.04	UJ	<0.04	UJ	<0.04	UJ	<0.08	UJ	<0.04	UJ	<0.4	UJ	<0.4	UJ	<0.04	UJ	<0.4	UJ	<0.4	UJ
RHMW16	APPL	23J0131	RHMW16-WGFD01LF-23Q4	10/12/2023	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Energy	B23101113	RHMW16-WGFD01LF-23Q4	10/12/2023	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	SGS Orlando	FC10448	RHMW16-WGFD01LF-23Q4	10/12/2023	Field Duplicate	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHMW16	APPL	23J0131	RHMW16-WGN01LF-23Q4	10/12/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Energy	B23101113	RHMW16-WGN01LF-23Q4	10/12/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	SGS Orlando	FC10448	RHMW16-WGN01LF-23Q4	10/12/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHMW16	APPL	23J0296	RHMW 16-WGN01LF-2310WK4-DF	10/26/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	SGS Orlando	FC10788	RHMW 16-WGN01LF-2310WK4-DF	10/26/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHMW16	APPL	23K0001	RHMW 16-WGN01LF-2310WK5-DF	10/31/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	SGS Orlando	FC10882	RHMW 16-WGN01LF-2310WK5-DF	10/31/2023	Primary	<0.43	U	<0.43	U	<0.43	U	<0.043	U	<0.043	U	<0.043	U	<0.043	U	<0.043	U	<0.087	U	<0.043	U	<0.43	U	<0.43	U	<0.043	U	<0.43	U	<0.43	U
RHMW16	ALS Kelso	K2312628	RHMW16-WGN01LF-2311-DF	11/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	APPL	23K0041	RHMW16-WGN01LF-2311-DF	11/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	SGS Orlando	FC11019	RHMW16-WGN01LF-2311-DF	11/6/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW16	SGS Orlando	FC11019B	RHMW16-WGN01LF-2311-DF	11/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	APPL	23K0106	RHMW16-WGN01LF-2311WK2-DF	11/13/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	SGS Orlando	FC11221	RHMW16-WGN01LF-2311WK2-DF	11/13/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	UJ	<0.42	U	<0.42	U
RHMW16	APPL	23K0183	RHMW16-WGN01LF-2311WK3-DF	11/20/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	SGS Orlando	FC11419	RHMW16-WGN01LF-2311WK3-DF	11/20/2023	Primary	<0.42	UJ	<0.42	UJ	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	UJ	<0.042	U	<0.42	UJ	<0.42	U
RHMW16	APPL	23K0231	RHMW16-WGN01LF-2311WK4-DF	11/28/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	SGS Orlando	FC11564	RHMW16-WGN01LF-2311WK4-DF	11/28/2023	Primary	<0.42	UJ	<0.42	UJ	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	UJ	<0.042	U	<0.42	UJ	<0.42	U
RHMW16	APPL	23L0019	RHMW16-WGN01LF-2312-DF	12/4/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	SGS Anchorage	1236588_EDMS	RHMW16-WGN01LF-2312-DF	12/4/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	SGS Orlando	FC11688	RHMW16-WGN01LF-2312-DF	12/4/2023	Primary	<0.42	UJ	<0.42	UJ	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	UJ	<0.042	U	<0.42	UJ	<0.42	U
RHMW16	SGS Orlando	FC11688B	RHMW16-WGN01LF-2312-DF	12/4/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	APPL	23L0083	RHMW 16-WGN01LF-2312WK2-DF	12/11/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	SGS Orlando	FC11893	RHMW 16-WGN01LF-2312WK2-DF	12/11/2023	Primary	<0.4	UJ	<0.4	UJ	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	UJ	<0.4	UJ	<0.04	U	<0.4	UJ	<0.4	U
RHMW16	APPL	23L0150	RHMW 16-WGN01LF-2312WK3-DF	12/18/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	SGS Orlando	FC12097	RHMW 16-WGN01LF-2312WK3-DF	12/18/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW16	APPL	23L0208	RHMW 16-WGN01LF-2312WK4-DF	12/26/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	SGS Orlando	FC12235	RHMW 16-WGN01LF-2312WK4-DF	12/26/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHMW16	APPL	24A0022	RHMW16-WGN01LF-2401-DF	1/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	SGS Anchorage	1240064_EDMS	RHMW16-WGN01LF-2401-DF	1/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	SGS Orlando	FC12382	RHMW16-WGN01LF-2401-DF	1/3/2024	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHMW16	SGS Orlando	FC12382B	RHMW16-WGN01LF-2401-DF	1/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	APPL	24A0050	RHMW 16-WGN01LF-2401WK2-DF	1/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	SGS Orlando	FC12452	RHMW 16-WGN01LF-2401WK2-DF	1/8/2024	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHMW16	APPL	24A0104	RHMW 16-WGN01LF-2401WK3-DF	1/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	SGS Orlando	FC12594	RHMW 16-WGN01LF-2401WK3-DF	1/15/2024	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHMW16

						Fuel Additive				Lead Scavengers				Natural Attenuation Parameters					
					Analyte	2-(2- Methoxyethoxy)-ethanol [b]		Phenol		1,2-Dibromoethane		1,2-Dichloroethane		Methane		Total Organic Carbon		NV Dissolved Organic Carbon	
					CAS No.	111-77-3		108-95-2		106-93-4		107-06-2		74-82-8		TOC		—	
					Method	8270D		SW8270		8011		8260		RSK 175		9060		9060	
					DOH Tier 1 EAL	800		300		0.04		5		—		—		—	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		ND		0.46		296		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result	
RHMW16	SGS Orlando	FC9446	RHMW16-WGN01LF-2309	9/7/2023	Primary	–		<2	U	–		–		<0.25	U	–		–	
RHMW16	ALS Kelso	K2311474	RHMW16-WGN01LF-2310	10/5/2023	Primary	–		–		–		–		–		<500	U	<500	U
RHMW16	SGS Orlando	FC10295	RHMW16-WGN01LF-2310	10/5/2023	Primary	–		<1.9	U	–		–		**0.46**	**J**	–		–	
RHMW16	APPL	23J0131	RHMW16-WGFD01LF-23Q4	10/12/2023	Field Duplicate	–	**R**	–		–		–		–		–		–	
RHMW16	Energy	B23101113	RHMW16-WGFD01LF-23Q4	10/12/2023	Field Duplicate	–		–		–		–		–		–		–	
RHMW16	SGS Orlando	FC10448	RHMW16-WGFD01LF-23Q4	10/12/2023	Field Duplicate	–		<1.9	U	–		–		–		–		–	
RHMW16	APPL	23J0131	RHMW16-WGN01LF-23Q4	10/12/2023	Primary	–	**R**	–		–		–		–		–		–	
RHMW16	Energy	B23101113	RHMW16-WGN01LF-23Q4	10/12/2023	Primary	–		–		–		–		–		–		–	
RHMW16	SGS Orlando	FC10448	RHMW16-WGN01LF-23Q4	10/12/2023	Primary	–		<1.9	U	–		–		<0.25	U	<1000	U	–	
RHMW16	APPL	23J0296	RHMW16-WGN01LF-2310WK4-DF	10/26/2023	Primary	<80	U	–		–		–		–		–		–	
RHMW16	SGS Orlando	FC10788	RHMW16-WGN01LF-2310WK4-DF	10/26/2023	Primary	–		<1.9	U	<0.014	U	<0.5	U	–		–		–	
RHMW16	APPL	23K0001	RHMW16-WGN01LF-2310WK5-DF	10/31/2023	Primary	<80	U	–		–		–		–		–		–	
RHMW16	SGS Orlando	FC10882	RHMW16-WGN01LF-2310WK5-DF	10/31/2023	Primary	–		<1.9	U	<0.015	U	<0.5	U	–		–		–	
RHMW16	ALS Kelso	K2312628	RHMW16-WGN01LF-2311-DF	11/6/2023	Primary	–		–		–		–		–		<500	U	<500	U
RHMW16	APPL	23K0041	RHMW16-WGN01LF-2311-DF	11/6/2023	Primary	<80	U	–		–		–		–		–		–	
RHMW16	SGS Orlando	FC11019	RHMW16-WGN01LF-2311-DF	11/6/2023	Primary	–		<1.9	U	<0.014	U	<0.5	U	–		–		–	
RHMW16	SGS Orlando	FC11019B	RHMW16-WGN01LF-2311-DF	11/6/2023	Primary	–		–		–		–		<0.25	U	–		–	
RHMW16	APPL	23K0106	RHMW16-WGN01LF-2311WK2-DF	11/13/2023	Primary	<80	U	–		–		–		–		–		–	
RHMW16	SGS Orlando	FC11221	RHMW16-WGN01LF-2311WK2-DF	11/13/2023	Primary	–		<1.9	UJ	<0.014	U	<0.5	U	–		–		–	
RHMW16	APPL	23K0183	RHMW16-WGN01LF-2311WK3-DF	11/20/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHMW16	SGS Orlando	FC11419	RHMW16-WGN01LF-2311WK3-DF	11/20/2023	Primary	–		<2	U	<0.014	U	<0.5	UJ	–		–		–	
RHMW16	APPL	23K0231	RHMW16-WGN01LF-2311WK4-DF	11/28/2023	Primary	<80	U	–		–		–		–		–		–	
RHMW16	SGS Orlando	FC11564	RHMW16-WGN01LF-2311WK4-DF	11/28/2023	Primary	–		<2	U	<0.015	U	<0.5	U	–		–		–	
RHMW16	APPL	23L0019	RHMW16-WGN01LF-2312-DF	12/4/2023	Primary	<80	U	–		–		–		–		–		–	
RHMW16	SGS Anchorage	1236588_EDMS	RHMW16-WGN01LF-2312-DF	12/4/2023	Primary	–		–		–		–		–		<750	U	<750	U
RHMW16	SGS Orlando	FC11688	RHMW16-WGN01LF-2312-DF	12/4/2023	Primary	–		<2	U	<0.015	U	<0.5	U	–		–		–	
RHMW16	SGS Orlando	FC11688B	RHMW16-WGN01LF-2312-DF	12/4/2023	Primary	–		–		–		–		<0.25	U	–		–	
RHMW16	APPL	23L0083	RHMW16-WGN01LF-2312WK2-DF	12/11/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHMW16	SGS Orlando	FC11893	RHMW16-WGN01LF-2312WK2-DF	12/11/2023	Primary	–		<2	U	<0.015	U	<0.5	U	–		–		–	
RHMW16	APPL	23L0150	RHMW16-WGN01LF-2312WK3-DF	12/18/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHMW16	SGS Orlando	FC12097	RHMW16-WGN01LF-2312WK3-DF	12/18/2023	Primary	–		<2	U	<0.015	U	<0.5	U	–		–		–	
RHMW16	APPL	23L0208	RHMW16-WGN01LF-2312WK4-DF	12/26/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHMW16	SGS Orlando	FC12235	RHMW16-WGN01LF-2312WK4-DF	12/26/2023	Primary	–		<1.9	U	<0.014	U	<0.5	U	–		–		–	
RHMW16	APPL	24A0022	RHMW16-WGN01LF-2401-DF	1/3/2024	Primary	<80	UJ	–		–		–		–		–		–	
RHMW16	SGS Anchorage	1240064_EDMS	RHMW16-WGN01LF-2401-DF	1/3/2024	Primary	–		–		–		–		–		**296**	**J**	<750	U
RHMW16	SGS Orlando	FC12382	RHMW16-WGN01LF-2401-DF	1/3/2024	Primary	–		<1.9	U	<0.014	U	<0.5	U	–		–		–	
RHMW16	SGS Orlando	FC12382B	RHMW16-WGN01LF-2401-DF	1/3/2024	Primary	–		–		–		–		<0.25	U	–		–	
RHMW16	APPL	24A0050	RHMW16-WGN01LF-2401WK2-DF	1/8/2024	Primary	<80	U	–		–		–		–		–		–	
RHMW16	SGS Orlando	FC12452	RHMW16-WGN01LF-2401WK2-DF	1/8/2024	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	
RHMW16	APPL	24A0104	RHMW16-WGN01LF-2401WK3-DF	1/15/2024	Primary	<80	UJ	–		–		–		–		–		–	
RHMW16	SGS Orlando	FC12594	RHMW16-WGN01LF-2401WK3-DF	1/15/2024	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHMW17

						Total Petroleum Hydrocarbons														Volatile Organic Compounds								Polycyclic Aromatic Hydrocarbons (PAHs) – AOC/LTM					
					Analyte	TPH-g		TPH-d [a]		TPH-o [a]		TPH-d with Silica Gel Cleanup [a]		TPH-o with Silica Gel Cleanup [a]		Benzene		Ethylbenzene		Toluene		Xylenes		1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene	
					CAS No.	PHCC6C10		PHCC10C24		PHCC24C40		PHCC10C24SGC		PHCC24C40SGC		71-43-2		100-41-4		108-88-3		1330-20-7		90-12-0		91-57-6		91-20-3	
					Method	8260		8015		8015		8015		8015		8260		8260		8260		8260		8270 SIM		8270 SIM		8270 SIM	
					DOH Tier 1 EAL	300		400		500		—		—		5		30		40		20		10		10		17	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
					Maximum	41.5		1040		791		611		498		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW17	SGS Orlando	FC7026	RHMW17-WGFD01LF-2306WK2	6/15/2023	Field Duplicate	<50	U	1040		791		611		498		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U
RHMW17	SGS Orlando	FC7026	RHMW17-WGN01LF-2306WK2	6/15/2023	Primary	<50	U	884		687		575		487		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U
RHMW17	SGS Orlando	FC9543	RHMW17-WGFD01LF-2309	9/8/2023	Field Duplicate	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW17	SGS Orlando	FC9543	RHMW17-WGN01LF-2309	9/8/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW17	SGS Orlando	FC10248	RHMW17-WGFD01LF-2310	10/4/2023	Field Duplicate	<50	U	<96	U	<150	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	UJ	<0.42	UJ	<0.42	UJ
RHMW17	ALS Kelso	K2311474	RHMW17-WGN01LF-2310	10/4/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	SGS Orlando	FC10248	RHMW17-WGN01LF-2310	10/4/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	UJ	<0.4	UJ	<0.4	UJ
RHMW17	APPL	23J0124	RHMW17-WGN01LF-23Q4	10/11/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	Energy	B23101127	RHMW17-WGN01LF-23Q4	10/11/2023	Primary	6.9	J-	<143	UJ	<143	UJ	–		–		<0.1	UJ	<0.1	UJ	<0.2	UJ	<0.1	UJ	–		–		–	
RHMW17	SGS Orlando	FC10442	RHMW17-WGN01LF-23Q4	10/11/2023	Primary	–		–		–		–		–		–		–		–		–		<0.4	U	<0.4	U	<0.4	U
RHMW17	APPL	23J0280	RHMW17-WGN01LF-2310WK4-DF	10/25/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	SGS Orlando	FC10745	RHMW17-WGN01LF-2310WK4-DF	10/25/2023	Primary	<50	U	128	J	110	J	<110	U	<170	U	<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.43	U	<0.43	U	<0.43	U
RHMW17	APPL	23K0019	RHMW17-WGN01LF-2310WK5-DF	11/2/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	SGS Orlando	FC10943	RHMW17-WGN01LF-2310WK5-DF	11/2/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U
RHMW17	APPL	23K0068	RHMW17-WGFD01LF-2311-DF	11/8/2023	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	SGS Orlando	FC11097	RHMW17-WGFD01LF-2311-DF	11/8/2023	Field Duplicate	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	UJ	<0.42	U	<0.42	U
RHMW17	ALS Kelso	K2312749	RHMW17-WGN01LF-2311-DF	11/8/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	APPL	23K0068	RHMW17-WGN01LF-2311-DF	11/8/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	SGS Orlando	FC11097	RHMW17-WGN01LF-2311-DF	11/8/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	UJ	<0.42	U	<0.42	U
RHMW17	SGS Orlando	FC11097B	RHMW17-WGN01LF-2311-DF	11/8/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	APPL	23K0134	RHMW17-WGN01LF-2311WK2-DF	11/15/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	SGS Orlando	FC11293	RHMW17-WGN01LF-2311WK2-DF	11/15/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW17	APPL	23K0214	RHMW17-WGN01LF-2311WK3-DF	11/22/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	SGS Orlando	FC11474	RHMW17-WGN01LF-2311WK3-DF	11/22/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	UJ	<0.42	UJ	<0.42	U
RHMW17	APPL	23K0231	RHMW17-WGN01LF-2311WK4-DF	11/28/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	SGS Orlando	FC11564	RHMW17-WGN01LF-2311WK4-DF	11/28/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	UJ	<0.42	UJ	<0.42	U
RHMW17	APPL	23L0035	RHMW17-WGFD01LF-2312-DF	12/6/2023	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	SGS Orlando	FC11754	RHMW17-WGFD01LF-2312-DF	12/6/2023	Field Duplicate	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	UJ	<0.42	UJ	<0.42	U
RHMW17	APPL	23L0035	RHMW17-WGN01LF-2312-DF	12/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	SGS Anchorage	1236637_EDMS	RHMW17-WGN01LF-2312-DF	12/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	SGS Orlando	FC11754	RHMW17-WGN01LF-2312-DF	12/6/2023	Primary	<50	U	<96	U	<150	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	UJ	<0.42	UJ	<0.42	U
RHMW17	SGS Orlando	FC11754B	RHMW17-WGN01LF-2312-DF	12/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	APPL	23L0091	RHMW17-WGFD01LF-2312WK2-DF	12/12/2023	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	SGS Orlando	FC11937	RHMW17-WGFD01LF-2312WK2-DF	12/12/2023	Field Duplicate	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	UJ	<0.4	UJ	<0.4	U
RHMW17	APPL	23L0091	RHMW17-WGN01LF-2312WK2-DF	12/12/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	SGS Orlando	FC11937	RHMW17-WGN01LF-2312WK2-DF	12/12/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	UJ	<0.4	UJ	<0.4	U
RHMW17	APPL	23L0161	RHMW17-WGFD01LF-2312WK3-DF	12/19/2023	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	SGS Orlando	FC12136	RHMW17-WGFD01LF-2312WK3-DF	12/19/2023	Field Duplicate	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW17	APPL	23L0161	RHMW17-WGN01LF-2312WK3-DF	12/19/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	SGS Orlando	FC12136	RHMW17-WGN01LF-2312WK3-DF	12/19/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW17	APPL	23L0216	RHMW17-WGFD01LF-2312WK4-DF	12/27/2023	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	SGS Orlando	FC12258	RHMW17-WGFD01LF-2312WK4-DF	12/27/2023	Field Duplicate	41.5	J	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW17	APPL	23L0216	RHMW17-WGN01LF-2312WK4-DF	12/27/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	SGS Orlando	FC12258	RHMW17-WGN01LF-2312WK4-DF	12/27/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW17	APPL	24A0022	RHMW17-WGFD01LF-2401-DF	1/3/2024	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	SGS Orlando	FC12382	RHMW17-WGFD01LF-2401-DF	1/3/2024	Field Duplicate	<50	U	85.7	J	124	J	<100	U	107	J	<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U
RHMW17	APPL	24A0022	RHMW17-WGN01LF-2401-DF	1/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	SGS Anchorage	1240064_EDMS	RHMW17-WGN01LF-2401-DF	1/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	SGS Orlando	FC12382	RHMW17-WGN01LF-2401-DF	1/3/2024	Primary	<50	U	<100	U	89.9	J	<100	U	80.3	J	<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U
RHMW17	SGS Orlando	FC12382B	RHMW17-WGN01LF-2401-DF	1/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	APPL	24A0057	RHMW17-WGFD01LF-2401WK2-DF	1/9/2024	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	SGS Orlando	FC12486	RHMW17-WGFD01LF-2401WK2-DF	1/9/2024	Field Duplicate	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW17	APPL	24A0057	RHMW17-WGN01LF-2401WK2-DF	1/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	SGS Orlando	FC12486	RHMW17-WGN01LF-2401WK2-DF	1/9/2024	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U
RHMW17	APPL	24A0108	RHMW17-WGFD01LF-2401WK3-DF	1/16/2024	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	SGS Orlando	FC12611	RHMW17-WGFD01LF-2401WK3-DF	1/16/2024	Field Duplicate	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U
RHMW17	APPL	24A0108	RHMW17-WGN01LF-2401WK3-DF	1/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	SGS Orlando	FC12611	RHMW17-WGN01LF-2401WK3-DF	1/16/2024	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.43	U	<0.43	U	<0.43	U

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHMW17

						Polycyclic Aromatic Hydrocarbons (PAHs)																													
Analyte						Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)		Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)peryelene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
CAS No.						83-32-9		208-96-8		120-12-7		56-55-3		50-32-8		205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
Method						8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
DOH Tier 1 EAL						20		240		0.18		0.029		0.2		0.22		0.13		0.4		1		0.022		13		240		0.095		210		68	
Units						µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum						ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum						ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW17	SGS Orlando	FC7026	RHMW17-WGFD01LF-2306WK2	6/15/2023	Field Duplicate	<0.4	UJ	<0.4	U	<0.4	UJ	<0.04	UJ	<0.04	UJ	<0.04	UJ	<0.04	UJ	<0.04	UJ	<0.08	UJ	<0.04	UJ	<0.4	U	<0.4	U	<0.04	UJ	<0.4	UJ	<0.4	UJ
RHMW17	SGS Orlando	FC7026	RHMW17-WGN01LF-2306WK2	6/15/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHMW17	SGS Orlando	FC9543	RHMW17-WGFD01LF-2309	9/8/2023	Field Duplicate	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW17	SGS Orlando	FC9543	RHMW17-WGN01LF-2309	9/8/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW17	SGS Orlando	FC10248	RHMW17-WGFD01LF-2310	10/4/2023	Field Duplicate	<0.42	UJ	<0.42	UJ	<0.42	UJ	<0.042	UJ	<0.042	UJ	<0.042	UJ	<0.042	UJ	<0.042	UJ	<0.083	UJ	<0.042	UJ	<0.42	UJ	<0.42	UJ	<0.042	UJ	<0.42	UJ	<0.42	UJ
RHMW17	ALS Kelso	K2311474	RHMW17-WGN01LF-2310	10/4/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	SGS Orlando	FC10248	RHMW17-WGN01LF-2310	10/4/2023	Primary	<0.4	UJ	<0.4	UJ	<0.4	UJ	<0.04	UJ	<0.04	UJ	<0.04	UJ	<0.04	UJ	<0.04	UJ	<0.08	UJ	<0.04	UJ	<0.4	UJ	<0.4	UJ	<0.04	UJ	<0.4	UJ	<0.4	UJ
RHMW17	APPL	23J0124	RHMW17-WGN01LF-23Q4	10/11/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	Energy	B23101127	RHMW17-WGN01LF-23Q4	10/11/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	SGS Orlando	FC10442	RHMW17-WGN01LF-23Q4	10/11/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHMW17	APPL	23J0280	RHMW17-WGN01LF-2310WK4-DF	10/25/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	SGS Orlando	FC10745	RHMW17-WGN01LF-2310WK4-DF	10/25/2023	Primary	<0.43	U	<0.43	U	<0.43	U	<0.043	U	<0.043	U	<0.043	U	<0.043	U	<0.043	U	<0.087	U	<0.043	U	<0.43	U	<0.43	U	<0.043	U	<0.43	U	<0.43	U
RHMW17	APPL	23K0019	RHMW17-WGN01LF-2310WK5-DF	11/2/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	SGS Orlando	FC10943	RHMW17-WGN01LF-2310WK5-DF	11/2/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHMW17	APPL	23K0068	RHMW17-WGFD01LF-2311-DF	11/8/2023	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	SGS Orlando	FC11097	RHMW17-WGFD01LF-2311-DF	11/8/2023	Field Duplicate	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW17	ALS Kelso	K2312749	RHMW17-WGN01LF-2311-DF	11/8/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	APPL	23K0068	RHMW17-WGN01LF-2311-DF	11/8/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	SGS Orlando	FC11097	RHMW17-WGN01LF-2311-DF	11/8/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW17	SGS Orlando	FC11097B	RHMW17-WGN01LF-2311-DF	11/8/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	APPL	23K0134	RHMW17-WGN01LF-2311WK2-DF	11/15/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	SGS Orlando	FC11293	RHMW17-WGN01LF-2311WK2-DF	11/15/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW17	APPL	23K0214	RHMW17-WGN01LF-2311WK3-DF	11/22/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	SGS Orlando	FC11474	RHMW17-WGN01LF-2311WK3-DF	11/22/2023	Primary	<0.42	UJ	<0.42	UJ	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	UJ	<0.042	U	<0.42	UJ	<0.42	U
RHMW17	APPL	23K0231	RHMW17-WGN01LF-2311WK4-DF	11/28/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	SGS Orlando	FC11564	RHMW17-WGN01LF-2311WK4-DF	11/28/2023	Primary	<0.42	UJ	<0.42	UJ	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	UJ	<0.042	U	<0.42	UJ	<0.42	U
RHMW17	APPL	23L0035	RHMW17-WGFD01LF-2312-DF	12/6/2023	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	SGS Orlando	FC11754	RHMW17-WGFD01LF-2312-DF	12/6/2023	Field Duplicate	<0.42	UJ	<0.42	UJ	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	UJ	<0.042	U	<0.42	UJ	<0.42	U
RHMW17	APPL	23L0035	RHMW17-WGN01LF-2312-DF	12/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	SGS Anchorage	1236637_EDMS	RHMW17-WGN01LF-2312-DF	12/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	SGS Orlando	FC11754	RHMW17-WGN01LF-2312-DF	12/6/2023	Primary	<0.42	UJ	<0.42	UJ	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	UJ	<0.042	U	<0.42	UJ	<0.42	U
RHMW17	SGS Orlando	FC11754B	RHMW17-WGN01LF-2312-DF	12/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	APPL	23L0091	RHMW17-WGFD01LF-2312WK2-DF	12/12/2023	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	SGS Orlando	FC11937	RHMW17-WGFD01LF-2312WK2-DF	12/12/2023	Field Duplicate	<0.4	UJ	<0.4	UJ	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	UJ	<0.4	UJ	<0.04	U	<0.4	UJ	<0.4	U
RHMW17	APPL	23L0091	RHMW17-WGN01LF-2312WK2-DF	12/12/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	SGS Orlando	FC11937	RHMW17-WGN01LF-2312WK2-DF	12/12/2023	Primary	<0.4	UJ	<0.4	UJ	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	UJ	<0.4	UJ	<0.04	U	<0.4	UJ	<0.4	U
RHMW17	APPL	23L0161	RHMW17-WGFD01LF-2312WK3-DF	12/19/2023	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	SGS Orlando	FC12136	RHMW17-WGFD01LF-2312WK3-DF	12/19/2023	Field Duplicate	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW17	APPL	23L0161	RHMW17-WGN01LF-2312WK3-DF	12/19/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	SGS Orlando	FC12136	RHMW17-WGN01LF-2312WK3-DF	12/19/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW17	APPL	23L0216	RHMW17-WGFD01LF-2312WK4-DF	12/27/2023	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	SGS Orlando	FC12258	RHMW17-WGFD01LF-2312WK4-DF	12/27/2023	Field Duplicate	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW17	APPL	23L0216	RHMW17-WGN01LF-2312WK4-DF	12/27/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	SGS Orlando	FC12258	RHMW17-WGN01LF-2312WK4-DF	12/27/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW17	APPL	24A0022	RHMW17-WGFD01LF-2401-DF	1/3/2024	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	SGS Orlando	FC12382	RHMW17-WGFD01LF-2401-DF	1/3/2024	Field Duplicate	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHMW17	APPL	24A0022	RHMW17-WGN01LF-2401-DF	1/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	SGS Anchorage	1240064_EDMS	RHMW17-WGN01LF-2401-DF	1/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	SGS Orlando	FC12382	RHMW17-WGN01LF-2401-DF	1/3/2024	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHMW17	SGS Orlando	FC12382B	RHMW17-WGN01LF-2401-DF	1/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	APPL	24A0057	RHMW17-WGFD01LF-2401WK2-DF	1/9/2024	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	SGS Orlando	FC12486	RHMW17-WGFD01LF-2401WK2-DF	1/9/2024	Field Duplicate	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW17	APPL	24A0057	RHMW17-WGN01LF-2401WK2-DF	1/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	SGS Orlando	FC12486	RHMW17-WGN01LF-2401WK2-DF	1/9/2024	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHMW17	APPL	24A0108	RHMW17-WGFD01LF-2401WK3-DF	1/16/2024	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	SGS Orlando	FC12611	RHMW17-WGFD01LF-2401WK3-DF	1/16/2024	Field Duplicate	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHMW17	APPL	24A0108	RHMW17-WGN01LF-2401WK3-DF	1/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	SGS Orlando	FC12611	RHMW17-WGN01LF-2401WK3-DF	1/16/2024	Primary	<0.43	U	<0.43	U	<0.43	U	<0.043	U	<0.043	U	<0.043	U	<0.043	U	<0.043	U	<0.087	U	<0.043	U	<0.43	U	<0.43	U	<0.043	U	<0.43	U	<0.43	U

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHMW17

						Fuel Additive				Lead Scavengers						Natural Attenuation Parameters							
					Analyte	2-(2- Methoxyethoxy)-ethanol [b]		Phenol		1,2-Dibromoethane		1,2-Dichloroethane		Methane		Total Organic Carbon		NV Dissolved Organic Carbon					
					CAS No.	111-77-3		108-95-2		106-93-4		107-06-2		74-82-8		TOC		—					
					Method	8270D		SW8270		8011		8260		RSK 175		9060		9060					
					DOH Tier 1 EAL	800		300		0.04		5		—		—		—					
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L					
					Minimum	ND		ND		ND		ND		ND		ND		ND					
					Maximum	ND		ND		ND		ND		0.27		1790		2640					
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result					
RHMW17	SGS Orlando	FC7026	RHMW17-WGFD01LF-2306WK2	6/15/2023	Field Duplicate	–		<2	U	–		–		–		–		–					
RHMW17	SGS Orlando	FC7026	RHMW17-WGN01LF-2306WK2	6/15/2023	Primary	–		<2	U	–		–		0.23	J	–		–					
RHMW17	SGS Orlando	FC9543	RHMW17-WGFD01LF-2309	9/8/2023	Field Duplicate	–		<2	U	–		–		–		–		–					
RHMW17	SGS Orlando	FC9543	RHMW17-WGN01LF-2309	9/8/2023	Primary	–		<2	U	–		–		0.18	J	–		–					
RHMW17	SGS Orlando	FC10248	RHMW17-WGFD01LF-2310	10/4/2023	Field Duplicate	–		<1.9	U	–		–		–		–		–					
RHMW17	ALS Kelso	K2311474	RHMW17-WGN01LF-2310	10/4/2023	Primary	–		–		–		–		–		<500	U	1600					
RHMW17	SGS Orlando	FC10248	RHMW17-WGN01LF-2310	10/4/2023	Primary	–		<1.9	U	–		–		<0.25	U	–		–					
RHMW17	APPL	23J0124	RHMW17-WGN01LF-23Q4	10/11/2023	Primary	<80	UJ	–		–		–		–		–		–					
RHMW17	Energy	B23101127	RHMW17-WGN01LF-23Q4	10/11/2023	Primary	–		–		–		–		–		–		–					
RHMW17	SGS Orlando	FC10442	RHMW17-WGN01LF-23Q4	10/11/2023	Primary	–		<1.9	U	–		–		0.18	J	–	R	–					
RHMW17	APPL	23J0280	RHMW17-WGN01LF-2310WK4-DF	10/25/2023	Primary	<80	U	–		–		–		–		–		–					
RHMW17	SGS Orlando	FC10745	RHMW17-WGN01LF-2310WK4-DF	10/25/2023	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–					
RHMW17	APPL	23K0019	RHMW17-WGN01LF-2310WK5-DF	11/2/2023	Primary	<80	U	–		–		–		–		–		–					
RHMW17	SGS Orlando	FC10943	RHMW17-WGN01LF-2310WK5-DF	11/2/2023	Primary	–		<1.9	U	<0.014	U	<0.5	U	–		–		–					
RHMW17	APPL	23K0068	RHMW17-WGFD01LF-2311-DF	11/8/2023	Field Duplicate	<80	U	–		–		–		–		–		–					
RHMW17	SGS Orlando	FC11097	RHMW17-WGFD01LF-2311-DF	11/8/2023	Field Duplicate	–		<1.9	U	–		<0.5	U	–		–		–					
RHMW17	ALS Kelso	K2312749	RHMW17-WGN01LF-2311-DF	11/8/2023	Primary	–		–		–		–		–		<500	U	700					
RHMW17	APPL	23K0068	RHMW17-WGN01LF-2311-DF	11/8/2023	Primary	<80	U	–		–		–		–		–		–					
RHMW17	SGS Orlando	FC11097	RHMW17-WGN01LF-2311-DF	11/8/2023	Primary	–		<1.9	U	<0.014	U	<0.5	U	–		–		–					
RHMW17	SGS Orlando	FC11097B	RHMW17-WGN01LF-2311-DF	11/8/2023	Primary	–		–		–		–		<0.25	U	–		–					
RHMW17	APPL	23K0134	RHMW17-WGN01LF-2311WK2-DF	11/15/2023	Primary	<80	UJ	–		–		–		–		–		–					
RHMW17	SGS Orlando	FC11293	RHMW17-WGN01LF-2311WK2-DF	11/15/2023	Primary	–		<1.9	U	<0.014	U	<0.5	U	–		–		–					
RHMW17	APPL	23K0214	RHMW17-WGN01LF-2311WK3-DF	11/22/2023	Primary	<80	UJ	–		–		–		–		–		–					
RHMW17	SGS Orlando	FC11474	RHMW17-WGN01LF-2311WK3-DF	11/22/2023	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–					
RHMW17	APPL	23K0231	RHMW17-WGN01LF-2311WK4-DF	11/28/2023	Primary	<80	U	–		–		–		–		–		–					
RHMW17	SGS Orlando	FC11564	RHMW17-WGN01LF-2311WK4-DF	11/28/2023	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–					
RHMW17	APPL	23L0035	RHMW17-WGFD01LF-2312-DF	12/6/2023	Field Duplicate	<80	UJ	–		–		–		–		–		–					
RHMW17	SGS Orlando	FC11754	RHMW17-WGFD01LF-2312-DF	12/6/2023	Field Duplicate	–		<2	U	–		<0.5	U	–		–		–					
RHMW17	APPL	23L0035	RHMW17-WGN01LF-2312-DF	12/6/2023	Primary	<80	UJ	–		–		–		–		–		–					
RHMW17	SGS Anchorage	1236637_EDMS	RHMW17-WGN01LF-2312-DF	12/6/2023	Primary	–		–		–		–		–		<750	U	<750	U				
RHMW17	SGS Orlando	FC11754	RHMW17-WGN01LF-2312-DF	12/6/2023	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–					
RHMW17	SGS Orlando	FC11754B	RHMW17-WGN01LF-2312-DF	12/6/2023	Primary	–		–		–		–		0.27	J	–		–					
RHMW17	APPL	23L0091	RHMW17-WGFD01LF-2312WK2-DF	12/12/2023	Field Duplicate	<80	UJ	–		–		–		–		–		–					
RHMW17	SGS Orlando	FC11937	RHMW17-WGFD01LF-2312WK2-DF	12/12/2023	Field Duplicate	–		<2	U	–		<0.5	U	–		–		–					
RHMW17	APPL	23L0091	RHMW17-WGN01LF-2312WK2-DF	12/12/2023	Primary	<80	UJ	–		–		–		–		–		–					
RHMW17	SGS Orlando	FC11937	RHMW17-WGN01LF-2312WK2-DF	12/12/2023	Primary	–		<2	U	<0.015	U	<0.5	U	–		–		–					
RHMW17	APPL	23L0161	RHMW17-WGFD01LF-2312WK3-DF	12/19/2023	Field Duplicate	<80	U	–		–		–		–		–		–					
RHMW17	SGS Orlando	FC12136	RHMW17-WGFD01LF-2312WK3-DF	12/19/2023	Field Duplicate	–		<1.9	U	–		<0.5	U	–		–		–					
RHMW17	APPL	23L0161	RHMW17-WGN01LF-2312WK3-DF	12/19/2023	Primary	<80	U	–		–		–		–		–		–					
RHMW17	SGS Orlando	FC12136	RHMW17-WGN01LF-2312WK3-DF	12/19/2023	Primary	–		<1.9	U	<0.014	U	<0.5	U	–		–		–					
RHMW17	APPL	23L0216	RHMW17-WGFD01LF-2312WK4-DF	12/27/2023	Field Duplicate	<80	UJ	–		–		–		–		–		–					
RHMW17	SGS Orlando	FC12258	RHMW17-WGFD01LF-2312WK4-DF	12/27/2023	Field Duplicate	–		<2	U	–		<0.5	U	–		–		–					
RHMW17	APPL	23L0216	RHMW17-WGN01LF-2312WK4-DF	12/27/2023	Primary	<80	UJ	–		–		–		–		–		–					
RHMW17	SGS Orlando	FC12258	RHMW17-WGN01LF-2312WK4-DF	12/27/2023	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–					
RHMW17	APPL	24A0022	RHMW17-WGFD01LF-2401-DF	1/3/2024	Field Duplicate	<80	UJ	–		–		–		–		–		–					
RHMW17	SGS Orlando	FC12382	RHMW17-WGFD01LF-2401-DF	1/3/2024	Field Duplicate	–		<1.9	U	–		<0.5	U	–		–		–					
RHMW17	APPL	24A0022	RHMW17-WGN01LF-2401-DF	1/3/2024	Primary	<80	UJ	–		–		–		–		–		–					
RHMW17	SGS Anchorage	1240064_EDMS	RHMW17-WGN01LF-2401-DF	1/3/2024	Primary	–		–		–		–		–		1790		2640					
RHMW17	SGS Orlando	FC12382	RHMW17-WGN01LF-2401-DF	1/3/2024	Primary	–		<1.9	U	<0.014	U	<0.5	U	–		–		–					
RHMW17	SGS Orlando	FC12382B	RHMW17-WGN01LF-2401-DF	1/3/2024	Primary	–		–		–		–		0.2	J	–		–					
RHMW17	APPL	24A0057	RHMW17-WGFD01LF-2401WK2-DF	1/9/2024	Field Duplicate	<80	UJ	–		–		–		–		–		–					
RHMW17	SGS Orlando	FC12486	RHMW17-WGFD01LF-2401WK2-DF	1/9/2024	Field Duplicate	–		<2	U	–		<0.5	U	–		–		–					
RHMW17	APPL	24A0057	RHMW17-WGN01LF-2401WK2-DF	1/9/2024	Primary	<80	UJ	–		–		–		–		–		–					
RHMW17	SGS Orlando	FC12486	RHMW17-WGN01LF-2401WK2-DF	1/9/2024	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–					
RHMW17	APPL	24A0108	RHMW17-WGFD01LF-2401WK3-DF	1/16/2024	Field Duplicate	<80	UJ	–		–		–		–		–		–					
RHMW17	SGS Orlando	FC12611	RHMW17-WGFD01LF-2401WK3-DF	1/16/2024	Field Duplicate	–		<2	U	–		<0.5	U	–		–		–					
RHMW17	APPL	24A0108	RHMW17-WGN01LF-2401WK3-DF	1/16/2024	Primary	<80	UJ	–		–		–		–		–		–					
RHMW17	SGS Orlando	FC12611	RHMW17-WGN01LF-2401WK3-DF	1/16/2024	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–					

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHMW18

						Total Petroleum Hydrocarbons										Volatile Organic Compounds								Polycyclic Aromatic Hydrocarbons (PAHs) – AOC/LTM					
					Analyte	TPH-g		TPH-d [a]		TPH-o [a]		TPH-d with Silica Gel Cleanup [a]		TPH-o with Silica Gel Cleanup [a]		Benzene		Ethylbenzene		Toluene		Xylenes		1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene	
					CAS No.	PHC06C10		PHC10C24		PHC24C40		PHC10C24SGC		PHC24C40SGC		71-43-2		100-41-4		108-88-3		1330-20-7		90-12-0		91-57-6		91-20-3	
					Method	8260		8015		8015		8015		8015		8260		8260		8260		8260		8270 SIM		8270 SIM		8270 SIM	
					DOH Tier 1 EAL	300		400		500		—		—		5		30		40		20		10		10		17	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		146		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		199		410		160		404		ND		ND		5.2		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW18	APPL	24A0009	RHMW18-WGN01LF-2312-DF	12/31/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW18	SGS Anchorage	1240029_EDMS	RHMW18-WGN01LF-2312-DF	12/31/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW18	SGS Orlando	FC12337	RHMW18-WGN01LF-2312-DF	12/31/2023	Primary	<50	U	199	J	410		160	J	404		<0.5	U	<0.5	U	5.2		<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW18	SGS Orlando	FC12337B	RHMW18-WGN01LF-2312-DF	12/31/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW18	APPL	24A0022	RHMW18-WGN01LF-2401-DF	1/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW18	SGS Anchorage	1240064_EDMS	RHMW18-WGN01LF-2401-DF	1/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW18	SGS Orlando	FC12382	RHMW18-WGN01LF-2401-DF	1/3/2024	Primary	<50	U	154	J	324		137	J	304		<0.5	U	<0.5	U	2		<1.5	U	<0.4	U	<0.4	U	<0.4	U
RHMW18	SGS Orlando	FC12382B	RHMW18-WGN01LF-2401-DF	1/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW18	APPL	24A0066	RHMW18-WGN01LF-2401WK2-DF	1/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW18	SGS Orlando	FC12522	RHMW18-WGN01LF-2401WK2-DF	1/10/2024	Primary	<50	U	91.1	J	128	J	<100	U	146	J	<0.5	U	<0.5	U	0.49	J	<1.5	UJ	<0.42	U	<0.42	U	<0.42	U
RHMW18	APPL	24A0125	RHMW18-WGN01LF-2401WK3-DF	1/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW18	SGS Orlando	FC12661	RHMW18-WGN01LF-2401WK3-DF	1/17/2024	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHMW18

						Polycyclic Aromatic Hydrocarbons (PAHs)																													
					Analyte	Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)		Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
					CAS No.	83-32-9		208-96-8		120-12-7		56-55-3		50-32-8		205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
					Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
					DOH Tier 1 EAL	20		240		0.18		0.029		0.2		0.22		0.13		0.4		1		0.022		13		240		0.095		210		68	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW18	APPL	24A0009	RHMW18-WGN01LF-2312-DF	12/31/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW18	SGS Anchorage	1240029_EDMS	RHMW18-WGN01LF-2312-DF	12/31/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW18	SGS Orlando	FC12337	RHMW18-WGN01LF-2312-DF	12/31/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW18	SGS Orlando	FC12337B	RHMW18-WGN01LF-2312-DF	12/31/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW18	APPL	24A0022	RHMW18-WGN01LF-2401-DF	1/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW18	SGS Anchorage	1240064_EDMS	RHMW18-WGN01LF-2401-DF	1/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW18	SGS Orlando	FC12382	RHMW18-WGN01LF-2401-DF	1/3/2024	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHMW18	SGS Orlando	FC12382B	RHMW18-WGN01LF-2401-DF	1/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW18	APPL	24A0066	RHMW 18-WGN01LF-2401WK2-DF	1/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW18	SGS Orlando	FC12522	RHMW 18-WGN01LF-2401WK2-DF	1/10/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW18	APPL	24A0125	RHMW 18-WGN01LF-2401WK3-DF	1/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW18	SGS Orlando	FC12661	RHMW 18-WGN01LF-2401WK3-DF	1/17/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHMW18

						Fuel Additive				Lead Scavengers				Natural Attenuation Parameters					
					Analyte	2-(2- Methoxyethoxy)-ethanol [b]		Phenol		1,2-Dibromoethane		1,2-Dichloroethane		Methane		Total Organic Carbon		NV Dissolved Organic Carbon	
					CAS No.	111-77-3		108-95-2		106-93-4		107-06-2		74-82-8		TOC		—	
					Method	8270D		SW8270		8011		8260		RSK 175		9060		9060	
					DOH Tier 1 EAL	800		300		0.04		5		—		—		—	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		3400		3120	
					Maximum	ND		ND		ND		ND		0.24		5580		4780	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result	
RHMW18	APPL	24A0009	RHMW18-WGN01LF-2312-DF	12/31/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHMW18	SGS Anchorage	1240029_EDMS	RHMW18-WGN01LF-2312-DF	12/31/2023	Primary	–		–		–		–		–		5580		4780	
RHMW18	SGS Orlando	FC12337	RHMW18-WGN01LF-2312-DF	12/31/2023	Primary	–		<1.9	U	<0.014	U	<0.5	U	–		–		–	
RHMW18	SGS Orlando	FC12337B	RHMW18-WGN01LF-2312-DF	12/31/2023	Primary	–		–		–		–		0.24	J	–		–	
RHMW18	APPL	24A0022	RHMW18-WGN01LF-2401-DF	1/3/2024	Primary	<80	UJ	–		–		–		–		–		–	
RHMW18	SGS Anchorage	1240064_EDMS	RHMW18-WGN01LF-2401-DF	1/3/2024	Primary	–		–		–		–		–		3400		3120	
RHMW18	SGS Orlando	FC12382	RHMW18-WGN01LF-2401-DF	1/3/2024	Primary	–		<1.9	U	<0.014	U	<0.5	U	–		–		–	
RHMW18	SGS Orlando	FC12382B	RHMW18-WGN01LF-2401-DF	1/3/2024	Primary	–		–		–		–		<0.25	U	–		–	
RHMW18	APPL	24A0066	RHMW18-WGN01LF-2401WK2-DF	1/10/2024	Primary	<80	UJ	–		–		–		–		–		–	
RHMW18	SGS Orlando	FC12522	RHMW18-WGN01LF-2401WK2-DF	1/10/2024	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	
RHMW18	APPL	24A0125	RHMW18-WGN01LF-2401WK3-DF	1/17/2024	Primary	<80	UJ	–		–		–		–		–		–	
RHMW18	SGS Orlando	FC12661	RHMW18-WGN01LF-2401WK3-DF	1/17/2024	Primary	–		<2	U	<0.014	UJ	<0.5	U	–		–		–	

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHMW19

						Total Petroleum Hydrocarbons										Volatile Organic Compounds								Polycyclic Aromatic Hydrocarbons (PAHs) – AOC/LTM					
					Analyte	TPH-g		TPH-d [a]		TPH-o [a]		TPH-d with Silica Gel Cleanup [a]		TPH-o with Silica Gel Cleanup [a]		Benzene		Ethylbenzene		Toluene		Xylenes		1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene	
					CAS No.	PHCC6C10		PHCC10C24		PHCC24C40		PHCC10C24SGC		PHCC24C40SGC		71-43-2		100-41-4		108-88-3		1330-20-7		90-12-0		91-57-6		91-20-3	
					Method	8260		8015		8015		8015		8015		8260		8260		8260		8260		8270 SIM		8270 SIM		8270 SIM	
					DOH Tier 1 EAL	300		400		500		—		—		5		30		40		20		10		10		17	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		343		163		141		86.5		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW19	SGS Orlando	FC7026	RHMW19-WGN01LF-2306WK2	6/13/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U
RHMW19	ALS Kelso	K2310020	RHMW19-WGN01LF-2309	9/5/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	SGS Orlando	FC9377	RHMW19-WGN01LF-2309	9/5/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U
RHMW19	ALS Kelso	K2311474	RHMW19-WGN01LF-2310	10/5/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Energy	B23100765	RHMW19-WGN01LF-2310	10/5/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	SGS Orlando	FC10295	RHMW19-WGN01LF-2310	10/5/2023	Primary	<50	U	343		163	J	141	J	86.5	J	<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	UJ	<0.4	UJ	<0.4	UJ
RHMW19	APPL	23J0131	RHMW19-WGN01LF-23Q4	10/12/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Energy	B23101113	RHMW19-WGN01LF-23Q4	10/12/2023	Primary	<8.5	U	<140	U	<140	U	–		–		<0.1	U	<0.1	U	<0.2	U	<0.1	U	–		–		–	
RHMW19	SGS Orlando	FC10448	RHMW19-WGN01LF-23Q4	10/12/2023	Primary	–		–		–		–		–		–		–		–		–		<0.4	U	<0.4	U	<0.4	U
RHMW19	APPL	23J0262	RHMW19-WGN01LF-2310WK4-DF	10/24/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	SGS Orlando	FC10716	RHMW19-WGN01LF-2310WK4-DF	10/24/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U
RHMW19	APPL	23J0325	RHMW19-WGN01LF-2310WK5-DF	10/30/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	SGS Orlando	FC10844	RHMW19-WGN01LF-2310WK5-DF	10/30/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW19	ALS Kelso	K2312628	RHMW19-WGN01LF-2311-DF	11/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	APPL	23K0041	RHMW19-WGN01LF-2311-DF	11/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	SGS Orlando	FC11019	RHMW19-WGN01LF-2311-DF	11/6/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW19	SGS Orlando	FC11019B	RHMW19-WGN01LF-2311-DF	11/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	APPL	23K0123	RHMW19-WGN01LF-2311WK2-DF	11/14/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	SGS Orlando	FC11263	RHMW19-WGN01LF-2311WK2-DF	11/14/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW19	APPL	23K0183	RHMW19-WGN01LF-2311WK3-DF	11/20/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	SGS Orlando	FC11419	RHMW19-WGN01LF-2311WK3-DF	11/20/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	UJ	<0.5	UJ	<0.5	UJ	<1.5	UJ	<0.42	UJ	<0.42	UJ	<0.42	U
RHMW19	APPL	23K0219	RHMW19-WGN01LF-2311WK4-DF	11/27/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	SGS Orlando	FC11512	RHMW19-WGN01LF-2311WK4-DF	11/27/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	UJ	<0.4	UJ	<0.4	U
RHMW19	APPL	23L0019	RHMW19-WGN01LF-2312-DF	12/4/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	SGS Anchorage	1236588_EDMS	RHMW19-WGN01LF-2312-DF	12/4/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	SGS Orlando	FC11688	RHMW19-WGN01LF-2312-DF	12/4/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	UJ	<0.42	UJ	<0.42	U
RHMW19	SGS Orlando	FC11688B	RHMW19-WGN01LF-2312-DF	12/4/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	APPL	23L0091	RHMW19-WGN01LF-2312WK2-DF	12/12/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	SGS Orlando	FC11937	RHMW19-WGN01LF-2312WK2-DF	12/12/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	UJ	<0.4	UJ	<0.4	U
RHMW19	APPL	23L0161	RHMW19-WGN01LF-2312WK3-DF	12/19/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	SGS Orlando	FC12136	RHMW19-WGN01LF-2312WK3-DF	12/19/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW19	APPL	23L0216	RHMW19-WGN01LF-2312WK4-DF	12/27/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	SGS Orlando	FC12258	RHMW19-WGN01LF-2312WK4-DF	12/27/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW19	APPL	24A0035	RHMW19-WGN01LF-2401-DF	1/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	SGS Anchorage	1240082_EDMS	RHMW19-WGN01LF-2401-DF	1/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	SGS Orlando	FC12403	RHMW19-WGN01LF-2401-DF	1/4/2024	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW19	SGS Orlando	FC12403B	RHMW19-WGN01LF-2401-DF	1/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	APPL	24A0057	RHMW19-WGN01LF-2401WK2-DF	1/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	SGS Orlando	FC12486	RHMW19-WGN01LF-2401WK2-DF	1/9/2024	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U
RHMW19	APPL	24A0108	RHMW19-WGN01LF-2401WK3-DF	1/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	SGS Orlando	FC12611	RHMW19-WGN01LF-2401WK3-DF	1/16/2024	Primary	<50	U	111	J	<160	U	<100	U	<160	U	<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	UJ	<0.4	UJ	<0.4	UJ

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHMW19

						Polycyclic Aromatic Hydrocarbons (PAHs)																													
					Analyte	Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)		Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)peryelene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
					CAS No.	83-32-9		208-96-8		120-12-7		56-55-3		50-32-8		205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
					Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
					DOH Tier 1 EAL	20		240		0.18		0.029		0.2		0.22		0.13		0.4		1		0.022		13		240		0.095		210		68	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW19	SGS Orlando	FC7026	RHMW19-WGN01LF-2306WK2	6/13/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHMW19	ALS Kelso	K2310020	RHMW19-WGN01LF-2309	9/5/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	SGS Orlando	FC9377	RHMW19-WGN01LF-2309	9/5/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	UJ	<0.04	UJ	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHMW19	ALS Kelso	K2311474	RHMW19-WGN01LF-2310	10/5/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Energy	B23100765	RHMW19-WGN01LF-2310	10/5/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	SGS Orlando	FC10295	RHMW19-WGN01LF-2310	10/5/2023	Primary	<0.4	UJ	<0.4	UJ	<0.4	UJ	<0.04	UJ	<0.04	UJ	<0.04	UJ	<0.04	UJ	<0.04	UJ	<0.08	UJ	<0.04	UJ	<0.4	UJ	<0.4	UJ	<0.04	UJ	<0.4	UJ	<0.4	UJ
RHMW19	APPL	23J0131	RHMW19-WGN01LF-23Q4	10/12/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Energy	B23101113	RHMW19-WGN01LF-23Q4	10/12/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	SGS Orlando	FC10448	RHMW19-WGN01LF-23Q4	10/12/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHMW19	APPL	23J0262	RHMW19-WGN01LF-2310WK4-DF	10/24/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	SGS Orlando	FC10716	RHMW19-WGN01LF-2310WK4-DF	10/24/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHMW19	APPL	23J0325	RHMW19-WGN01LF-2310WK5-DF	10/30/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	SGS Orlando	FC10844	RHMW19-WGN01LF-2310WK5-DF	10/30/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW19	ALS Kelso	K2312628	RHMW19-WGN01LF-2311-DF	11/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	APPL	23K0041	RHMW19-WGN01LF-2311-DF	11/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	SGS Orlando	FC11019	RHMW19-WGN01LF-2311-DF	11/6/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW19	SGS Orlando	FC11019B	RHMW19-WGN01LF-2311-DF	11/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	APPL	23K0123	RHMW19-WGN01LF-2311WK2-DF	11/14/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	SGS Orlando	FC11263	RHMW19-WGN01LF-2311WK2-DF	11/14/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW19	APPL	23K0183	RHMW19-WGN01LF-2311WK3-DF	11/20/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	SGS Orlando	FC11419	RHMW19-WGN01LF-2311WK3-DF	11/20/2023	Primary	<0.42	UJ	<0.42	UJ	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	UJ	<0.042	U	<0.42	UJ	<0.42	U
RHMW19	APPL	23K0219	RHMW19-WGN01LF-2311WK4-DF	11/27/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	SGS Orlando	FC11512	RHMW19-WGN01LF-2311WK4-DF	11/27/2023	Primary	<0.4	UJ	<0.4	UJ	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	UJ	<0.4	UJ	<0.04	U	<0.4	UJ	<0.4	U
RHMW19	APPL	23L0019	RHMW19-WGN01LF-2312-DF	12/4/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	SGS Anchorage	1236588_EDMS	RHMW19-WGN01LF-2312-DF	12/4/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	SGS Orlando	FC11688	RHMW19-WGN01LF-2312-DF	12/4/2023	Primary	<0.42	UJ	<0.42	UJ	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	UJ	<0.042	U	<0.42	UJ	<0.42	U
RHMW19	SGS Orlando	FC11688B	RHMW19-WGN01LF-2312-DF	12/4/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	APPL	23L0091	RHMW19-WGN01LF-2312WK2-DF	12/12/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	SGS Orlando	FC11937	RHMW19-WGN01LF-2312WK2-DF	12/12/2023	Primary	<0.4	UJ	<0.4	UJ	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	UJ	<0.4	UJ	<0.04	U	<0.4	UJ	<0.4	U
RHMW19	APPL	23L0161	RHMW19-WGN01LF-2312WK3-DF	12/19/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	SGS Orlando	FC12136	RHMW19-WGN01LF-2312WK3-DF	12/19/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW19	APPL	23L0216	RHMW19-WGN01LF-2312WK4-DF	12/27/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	SGS Orlando	FC12258	RHMW19-WGN01LF-2312WK4-DF	12/27/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW19	APPL	24A0035	RHMW19-WGN01LF-2401-DF	1/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	SGS Anchorage	1240082_EDMS	RHMW19-WGN01LF-2401-DF	1/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	SGS Orlando	FC12403	RHMW19-WGN01LF-2401-DF	1/4/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW19	SGS Orlando	FC12403B	RHMW19-WGN01LF-2401-DF	1/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	APPL	24A0057	RHMW19-WGN01LF-2401WK2-DF	1/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	SGS Orlando	FC12486	RHMW19-WGN01LF-2401WK2-DF	1/9/2024	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHMW19	APPL	24A0108	RHMW19-WGN01LF-2401WK3-DF	1/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	SGS Orlando	FC12611	RHMW19-WGN01LF-2401WK3-DF	1/16/2024	Primary	<0.4	UJ	<0.4	UJ	<0.4	UJ	<0.04	UJ	<0.04	UJ	<0.04	UJ	<0.04	UJ	<0.04	UJ	<0.08	UJ	<0.04	UJ	<0.4	UJ	<0.4	UJ	<0.04	UJ	<0.4	UJ	<0.4	UJ

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHMW19

						Fuel Additive				Lead Scavengers				Natural Attenuation Parameters					
					Analyte	2-(2- Methoxyethoxy)-ethanol [b]		Phenol		1,2-Dibromoethane		1,2-Dichloroethane		Methane		Total Organic Carbon		NV Dissolved Organic Carbon	
					CAS No.	111-77-3		108-95-2		106-93-4		107-06-2		74-82-8		TOC		—	
					Method	8270D		SW8270		8011		8260		RSK 175		9060		9060	
					DOH Tier 1 EAL	800		300		0.04		5		—		—		—	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		ND		0.7		2900		2180	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result	
RHMW19	SGS Orlando	FC7026	RHMW19-WGN01LF-2306WK2	6/13/2023	Primary	–		<1.9	U	–		–		<0.25	U	–		–	
RHMW19	ALS Kelso	K2310020	RHMW19-WGN01LF-2309	9/5/2023	Primary	–		–		–		–		–		<500	U	1700	
RHMW19	SGS Orlando	FC9377	RHMW19-WGN01LF-2309	9/5/2023	Primary	–		<2	U	–		–		<0.25	U	–		–	
RHMW19	ALS Kelso	K2311474	RHMW19-WGN01LF-2310	10/5/2023	Primary	–		–		–		–		–		2900		2180	
RHMW19	Energy	B23100765	RHMW19-WGN01LF-2310	10/5/2023	Primary	–		–		<0.0049	U	–		–		–		–	
RHMW19	SGS Orlando	FC10295	RHMW19-WGN01LF-2310	10/5/2023	Primary	–		<1.9	U	–		–		<0.25	U	–		–	
RHMW19	APPL	23J0131	RHMW19-WGN01LF-23Q4	10/12/2023	Primary	–	R	–		–		–		–		–		–	
RHMW19	Energy	B23101113	RHMW19-WGN01LF-23Q4	10/12/2023	Primary	–		–		<0.0049	U	–		–		–		–	
RHMW19	SGS Orlando	FC10448	RHMW19-WGN01LF-23Q4	10/12/2023	Primary	–		<1.9	U	–		–		<0.25	U	<1000	U	–	
RHMW19	APPL	23J0262	RHMW19-WGN01LF-2310WK4-DF	10/24/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHMW19	SGS Orlando	FC10716	RHMW19-WGN01LF-2310WK4-DF	10/24/2023	Primary	–		<1.9	U	<0.014	U	<0.5	U	–		–		–	
RHMW19	APPL	23J0325	RHMW19-WGN01LF-2310WK5-DF	10/30/2023	Primary	<80	U	–		–		–		–		–		–	
RHMW19	SGS Orlando	FC10844	RHMW19-WGN01LF-2310WK5-DF	10/30/2023	Primary	–		<1.9	U	<0.014	U	<0.5	U	–		–		–	
RHMW19	ALS Kelso	K2312628	RHMW19-WGN01LF-2311-DF	11/6/2023	Primary	–		–		–		–		–		800		600	
RHMW19	APPL	23K0041	RHMW19-WGN01LF-2311-DF	11/6/2023	Primary	<80	U	–		–		–		–		–		–	
RHMW19	SGS Orlando	FC11019	RHMW19-WGN01LF-2311-DF	11/6/2023	Primary	–		<1.9	U	<0.014	U	<0.5	U	–		–		–	
RHMW19	SGS Orlando	FC11019B	RHMW19-WGN01LF-2311-DF	11/6/2023	Primary	–		–		–		–		<0.25	U	–		–	
RHMW19	APPL	23K0123	RHMW19-WGN01LF-2311WK2-DF	11/14/2023	Primary	<80	U	–		–		–		–		–		–	
RHMW19	SGS Orlando	FC11263	RHMW19-WGN01LF-2311WK2-DF	11/14/2023	Primary	–		<1.9	U	<0.015	U	<0.5	U	–		–		–	
RHMW19	APPL	23K0183	RHMW19-WGN01LF-2311WK3-DF	11/20/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHMW19	SGS Orlando	FC11419	RHMW19-WGN01LF-2311WK3-DF	11/20/2023	Primary	–		<2	U	<0.015	U	<0.5	UJ	–		–		–	
RHMW19	APPL	23K0219	RHMW19-WGN01LF-2311WK4-DF	11/27/2023	Primary	<80	U	–		–		–		–		–		–	
RHMW19	SGS Orlando	FC11512	RHMW19-WGN01LF-2311WK4-DF	11/27/2023	Primary	–		<2	U	<0.015	U	<0.5	U	–		–		–	
RHMW19	APPL	23L0019	RHMW19-WGN01LF-2312-DF	12/4/2023	Primary	<80	U	–		–		–		–		–		–	
RHMW19	SGS Anchorage	1236588_EDMS	RHMW19-WGN01LF-2312-DF	12/4/2023	Primary	–		–		–		–		–		1150	J+	1250	J+
RHMW19	SGS Orlando	FC11688	RHMW19-WGN01LF-2312-DF	12/4/2023	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	
RHMW19	SGS Orlando	FC11688B	RHMW19-WGN01LF-2312-DF	12/4/2023	Primary	–		–		–		–		<0.25	U	–		–	
RHMW19	APPL	23L0091	RHMW19-WGN01LF-2312WK2-DF	12/12/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHMW19	SGS Orlando	FC11937	RHMW19-WGN01LF-2312WK2-DF	12/12/2023	Primary	–		<2	U	<0.015	U	<0.5	U	–		–		–	
RHMW19	APPL	23L0161	RHMW19-WGN01LF-2312WK3-DF	12/19/2023	Primary	<80	U	–		–		–		–		–		–	
RHMW19	SGS Orlando	FC12136	RHMW19-WGN01LF-2312WK3-DF	12/19/2023	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	
RHMW19	APPL	23L0216	RHMW19-WGN01LF-2312WK4-DF	12/27/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHMW19	SGS Orlando	FC12258	RHMW19-WGN01LF-2312WK4-DF	12/27/2023	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	
RHMW19	APPL	24A0035	RHMW19-WGN01LF-2401-DF	1/4/2024	Primary	<80	UJ	–		–		–		–		–		–	
RHMW19	SGS Anchorage	1240082_EDMS	RHMW19-WGN01LF-2401-DF	1/4/2024	Primary	–		–		–		–		–		<750	U	<750	U
RHMW19	SGS Orlando	FC12403	RHMW19-WGN01LF-2401-DF	1/4/2024	Primary	–		<2	U	<0.015	U	<0.5	U	–		–		–	
RHMW19	SGS Orlando	FC12403B	RHMW19-WGN01LF-2401-DF	1/4/2024	Primary	–		–		–		–		0.7		–		–	
RHMW19	APPL	24A0057	RHMW19-WGN01LF-2401WK2-DF	1/9/2024	Primary	<80	UJ	–		–		–		–		–		–	
RHMW19	SGS Orlando	FC12486	RHMW19-WGN01LF-2401WK2-DF	1/9/2024	Primary	–		<2	U	<0.015	U	<0.5	U	–		–		–	
RHMW19	APPL	24A0108	RHMW19-WGN01LF-2401WK3-DF	1/16/2024	Primary	<80	UJ	–		–		–		–		–		–	
RHMW19	SGS Orlando	FC12611	RHMW19-WGN01LF-2401WK3-DF	1/16/2024	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHMW20

						Total Petroleum Hydrocarbons										Volatile Organic Compounds								Polycyclic Aromatic Hydrocarbons (PAHs) – AOC/LTM					
					Analyte	TPH-g		TPH-d [a]		TPH-o [a]		TPH-d with Silica Gel Cleanup [a]		TPH-o with Silica Gel Cleanup [a]		Benzene		Ethylbenzene		Toluene		Xylenes		1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene	
					CAS No.	PHCC6C10		PHCC10C24		PHCC24C40		PHCC10C24SGC		PHCC24C40SGC		71-43-2		100-41-4		108-88-3		1330-20-7		90-12-0		91-57-6		91-20-3	
					Method	8260		8015		8015		8015		8015		8260		8260		8260		8260		8270 SIM		8270 SIM		8270 SIM	
					DOH Tier 1 EAL	300		400		500		—		—		5		30		40		20		10		10		17	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		93.3		140		ND		102		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW20	SGS Orlando	FC7026	RHMW20-WGN01LF-2306WK2	6/14/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	–	R	–	R	–	R
RHMW20	ALS Kelso	K2310020	RHMW20-WGN01LF-2309	9/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20	ALS Kelso	K2311474	RHMW20-WGN01LF-2310	10/5/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20	Energy	B23100765	RHMW20-WGN01LF-2310	10/5/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20	SGS Orlando	FC10295	RHMW20-WGN01LF-2310	10/5/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	UJ	<0.4	UJ	<0.4	UJ
RHMW20	APPL	23J0132	RHMW20-WGN01LF-23Q4	10/10/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20	Energy	B23101127	RHMW20-WGN01LF-23Q4	10/10/2023	Primary	<8.5	U	<140	U	<140	U	–		–		<0.1	U	<0.1	U	<0.2	U	<0.1	U	–		–		–	
RHMW20	SGS Orlando	FC10442	RHMW20-WGN01LF-23Q4	10/10/2023	Primary	–		–		–		–		–		–		–		–		–		<0.4	U	<0.4	U	<0.4	U
RHMW20	APPL	23J0260	RHMW20-WGN01LF-2310WK4-DF	10/23/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20	SGS Orlando	FC10676	RHMW20-WGN01LF-2310WK4-DF	10/23/2023	Primary	<50	U	<96	U	<150	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U
RHMW20	APPL	23K0019	RHMW20-WGN01LF-2310WK5-DF	11/2/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20	SGS Orlando	FC10943	RHMW20-WGN01LF-2310WK5-DF	11/2/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U
RHMW20	ALS Kelso	K2312824	RHMW20-WGN01LF-2311-DF	11/9/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20	APPL	23K0084	RHMW20-WGN01LF-2311-DF	11/9/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20	SGS Orlando	FC11133	RHMW20-WGN01LF-2311-DF	11/9/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	UJ	<0.4	U	<0.4	U
RHMW20	SGS Orlando	FC11133B	RHMW20-WGN01LF-2311-DF	11/9/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20	APPL	23K0123	RHMW20-WGN01LF-2311WK2-DF	11/14/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20	SGS Orlando	FC11263	RHMW20-WGN01LF-2311WK2-DF	11/14/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	UJ	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW20	APPL	23K0205	RHMW20-WGN01LF-2311WK3-DF	11/21/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20	SGS Orlando	FC11473	RHMW20-WGN01LF-2311WK3-DF	11/21/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	UJ	<0.42	UJ	<0.42	U
RHMW20	APPL	23K0236	RHMW20-WGN01LF-2311WK4-DF	11/29/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20	SGS Orlando	FC11596	RHMW20-WGN01LF-2311WK4-DF	11/29/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	UJ	<0.42	UJ	<0.42	U
RHMW20	APPL	23L0056	RHMW20-WGN01LF-2312-DF	12/7/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20	SGS Anchorage	1236658_EDMS	RHMW20-WGN01LF-2312-DF	12/7/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20	SGS Orlando	FC11802	RHMW20-WGN01LF-2312-DF	12/7/2023	Primary	<50	U	<100	U	<160	U	<100	U	<160	U	<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	UJ	<0.4	UJ	<0.4	U
RHMW20	SGS Orlando	FC11802B	RHMW20-WGN01LF-2312-DF	12/7/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20	APPL	23L0108	RHMW20-WGN01LF-2312WK2-DF	12/13/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20	SGS Orlando	FC11982	RHMW20-WGN01LF-2312WK2-DF	12/13/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	UJ	<0.4	UJ	<0.4	U
RHMW20	SGS Orlando	FC11982A	RHMW20-WGN01LF-2312WK2-DF	12/13/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20	APPL	23L0179	RHMW20-WGN01LF-2312WK3-DF	12/20/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20	SGS Orlando	FC12167	RHMW20-WGN01LF-2312WK3-DF	12/20/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U
RHMW20	APPL	23L0220	RHMW20-WGN01LF-2312WK4-DF	12/28/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20	SGS Orlando	FC12289	RHMW20-WGN01LF-2312WK4-DF	12/28/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW20	APPL	24A0022	RHMW20-WGN01LF-2401-DF	1/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20	SGS Anchorage	1240064_EDMS	RHMW20-WGN01LF-2401-DF	1/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20	SGS Orlando	FC12382	RHMW20-WGN01LF-2401-DF	1/3/2024	Primary	<50	U	93.3	J	140	J	<100	U	102	J	<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U
RHMW20	SGS Orlando	FC12382B	RHMW20-WGN01LF-2401-DF	1/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20	APPL	24A0066	RHMW20-WGN01LF-2401WK2-DF	1/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20	SGS Orlando	FC12522	RHMW20-WGN01LF-2401WK2-DF	1/10/2024	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U
RHMW20	APPL	24A0125	RHMW20-WGN01LF-2401WK3-DF	1/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20	SGS Orlando	FC12661	RHMW20-WGN01LF-2401WK3-DF	1/17/2024	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHMW20

						Polycyclic Aromatic Hydrocarbons (PAHs)																													
					Analyte	Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)		Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)peryelene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
					CAS No.	83-32-9		208-96-8		120-12-7		56-55-3		50-32-8		205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
					Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
					DOH Tier 1 EAL	20		240		0.18		0.029		0.2		0.22		0.13		0.4		1		0.022		13		240		0.095		210		68	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW20	SGS Orlando	FC7026	RHMW20-WGN01LF-2306WK2	6/14/2023	Primary	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R
RHMW20	ALS Kelso	K2310020	RHMW20-WGN01LF-2309	9/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20	ALS Kelso	K2311474	RHMW20-WGN01LF-2310	10/5/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20	Energy	B23100765	RHMW20-WGN01LF-2310	10/5/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20	SGS Orlando	FC10295	RHMW20-WGN01LF-2310	10/5/2023	Primary	<0.4	UJ	<0.4	UJ	<0.4	UJ	<0.04	UJ	<0.04	UJ	<0.04	UJ	<0.04	UJ	<0.04	UJ	<0.08	UJ	<0.04	UJ	<0.4	UJ	<0.4	UJ	<0.04	UJ	<0.4	UJ	<0.4	UJ
RHMW20	APPL	23J0132	RHMW20-WGN01LF-23Q4	10/10/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20	Energy	B23101127	RHMW20-WGN01LF-23Q4	10/10/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20	SGS Orlando	FC10442	RHMW20-WGN01LF-23Q4	10/10/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHMW20	APPL	23J0260	RHMW20-WGN01LF-2310WK4-DF	10/23/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20	SGS Orlando	FC10676	RHMW20-WGN01LF-2310WK4-DF	10/23/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHMW20	APPL	23K0019	RHMW20-WGN01LF-2310WK5-DF	11/2/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20	SGS Orlando	FC10943	RHMW20-WGN01LF-2310WK5-DF	11/2/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHMW20	ALS Kelso	K2312824	RHMW20-WGN01LF-2311-DF	11/9/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20	APPL	23K0084	RHMW20-WGN01LF-2311-DF	11/9/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20	SGS Orlando	FC11133	RHMW20-WGN01LF-2311-DF	11/9/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHMW20	SGS Orlando	FC11133B	RHMW20-WGN01LF-2311-DF	11/9/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20	APPL	23K0123	RHMW20-WGN01LF-2311WK2-DF	11/14/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20	SGS Orlando	FC11263	RHMW20-WGN01LF-2311WK2-DF	11/14/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW20	APPL	23K0205	RHMW20-WGN01LF-2311WK3-DF	11/21/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20	SGS Orlando	FC11473	RHMW20-WGN01LF-2311WK3-DF	11/21/2023	Primary	<0.42	UJ	<0.42	UJ	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	UJ	<0.042	U	<0.42	UJ	<0.42	U
RHMW20	APPL	23K0236	RHMW20-WGN01LF-2311WK4-DF	11/29/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20	SGS Orlando	FC11596	RHMW20-WGN01LF-2311WK4-DF	11/29/2023	Primary	<0.42	UJ	<0.42	UJ	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	UJ	<0.042	U	<0.42	UJ	<0.42	U
RHMW20	APPL	23L0056	RHMW20-WGN01LF-2312-DF	12/7/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20	SGS Anchorage	1236658_EDMS	RHMW20-WGN01LF-2312-DF	12/7/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20	SGS Orlando	FC11802	RHMW20-WGN01LF-2312-DF	12/7/2023	Primary	<0.4	UJ	<0.4	UJ	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	UJ	<0.4	UJ	<0.04	U	<0.4	UJ	<0.4	U
RHMW20	SGS Orlando	FC11802B	RHMW20-WGN01LF-2312-DF	12/7/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20	APPL	23L0108	RHMW20-WGN01LF-2312WK2-DF	12/13/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20	SGS Orlando	FC11982	RHMW20-WGN01LF-2312WK2-DF	12/13/2023	Primary	<0.4	UJ	<0.4	UJ	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	UJ	<0.4	UJ	<0.04	U	<0.4	UJ	<0.4	U
RHMW20	SGS Orlando	FC11982A	RHMW20-WGN01LF-2312WK2-DF	12/13/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20	APPL	23L0179	RHMW20-WGN01LF-2312WK3-DF	12/20/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20	SGS Orlando	FC12167	RHMW20-WGN01LF-2312WK3-DF	12/20/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHMW20	APPL	23L0220	RHMW20-WGN01LF-2312WK4-DF	12/28/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20	SGS Orlando	FC12289	RHMW20-WGN01LF-2312WK4-DF	12/28/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW20	APPL	24A0022	RHMW20-WGN01LF-2401-DF	1/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20	SGS Anchorage	1240064_EDMS	RHMW20-WGN01LF-2401-DF	1/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20	SGS Orlando	FC12382	RHMW20-WGN01LF-2401-DF	1/3/2024	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHMW20	SGS Orlando	FC12382B	RHMW20-WGN01LF-2401-DF	1/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20	APPL	24A0066	RHMW20-WGN01LF-2401WK2-DF	1/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20	SGS Orlando	FC12522	RHMW20-WGN01LF-2401WK2-DF	1/10/2024	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHMW20	APPL	24A0125	RHMW20-WGN01LF-2401WK3-DF	1/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20	SGS Orlando	FC12661	RHMW20-WGN01LF-2401WK3-DF	1/17/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHMW20

						Fuel Additive				Lead Scavengers				Natural Attenuation Parameters					
					Analyte	2-(2- Methoxyethoxy)-ethanol [b]		Phenol		1,2-Dibromoethane		1,2-Dichloroethane		Methane		Total Organic Carbon		NV Dissolved Organic Carbon	
					CAS No.	111-77-3		108-95-2		106-93-4		107-06-2		74-82-8		TOC		—	
					Method	8270D		SW8270		8011		8260		RSK 175		9060		9060	
					DOH Tier 1 EAL	800		300		0.04		5		—		—		—	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		ND		0.19		1110		1020	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result	
RHMW20	SGS Orlando	FC7026	RHMW20-WGN01LF-2306WK2	6/14/2023	Primary	–		<2	U	–		<0.5	U	<0.25	U	–		–	
RHMW20	ALS Kelso	K2310020	RHMW20-WGN01LF-2309	9/6/2023	Primary	–		–		–		–		–		<500	U	600	
RHMW20	ALS Kelso	K2311474	RHMW20-WGN01LF-2310	10/5/2023	Primary	–		–		–		–		–		500		700	
RHMW20	Energy	B23100765	RHMW20-WGN01LF-2310	10/5/2023	Primary	–		–		<0.0049	U	–		–		–		–	
RHMW20	SGS Orlando	FC10295	RHMW20-WGN01LF-2310	10/5/2023	Primary	–		<1.9	U	–		<0.5	U	<0.25	U	–		–	
RHMW20	APPL	23J0132	RHMW20-WGN01LF-23Q4	10/10/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHMW20	Energy	B23101127	RHMW20-WGN01LF-23Q4	10/10/2023	Primary	–		–		<0.0049	U	<0.1	U	–		–		–	
RHMW20	SGS Orlando	FC10442	RHMW20-WGN01LF-23Q4	10/10/2023	Primary	–		<1.9	U	–		–		0.19	J	–	R	–	
RHMW20	APPL	23J0260	RHMW20-WGN01LF-2310WK4-DF	10/23/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHMW20	SGS Orlando	FC10676	RHMW20-WGN01LF-2310WK4-DF	10/23/2023	Primary	–		<1.9	U	<0.014	U	<0.5	U	–		–		–	
RHMW20	APPL	23K0019	RHMW20-WGN01LF-2310WK5-DF	11/2/2023	Primary	<80	U	–		–		–		–		–		–	
RHMW20	SGS Orlando	FC10943	RHMW20-WGN01LF-2310WK5-DF	11/2/2023	Primary	–		<1.9	U	<0.014	U	<0.5	U	–		–		–	
RHMW20	ALS Kelso	K2312824	RHMW20-WGN01LF-2311-DF	11/9/2023	Primary	–		–		–		–		–		<500	U	<500	U
RHMW20	APPL	23K0084	RHMW20-WGN01LF-2311-DF	11/9/2023	Primary	<80	U	–		–		–		–		–		–	
RHMW20	SGS Orlando	FC11133	RHMW20-WGN01LF-2311-DF	11/9/2023	Primary	–		<2	U	<0.015	U	<0.5	U	–		–		–	
RHMW20	SGS Orlando	FC11133B	RHMW20-WGN01LF-2311-DF	11/9/2023	Primary	–		–		–		–		0.16	J	–		–	
RHMW20	APPL	23K0123	RHMW20-WGN01LF-2311WK2-DF	11/14/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHMW20	SGS Orlando	FC11263	RHMW20-WGN01LF-2311WK2-DF	11/14/2023	Primary	–		<1.9	U	<0.015	U	<0.5	U	–		–		–	
RHMW20	APPL	23K0205	RHMW20-WGN01LF-2311WK3-DF	11/21/2023	Primary	<80	U	–		–		–		–		–		–	
RHMW20	SGS Orlando	FC11473	RHMW20-WGN01LF-2311WK3-DF	11/21/2023	Primary	–		<2	U	<0.015	U	<0.5	U	–		–		–	
RHMW20	APPL	23K0236	RHMW20-WGN01LF-2311WK4-DF	11/29/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHMW20	SGS Orlando	FC11596	RHMW20-WGN01LF-2311WK4-DF	11/29/2023	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	
RHMW20	APPL	23L0056	RHMW20-WGN01LF-2312-DF	12/7/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHMW20	SGS Anchorage	1236658_EDMS	RHMW20-WGN01LF-2312-DF	12/7/2023	Primary	–		–		–		–		–		<750	U	<750	U
RHMW20	SGS Orlando	FC11802	RHMW20-WGN01LF-2312-DF	12/7/2023	Primary	–		<2	U	<0.015	U	<0.5	U	–		–		–	
RHMW20	SGS Orlando	FC11802B	RHMW20-WGN01LF-2312-DF	12/7/2023	Primary	–		–		<0.015		–		<0.25	U	–		–	
RHMW20	APPL	23L0108	RHMW20-WGN01LF-2312WK2-DF	12/13/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHMW20	SGS Orlando	FC11982	RHMW20-WGN01LF-2312WK2-DF	12/13/2023	Primary	–		<1.9	U	–		<0.5	U	–		–		–	
RHMW20	SGS Orlando	FC11982A	RHMW20-WGN01LF-2312WK2-DF	12/13/2023	Primary	–		–		<0.014	U	–		–		–		–	
RHMW20	APPL	23L0179	RHMW20-WGN01LF-2312WK3-DF	12/20/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHMW20	SGS Orlando	FC12167	RHMW20-WGN01LF-2312WK3-DF	12/20/2023	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	
RHMW20	APPL	23L0220	RHMW20-WGN01LF-2312WK4-DF	12/28/2023	Primary	<80	U	–		–		–		–		–		–	
RHMW20	SGS Orlando	FC12289	RHMW20-WGN01LF-2312WK4-DF	12/28/2023	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	
RHMW20	APPL	24A0022	RHMW20-WGN01LF-2401-DF	1/3/2024	Primary	<80	UJ	–		–		–		–		–		–	
RHMW20	SGS Anchorage	1240064_EDMS	RHMW20-WGN01LF-2401-DF	1/3/2024	Primary	–		–		–		–		–		1110		1020	J+
RHMW20	SGS Orlando	FC12382	RHMW20-WGN01LF-2401-DF	1/3/2024	Primary	–		<1.9	U	<0.014	U	<0.5	U	–		–		–	
RHMW20	SGS Orlando	FC12382B	RHMW20-WGN01LF-2401-DF	1/3/2024	Primary	–		–		–		–		0.19	J	–		–	
RHMW20	APPL	24A0066	RHMW20-WGN01LF-2401WK2-DF	1/10/2024	Primary	<80	UJ	–		–		–		–		–		–	
RHMW20	SGS Orlando	FC12522	RHMW20-WGN01LF-2401WK2-DF	1/10/2024	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	
RHMW20	APPL	24A0125	RHMW20-WGN01LF-2401WK3-DF	1/17/2024	Primary	<80	UJ	–		–		–		–		–		–	
RHMW20	SGS Orlando	FC12661	RHMW20-WGN01LF-2401WK3-DF	1/17/2024	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHMW2254-01

						Total Petroleum Hydrocarbons												Volatile Organic Compounds								Polycyclic Aromatic Hydrocarbons (PAHs) – AOC/LTM					
					Analyte	TPH-g		TPH-d [a]		TPH-o [a]		TPH-d with Silica Gel Cleanup [a]		TPH-o with Silica Gel Cleanup [a]		Benzene		Ethylbenzene		Toluene		Xylenes		1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene	
					CAS No.	PHCC6C10		PHCC10C24		PHCC24C40		PHCC10C24SGC		PHCC24C40SGC		71-43-2		100-41-4		108-88-3		1330-20-7		90-12-0		91-57-6		91-20-3	
					Method	8260		8015		8015		8015		8015		8260		8260		8260		8260		8270 SIM		8270 SIM		8270 SIM	
					DOH Tier 1 EAL	300		400		500		—		—		5		30		40		20		10		10		17	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
					Maximum	43.5		128		223		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW2254-01	ALS Kelso	K2310020	RHMW2254-01-WGN01LF-2309	9/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	ALS Kelso	K2311474	RHMW2254-01-WGN01LF-2310	10/5/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	SGS Orlando	FC10295	RHMW2254-01-WGN01LF-2310	10/5/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	UJ	<0.4	UJ	<0.4	UJ
RHMW2254-01	APPL	23J0127	RHMW2254-01-WGN01LF-23Q4	10/12/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Energy	B23101113	RHMW2254-01-WGN01LF-23Q4	10/12/2023	Primary	<8.5	U	128	J	223	J	<141	U	<141	U	<0.1	U	<0.1	U	<0.2	U	<0.1	U	–		–		–	
RHMW2254-01	SGS Orlando	FC10448	RHMW2254-01-WGN01LF-23Q4	10/12/2023	Primary	–		–		–		–		–		–		–		–		–		<0.38	U	<0.38	U	<0.38	U
RHMW2254-01	SGS Orlando	FC10534	RHMW2254-01-WGN01LF-2310WK3-DF	10/17/2023	Primary	–		<100	U	<160	U	–		–		–		–		–		–		<0.4	U	<0.4	U	<0.4	U
RHMW2254-01	SGS Orlando	FC10716	RHMW2254-01-WGF01LF-2310WK4-DF	10/24/2023		–		<100	U	<170	U	–		–		–		–		–		–		<0.4	U	<0.4	U	<0.4	U
RHMW2254-01	SGS Orlando	FC10716	RHMW2254-01-WGN01LF-2310WK4-DF	10/24/2023	Primary	–		<100	U	<160	U	–		–		–		–		–		–		<0.4	U	<0.4	U	<0.4	U
RHMW2254-01	SGS Orlando	FC10882	RHMW2254-01-WGF01LF-2310WK5-DF	10/31/2023		–		<110	U	<170	U	–		–		–		–		–		–		<0.42	U	<0.42	U	<0.42	U
RHMW2254-01	SGS Orlando	FC10882	RHMW2254-01-WGN01LF-2310WK5-DF	10/31/2023	Primary	–		<100	U	<170	U	–		–		–		–		–		–		<0.42	U	<0.42	U	<0.42	U
RHMW2254-01	SGS Orlando	FC11063	RHMW2254-01-WGFD01LF-2311-DF	11/7/2023	Field Duplicate	43.5	J	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	UJ	<0.42	U	<0.42	U
RHMW2254-01	ALS Kelso	K2312760	RHMW2254-01-WGN01LF-2311-DF	11/7/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	SGS Orlando	FC11063	RHMW2254-01-WGN01LF-2311-DF	11/7/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	UJ	<0.42	U	<0.42	U
RHMW2254-01	SGS Orlando	FC11063B	RHMW2254-01-WGN01LF-2311-DF	11/7/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	SGS Orlando	FC11263	RHMW2254-01-WGF01LF-2311WK2-DF	11/14/2023		–		<100	U	<170	U	–		–		–		–		–		–		<0.4	U	<0.4	U	<0.4	U
RHMW2254-01	SGS Orlando	FC11263	RHMW2254-01-WGN01LF-2311WK2-DF	11/14/2023	Primary	–		<100	U	<170	U	–		–		–		–		–		–		<0.4	U	<0.4	U	<0.4	U
RHMW2254-01	SGS Orlando	FC11473	RHMW2254-01-WGF01LF-2311WK3-DF	11/21/2023		–		<100	U	<170	U	–		–		–		–		–		–		<0.42	UJ	<0.42	UJ	<0.42	U
RHMW2254-01	SGS Orlando	FC11473	RHMW2254-01-WGN01LF-2311WK3-DF	11/21/2023	Primary	–		<100	U	<170	U	–		–		–		–		–		–		<0.42	UJ	<0.42	UJ	<0.42	U
RHMW2254-01	SGS Orlando	FC11564	RHMW2254-01-WGF01LF-2311WK4-DF	11/28/2023		–		<100	U	<170	U	–		–		–		–		–		–		<0.42	UJ	<0.42	UJ	<0.42	U
RHMW2254-01	SGS Orlando	FC11564	RHMW2254-01-WGN01LF-2311WK4-DF	11/28/2023	Primary	–		<100	U	<170	U	–		–		–		–		–		–		<0.42	UJ	<0.42	UJ	<0.42	U
RHMW2254-01	SGS Anchorage	1236605_EDMS	RHMW2254-01-WGN01LF-2312-DF	12/5/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	SGS Orlando	FC11717	RHMW2254-01-WGN01LF-2312-DF	12/5/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	UJ	<0.42	UJ	<0.42	U
RHMW2254-01	SGS Orlando	FC11717B	RHMW2254-01-WGN01LF-2312-DF	12/5/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	SGS Orlando	FC11937	RHMW2254-01-WGN01LF-2312WK2-DF	12/12/2023	Primary	–		<100	U	<170	U	–		–		–		–		–		–		<0.4	UJ	<0.4	UJ	<0.4	U
RHMW2254-01	SGS Orlando	FC12136	RHMW2254-01-WGN01LF-2312WK3-DF	12/19/2023	Primary	–		<100	U	<170	U	–		–		–		–		–		–		<0.4	U	<0.4	U	<0.4	U
RHMW2254-01	SGS Orlando	FC12235	RHMW2254-01-WGN01LF-2312WK4-DF	12/26/2023	Primary	–		<100	U	<170	U	–		–		–		–		–		–		<0.42	U	<0.42	U	<0.42	U
RHMW2254-01	SGS Anchorage	1240028_EDMS	RHMW2254-01-WGN01LF-2401-DF	1/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	SGS Orlando	FC12338	RHMW2254-01-WGN01LF-2401-DF	1/2/2024	Primary	<50	U	<96	U	<150	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW2254-01	SGS Orlando	FC12338B	RHMW2254-01-WGN01LF-2401-DF	1/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	SGS Orlando	FC12486	RHMW2254-01-WGN01LF-2401WK2-DF	1/9/2024	Primary	–		<110	U	<170	U	–		–		–		–		–		–		<0.42	U	<0.42	U	<0.42	U
RHMW2254-01	SGS Orlando	FC12611	RHMW2254-01-WGN01LF-2401WK3-DF	1/16/2024	Primary	–		<100	U	<170	U	–		–		–		–		–		–		<0.4	UJ	<0.4	UJ	<0.4	UJ

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHMW2254-01

						Polycyclic Aromatic Hydrocarbons (PAHs)																															
					Analyte	Acenaphthene (SIM)				Acenaphthylene (SIM)				Anthracene (SIM)				Benzo(a)anthracene (SIM)				Benzo(a)pyrene (SIM)				Benzo(b)fluoranthene (SIM)				Benzo(g,h,i)peryelene (SIM)				Benzo(k)fluoranthene (SIM)				Chrysene (SIM)				Dibenzo(a,h)anthracene (SIM)				Fluoranthene (SIM)				Fluorene (SIM)				Indeno(1,2,3-cd)pyrene (SIM)				Phenanthrene (SIM)				Pyrene (SIM)			
					CAS No.	83-32-9				208-96-8				120-12-7				56-55-3				50-32-8				205-99-2				191-24-2				207-08-9				218-01-9				53-70-3				206-44-0				86-73-7				193-39-5				85-01-8				129-00-0			
					Method	8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM			
					DOH Tier 1 EAL	20				240				0.18				0.029				0.2				0.22				0.13				0.4				1				0.022				13				240				0.095				210				68			
					Units	µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L			
					Minimum	ND				ND				ND				ND				ND				ND				ND				ND				ND				ND				ND				ND				ND				ND			
					Maximum	ND				ND				ND				ND				ND				ND				ND				ND				ND				ND				ND				ND				ND				ND			
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result				Result				Result				Result				Result				Result				Result				Result				Result				Result				Result				Result				Result				Result			
RHMW2254-01	ALS Kelso	K2310020	RHMW2254-01-WGN01LF-2309	9/6/2023	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW2254-01	ALS Kelso	K2311474	RHMW2254-01-WGN01LF-2310	10/5/2023	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW2254-01	SGS Orlando	FC10295	RHMW2254-01-WGN01LF-2310	10/5/2023	Primary	<0.4	UJ			<0.4	UJ			<0.4	UJ			<0.04	UJ			<0.04	UJ			<0.04	UJ			<0.04	UJ			<0.04	UJ			<0.08	UJ			<0.04	UJ			<0.4	UJ			<0.4	UJ			<0.04	UJ			<0.4	UJ			<0.4	UJ		
RHMW2254-01	APPL	23J0127	RHMW2254-01-WGN01LF-23Q4	10/12/2023	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW2254-01	Energy	B23101113	RHMW2254-01-WGN01LF-23Q4	10/12/2023	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW2254-01	SGS Orlando	FC10448	RHMW2254-01-WGN01LF-23Q4	10/12/2023	Primary	<0.38	U			<0.38	U			<0.38	U			<0.038	U			<0.038	U			<0.038	U			<0.038	U			<0.038	U			<0.077	U			<0.038	U			<0.38	U			<0.38	U			<0.038	U			<0.38	U			<0.38	U		
RHMW2254-01	SGS Orlando	FC10534	RHMW2254-01-WGN01LF-2310WK3-DF	10/17/2023	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW2254-01	SGS Orlando	FC10716	RHMW2254-01-WGF01LF-2310WK4-DF	10/24/2023		–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW2254-01	SGS Orlando	FC10716	RHMW2254-01-WGN01LF-2310WK4-DF	10/24/2023	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW2254-01	SGS Orlando	FC10882	RHMW2254-01-WGF01LF-2310WK5-DF	10/31/2023		–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW2254-01	SGS Orlando	FC10882	RHMW2254-01-WGN01LF-2310WK5-DF	10/31/2023	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW2254-01	SGS Orlando	FC11063	RHMW2254-01-WGFD01LF-2311-DF	11/7/2023	Field Duplicate	<0.42	U			<0.42	U			<0.42	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.083	U			<0.042	U			<0.42	U			<0.42	U			<0.042	U			<0.42	U			<0.42	U		
RHMW2254-01	ALS Kelso	K2312760	RHMW2254-01-WGN01LF-2311-DF	11/7/2023	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW2254-01	SGS Orlando	FC11063	RHMW2254-01-WGN01LF-2311-DF	11/7/2023	Primary	<0.42	U			<0.42	U			<0.42	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.083	U			<0.042	U			<0.42	U			<0.42	U			<0.042	U			<0.42	U			<0.42	U		
RHMW2254-01	SGS Orlando	FC11063B	RHMW2254-01-WGN01LF-2311-DF	11/7/2023	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW2254-01	SGS Orlando	FC11263	RHMW2254-01-WGF01LF-2311WK2-DF	11/14/2023		–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW2254-01	SGS Orlando	FC11263	RHMW2254-01-WGN01LF-2311WK2-DF	11/14/2023	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW2254-01	SGS Orlando	FC11473	RHMW2254-01-WGF01LF-2311WK3-DF	11/21/2023		–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW2254-01	SGS Orlando	FC11473	RHMW2254-01-WGN01LF-2311WK3-DF	11/21/2023	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW2254-01	SGS Orlando	FC11564	RHMW2254-01-WGF01LF-2311WK4-DF	11/28/2023		–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW2254-01	SGS Orlando	FC11564	RHMW2254-01-WGN01LF-2311WK4-DF	11/28/2023	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW2254-01	SGS Anchorage	1236605_EDMS	RHMW2254-01-WGN01LF-2312-DF	12/5/2023	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW2254-01	SGS Orlando	FC11717	RHMW2254-01-WGN01LF-2312-DF	12/5/2023	Primary	<0.42	UJ			<0.42	UJ			<0.42	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.083	U			<0.042	U			<0.42	UJ			<0.42	UJ			<0.042	U			<0.42	UJ			<0.42	U		
RHMW2254-01	SGS Orlando	FC11717B	RHMW2254-01-WGN01LF-2312-DF	12/5/2023	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW2254-01	SGS Orlando	FC11937	RHMW2254-01-WGN01LF-2312WK2-DF	12/12/2023	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW2254-01	SGS Orlando	FC12136	RHMW2254-01-WGN01LF-2312WK3-DF	12/19/2023	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW2254-01	SGS Orlando	FC12235	RHMW2254-01-WGN01LF-2312WK4-DF	12/26/2023	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW2254-01	SGS Anchorage	1240028_EDMS	RHMW2254-01-WGN01LF-2401-DF	1/2/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW2254-01	SGS Orlando	FC12338	RHMW2254-01-WGN01LF-2401-DF	1/2/2024	Primary	<0.42	U			<0.42	U			<0.42	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.083	U			<0.042	U			<0.42	U			<0.42	U			<0.042	U			<0.42	U			<0.42	U		
RHMW2254-01	SGS Orlando	FC12338B	RHMW2254-01-WGN01LF-2401-DF	1/2/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW2254-01	SGS Orlando	FC12486	RHMW2254-01-WGN01LF-2401WK2-DF	1/9/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW2254-01	SGS Orlando	FC12611	RHMW2254-01-WGN01LF-2401WK3-DF	1/16/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHMW2254-01

						Fuel Additive				Lead Scavengers				Natural Attenuation Parameters					
					Analyte	2-(2- Methoxyethoxy)-ethanol [b]		Phenol		1,2-Dibromoethane		1,2-Dichloroethane		Methane		Total Organic Carbon		NV Dissolved Organic Carbon	
					CAS No.	111-77-3		108-95-2		106-93-4		107-06-2		74-82-8		TOC		—	
					Method	8270D		SW8270		8011		8260		RSK 175		9060		9060	
					DOH Tier 1 EAL	800		300		0.04		5		—		—		—	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		–		–		ND		ND		ND	
					Maximum	ND		ND		–		–		0.17		ND		1200	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result	
RHMW2254-01	ALS Kelso	K2310020	RHMW2254-01-WGN01LF-2309	9/6/2023	Primary	–		–		–		–		–		<500	U	<500	U
RHMW2254-01	ALS Kelso	K2311474	RHMW2254-01-WGN01LF-2310	10/5/2023	Primary	–		–		–		–		–		<500	U	<500	U
RHMW2254-01	SGS Orlando	FC10295	RHMW2254-01-WGN01LF-2310	10/5/2023	Primary	–		<2	U	–		–		<0.25	U	–		–	
RHMW2254-01	APPL	23J0127	RHMW2254-01-WGN01LF-23Q4	10/12/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHMW2254-01	Energy	B23101113	RHMW2254-01-WGN01LF-23Q4	10/12/2023	Primary	–		–		–		–		–		–		–	
RHMW2254-01	SGS Orlando	FC10448	RHMW2254-01-WGN01LF-23Q4	10/12/2023	Primary	–		<1.9	U	–		–		**0.17**	J	<1000	U	–	
RHMW2254-01	SGS Orlando	FC10534	RHMW2254-01-WGN01LF-2310WK3-DF	10/17/2023	Primary	–		–		–		–		–		–		–	
RHMW2254-01	SGS Orlando	FC10716	RHMW2254-01-WGF01LF-2310WK4-DF	10/24/2023		–		–		–		–		–		–		–	
RHMW2254-01	SGS Orlando	FC10716	RHMW2254-01-WGN01LF-2310WK4-DF	10/24/2023	Primary	–		–		–		–		–		–		–	
RHMW2254-01	SGS Orlando	FC10882	RHMW2254-01-WGF01LF-2310WK5-DF	10/31/2023		–		–		–		–		–		–		–	
RHMW2254-01	SGS Orlando	FC10882	RHMW2254-01-WGN01LF-2310WK5-DF	10/31/2023	Primary	–		–		–		–		–		–		–	
RHMW2254-01	SGS Orlando	FC11063	RHMW2254-01-WGFD01LF-2311-DF	11/7/2023	Field Duplicate	–		<2	U	–		–		–		–		–	
RHMW2254-01	ALS Kelso	K2312760	RHMW2254-01-WGN01LF-2311-DF	11/7/2023	Primary	–		–		–		–		–		<500	U	**1200**	
RHMW2254-01	SGS Orlando	FC11063	RHMW2254-01-WGN01LF-2311-DF	11/7/2023	Primary	–		<2	U	–		–		–		–		–	
RHMW2254-01	SGS Orlando	FC11063B	RHMW2254-01-WGN01LF-2311-DF	11/7/2023	Primary	–		–		–		–		<0.25	U	–		–	
RHMW2254-01	SGS Orlando	FC11263	RHMW2254-01-WGF01LF-2311WK2-DF	11/14/2023		–		–		–		–		–		–		–	
RHMW2254-01	SGS Orlando	FC11263	RHMW2254-01-WGN01LF-2311WK2-DF	11/14/2023	Primary	–		–		–		–		–		–		–	
RHMW2254-01	SGS Orlando	FC11473	RHMW2254-01-WGF01LF-2311WK3-DF	11/21/2023		–		–		–		–		–		–		–	
RHMW2254-01	SGS Orlando	FC11473	RHMW2254-01-WGN01LF-2311WK3-DF	11/21/2023	Primary	–		–		–		–		–		–		–	
RHMW2254-01	SGS Orlando	FC11564	RHMW2254-01-WGF01LF-2311WK4-DF	11/28/2023		–		–		–		–		–		–		–	
RHMW2254-01	SGS Orlando	FC11564	RHMW2254-01-WGN01LF-2311WK4-DF	11/28/2023	Primary	–		–		–		–		–		–		–	
RHMW2254-01	SGS Anchorage	1236605_EDMS	RHMW2254-01-WGN01LF-2312-DF	12/5/2023	Primary	–		–		–		–		–		<750	U	<750	U
RHMW2254-01	SGS Orlando	FC11717	RHMW2254-01-WGN01LF-2312-DF	12/5/2023	Primary	–		<2	U	–		–		–		–		–	
RHMW2254-01	SGS Orlando	FC11717B	RHMW2254-01-WGN01LF-2312-DF	12/5/2023	Primary	–		–		–		–		<0.25	U	–		–	
RHMW2254-01	SGS Orlando	FC11937	RHMW2254-01-WGN01LF-2312WK2-DF	12/12/2023	Primary	–		–		–		–		–		–		–	
RHMW2254-01	SGS Orlando	FC12136	RHMW2254-01-WGN01LF-2312WK3-DF	12/19/2023	Primary	–		–		–		–		–		–		–	
RHMW2254-01	SGS Orlando	FC12235	RHMW2254-01-WGN01LF-2312WK4-DF	12/26/2023	Primary	–		–		–		–		–		–		–	
RHMW2254-01	SGS Anchorage	1240028_EDMS	RHMW2254-01-WGN01LF-2401-DF	1/2/2024	Primary	–		–		–		–		–		<750	U	<750	U
RHMW2254-01	SGS Orlando	FC12338	RHMW2254-01-WGN01LF-2401-DF	1/2/2024	Primary	–		<1.9	U	–		–		–		–		–	
RHMW2254-01	SGS Orlando	FC12338B	RHMW2254-01-WGN01LF-2401-DF	1/2/2024	Primary	–		–		–		–		<0.25	U	–		–	
RHMW2254-01	SGS Orlando	FC12486	RHMW2254-01-WGN01LF-2401WK2-DF	1/9/2024	Primary	–		–		–		–		–		–		–	
RHMW2254-01	SGS Orlando	FC12611	RHMW2254-01-WGN01LF-2401WK3-DF	1/16/2024	Primary	–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHP01

						Total Petroleum Hydrocarbons												Volatile Organic Compounds												Polycyclic Aromatic Hydrocarbons (PAHs) – AOC/LTM					
					Analyte	TPH-g		TPH-d [a]		TPH-o [a]		TPH-d with Silica Gel Cleanup [a]		TPH-o with Silica Gel Cleanup [a]		Benzene		Ethylbenzene		Toluene		Xylenes		1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene	
					CAS No.	PHCC6C10		PHCC10C24		PHCC24C40		PHCC10C24SGC		PHCC24C40SGC		71-43-2		100-41-4		108-88-3		1330-20-7		90-12-0		91-57-6		91-20-3	
					Method	8260		8015		8015		8015		8015		8260		8260		8260		8260		8270 SIM		8270 SIM		8270 SIM	
					DOH Tier 1 EAL	300		400		500		—		—		5		30		40		20		10		10		17	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		–		–		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		–		–		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHP01	ALS Kelso	K2310020	RHP01-WGN01LF-2309	9/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP01	ALS Kelso	K2311474	RHP01-WGN01LF-2310	10/4/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP01	Energy	B23100765	RHP01-WGN01LF-2310	10/4/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP01	SGS Orlando	FC10295	RHP01-WGN01LF-2310	10/4/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.38	UJ	<0.38	UJ	<0.38	UJ
RHP01	APPL	23J0092	RHP01-WGN01LF-23Q4	10/9/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP01	Energy	B23100745	RHP01-WGN01LF-23Q4	10/9/2023	Primary	<8.5	U	<140	U	<140	U	–		–		<0.1	U	<0.1	U	<0.2	U	<0.1	U	–		–		–	
RHP01	SGS Orlando	FC10327	RHP01-WGN01LF-23Q4	10/9/2023	Primary	–		–		–		–		–		–		–		–		–		<0.4	U	<0.4	U	<0.4	U
RHP01	APPL	23J0280	RHP01-WGN01LF-2310WK4-DF	10/25/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP01	SGS Orlando	FC10745	RHP01-WGN01LF-2310WK4-DF	10/25/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.43	U	<0.43	U	<0.43	U
RHP01	APPL	23K0012	RHP01-WGN01LF-2310WK5-DF	11/1/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP01	SGS Orlando	FC10911	RHP01-WGN01LF-2310WK5-DF	11/1/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHP01	ALS Kelso	K2312628	RHP01-WGN01LF-2311-DF	11/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP01	APPL	23K0041	RHP01-WGN01LF-2311-DF	11/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP01	SGS Orlando	FC11019	RHP01-WGN01LF-2311-DF	11/6/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHP01	SGS Orlando	FC11019B	RHP01-WGN01LF-2311-DF	11/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP01	APPL	23K0106	RHP01-WGN01LF-2311WK2-DF	11/13/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP01	SGS Orlando	FC11221	RHP01-WGN01LF-2311WK2-DF	11/13/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHP01	APPL	23K0183	RHP01-WGN01LF-2311WK3-DF	11/20/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP01	SGS Orlando	FC11419	RHP01-WGN01LF-2311WK3-DF	11/20/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	UJ	<0.5	UJ	<0.5	UJ	<1.5	UJ	<0.42	UJ	<0.42	UJ	<0.42	U
RHP01	APPL	23K0236	RHP01-WGN01LF-2311WK4-DF	11/29/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP01	SGS Orlando	FC11596	RHP01-WGN01LF-2311WK4-DF	11/29/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	UJ	<0.42	UJ	<0.42	U
RHP01	APPL	23L0019	RHP01-WGN01LF-2312-DF	12/4/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP01	SGS Anchorage	1236588_EDMS	RHP01-WGN01LF-2312-DF	12/4/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP01	SGS Orlando	FC11688	RHP01-WGN01LF-2312-DF	12/4/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	UJ	<0.42	UJ	<0.42	U
RHP01	SGS Orlando	FC11688B	RHP01-WGN01LF-2312-DF	12/4/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP01	APPL	23L0083	RHP01-WGN01LF-2312WK2-DF	12/11/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP01	SGS Orlando	FC11893	RHP01-WGN01LF-2312WK2-DF	12/11/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	UJ	<0.4	UJ	<0.4	U
RHP01	APPL	23L0150	RHP01-WGN01LF-2312WK3-DF	12/18/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP01	SGS Orlando	FC12097	RHP01-WGN01LF-2312WK3-DF	12/18/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U
RHP01	APPL	23L0208	RHP01-WGN01LF-2312WK4-DF	12/26/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP01	SGS Orlando	FC12235	RHP01-WGN01LF-2312WK4-DF	12/26/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHP01	APPL	24A0008	RHP01-WGN01LF-2401-DF	1/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP01	SGS Anchorage	1240028_EDMS	RHP01-WGN01LF-2401-DF	1/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP01	SGS Orlando	FC12338	RHP01-WGN01LF-2401-DF	1/2/2024	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHP01	SGS Orlando	FC12338B	RHP01-WGN01LF-2401-DF	1/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP01	APPL	24A0050	RHP01-WGN01LF-2401WK2-DF	1/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP01	SGS Orlando	FC12452	RHP01-WGN01LF-2401WK2-DF	1/8/2024	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U
RHP01	APPL	24A0104	RHP01-WGN01LF-2401WK3-DF	1/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP01	SGS Orlando	FC12594	RHP01-WGN01LF-2401WK3-DF	1/15/2024	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHP01

						Polycyclic Aromatic Hydrocarbons (PAHs)																															
					Analyte	Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)		Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)peryelene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)			
					CAS No.	83-32-9		208-96-8		120-12-7		56-55-3		50-32-8		205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0			
					Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM			
					DOH Tier 1 EAL	20		240		0.18		0.029		0.2		0.22		0.13		0.4		.1		0.022		13		240		0.095		210		68			
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L			
					Minimum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND			
					Maximum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND			
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result			
RHP01	ALS Kelso	K2310020	RHP01-WGN01LF-2309	9/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP01	ALS Kelso	K2311474	RHP01-WGN01LF-2310	10/4/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP01	Energy	B23100765	RHP01-WGN01LF-2310	10/4/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP01	SGS Orlando	FC10295	RHP01-WGN01LF-2310	10/4/2023	Primary	<0.38	UJ	<0.38	UJ	<0.38	UJ	<0.038	UJ	<0.038	UJ	<0.038	UJ	<0.038	UJ	<0.038	UJ	<0.077	UJ	<0.038	UJ	<0.38	UJ	<0.38	UJ	<0.038	UJ	<0.38	UJ	<0.38	UJ		
RHP01	APPL	23J0092	RHP01-WGN01LF-23Q4	10/9/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP01	Energy	B23100745	RHP01-WGN01LF-23Q4	10/9/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP01	SGS Orlando	FC10327	RHP01-WGN01LF-23Q4	10/9/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U		
RHP01	APPL	23J0280	RHP01-WGN01LF-2310WK4-DF	10/25/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP01	SGS Orlando	FC10745	RHP01-WGN01LF-2310WK4-DF	10/25/2023	Primary	<0.43	U	<0.43	U	<0.43	U	<0.043	U	<0.043	U	<0.043	U	<0.043	U	<0.043	U	<0.087	U	<0.043	U	<0.43	U	<0.43	U	<0.043	U	<0.43	U	<0.43	U		
RHP01	APPL	23K0012	RHP01-WGN01LF-2310WK5-DF	11/1/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP01	SGS Orlando	FC10911	RHP01-WGN01LF-2310WK5-DF	11/1/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U		
RHP01	ALS Kelso	K2312628	RHP01-WGN01LF-2311-DF	11/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP01	APPL	23K0041	RHP01-WGN01LF-2311-DF	11/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP01	SGS Orlando	FC11019	RHP01-WGN01LF-2311-DF	11/6/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U		
RHP01	SGS Orlando	FC11019B	RHP01-WGN01LF-2311-DF	11/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP01	APPL	23K0106	RHP01-WGN01LF-2311WK2-DF	11/13/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP01	SGS Orlando	FC11221	RHP01-WGN01LF-2311WK2-DF	11/13/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	UJ	<0.42	U	<0.42	U		
RHP01	APPL	23K0183	RHP01-WGN01LF-2311WK3-DF	11/20/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP01	SGS Orlando	FC11419	RHP01-WGN01LF-2311WK3-DF	11/20/2023	Primary	<0.42	UJ	<0.42	UJ	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	UJ	<0.042	U	<0.42	UJ	<0.42	U		
RHP01	APPL	23K0236	RHP01-WGN01LF-2311WK4-DF	11/29/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP01	SGS Orlando	FC11596	RHP01-WGN01LF-2311WK4-DF	11/29/2023	Primary	<0.42	UJ	<0.42	UJ	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	UJ	<0.042	U	<0.42	UJ	<0.42	U		
RHP01	APPL	23L0019	RHP01-WGN01LF-2312-DF	12/4/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP01	SGS Anchorage	1236588_EDMS	RHP01-WGN01LF-2312-DF	12/4/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP01	SGS Orlando	FC11688	RHP01-WGN01LF-2312-DF	12/4/2023	Primary	<0.42	UJ	<0.42	UJ	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	UJ	<0.042	U	<0.42	UJ	<0.42	U		
RHP01	SGS Orlando	FC11688B	RHP01-WGN01LF-2312-DF	12/4/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP01	APPL	23L0083	RHP01-WGN01LF-2312WK2-DF	12/11/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP01	SGS Orlando	FC11893	RHP01-WGN01LF-2312WK2-DF	12/11/2023	Primary	<0.4	UJ	<0.4	UJ	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	UJ	<0.4	UJ	<0.04	U	<0.4	UJ	<0.4	U		
RHP01	APPL	23L0150	RHP01-WGN01LF-2312WK3-DF	12/18/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP01	SGS Orlando	FC12097	RHP01-WGN01LF-2312WK3-DF	12/18/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U		
RHP01	APPL	23L0208	RHP01-WGN01LF-2312WK4-DF	12/26/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP01	SGS Orlando	FC12235	RHP01-WGN01LF-2312WK4-DF	12/26/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U		
RHP01	APPL	24A0008	RHP01-WGN01LF-2401-DF	1/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP01	SGS Anchorage	1240028_EDMS	RHP01-WGN01LF-2401-DF	1/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP01	SGS Orlando	FC12338	RHP01-WGN01LF-2401-DF	1/2/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U		
RHP01	SGS Orlando	FC12338B	RHP01-WGN01LF-2401-DF	1/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP01	APPL	24A0050	RHP01-WGN01LF-2401WK2-DF	1/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP01	SGS Orlando	FC12452	RHP01-WGN01LF-2401WK2-DF	1/8/2024	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U		
RHP01	APPL	24A0104	RHP01-WGN01LF-2401WK3-DF	1/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP01	SGS Orlando	FC12594	RHP01-WGN01LF-2401WK3-DF	1/15/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U		

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHP01

						Fuel Additive				Lead Scavengers				Natural Attenuation Parameters					
					Analyte	2-(2- Methoxyethoxy)-ethanol [b]		Phenol		1,2-Dibromoethane		1,2-Dichloroethane		Methane		Total Organic Carbon		NV Dissolved Organic Carbon	
					CAS No.	111-77-3		108-95-2		106-93-4		107-06-2		74-82-8		TOC		—	
					Method	8270D		SW8270		8011		8260		RSK 175		9060		9060	
					DOH Tier 1 EAL	800		300		0.04		5		—		—		—	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		600	
					Maximum	ND		ND		ND		ND		0.2		710		1040	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result	
RHP01	ALS Kelso	K2310020	RHP01-WGN01LF-2309	9/6/2023	Primary	–		–		–		–		–		710	J-	800	
RHP01	ALS Kelso	K2311474	RHP01-WGN01LF-2310	10/4/2023	Primary	–		–		–		–		–		<500	U	600	
RHP01	Energy	B23100765	RHP01-WGN01LF-2310	10/4/2023	Primary	–		–		<0.0049	U	–		–		–		–	
RHP01	SGS Orlando	FC10295	RHP01-WGN01LF-2310	10/4/2023	Primary	–		<2	U	–		<0.5	U	<0.25	U	–		–	
RHP01	APPL	23J0092	RHP01-WGN01LF-23Q4	10/9/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHP01	Energy	B23100745	RHP01-WGN01LF-23Q4	10/9/2023	Primary	–		–		<0.005	U	<0.1	U	–		–		–	
RHP01	SGS Orlando	FC10327	RHP01-WGN01LF-23Q4	10/9/2023	Primary	–		<1.9	U	–		–		0.19	J	570	J	–	
RHP01	APPL	23J0280	RHP01-WGN01LF-2310WK4-DF	10/25/2023	Primary	<80	U	–		–		–		–		–		–	
RHP01	SGS Orlando	FC10745	RHP01-WGN01LF-2310WK4-DF	10/25/2023	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	
RHP01	APPL	23K0012	RHP01-WGN01LF-2310WK5-DF	11/1/2023	Primary	<80	U	–		–		–		–		–		–	
RHP01	SGS Orlando	FC10911	RHP01-WGN01LF-2310WK5-DF	11/1/2023	Primary	–		<1.9	U	<0.014	U	<0.5	U	–		–		–	
RHP01	ALS Kelso	K2312628	RHP01-WGN01LF-2311-DF	11/6/2023	Primary	–		–		–		–		–		500		800	
RHP01	APPL	23K0041	RHP01-WGN01LF-2311-DF	11/6/2023	Primary	<80	U	–		–		–		–		–		–	
RHP01	SGS Orlando	FC11019	RHP01-WGN01LF-2311-DF	11/6/2023	Primary	–		<1.9	U	<0.014	U	<0.5	U	–		–		–	
RHP01	SGS Orlando	FC11019B	RHP01-WGN01LF-2311-DF	11/6/2023	Primary	–		–		–		–		0.2	J	–		–	
RHP01	APPL	23K0106	RHP01-WGN01LF-2311WK2-DF	11/13/2023	Primary	<80	U	–		–		–		–		–		–	
RHP01	SGS Orlando	FC11221	RHP01-WGN01LF-2311WK2-DF	11/13/2023	Primary	–		<1.9	UJ	<0.014	U	<0.5	U	–		–		–	
RHP01	APPL	23K0183	RHP01-WGN01LF-2311WK3-DF	11/20/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHP01	SGS Orlando	FC11419	RHP01-WGN01LF-2311WK3-DF	11/20/2023	Primary	–		<2	U	<0.015	U	<0.5	UJ	–		–		–	
RHP01	APPL	23K0236	RHP01-WGN01LF-2311WK4-DF	11/29/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHP01	SGS Orlando	FC11596	RHP01-WGN01LF-2311WK4-DF	11/29/2023	Primary	–		<2	U	<0.015	U	<0.5	U	–		–		–	
RHP01	APPL	23L0019	RHP01-WGN01LF-2312-DF	12/4/2023	Primary	<80	U	–		–		–		–		–		–	
RHP01	SGS Anchorage	1236588_EDMS	RHP01-WGN01LF-2312-DF	12/4/2023	Primary	–		–		–		–		–		<750	U	938	J+
RHP01	SGS Orlando	FC11688	RHP01-WGN01LF-2312-DF	12/4/2023	Primary	–		<2	U	<0.015	U	<0.5	U	–		–		–	
RHP01	SGS Orlando	FC11688B	RHP01-WGN01LF-2312-DF	12/4/2023	Primary	–		–		–		–		<0.25	U	–		–	
RHP01	APPL	23L0083	RHP01-WGN01LF-2312WK2-DF	12/11/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHP01	SGS Orlando	FC11893	RHP01-WGN01LF-2312WK2-DF	12/11/2023	Primary	–		<2	U	<0.015	U	<0.5	U	–		–		–	
RHP01	APPL	23L0150	RHP01-WGN01LF-2312WK3-DF	12/18/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHP01	SGS Orlando	FC12097	RHP01-WGN01LF-2312WK3-DF	12/18/2023	Primary	–		<2	U	<0.015	U	<0.5	U	–		–		–	
RHP01	APPL	23L0208	RHP01-WGN01LF-2312WK4-DF	12/26/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHP01	SGS Orlando	FC12235	RHP01-WGN01LF-2312WK4-DF	12/26/2023	Primary	–		<1.9	U	<0.015	U	<0.5	U	–		–		–	
RHP01	APPL	24A0008	RHP01-WGN01LF-2401-DF	1/2/2024	Primary	<80	UJ	–		–		–		–		–		–	
RHP01	SGS Anchorage	1240028_EDMS	RHP01-WGN01LF-2401-DF	1/2/2024	Primary	–		–		–		–		–		<750	U	1040	J+
RHP01	SGS Orlando	FC12338	RHP01-WGN01LF-2401-DF	1/2/2024	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	
RHP01	SGS Orlando	FC12338B	RHP01-WGN01LF-2401-DF	1/2/2024	Primary	–		–		–		–		<0.25	U	–		–	
RHP01	APPL	24A0050	RHP01-WGN01LF-2401WK2-DF	1/8/2024	Primary	<80	U	–		–		–		–		–		–	
RHP01	SGS Orlando	FC12452	RHP01-WGN01LF-2401WK2-DF	1/8/2024	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	
RHP01	APPL	24A0104	RHP01-WGN01LF-2401WK3-DF	1/15/2024	Primary	<80	UJ	–		–		–		–		–		–	
RHP01	SGS Orlando	FC12594	RHP01-WGN01LF-2401WK3-DF	1/15/2024	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHP02

						Total Petroleum Hydrocarbons												Volatile Organic Compounds												Polycyclic Aromatic Hydrocarbons (PAHs) – AOC/LTM								
			Analyte			TPH-g		TPH-d [a]		TPH-o [a]		TPH-d with Silica Gel Cleanup [a]		TPH-o with Silica Gel Cleanup [a]		Benzene		Ethylbenzene		Toluene		Xylenes		1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene	
			CAS No.			PHCC6C10		PHCC10C24		PHCC24C40		PHCC10C24SGC		PHCC24C40SGC		71-43-2		100-41-4		108-88-3		1330-20-7		90-12-0		91-57-6		91-20-3	
			Method			8260		8015		8015		8015		8015		8260		8260		8260		8260		8270 SIM		8270 SIM		8270 SIM	
			DOH Tier 1 EAL			300		400		500		—		—		5		30		40		20		10		10		17	
			Units			µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
			Minimum			ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
			Maximum			42.4		121		96.7		ND		102		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHP02	ALS Kelso	K2310020	RHP02-WGN01LF-2309	9/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP02	ALS Kelso	K2311474	RHP02-WGN01LF-2310	10/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP02	Energy	B23100765	RHP02-WGN01LF-2310	10/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP02	SGS Orlando	FC10336	RHP02-WGN01LF-2310	10/6/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	UJ	<0.5	UJ	<0.5	UJ	<1.5	UJ	<0.4	U	<0.4	U	<0.4	U
RHP02	APPL	23J0126	RHP02-WGN01LF-23Q4	10/13/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP02	Energy	B23101258	RHP02-WGN01LF-23Q4	10/13/2023	Primary	3.76	J	<141	U	<141	U	–		–		<0.1	U	<0.1	U	<0.2	U	<0.1	U	–		–		–	
RHP02	SGS Orlando	FC10488	RHP02-WGN01LF-23Q4	10/13/2023	Primary	–		–		–		–		–		–		–		–		–		<0.4	U	<0.4	U	<0.4	U
RHP02	APPL	23J0280	RHP02-WGN01LF-2310WK4-DF	10/25/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP02	SGS Orlando	FC10745	RHP02-WGN01LF-2310WK4-DF	10/25/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.43	U	<0.43	U	<0.43	U
RHP02	APPL	23K0012	RHP02-WGN01LF-2310WK5-DF	11/1/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP02	SGS Orlando	FC10911	RHP02-WGN01LF-2310WK5-DF	11/1/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHP02	ALS Kelso	K2312749	RHP02-WGN01LF-2311-DF	11/8/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP02	APPL	23K0068	RHP02-WGN01LF-2311-DF	11/8/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP02	SGS Orlando	FC11097	RHP02-WGN01LF-2311-DF	11/8/2023	Primary	<50	U	121	J	<170	U	<100	U	<170	U	<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	UJ	<0.42	U	<0.42	U
RHP02	SGS Orlando	FC11097B	RHP02-WGN01LF-2311-DF	11/8/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP02	APPL	23K0123	RHP02-WGN01LF-2311WK2-DF	11/14/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP02	SGS Orlando	FC11263	RHP02-WGN01LF-2311WK2-DF	11/14/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHP02	APPL	23K0214	RHP02-WGN01LF-2311WK3-DF	11/22/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP02	SGS Orlando	FC11474	RHP02-WGN01LF-2311WK3-DF	11/22/2023	Primary	<50	U	<100	U	85.1	J	<100	U	102	J	<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	UJ	<0.42	UJ	<0.42	U
RHP02	APPL	23K0219	RHP02-WGN01LF-2311WK4-DF	11/27/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP02	SGS Orlando	FC11512	RHP02-WGN01LF-2311WK4-DF	11/27/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	UJ	<0.42	UJ	<0.42	U
RHP02	APPL	23L0035	RHP02-WGFD01LF-2312-DF	12/6/2023	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–	
RHP02	SGS Orlando	FC11754	RHP02-WGFD01LF-2312-DF	12/6/2023	Field Duplicate	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	UJ	<0.5	UJ	<1.5	U	<0.4	UJ	<0.4	UJ	<0.4	U
RHP02	APPL	23L0035	RHP02-WGN01LF-2312-DF	12/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP02	SGS Anchorage	1236637_EDMS	RHP02-WGN01LF-2312-DF	12/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP02	SGS Orlando	FC11754	RHP02-WGN01LF-2312-DF	12/6/2023	Primary	<50	U	<96	U	<150	U	–		–		<0.5	U	<0.5	UJ	<0.5	UJ	<1.5	U	<0.4	UJ	<0.4	UJ	<0.4	U
RHP02	SGS Orlando	FC11754B	RHP02-WGN01LF-2312-DF	12/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP02	APPL	23L0083	RHP02-WGFD01LF-2312WK2-DF	12/11/2023	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–	
RHP02	SGS Orlando	FC11893	RHP02-WGFD01LF-2312WK2-DF	12/11/2023	Field Duplicate	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.38	UJ	<0.38	UJ	<0.38	U
RHP02	APPL	23L0083	RHP02-WGN01LF-2312WK2-DF	12/11/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP02	SGS Orlando	FC11893	RHP02-WGN01LF-2312WK2-DF	12/11/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	UJ	<0.4	UJ	<0.4	U
RHP02	APPL	23L0150	RHP02-WGFD01LF-2312WK3-DF	12/18/2023	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–	
RHP02	SGS Orlando	FC12097	RHP02-WGFD01LF-2312WK3-DF	12/18/2023	Field Duplicate	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHP02	APPL	23L0150	RHP02-WGN01LF-2312WK3-DF	12/18/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP02	SGS Orlando	FC12097	RHP02-WGN01LF-2312WK3-DF	12/18/2023	Primary	<50	U	<100	U	96.7	J	<100	U	<170	U	<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHP02	APPL	23L0208	RHP02-WGFD01LF-2312WK4-DF	12/26/2023	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–	
RHP02	SGS Orlando	FC12235	RHP02-WGFD01LF-2312WK4-DF	12/26/2023	Field Duplicate	42.4	J	<100	U	<160	U	–		–		<0.5	UJ	<0.5	UJ	<0.5	UJ	<1.5	UJ	<0.42	U	<0.42	U	<0.42	U
RHP02	APPL	23L0208	RHP02-WGN01LF-2312WK4-DF	12/26/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP02	SGS Orlando	FC12235	RHP02-WGN01LF-2312WK4-DF	12/26/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	UJ	<0.5	UJ	<0.5	UJ	<1.5	UJ	<0.42	U	<0.42	U	<0.42	U
RHP02	APPL	24A0008	RHP02-WGFD01LF-2401-DF	1/2/2024	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–	
RHP02	SGS Orlando	FC12338	RHP02-WGFD01LF-2401-DF	1/2/2024	Field Duplicate	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHP02	APPL	24A0008	RHP02-WGN01LF-2401-DF	1/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP02	SGS Anchorage	1240028_EDMS	RHP02-WGN01LF-2401-DF	1/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP02	SGS Orlando	FC12338	RHP02-WGN01LF-2401-DF	1/2/2024	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHP02	SGS Orlando	FC12338B	RHP02-WGN01LF-2401-DF	1/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP02	APPL	24A0050	RHP02-WGFD01LF-2401WK2-DF	1/8/2024	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–	
RHP02	SGS Orlando	FC12452	RHP02-WGFD01LF-2401WK2-DF	1/8/2024	Field Duplicate	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.43	U	<0.43	U	<0.43	U
RHP02	APPL	24A0050	RHP02-WGN01LF-2401WK2-DF	1/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP02	SGS Orlando	FC12452	RHP02-WGN01LF-2401WK2-DF	1/8/2024	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHP02	APPL	24A0104	RHP02-WGFD01LF-2401WK3-DF	1/15/2024	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–	
RHP02	SGS Orlando	FC12594	RHP02-WGFD01LF-2401WK3-DF	1/15/2024	Field Duplicate	<50	U	<100	U	<170	U	–		–		<0.5	UJ	<0.5	UJ	<0.5	UJ	<1.5	UJ	<0.4	U	<0.4	U	<0.4	U
RHP02	APPL	24A0104	RHP02-WGN01LF-2401WK3-DF	1/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP02	SGS Orlando	FC12594	RHP02-WGN01LF-2401WK3-DF	1/15/2024	Primary	<50	U	<100	U	<170	U	–		–		<0.5	UJ	<0.5	UJ	<0.5	UJ	<1.5	UJ	<0.4	U	<0.4	U	<0.4	U

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHP02

						Polycyclic Aromatic Hydrocarbons (PAHs)																											
					Analyte	Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)		Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)peryelene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
					CAS No.	83-32-9		208-96-8		120-12-7		56-55-3		50-32-8		205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
					Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
					DOH Tier 1 EAL	20		240		0.18		0.029		0.2		0.22		0.13		0.4		1		0.022		13		240		0.095		210		68	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		ND		ND		ND		ND		ND		0.037		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHP02	ALS Kelso	K2310020	RHP02-WGN01LF-2309	9/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP02	ALS Kelso	K2311474	RHP02-WGN01LF-2310	10/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP02	Energy	B23100765	RHP02-WGN01LF-2310	10/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP02	SGS Orlando	FC10336	RHP02-WGN01LF-2310	10/6/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHP02	APPL	23J0126	RHP02-WGN01LF-23Q4	10/13/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP02	Energy	B23101258	RHP02-WGN01LF-23Q4	10/13/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP02	SGS Orlando	FC10488	RHP02-WGN01LF-23Q4	10/13/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHP02	APPL	23J0280	RHP02-WGN01LF-2310WK4-DF	10/25/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP02	SGS Orlando	FC10745	RHP02-WGN01LF-2310WK4-DF	10/25/2023	Primary	<0.43	U	<0.43	U	<0.43	U	<0.043	U	<0.043	U	<0.043	U	<0.043	U	<0.043	U	<0.087	U	<0.043	U	<0.43	U	<0.43	U	<0.043	U	<0.43	U	<0.43	U
RHP02	APPL	23K0012	RHP02-WGN01LF-2310WK5-DF	11/1/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP02	SGS Orlando	FC10911	RHP02-WGN01LF-2310WK5-DF	11/1/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHP02	ALS Kelso	K2312749	RHP02-WGN01LF-2311-DF	11/8/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP02	APPL	23K0068	RHP02-WGN01LF-2311-DF	11/8/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP02	SGS Orlando	FC11097	RHP02-WGN01LF-2311-DF	11/8/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHP02	SGS Orlando	FC11097B	RHP02-WGN01LF-2311-DF	11/8/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP02	APPL	23K0123	RHP02-WGN01LF-2311WK2-DF	11/14/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP02	SGS Orlando	FC11263	RHP02-WGN01LF-2311WK2-DF	11/14/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHP02	APPL	23K0214	RHP02-WGN01LF-2311WK3-DF	11/22/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP02	SGS Orlando	FC11474	RHP02-WGN01LF-2311WK3-DF	11/22/2023	Primary	<0.42	UJ	<0.42	UJ	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	UJ	<0.042	U	<0.42	UJ	<0.42	U
RHP02	APPL	23K0219	RHP02-WGN01LF-2311WK4-DF	11/27/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP02	SGS Orlando	FC11512	RHP02-WGN01LF-2311WK4-DF	11/27/2023	Primary	<0.42	UJ	<0.42	UJ	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	UJ	<0.042	U	<0.42	UJ	<0.42	U
RHP02	APPL	23L0035	RHP02-WGFD01LF-2312-DF	12/6/2023	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP02	SGS Orlando	FC11754	RHP02-WGFD01LF-2312-DF	12/6/2023	Field Duplicate	<0.4	UJ	<0.4	UJ	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	UJ	<0.4	UJ	<0.04	U	<0.4	UJ	<0.4	U
RHP02	APPL	23L0035	RHP02-WGN01LF-2312-DF	12/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP02	SGS Anchorage	1236637_EDMS	RHP02-WGN01LF-2312-DF	12/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP02	SGS Orlando	FC11754	RHP02-WGN01LF-2312-DF	12/6/2023	Primary	<0.4	UJ	<0.4	UJ	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	UJ	<0.4	UJ	<0.04	U	<0.4	UJ	<0.4	U
RHP02	SGS Orlando	FC11754B	RHP02-WGN01LF-2312-DF	12/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP02	APPL	23L0083	RHP02-WGFD01LF-2312WK2-DF	12/11/2023	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP02	SGS Orlando	FC11893	RHP02-WGFD01LF-2312WK2-DF	12/11/2023	Field Duplicate	<0.38	UJ	<0.38	UJ	<0.38	U	<0.038	UJ	<0.038	UJ	<0.038	UJ	<0.038	U	<0.038	UJ	<0.077	UJ	<0.038	U	<0.38	UJ	<0.38	UJ	<0.038	U	<0.38	UJ	<0.38	UJ
RHP02	APPL	23L0083	RHP02-WGN01LF-2312WK2-DF	12/11/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP02	SGS Orlando	FC11893	RHP02-WGN01LF-2312WK2-DF	12/11/2023	Primary	<0.4	UJ	<0.4	UJ	<0.4	U	<0.04	UJ	<0.04	UJ	<0.04	UJ	<0.04	U	<0.04	UJ	<0.08	UJ	<0.04	U	<0.4	UJ	<0.4	UJ	<0.04	U	<0.4	UJ	<0.4	UJ
RHP02	APPL	23L0150	RHP02-WGFD01LF-2312WK3-DF	12/18/2023	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP02	SGS Orlando	FC12097	RHP02-WGFD01LF-2312WK3-DF	12/18/2023	Field Duplicate	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHP02	APPL	23L0150	RHP02-WGN01LF-2312WK3-DF	12/18/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP02	SGS Orlando	FC12097	RHP02-WGN01LF-2312WK3-DF	12/18/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHP02	APPL	23L0208	RHP02-WGFD01LF-2312WK4-DF	12/26/2023	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP02	SGS Orlando	FC12235	RHP02-WGFD01LF-2312WK4-DF	12/26/2023	Field Duplicate	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHP02	APPL	23L0208	RHP02-WGN01LF-2312WK4-DF	12/26/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP02	SGS Orlando	FC12235	RHP02-WGN01LF-2312WK4-DF	12/26/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHP02	APPL	24A0008	RHP02-WGFD01LF-2401-DF	1/2/2024	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP02	SGS Orlando	FC12338	RHP02-WGFD01LF-2401-DF	1/2/2024	Field Duplicate	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	0.037	J	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHP02	APPL	24A0008	RHP02-WGN01LF-2401-DF	1/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP02	SGS Anchorage	1240028_EDMS	RHP02-WGN01LF-2401-DF	1/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP02	SGS Orlando	FC12338	RHP02-WGN01LF-2401-DF	1/2/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHP02	SGS Orlando	FC12338B	RHP02-WGN01LF-2401-DF	1/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP02	APPL	24A0050	RHP02-WGFD01LF-2401WK2-DF	1/8/2024	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP02	SGS Orlando	FC12452	RHP02-WGFD01LF-2401WK2-DF	1/8/2024	Field Duplicate	<0.43	U	<0.43	U	<0.43	U	<0.043	U	<0.043	U	<0.043	U	<0.043	U	<0.043	U	<0.087	U	<0.043	U	<0.43	U	<0.43	U	<0.043	U	<0.43	U	<0.43	U
RHP02	APPL	24A0050	RHP02-WGN01LF-2401WK2-DF	1/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP02	SGS Orlando	FC12452	RHP02-WGN01LF-2401WK2-DF	1/8/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHP02	APPL	24A0104	RHP02-WGFD01LF-2401WK3-DF	1/15/2024	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP02	SGS Orlando	FC12594	RHP02-WGFD01LF-2401WK3-DF	1/15/2024	Field Duplicate	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHP02	APPL	24A0104	RHP02-WGN01LF-2401WK3-DF	1/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP02	SGS Orlando	FC12594	RHP02-WGN01LF-2401WK3-DF	1/15/2024	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHP02

						Fuel Additive				Lead Scavengers				Natural Attenuation Parameters					
					Analyte	2-(2- Methoxyethoxy)-ethanol [b]		Phenol		1,2-Dibromoethane		1,2-Dichloroethane		Methane		Total Organic Carbon		NV Dissolved Organic Carbon	
					CAS No.	111-77-3		108-95-2		106-93-4		107-06-2		74-82-8		TOC		—	
					Method	8270D		SW8270		8011		8260		RSK 175		9060		9060	
					DOH Tier 1 EAL	800		300		0.04		5		—		—		—	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		800		1100	
					Maximum	ND		ND		ND		ND		0.2		1000		1610	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result	
RHP02	ALS Kelso	K2310020	RHP02-WGN01LF-2309	9/6/2023	Primary	–		–		–		–		–		1000		1100	
RHP02	ALS Kelso	K2311474	RHP02-WGN01LF-2310	10/6/2023	Primary	–		–		–		–		–		1000		1100	
RHP02	Energy	B23100765	RHP02-WGN01LF-2310	10/6/2023	Primary	–		–		<0.0049	U	–		–		–		–	
RHP02	SGS Orlando	FC10336	RHP02-WGN01LF-2310	10/6/2023	Primary	–		<2	U	–		<0.5	UJ	0.2	J	–		–	
RHP02	APPL	23J0126	RHP02-WGN01LF-23Q4	10/13/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHP02	Energy	B23101258	RHP02-WGN01LF-23Q4	10/13/2023	Primary	–		–		<0.0048	U	<0.1	U	–		–		–	
RHP02	SGS Orlando	FC10488	RHP02-WGN01LF-23Q4	10/13/2023	Primary	–		<1.9	U	–		–		<0.25	U	810	J	–	
RHP02	APPL	23J0280	RHP02-WGN01LF-2310WK4-DF	10/25/2023	Primary	<80	U	–		–		–		–		–		–	
RHP02	SGS Orlando	FC10745	RHP02-WGN01LF-2310WK4-DF	10/25/2023	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	
RHP02	APPL	23K0012	RHP02-WGN01LF-2310WK5-DF	11/1/2023	Primary	<80	U	–		–		–		–		–		–	
RHP02	SGS Orlando	FC10911	RHP02-WGN01LF-2310WK5-DF	11/1/2023	Primary	–		<1.9	U	<0.014	U	<0.5	U	–		–		–	
RHP02	ALS Kelso	K2312749	RHP02-WGN01LF-2311-DF	11/8/2023	Primary	–		–		–		–		–		800		1100	
RHP02	APPL	23K0068	RHP02-WGN01LF-2311-DF	11/8/2023	Primary	<80	U	–		–		–		–		–		–	
RHP02	SGS Orlando	FC11097	RHP02-WGN01LF-2311-DF	11/8/2023	Primary	–		<1.9	U	<0.014	U	<0.5	U	–		–		–	
RHP02	SGS Orlando	FC11097B	RHP02-WGN01LF-2311-DF	11/8/2023	Primary	–		–		–		–		<0.25	U	–		–	
RHP02	APPL	23K0123	RHP02-WGN01LF-2311WK2-DF	11/14/2023	Primary	<80	U	–		–		–		–		–		–	
RHP02	SGS Orlando	FC11263	RHP02-WGN01LF-2311WK2-DF	11/14/2023	Primary	–		<1.9	U	<0.014	U	<0.5	U	–		–		–	
RHP02	APPL	23K0214	RHP02-WGN01LF-2311WK3-DF	11/22/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHP02	SGS Orlando	FC11474	RHP02-WGN01LF-2311WK3-DF	11/22/2023	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	
RHP02	APPL	23K0219	RHP02-WGN01LF-2311WK4-DF	11/27/2023	Primary	<80	U	–		–		–		–		–		–	
RHP02	SGS Orlando	FC11512	RHP02-WGN01LF-2311WK4-DF	11/27/2023	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	
RHP02	APPL	23L0035	RHP02-WGFD01LF-2312-DF	12/6/2023	Field Duplicate	<80	UJ	–		–		–		–		–		–	
RHP02	SGS Orlando	FC11754	RHP02-WGFD01LF-2312-DF	12/6/2023	Field Duplicate	–		<1.9	U	–		<0.5	U	–		–		–	
RHP02	APPL	23L0035	RHP02-WGN01LF-2312-DF	12/6/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHP02	SGS Anchorage	1236637_EDMS	RHP02-WGN01LF-2312-DF	12/6/2023	Primary	–		–		–		–		–		816	J+	1170	J+
RHP02	SGS Orlando	FC11754	RHP02-WGN01LF-2312-DF	12/6/2023	Primary	–		<1.9	U	<0.014	U	<0.5	U	–		–		–	
RHP02	SGS Orlando	FC11754B	RHP02-WGN01LF-2312-DF	12/6/2023	Primary	–		–		–		–		<0.25	U	–		–	
RHP02	APPL	23L0083	RHP02-WGFD01LF-2312WK2-DF	12/11/2023	Field Duplicate	<80	UJ	–		–		–		–		–		–	
RHP02	SGS Orlando	FC11893	RHP02-WGFD01LF-2312WK2-DF	12/11/2023	Field Duplicate	–		<2	U	–		<0.5	U	–		–		–	
RHP02	APPL	23L0083	RHP02-WGN01LF-2312WK2-DF	12/11/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHP02	SGS Orlando	FC11893	RHP02-WGN01LF-2312WK2-DF	12/11/2023	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	
RHP02	APPL	23L0150	RHP02-WGFD01LF-2312WK3-DF	12/18/2023	Field Duplicate	<80	UJ	–		–		–		–		–		–	
RHP02	SGS Orlando	FC12097	RHP02-WGFD01LF-2312WK3-DF	12/18/2023	Field Duplicate	–		<2	U	–		<0.5	U	–		–		–	
RHP02	APPL	23L0150	RHP02-WGN01LF-2312WK3-DF	12/18/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHP02	SGS Orlando	FC12097	RHP02-WGN01LF-2312WK3-DF	12/18/2023	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	
RHP02	APPL	23L0208	RHP02-WGFD01LF-2312WK4-DF	12/26/2023	Field Duplicate	<80	UJ	–		–		–		–		–		–	
RHP02	SGS Orlando	FC12235	RHP02-WGFD01LF-2312WK4-DF	12/26/2023	Field Duplicate	–		<1.9	U	–		<0.5	UJ	–		–		–	
RHP02	APPL	23L0208	RHP02-WGN01LF-2312WK4-DF	12/26/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHP02	SGS Orlando	FC12235	RHP02-WGN01LF-2312WK4-DF	12/26/2023	Primary	–		<1.9	U	<0.014	U	<0.5	UJ	–		–		–	
RHP02	APPL	24A0008	RHP02-WGFD01LF-2401-DF	1/2/2024	Field Duplicate	<80	UJ	–		–		–		–		–		–	
RHP02	SGS Orlando	FC12338	RHP02-WGFD01LF-2401-DF	1/2/2024	Field Duplicate	–		<1.9	U	–		<0.5	U	–		–		–	
RHP02	APPL	24A0008	RHP02-WGN01LF-2401-DF	1/2/2024	Primary	<80	UJ	–		–		–		–		–		–	
RHP02	SGS Anchorage	1240028_EDMS	RHP02-WGN01LF-2401-DF	1/2/2024	Primary	–		–		–		–		–		948	J	1610	J+
RHP02	SGS Orlando	FC12338	RHP02-WGN01LF-2401-DF	1/2/2024	Primary	–		<1.9	U	<0.014	U	<0.5	U	–		–		–	
RHP02	SGS Orlando	FC12338B	RHP02-WGN01LF-2401-DF	1/2/2024	Primary	–		–		–		–		<0.25	U	–		–	
RHP02	APPL	24A0050	RHP02-WGFD01LF-2401WK2-DF	1/8/2024	Field Duplicate	<80	UJ	–		–		–		–		–		–	
RHP02	SGS Orlando	FC12452	RHP02-WGFD01LF-2401WK2-DF	1/8/2024	Field Duplicate	–		<1.9	U	–		<0.5	U	–		–		–	
RHP02	APPL	24A0050	RHP02-WGN01LF-2401WK2-DF	1/8/2024	Primary	<80	U	–		–		–		–		–		–	
RHP02	SGS Orlando	FC12452	RHP02-WGN01LF-2401WK2-DF	1/8/2024	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	
RHP02	APPL	24A0104	RHP02-WGFD01LF-2401WK3-DF	1/15/2024	Field Duplicate	<80	UJ	–		–		–		–		–		–	
RHP02	SGS Orlando	FC12594	RHP02-WGFD01LF-2401WK3-DF	1/15/2024	Field Duplicate	–		<2	U	–		<0.5	UJ	–		–		–	
RHP02	APPL	24A0104	RHP02-WGN01LF-2401WK3-DF	1/15/2024	Primary	<80	UJ	–		–		–		–		–		–	
RHP02	SGS Orlando	FC12594	RHP02-WGN01LF-2401WK3-DF	1/15/2024	Primary	–		<2	U	<0.014	U	<0.5	UJ	–		–		–	

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHP03

						Total Petroleum Hydrocarbons										Volatile Organic Compounds								Polycyclic Aromatic Hydrocarbons (PAHs) – AOC/LTM					
					Analyte	TPH-g		TPH-d [a]		TPH-o [a]		TPH-d with Silica Gel Cleanup [a]		TPH-o with Silica Gel Cleanup [a]		Benzene		Ethylbenzene		Toluene		Xylenes		1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene	
					CAS No.	PHCC6C10		PHCC10C24		PHCC24C40		PHCC10C24SGC		PHCC24C40SGC		71-43-2		100-41-4		108-88-3		1330-20-7		90-12-0		91-57-6		91-20-3	
					Method	8260		8015		8015		8015		8015		8260		8260		8260		8260		8270 SIM		8270 SIM		8270 SIM	
					DOH Tier 1 EAL	300		400		500		—		—		5		30		40		20		10		10		17	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		–		–		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		–		–		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHP03	SGS Orlando	FC9543	RHP03-WGN01LF-2309	9/8/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U
RHP03	ALS Kelso	K2311474	RHP03-WGN01LF-2310	10/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP03	Energy	B23100765	RHP03-WGN01LF-2310	10/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP03	SGS Orlando	FC10336	RHP03-WGN01LF-2310	10/6/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	UJ	<0.5	UJ	<0.5	UJ	<1.5	UJ	<0.4	U	<0.4	U	<0.4	U
RHP03	APPL	23J0125	RHP03-WGN01LF-23Q4	10/13/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP03	Energy	B23101258	RHP03-WGN01LF-23Q4	10/13/2023	Primary	<8.5	U	<140	U	<140	U	–		–		<0.1	U	<0.1	U	<0.2	U	<0.1	U	–		–		–	
RHP03	SGS Orlando	FC10488	RHP03-WGN01LF-23Q4	10/13/2023	Primary	–		–		–		–		–		–		–		–		–		<0.4	U	<0.4	U	<0.4	U
RHP03	APPL	23J0296	RHP03-WGN01LF-2310WK4-DF	10/26/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP03	SGS Orlando	FC10788	RHP03-WGN01LF-2310WK4-DF	10/26/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	UJ	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U
RHP03	APPL	23K0019	RHP03-WGN01LF-2310WK5-DF	11/2/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP03	SGS Orlando	FC10943	RHP03-WGN01LF-2310WK5-DF	11/2/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U
RHP03	ALS Kelso	K2312749	RHP03-WGN01LF-2311-DF	11/8/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP03	APPL	23K0066	RHP03-WGN01LF-2311-DF	11/8/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP03	SGS Orlando	FC11097	RHP03-WGN01LF-2311-DF	11/8/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	UJ	<0.42	U	<0.42	U
RHP03	SGS Orlando	FC11097B	RHP03-WGN01LF-2311-DF	11/8/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP03	APPL	23K0123	RHP03-WGN01LF-2311WK2-DF	11/14/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP03	SGS Orlando	FC11263	RHP03-WGN01LF-2311WK2-DF	11/14/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHP03	APPL	23K0214	RHP03-WGN01LF-2311WK3-DF	11/22/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP03	SGS Orlando	FC11474	RHP03-WGN01LF-2311WK3-DF	11/22/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	UJ	<0.42	UJ	<0.42	U
RHP03	APPL	23K0219	RHP03-WGN01LF-2311WK4-DF	11/27/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP03	SGS Orlando	FC11512	RHP03-WGN01LF-2311WK4-DF	11/27/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	UJ	<0.42	UJ	<0.42	U
RHP03	APPL	23L0035	RHP03-WGN01LF-2312-DF	12/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP03	SGS Anchorage	1236637_EDMS	RHP03-WGN01LF-2312-DF	12/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP03	SGS Orlando	FC11754	RHP03-WGN01LF-2312-DF	12/6/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	UJ	<0.42	UJ	<0.42	U
RHP03	SGS Orlando	FC11754B	RHP03-WGN01LF-2312-DF	12/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP03	APPL	23L0083	RHP03-WGN01LF-2312WK2-DF	12/11/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP03	SGS Orlando	FC11893	RHP03-WGN01LF-2312WK2-DF	12/11/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	UJ	<0.4	UJ	<0.4	U
RHP03	APPL	23L0150	RHP03-WGN01LF-2312WK3-DF	12/18/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP03	SGS Orlando	FC12097	RHP03-WGN01LF-2312WK3-DF	12/18/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U
RHP03	APPL	23L0208	RHP03-WGN01LF-2312WK4-DF	12/26/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP03	SGS Orlando	FC12235	RHP03-WGN01LF-2312WK4-DF	12/26/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHP03	APPL	24A0008	RHP03-WGN01LF-2401-DF	1/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP03	SGS Anchorage	1240028_EDMS	RHP03-WGN01LF-2401-DF	1/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP03	SGS Orlando	FC12338	RHP03-WGN01LF-2401-DF	1/2/2024	Primary	<50	U	<96	U	<150	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHP03	SGS Orlando	FC12338B	RHP03-WGN01LF-2401-DF	1/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP03	APPL	24A0050	RHP03-WGN01LF-2401WK2-DF	1/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP03	SGS Orlando	FC12452	RHP03-WGN01LF-2401WK2-DF	1/8/2024	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.43	U	<0.43	U	<0.43	U
RHP03	APPL	24A0104	RHP03-WGN01LF-2401WK3-DF	1/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP03	SGS Orlando	FC12594	RHP03-WGN01LF-2401WK3-DF	1/15/2024	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHP03

						Polycyclic Aromatic Hydrocarbons (PAHs)																													
					Analyte	Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)		Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)peryelene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
					CAS No.	83-32-9		208-96-8		120-12-7		56-55-3		50-32-8		205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
					Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
					DOH Tier 1 EAL	20		240		0.18		0.029		0.2		0.22		0.13		0.4		.1		0.022		13		240		0.095		210		68	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHP03	SGS Orlando	FC9543	RHP03-WGN01LF-2309	9/8/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHP03	ALS Kelso	K2311474	RHP03-WGN01LF-2310	10/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP03	Energy	B23100765	RHP03-WGN01LF-2310	10/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP03	SGS Orlando	FC10336	RHP03-WGN01LF-2310	10/6/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHP03	APPL	23J0125	RHP03-WGN01LF-23Q4	10/13/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP03	Energy	B23101258	RHP03-WGN01LF-23Q4	10/13/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP03	SGS Orlando	FC10488	RHP03-WGN01LF-23Q4	10/13/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHP03	APPL	23J0296	RHP03-WGN01LF-2310WK4-DF	10/26/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP03	SGS Orlando	FC10788	RHP03-WGN01LF-2310WK4-DF	10/26/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHP03	APPL	23K0019	RHP03-WGN01LF-2310WK5-DF	11/2/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP03	SGS Orlando	FC10943	RHP03-WGN01LF-2310WK5-DF	11/2/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHP03	ALS Kelso	K2312749	RHP03-WGN01LF-2311-DF	11/8/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP03	APPL	23K0066	RHP03-WGN01LF-2311-DF	11/8/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP03	SGS Orlando	FC11097	RHP03-WGN01LF-2311-DF	11/8/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHP03	SGS Orlando	FC11097B	RHP03-WGN01LF-2311-DF	11/8/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP03	APPL	23K0123	RHP03-WGN01LF-2311WK2-DF	11/14/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP03	SGS Orlando	FC11263	RHP03-WGN01LF-2311WK2-DF	11/14/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHP03	APPL	23K0214	RHP03-WGN01LF-2311WK3-DF	11/22/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP03	SGS Orlando	FC11474	RHP03-WGN01LF-2311WK3-DF	11/22/2023	Primary	<0.42	UJ	<0.42	UJ	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	UJ	<0.042	U	<0.42	UJ	<0.42	U
RHP03	APPL	23K0219	RHP03-WGN01LF-2311WK4-DF	11/27/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP03	SGS Orlando	FC11512	RHP03-WGN01LF-2311WK4-DF	11/27/2023	Primary	<0.42	UJ	<0.42	UJ	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	UJ	<0.042	U	<0.42	UJ	<0.42	U
RHP03	APPL	23L0035	RHP03-WGN01LF-2312-DF	12/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP03	SGS Anchorage	1236637_EDMS	RHP03-WGN01LF-2312-DF	12/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP03	SGS Orlando	FC11754	RHP03-WGN01LF-2312-DF	12/6/2023	Primary	<0.42	UJ	<0.42	UJ	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	UJ	<0.042	U	<0.42	UJ	<0.42	U
RHP03	SGS Orlando	FC11754B	RHP03-WGN01LF-2312-DF	12/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP03	APPL	23L0083	RHP03-WGN01LF-2312WK2-DF	12/11/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP03	SGS Orlando	FC11893	RHP03-WGN01LF-2312WK2-DF	12/11/2023	Primary	<0.4	UJ	<0.4	UJ	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	UJ	<0.4	UJ	<0.04	U	<0.4	UJ	<0.4	U
RHP03	APPL	23L0150	RHP03-WGN01LF-2312WK3-DF	12/18/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP03	SGS Orlando	FC12097	RHP03-WGN01LF-2312WK3-DF	12/18/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHP03	APPL	23L0208	RHP03-WGN01LF-2312WK4-DF	12/26/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP03	SGS Orlando	FC12235	RHP03-WGN01LF-2312WK4-DF	12/26/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHP03	APPL	24A0008	RHP03-WGN01LF-2401-DF	1/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP03	SGS Anchorage	1240028_EDMS	RHP03-WGN01LF-2401-DF	1/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP03	SGS Orlando	FC12338	RHP03-WGN01LF-2401-DF	1/2/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHP03	SGS Orlando	FC12338B	RHP03-WGN01LF-2401-DF	1/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP03	APPL	24A0050	RHP03-WGN01LF-2401WK2-DF	1/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP03	SGS Orlando	FC12452	RHP03-WGN01LF-2401WK2-DF	1/8/2024	Primary	<0.43	U	<0.43	U	<0.43	U	<0.043	U	<0.043	U	<0.043	U	<0.043	U	<0.043	U	<0.087	U	<0.043	U	<0.43	U	<0.43	U	<0.043	U	<0.43	U	<0.43	U
RHP03	APPL	24A0104	RHP03-WGN01LF-2401WK3-DF	1/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP03	SGS Orlando	FC12594	RHP03-WGN01LF-2401WK3-DF	1/15/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHP03

						Fuel Additive				Lead Scavengers				Natural Attenuation Parameters					
					Analyte	2-(2- Methoxyethoxy)-ethanol [b]		Phenol		1,2-Dibromoethane		1,2-Dichloroethane		Methane		Total Organic Carbon		NV Dissolved Organic Carbon	
					CAS No.	111-77-3		108-95-2		106-93-4		107-06-2		74-82-8		TOC		—	
					Method	8270D		SW8270		8011		8260		RSK 175		9060		9060	
					DOH Tier 1 EAL	800		300		0.04		5		—		—		—	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		ND		0.2		ND		1580	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result	
RHP03	SGS Orlando	FC9543	RHP03-WGN01LF-2309	9/8/2023	Primary	–		<2	U	–		<0.5	U	<0.25	U	–		–	
RHP03	ALS Kelso	K2311474	RHP03-WGN01LF-2310	10/6/2023	Primary	–		–		–		–		–		<500	U	900	
RHP03	Energy	B23100765	RHP03-WGN01LF-2310	10/6/2023	Primary	–		–		<0.0049	U	–		–		–		–	
RHP03	SGS Orlando	FC10336	RHP03-WGN01LF-2310	10/6/2023	Primary	–		<1.9	U	–		<0.5	UJ	0.2	J	–		–	
RHP03	APPL	23J0125	RHP03-WGN01LF-23Q4	10/13/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHP03	Energy	B23101258	RHP03-WGN01LF-23Q4	10/13/2023	Primary	–		–		<0.0047	U	<0.1	U	–		–		–	
RHP03	SGS Orlando	FC10488	RHP03-WGN01LF-23Q4	10/13/2023	Primary	–		<1.9	U	–		–		<0.25	U	–	R	–	
RHP03	APPL	23J0296	RHP03-WGN01LF-2310WK4-DF	10/26/2023	Primary	<80	U	–		–		–		–		–		–	
RHP03	SGS Orlando	FC10788	RHP03-WGN01LF-2310WK4-DF	10/26/2023	Primary	–		<1.9	U	<0.014	U	<0.5	U	–		–		–	
RHP03	APPL	23K0019	RHP03-WGN01LF-2310WK5-DF	11/2/2023	Primary	<80	U	–		–		–		–		–		–	
RHP03	SGS Orlando	FC10943	RHP03-WGN01LF-2310WK5-DF	11/2/2023	Primary	–		<1.9	U	<0.014	U	<0.5	U	–		–		–	
RHP03	ALS Kelso	K2312749	RHP03-WGN01LF-2311-DF	11/8/2023	Primary	–		–		–		–		–		<500	U	<500	U
RHP03	APPL	23K0068	RHP03-WGN01LF-2311-DF	11/8/2023	Primary	<80	U	–		–		–		–		–		–	
RHP03	SGS Orlando	FC11097	RHP03-WGN01LF-2311-DF	11/8/2023	Primary	–		<1.9	U	<0.014	U	<0.5	U	–		–		–	
RHP03	SGS Orlando	FC11097B	RHP03-WGN01LF-2311-DF	11/8/2023	Primary	–		–		–		–		<0.25	U	–		–	
RHP03	APPL	23K0123	RHP03-WGN01LF-2311WK2-DF	11/14/2023	Primary	<80	U	–		–		–		–		–		–	
RHP03	SGS Orlando	FC11263	RHP03-WGN01LF-2311WK2-DF	11/14/2023	Primary	–		<1.9	U	<0.014	U	<0.5	U	–		–		–	
RHP03	APPL	23K0214	RHP03-WGN01LF-2311WK3-DF	11/22/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHP03	SGS Orlando	FC11474	RHP03-WGN01LF-2311WK3-DF	11/22/2023	Primary	–		<2	U	<0.18	U	<0.5	U	–		–		–	
RHP03	APPL	23K0219	RHP03-WGN01LF-2311WK4-DF	11/27/2023	Primary	<80	U	–		–		–		–		–		–	
RHP03	SGS Orlando	FC11512	RHP03-WGN01LF-2311WK4-DF	11/27/2023	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	
RHP03	APPL	23L0035	RHP03-WGN01LF-2312-DF	12/6/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHP03	SGS Anchorage	1236637_EDMS	RHP03-WGN01LF-2312-DF	12/6/2023	Primary	–		–		–		–		–		<750	U	1580	J+
RHP03	SGS Orlando	FC11754	RHP03-WGN01LF-2312-DF	12/6/2023	Primary	–		<1.9	U	<0.015	U	<0.5	U	–		–		–	
RHP03	SGS Orlando	FC11754B	RHP03-WGN01LF-2312-DF	12/6/2023	Primary	–		–		–		–		<0.25	U	–		–	
RHP03	APPL	23L0083	RHP03-WGN01LF-2312WK2-DF	12/11/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHP03	SGS Orlando	FC11893	RHP03-WGN01LF-2312WK2-DF	12/11/2023	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	
RHP03	APPL	23L0150	RHP03-WGN01LF-2312WK3-DF	12/18/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHP03	SGS Orlando	FC12097	RHP03-WGN01LF-2312WK3-DF	12/18/2023	Primary	–		<2	U	<0.015	U	<0.5	U	–		–		–	
RHP03	APPL	23L0208	RHP03-WGN01LF-2312WK4-DF	12/26/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHP03	SGS Orlando	FC12235	RHP03-WGN01LF-2312WK4-DF	12/26/2023	Primary	–		<1.9	U	<0.014	U	<0.5	U	–		–		–	
RHP03	APPL	24A0008	RHP03-WGN01LF-2401-DF	1/2/2024	Primary	<80	UJ	–		–		–		–		–		–	
RHP03	SGS Anchorage	1240028_EDMS	RHP03-WGN01LF-2401-DF	1/2/2024	Primary	–		–		–		–		–		<750	U	<750	U
RHP03	SGS Orlando	FC12338	RHP03-WGN01LF-2401-DF	1/2/2024	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	
RHP03	SGS Orlando	FC12338B	RHP03-WGN01LF-2401-DF	1/2/2024	Primary	–		–		–		–		<0.25	U	–		–	
RHP03	APPL	24A0050	RHP03-WGN01LF-2401WK2-DF	1/8/2024	Primary	<80	U	–		–		–		–		–		–	
RHP03	SGS Orlando	FC12452	RHP03-WGN01LF-2401WK2-DF	1/8/2024	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	
RHP03	APPL	24A0104	RHP03-WGN01LF-2401WK3-DF	1/15/2024	Primary	<80	UJ	–		–		–		–		–		–	
RHP03	SGS Orlando	FC12594	RHP03-WGN01LF-2401WK3-DF	1/15/2024	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHP04A

						Total Petroleum Hydrocarbons										Volatile Organic Compounds								Polycyclic Aromatic Hydrocarbons (PAHs) – AOC/LTM					
					Analyte	TPH-g		TPH-d [a]		TPH-o [a]		TPH-d with Silica Gel Cleanup [a]	TPH-o with Silica Gel Cleanup [a]			Benzene		Ethylbenzene		Toluene		Xylenes		1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene	
					CAS No.	PHCC6C10		PHCC10C24		PHCC24C40		PHCC10C24SGC	PHCC24C40SGC			71-43-2		100-41-4		108-88-3		1330-20-7		90-12-0		91-57-6		91-20-3	
					Method	8260		8015		8015		8015	8015			8260		8260		8260		8260		8270 SIM		8270 SIM		8270 SIM	
					DOH Tier 1 EAL	300		400		500		—	—			5		30		40		20		10		10		17	
					Units	µg/L		µg/L		µg/L		µg/L	µg/L			µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		–	–			ND		ND		ND		ND		ND		ND		ND	
					Maximum	57.6		ND		ND		–	–			ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result	Result			Result		Result		Result		Result		Result		Result		Result	
RHP04A	SGS Orlando	FC7027	RHP04A-WGN01LF-2306WK2	6/14/2023	Primary	<50	U	<100	U	<160	U	–	–			<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U
RHP04A	ALS Kelso	K2310236	RHP04A-WGN01LF-2309	9/11/2023	Primary	–		–		–		–	–			–		–		–		–		–		–		–	
RHP04A	SGS Orlando	FC9542	RHP04A-WGN01LF-2309	9/11/2023	Primary	<50	U	<100	U	<160	U	–	–			<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHP04A	ALS Kelso	K2311474	RHP04A-WGN01LF-2310	10/6/2023	Primary	–		–		–		–	–			–		–		–		–		–		–		–	
RHP04A	Energy	B23100765	RHP04A-WGN01LF-2310	10/6/2023	Primary	–		–		–		–	–			–		–		–		–		–		–		–	
RHP04A	SGS Orlando	FC10336	RHP04A-WGN01LF-2310	10/6/2023	Primary	<50	U	<100	U	<160	U	–	–			<0.5	UJ	<0.5	UJ	<0.5	UJ	<1.5	UJ	<0.42	U	<0.42	U	<0.42	U
RHP04A	APPL	23J0127	RHP04A-WGN01LF-23Q4	10/12/2023	Primary	–		–		–		–	–			–		–		–		–		–		–		–	
RHP04A	Energy	B23101113	RHP04A-WGN01LF-23Q4	10/12/2023	Primary	<8.5	U	<145	U	<145	U	–	–			<0.1	U	<0.1	U	<0.2	U	<0.1	U	–		–		–	
RHP04A	SGS Orlando	FC10448	RHP04A-WGN01LF-23Q4	10/12/2023	Primary	–		–		–		–	–			–		–		–		–		<0.4	U	<0.4	U	<0.4	U
RHP04A	APPL	23J0260	RHP04A-WGN01LF-2310WK4-DF	10/23/2023	Primary	–		–		–		–	–			–		–		–		–		–		–		–	
RHP04A	SGS Orlando	FC10676	RHP04A-WGN01LF-2310WK4-DF	10/23/2023	Primary	<50	U	<100	U	<160	U	–	–			<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U
RHP04A	APPL	23K0034	RHP04A-WGN01LF-2310WK5-DF	11/3/2023	Primary	–		–		–		–	–			–		–		–		–		–		–		–	
RHP04A	SGS Orlando	FC10974	RHP04A-WGN01LF-2310WK5-DF	11/3/2023	Primary	<50	U	<96	U	<150	U	–	–			<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U
RHP04A	ALS Kelso	K2312760	RHP04A-WGN01LF-2311-DF	11/7/2023	Primary	–		–		–		–	–			–		–		–		–		–		–		–	
RHP04A	APPL	23K0050	RHP04A-WGN01LF-2311-DF	11/7/2023	Primary	–		–		–		–	–			–		–		–		–		–		–		–	
RHP04A	SGS Orlando	FC11063	RHP04A-WGN01LF-2311-DF	11/7/2023	Primary	57.6	J	<100	U	<170	U	–	–			<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	UJ	<0.42	U	<0.42	U
RHP04A	SGS Orlando	FC11063B	RHP04A-WGN01LF-2311-DF	11/7/2023	Primary	–		–		–		–	–			–		–		–		–		–		–		–	
RHP04A	APPL	23K0134	RHP04A-WGN01LF-2311WK2-DF	11/15/2023	Primary	–		–		–		–	–			–		–		–		–		–		–		–	
RHP04A	SGS Orlando	FC11293	RHP04A-WGN01LF-2311WK2-DF	11/15/2023	Primary	<50	U	<100	U	<170	U	–	–			<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHP04A	APPL	23K0214	RHP04A-WGN01LF-2311WK3-DF	11/22/2023	Primary	–		–		–		–	–			–		–		–		–		–		–		–	
RHP04A	SGS Orlando	FC11474	RHP04A-WGN01LF-2311WK3-DF	11/22/2023	Primary	<50	U	<100	U	<170	U	–	–			<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	UJ	<0.42	UJ	<0.42	U
RHP04A	APPL	23K0231	RHP04A-WGN01LF-2311WK4-DF	11/28/2023	Primary	–		–		–		–	–			–		–		–		–		–		–		–	
RHP04A	SGS Orlando	FC11564	RHP04A-WGN01LF-2311WK4-DF	11/28/2023	Primary	<50	U	<100	U	<170	U	–	–			<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	UJ	<0.42	UJ	<0.42	U
RHP04A	APPL	23L0027	RHP04A-WGN01LF-2312-DF	12/5/2023	Primary	–		–		–		–	–			–		–		–		–		–		–		–	
RHP04A	SGS Anchorage	1236605_EDMS	RHP04A-WGN01LF-2312-DF	12/5/2023	Primary	–		–		–		–	–			–		–		–		–		–		–		–	
RHP04A	SGS Orlando	FC11717	RHP04A-WGN01LF-2312-DF	12/5/2023	Primary	<50	U	<100	U	<170	U	–	–			<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	UJ	<0.42	UJ	<0.42	U
RHP04A	SGS Orlando	FC11717B	RHP04A-WGN01LF-2312-DF	12/5/2023	Primary	–		–		–		–	–			–		–		–		–		–		–		–	
RHP04A	APPL	23L0091	RHP04A-WGN01LF-2312WK2-DF	12/12/2023	Primary	–		–		–		–	–			–		–		–		–		–		–		–	
RHP04A	SGS Orlando	FC11937	RHP04A-WGN01LF-2312WK2-DF	12/12/2023	Primary	<50	U	<100	U	<170	U	–	–			<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	UJ	<0.4	UJ	<0.4	U
RHP04A	APPL	23L0161	RHP04A-WGN01LF-2312WK3-DF	12/19/2023	Primary	–		–		–		–	–			–		–		–		–		–		–		–	
RHP04A	SGS Orlando	FC12136	RHP04A-WGN01LF-2312WK3-DF	12/19/2023	Primary	<50	U	<100	U	<160	U	–	–			<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHP04A	APPL	23L0216	RHP04A-WGN01LF-2312WK4-DF	12/27/2023	Primary	–		–		–		–	–			–		–		–		–		–		–		–	
RHP04A	SGS Orlando	FC12258	RHP04A-WGN01LF-2312WK4-DF	12/27/2023	Primary	<50	U	<100	U	<170	U	–	–			<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHP04A	APPL	24A0022	RHP04A-WGN01LF-2401-DF	1/3/2024	Primary	–		–		–		–	–			–		–		–		–		–		–		–	
RHP04A	SGS Anchorage	1240064_EDMS	RHP04A-WGN01LF-2401-DF	1/3/2024	Primary	–		–		–		–	–			–		–		–		–		–		–		–	
RHP04A	SGS Orlando	FC12382	RHP04A-WGN01LF-2401-DF	1/3/2024	Primary	<50	U	<96	U	<150	U	–	–			<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U
RHP04A	SGS Orlando	FC12382B	RHP04A-WGN01LF-2401-DF	1/3/2024	Primary	–		–		–		–	–			–		–		–		–		–		–		–	
RHP04A	APPL	24A0057	RHP04A-WGN01LF-2401WK2-DF	1/9/2024	Primary	–		–		–		–	–			–		–		–		–		–		–		–	
RHP04A	SGS Orlando	FC12486	RHP04A-WGN01LF-2401WK2-DF	1/9/2024	Primary	<50	U	<100	U	<170	U	–	–			<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHP04A	APPL	24A0108	RHP04A-WGN01LF-2401WK3-DF	1/16/2024	Primary	–		–		–		–	–			–		–		–		–		–		–		–	
RHP04A	SGS Orlando	FC12611	RHP04A-WGN01LF-2401WK3-DF	1/16/2024	Primary	<50	U	<100	U	<170	U	–	–			<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	UJ	<0.4	UJ	<0.4	UJ

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHP04A

						Polycyclic Aromatic Hydrocarbons (PAHs)																															
					Analyte	Acenaphthene (SIM)				Acenaphthylene (SIM)				Anthracene (SIM)				Benzo(a)anthracene (SIM)				Benzo(a)pyrene (SIM)				Benzo(b)fluoranthene (SIM)				Benzo(g,h,i)peryelene (SIM)				Benzo(k)fluoranthene (SIM)				Chrysene (SIM)			
					CAS No.	83-32-9				208-96-8				120-12-7				56-55-3				50-32-8				205-99-2				191-24-2				207-08-9				218-01-9			
					Method	8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM			
					DOH Tier 1 EAL	20				240				0.18				0.029				0.2				0.22				0.13				0.4				1			
					Units	µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L			
					Minimum	ND				ND				ND				ND				ND				ND				ND				ND				ND			
					Maximum	ND				ND				ND				ND				ND				ND				ND				ND				ND			
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result				Result				Result				Result				Result				Result				Result				Result				Result			
RHP04A	SGS Orlando	FC7027	RHP04A-WGN01LF-2306WK2	6/14/2023	Primary	<0.4	U			<0.4	U			<0.4	U			<0.04	U			<0.04	U			<0.04	U			<0.04	U			<0.04	U			<0.08	U		
RHP04A	ALS Kelso	K2310236	RHP04A-WGN01LF-2309	9/11/2023	Primary	–				–				–				–				–				–				–				–				–			
RHP04A	SGS Orlando	FC9542	RHP04A-WGN01LF-2309	9/11/2023	Primary	<0.42	U			<0.42	U			<0.42	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.083	U		
RHP04A	ALS Kelso	K2311474	RHP04A-WGN01LF-2310	10/6/2023	Primary	–				–				–				–				–				–				–				–				–			
RHP04A	Energy	B23100765	RHP04A-WGN01LF-2310	10/6/2023	Primary	–				–				–				–				–				–				–				–				–			
RHP04A	SGS Orlando	FC10336	RHP04A-WGN01LF-2310	10/6/2023	Primary	<0.42	U			<0.42	U			<0.42	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.083	U		
RHP04A	APPL	23J0127	RHP04A-WGN01LF-23Q4	10/12/2023	Primary	–				–				–				–				–				–				–				–				–			
RHP04A	Energy	B23101113	RHP04A-WGN01LF-23Q4	10/12/2023	Primary	–				–				–				–				–				–				–				–				–			
RHP04A	SGS Orlando	FC10448	RHP04A-WGN01LF-23Q4	10/12/2023	Primary	<0.4	U			<0.4	U			<0.4	U			<0.04	U			<0.04	U			<0.04	U			<0.04	U			<0.04	U			<0.08	U		
RHP04A	APPL	23J0260	RHP04A-WGN01LF-2310WK4-DF	10/23/2023	Primary	–				–				–				–				–				–				–				–				–			
RHP04A	SGS Orlando	FC10676	RHP04A-WGN01LF-2310WK4-DF	10/23/2023	Primary	<0.4	U			<0.4	U			<0.4	U			<0.04	U			<0.04	U			<0.04	U			<0.04	U			<0.04	U			<0.08	U		
RHP04A	APPL	23K0034	RHP04A-WGN01LF-2310WK5-DF	11/3/2023	Primary	–				–				–				–				–				–				–				–				–			
RHP04A	SGS Orlando	FC10974	RHP04A-WGN01LF-2310WK5-DF	11/3/2023	Primary	<0.4	U			<0.4	U			<0.4	U			<0.04	U			<0.04	U			<0.04	U			<0.04	U			<0.04	U			<0.08	U		
RHP04A	ALS Kelso	K2312760	RHP04A-WGN01LF-2311-DF	11/7/2023	Primary	–				–				–				–				–				–				–				–				–			
RHP04A	APPL	23K0050	RHP04A-WGN01LF-2311-DF	11/7/2023	Primary	–				–				–				–				–				–				–				–				–			
RHP04A	SGS Orlando	FC11063	RHP04A-WGN01LF-2311-DF	11/7/2023	Primary	<0.42	U			<0.42	U			<0.42	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.083	U		
RHP04A	SGS Orlando	FC11063B	RHP04A-WGN01LF-2311-DF	11/7/2023	Primary	–				–				–				–				–				–				–				–				–			
RHP04A	APPL	23K0134	RHP04A-WGN01LF-2311WK2-DF	11/15/2023	Primary	–				–				–				–				–				–				–				–				–			
RHP04A	SGS Orlando	FC11293	RHP04A-WGN01LF-2311WK2-DF	11/15/2023	Primary	<0.42	U			<0.42	U			<0.42	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.083	U		
RHP04A	APPL	23K0214	RHP04A-WGN01LF-2311WK3-DF	11/22/2023	Primary	–				–				–				–				–				–				–				–				–			
RHP04A	SGS Orlando	FC11474	RHP04A-WGN01LF-2311WK3-DF	11/22/2023	Primary	<0.42	UJ			<0.42	UJ			<0.42	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.083	U		
RHP04A	APPL	23K0231	RHP04A-WGN01LF-2311WK4-DF	11/28/2023	Primary	–				–				–				–				–				–				–				–				–			
RHP04A	SGS Orlando	FC11564	RHP04A-WGN01LF-2311WK4-DF	11/28/2023	Primary	<0.42	UJ			<0.42	UJ			<0.42	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.083	U		
RHP04A	APPL	23L0027	RHP04A-WGN01LF-2312-DF	12/5/2023	Primary	–				–				–				–				–				–				–				–				–			
RHP04A	SGS Anchorage	1236605_EDMS	RHP04A-WGN01LF-2312-DF	12/5/2023	Primary	–				–				–				–				–				–				–				–				–			
RHP04A	SGS Orlando	FC11717	RHP04A-WGN01LF-2312-DF	12/5/2023	Primary	<0.42	UJ			<0.42	UJ			<0.42	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.083	U		
RHP04A	SGS Orlando	FC11717B	RHP04A-WGN01LF-2312-DF	12/5/2023	Primary	–				–				–				–				–				–				–				–				–			
RHP04A	APPL	23L0091	RHP04A-WGN01LF-2312WK2-DF	12/12/2023	Primary	–				–				–				–				–				–				–				–				–			
RHP04A	SGS Orlando	FC11937	RHP04A-WGN01LF-2312WK2-DF	12/12/2023	Primary	<0.4	UJ			<0.4	UJ			<0.4	U			<0.04	U			<0.04	U			<0.04	U			<0.04	U			<0.04	U			<0.08	U		
RHP04A	APPL	23L0161	RHP04A-WGN01LF-2312WK3-DF	12/19/2023	Primary	–				–				–				–				–				–				–				–				–			
RHP04A	SGS Orlando	FC12136	RHP04A-WGN01LF-2312WK3-DF	12/19/2023	Primary	<0.42	U			<0.42	U			<0.42	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.083	U		
RHP04A	APPL	23L0216	RHP04A-WGN01LF-2312WK4-DF	12/27/2023	Primary	–				–				–				–				–				–				–				–				–			
RHP04A	SGS Orlando	FC12258	RHP04A-WGN01LF-2312WK4-DF	12/27/2023	Primary	<0.42	U			<0.42	U			<0.42	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.083	U		
RHP04A	APPL	24A0022	RHP04A-WGN01LF-2401-DF	1/3/2024	Primary	–				–				–				–				–				–				–				–				–			
RHP04A	SGS Anchorage	1240064_EDMS	RHP04A-WGN01LF-2401-DF	1/3/2024	Primary	–				–				–				–				–				–				–				–				–			
RHP04A	SGS Orlando	FC12382	RHP04A-WGN01LF-2401-DF	1/3/2024	Primary	<0.4	U			<0.4	U			<0.4	U			<0.04	U			<0.04	U			<0.04	U			<0.04	U			<0.04	U			<0.08	U		
RHP04A	SGS Orlando	FC12382B	RHP04A-WGN01LF-2401-DF	1/3/2024	Primary	–				–				–				–				–				–				–				–				–			
RHP04A	APPL	24A0057	RHP04A-WGN01LF-2401WK2-DF	1/9/2024	Primary	–				–				–				–				–				–				–				–				–			
RHP04A	SGS Orlando	FC12486	RHP04A-WGN01LF-2401WK2-DF	1/9/2024	Primary	<0.42	U			<0.42	U			<0.42	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.083	U		
RHP04A	APPL	24A0108	RHP04A-WGN01LF-2401WK3-DF	1/16/2024	Primary	–				–				–				–				–				–				–				–				–			
RHP04A	SGS Orlando	FC12611	RHP04A-WGN01LF-2401WK3-DF	1/16/2024	Primary	<0.4	UJ			<0.4	UJ			<0.4	UJ			<0.04	UJ			<0.04	UJ			<0.04	UJ			<0.04	UJ			<0.04	UJ			<0.08	UJ		

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHP04A

						Fuel Additive				Lead Scavengers				Natural Attenuation Parameters					
					Analyte	2-(2- Methoxyethoxy)-ethanol [b]		Phenol		1,2-Dibromoethane		1,2-Dichloroethane		Methane		Total Organic Carbon		NV Dissolved Organic Carbon	
					CAS No.	111-77-3		108-95-2		106-93-4		107-06-2		74-82-8		TOC		—	
					Method	8270D		SW8270		8011		8260		RSK 175		9060		9060	
					DOH Tier 1 EAL	800		300		0.04		5		—		—		—	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		500	
					Maximum	ND		ND		ND		ND		0.39		500		900	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result	
RHP04A	SGS Orlando	FC7027	RHP04A-WGN01LF-2306WK2	6/14/2023	Primary	–		<1.9	U	–		<0.5	U	<0.25	U	–		–	
RHP04A	ALS Kelso	K2310236	RHP04A-WGN01LF-2309	9/11/2023	Primary	–		–		–		–		–		<500	U	900	J
RHP04A	SGS Orlando	FC9542	RHP04A-WGN01LF-2309	9/11/2023	Primary	–		<2	U	–		<0.5	U	<0.25	U	–		–	
RHP04A	ALS Kelso	K2311474	RHP04A-WGN01LF-2310	10/6/2023	Primary	–		–		–		–		–		<500	U	500	
RHP04A	Energy	B23100765	RHP04A-WGN01LF-2310	10/6/2023	Primary	–		–		<0.0049	U	–		–		–		–	
RHP04A	SGS Orlando	FC10336	RHP04A-WGN01LF-2310	10/6/2023	Primary	–		<1.9	U	–		<0.5	UJ	<0.25	U	–		–	
RHP04A	APPL	23J0127	RHP04A-WGN01LF-23Q4	10/12/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHP04A	Energy	B23101113	RHP04A-WGN01LF-23Q4	10/12/2023	Primary	–		–		<0.0049	U	<0.1	U	–		–		–	
RHP04A	SGS Orlando	FC10448	RHP04A-WGN01LF-23Q4	10/12/2023	Primary	–		<1.9	U	–		–		<0.25	U	<1000	U	–	
RHP04A	APPL	23J0260	RHP04A-WGN01LF-2310WK4-DF	10/23/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHP04A	SGS Orlando	FC10676	RHP04A-WGN01LF-2310WK4-DF	10/23/2023	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	
RHP04A	APPL	23K0034	RHP04A-WGN01LF-2310WK5-DF	11/3/2023	Primary	<80	U	–		–		–		–		–		–	
RHP04A	SGS Orlando	FC10974	RHP04A-WGN01LF-2310WK5-DF	11/3/2023	Primary	–		<1.9	U	<0.014	U	<0.5	U	–		–		–	
RHP04A	ALS Kelso	K2312760	RHP04A-WGN01LF-2311-DF	11/7/2023	Primary	–		–		–		–		–		500		500	
RHP04A	APPL	23K0050	RHP04A-WGN01LF-2311-DF	11/7/2023	Primary	<80	U	–		–		–		–		–		–	
RHP04A	SGS Orlando	FC11063	RHP04A-WGN01LF-2311-DF	11/7/2023	Primary	–		<1.9	U	<0.014	U	<0.5	U	–		–		–	
RHP04A	SGS Orlando	FC11063B	RHP04A-WGN01LF-2311-DF	11/7/2023	Primary	–		–		–		–		0.39	J	–		–	
RHP04A	APPL	23K0134	RHP04A-WGN01LF-2311WK2-DF	11/15/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHP04A	SGS Orlando	FC11293	RHP04A-WGN01LF-2311WK2-DF	11/15/2023	Primary	–		<1.9	U	<0.014	U	<0.5	U	–		–		–	
RHP04A	APPL	23K0214	RHP04A-WGN01LF-2311WK3-DF	11/22/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHP04A	SGS Orlando	FC11474	RHP04A-WGN01LF-2311WK3-DF	11/22/2023	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	
RHP04A	APPL	23K0231	RHP04A-WGN01LF-2311WK4-DF	11/28/2023	Primary	<80	U	–		–		–		–		–		–	
RHP04A	SGS Orlando	FC11564	RHP04A-WGN01LF-2311WK4-DF	11/28/2023	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	
RHP04A	APPL	23L0027	RHP04A-WGN01LF-2312-DF	12/5/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHP04A	SGS Anchorage	1236605_EDMS	RHP04A-WGN01LF-2312-DF	12/5/2023	Primary	–		–		–		–		–		<750	U	786	J+
RHP04A	SGS Orlando	FC11717	RHP04A-WGN01LF-2312-DF	12/5/2023	Primary	–		<1.9	U	<0.015	U	<0.5	U	–		–		–	
RHP04A	SGS Orlando	FC11717B	RHP04A-WGN01LF-2312-DF	12/5/2023	Primary	–		–		–		–		0.21	J	–		–	
RHP04A	APPL	23L0091	RHP04A-WGN01LF-2312WK2-DF	12/12/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHP04A	SGS Orlando	FC11937	RHP04A-WGN01LF-2312WK2-DF	12/12/2023	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	
RHP04A	APPL	23L0161	RHP04A-WGN01LF-2312WK3-DF	12/19/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHP04A	SGS Orlando	FC12136	RHP04A-WGN01LF-2312WK3-DF	12/19/2023	Primary	–		<1.9	U	<0.014	U	<0.5	U	–		–		–	
RHP04A	APPL	23L0216	RHP04A-WGN01LF-2312WK4-DF	12/27/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHP04A	SGS Orlando	FC12258	RHP04A-WGN01LF-2312WK4-DF	12/27/2023	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	
RHP04A	APPL	24A0022	RHP04A-WGN01LF-2401-DF	1/3/2024	Primary	<80	UJ	–		–		–		–		–		–	
RHP04A	SGS Anchorage	1240064_EDMS	RHP04A-WGN01LF-2401-DF	1/3/2024	Primary	–		–		–		–		–		<750	U	840	J+
RHP04A	SGS Orlando	FC12382	RHP04A-WGN01LF-2401-DF	1/3/2024	Primary	–		<1.9	U	<0.014	U	<0.5	U	–		–		–	
RHP04A	SGS Orlando	FC12382B	RHP04A-WGN01LF-2401-DF	1/3/2024	Primary	–		–		–		–		<0.25	U	–		–	
RHP04A	APPL	24A0057	RHP04A-WGN01LF-2401WK2-DF	1/9/2024	Primary	<80	UJ	–		–		–		–		–		–	
RHP04A	SGS Orlando	FC12486	RHP04A-WGN01LF-2401WK2-DF	1/9/2024	Primary	–		<2	U	<0.015	U	<0.5	U	–		–		–	
RHP04A	APPL	24A0108	RHP04A-WGN01LF-2401WK3-DF	1/16/2024	Primary	<80	UJ	–		–		–		–		–		–	
RHP04A	SGS Orlando	FC12611	RHP04A-WGN01LF-2401WK3-DF	1/16/2024	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHP04B

						Total Petroleum Hydrocarbons												Volatile Organic Compounds												Polycyclic Aromatic Hydrocarbons (PAHs) – AOC/LTM					
					Analyte	TPH-g		TPH-d [a]		TPH-o [a]		TPH-d with Silica Gel Cleanup [a]		TPH-o with Silica Gel Cleanup [a]		Benzene		Ethylbenzene		Toluene		Xylenes		1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene	
					CAS No.	PHCC6C10		PHCC10C24		PHCC24C40		PHCC10C24SGC		PHCC24C40SGC		71-43-2		100-41-4		108-88-3		1330-20-7		90-12-0		91-57-6		91-20-3	
					Method	8260		8015		8015		8015		8015		8260		8260		8260		8260		8270 SIM		8270 SIM		8270 SIM	
					DOH Tier 1 EAL	300		400		500		—		—		5		30		40		20		10		10		17	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		304		150		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHP04B	SGS Orlando	FC7027	RHP04B-WGN01LF-2306WK2	6/14/2023	Primary	<50	U	304		85.9	J	<100	U	<160	U	<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U
RHP04B	ALS Kelso	K2310236	RHP04B-WGN01LF-2309	9/11/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B	SGS Orlando	FC9542	RHP04B-WGN01LF-2309	9/11/2023	Primary	<50	U	88.4	J	<160	U	<100	U	<160	U	<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHP04B	ALS Kelso	K2311474	RHP04B-WGN01LF-2310	10/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B	Energy	B23100765	RHP04B-WGN01LF-2310	10/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B	SGS Orlando	FC10336	RHP04B-WGN01LF-2310	10/6/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U
RHP04B	APPL	23J0127	RHP04B-WGN01LF-23Q4	10/12/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B	Energy	B23101113	RHP04B-WGN01LF-23Q4	10/12/2023	Primary	<8.5	U	119	J	150	J	<145	U	<145	U	<0.1	U	<0.1	U	<0.2	U	<0.1	U	–		–		–	
RHP04B	SGS Orlando	FC10448	RHP04B-WGN01LF-23Q4	10/12/2023	Primary	–		–		–		–		–		–		–		–		–		<0.4	U	<0.4	U	<0.4	U
RHP04B	APPL	23J0260	RHP04B-WGN01LF-2310WK4-DF	10/23/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B	SGS Orlando	FC10676	RHP04B-WGN01LF-2310WK4-DF	10/23/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U
RHP04B	APPL	23K0034	RHP04B-WGN01LF-2310WK5-DF	11/3/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B	SGS Orlando	FC10974	RHP04B-WGN01LF-2310WK5-DF	11/3/2023	Primary	<50	U	<96	U	<150	U	–		–		<0.5	U	<0.5	UJ	<0.5	UJ	<1.5	U	<0.4	U	<0.4	U	<0.4	U
RHP04B	ALS Kelso	K2312760	RHP04B-WGN01LF-2311-DF	11/7/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B	APPL	23K0050	RHP04B-WGN01LF-2311-DF	11/7/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B	SGS Orlando	FC11063	RHP04B-WGN01LF-2311-DF	11/7/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	UJ	<0.42	U	<0.42	U
RHP04B	SGS Orlando	FC11063B	RHP04B-WGN01LF-2311-DF	11/7/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B	APPL	23K0134	RHP04B-WGN01LF-2311WK2-DF	11/15/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B	SGS Orlando	FC11293	RHP04B-WGN01LF-2311WK2-DF	11/15/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHP04B	APPL	23K0214	RHP04B-WGN01LF-2311WK3-DF	11/22/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B	SGS Orlando	FC11474	RHP04B-WGN01LF-2311WK3-DF	11/22/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	UJ	<0.42	UJ	<0.42	U
RHP04B	APPL	23K0231	RHP04B-WGN01LF-2311WK4-DF	11/28/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B	SGS Orlando	FC11564	RHP04B-WGN01LF-2311WK4-DF	11/28/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	UJ	<0.42	UJ	<0.42	U
RHP04B	APPL	23L0027	RHP04B-WGN01LF-2312-DF	12/5/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B	SGS Anchorage	1236605_EDMS	RHP04B-WGN01LF-2312-DF	12/5/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B	SGS Orlando	FC11717	RHP04B-WGN01LF-2312-DF	12/5/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	UJ	<0.42	UJ	<0.42	U
RHP04B	SGS Orlando	FC11717B	RHP04B-WGN01LF-2312-DF	12/5/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B	APPL	23L0091	RHP04B-WGN01LF-2312WK2-DF	12/12/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B	SGS Orlando	FC11937	RHP04B-WGN01LF-2312WK2-DF	12/12/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	UJ	<0.4	UJ	<0.4	U
RHP04B	APPL	23L0161	RHP04B-WGN01LF-2312WK3-DF	12/19/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B	SGS Orlando	FC12136	RHP04B-WGN01LF-2312WK3-DF	12/19/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHP04B	APPL	23L0216	RHP04B-WGN01LF-2312WK4-DF	12/27/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B	SGS Orlando	FC12258	RHP04B-WGN01LF-2312WK4-DF	12/27/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHP04B	APPL	24A0022	RHP04B-WGN01LF-2401-DF	1/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B	SGS Anchorage	1240064_EDMS	RHP04B-WGN01LF-2401-DF	1/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B	SGS Orlando	FC12382	RHP04B-WGN01LF-2401-DF	1/3/2024	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U
RHP04B	SGS Orlando	FC12382B	RHP04B-WGN01LF-2401-DF	1/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B	APPL	24A0057	RHP04B-WGN01LF-2401WK2-DF	1/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B	SGS Orlando	FC12486	RHP04B-WGN01LF-2401WK2-DF	1/9/2024	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHP04B	APPL	24A0108	RHP04B-WGN01LF-2401WK3-DF	1/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B	SGS Orlando	FC12611	RHP04B-WGN01LF-2401WK3-DF	1/16/2024	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	UJ	<0.4	UJ	<0.4	UJ

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHP04B

						Polycyclic Aromatic Hydrocarbons (PAHs)																															
					Analyte	Acenaphthene (SIM)				Acenaphthylene (SIM)				Anthracene (SIM)				Benzo(a)anthracene (SIM)				Benzo(a)pyrene (SIM)				Benzo(b)fluoranthene (SIM)				Benzo(g,h,i)peryelene (SIM)				Benzo(k)fluoranthene (SIM)				Chrysene (SIM)			
					CAS No.	83-32-9				208-96-8				120-12-7				56-55-3				50-32-8				205-99-2				191-24-2				207-08-9				218-01-9			
					Method	8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM			
					DOH Tier 1 EAL	20				240				0.18				0.029				0.2				0.22				0.13				0.4				1			
					Units	µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L			
					Minimum	ND				ND				ND				ND				ND				ND				ND				ND				ND			
					Maximum	ND				ND				ND				ND				ND				ND				ND				ND				ND			
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result				Result				Result				Result				Result				Result				Result				Result				Result			
RHP04B	SGS Orlando	FC7027	RHP04B-WGN01LF-2306WK2	6/14/2023	Primary	<0.4	U			<0.4	U			<0.4	U			<0.04	U			<0.04	U			<0.04	U			<0.04	U			<0.04	U			<0.08	U		
RHP04B	ALS Kelso	K2310236	RHP04B-WGN01LF-2309	9/11/2023	Primary	–				–				–				–				–				–				–				–				–			
RHP04B	SGS Orlando	FC9542	RHP04B-WGN01LF-2309	9/11/2023	Primary	<0.42	U			<0.42	U			<0.42	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.083	U		
RHP04B	ALS Kelso	K2311474	RHP04B-WGN01LF-2310	10/6/2023	Primary	–				–				–				–				–				–				–				–				–			
RHP04B	Energy	B23100765	RHP04B-WGN01LF-2310	10/6/2023	Primary	–				–				–				–				–				–				–				–				–			
RHP04B	SGS Orlando	FC10336	RHP04B-WGN01LF-2310	10/6/2023	Primary	<0.4	U			<0.4	U			<0.4	U			<0.04	U			<0.04	U			<0.04	U			<0.04	U			<0.04	U			<0.08	U		
RHP04B	APPL	23J0127	RHP04B-WGN01LF-23Q4	10/12/2023	Primary	–				–				–				–				–				–				–				–				–			
RHP04B	Energy	B23101113	RHP04B-WGN01LF-23Q4	10/12/2023	Primary	–				–				–				–				–				–				–				–				–			
RHP04B	SGS Orlando	FC10448	RHP04B-WGN01LF-23Q4	10/12/2023	Primary	<0.4	U			<0.4	U			<0.4	U			<0.04	U			<0.04	U			<0.04	U			<0.04	U			<0.04	U			<0.08	U		
RHP04B	APPL	23J0260	RHP04B-WGN01LF-2310WK4-DF	10/23/2023	Primary	–				–				–				–				–				–				–				–				–			
RHP04B	SGS Orlando	FC10676	RHP04B-WGN01LF-2310WK4-DF	10/23/2023	Primary	<0.4	U			<0.4	U			<0.4	U			<0.04	U			<0.04	U			<0.04	U			<0.04	U			<0.04	U			<0.08	U		
RHP04B	APPL	23K0034	RHP04B-WGN01LF-2310WK5-DF	11/3/2023	Primary	–				–				–				–				–				–				–				–				–			
RHP04B	SGS Orlando	FC10974	RHP04B-WGN01LF-2310WK5-DF	11/3/2023	Primary	<0.4	U			<0.4	U			<0.4	U			<0.04	U			<0.04	U			<0.04	U			<0.04	U			<0.04	U			<0.08	U		
RHP04B	ALS Kelso	K2312760	RHP04B-WGN01LF-2311-DF	11/7/2023	Primary	–				–				–				–				–				–				–				–				–			
RHP04B	APPL	23K0050	RHP04B-WGN01LF-2311-DF	11/7/2023	Primary	–				–				–				–				–				–				–				–				–			
RHP04B	SGS Orlando	FC11063	RHP04B-WGN01LF-2311-DF	11/7/2023	Primary	<0.42	U			<0.42	U			<0.42	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.083	U		
RHP04B	SGS Orlando	FC11063B	RHP04B-WGN01LF-2311-DF	11/7/2023	Primary	–				–				–				–				–				–				–				–				–			
RHP04B	APPL	23K0134	RHP04B-WGN01LF-2311WK2-DF	11/15/2023	Primary	–				–				–				–				–				–				–				–				–			
RHP04B	SGS Orlando	FC11293	RHP04B-WGN01LF-2311WK2-DF	11/15/2023	Primary	<0.42	U			<0.42	U			<0.42	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.083	U		
RHP04B	APPL	23K0214	RHP04B-WGN01LF-2311WK3-DF	11/22/2023	Primary	–				–				–				–				–				–				–				–				–			
RHP04B	SGS Orlando	FC11474	RHP04B-WGN01LF-2311WK3-DF	11/22/2023	Primary	<0.42	UJ			<0.42	UJ			<0.42	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.083	U		
RHP04B	APPL	23K0231	RHP04B-WGN01LF-2311WK4-DF	11/28/2023	Primary	–				–				–				–				–				–				–				–				–			
RHP04B	SGS Orlando	FC11564	RHP04B-WGN01LF-2311WK4-DF	11/28/2023	Primary	<0.42	UJ			<0.42	UJ			<0.42	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.083	U		
RHP04B	APPL	23L0027	RHP04B-WGN01LF-2312-DF	12/5/2023	Primary	–				–				–				–				–				–				–				–				–			
RHP04B	SGS Anchorage	1236605_EDMS	RHP04B-WGN01LF-2312-DF	12/5/2023	Primary	–				–				–				–				–				–				–				–				–			
RHP04B	SGS Orlando	FC11717	RHP04B-WGN01LF-2312-DF	12/5/2023	Primary	<0.42	UJ			<0.42	UJ			<0.42	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.083	U		
RHP04B	SGS Orlando	FC11717B	RHP04B-WGN01LF-2312-DF	12/5/2023	Primary	–				–				–				–				–				–				–				–				–			
RHP04B	APPL	23L0091	RHP04B-WGN01LF-2312WK2-DF	12/12/2023	Primary	–				–				–				–				–				–				–				–				–			
RHP04B	SGS Orlando	FC11937	RHP04B-WGN01LF-2312WK2-DF	12/12/2023	Primary	<0.4	UJ			<0.4	UJ			<0.4	U			<0.04	U			<0.04	U			<0.04	U			<0.04	U			<0.04	U			<0.08	U		
RHP04B	APPL	23L0161	RHP04B-WGN01LF-2312WK3-DF	12/19/2023	Primary	–				–				–				–				–				–				–				–				–			
RHP04B	SGS Orlando	FC12136	RHP04B-WGN01LF-2312WK3-DF	12/19/2023	Primary	<0.42	U			<0.42	U			<0.42	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.083	U		
RHP04B	APPL	23L0216	RHP04B-WGN01LF-2312WK4-DF	12/27/2023	Primary	–				–				–				–				–				–				–				–				–			
RHP04B	SGS Orlando	FC12258	RHP04B-WGN01LF-2312WK4-DF	12/27/2023	Primary	<0.42	U			<0.42	U			<0.42	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.083	U		
RHP04B	APPL	24A0022	RHP04B-WGN01LF-2401-DF	1/3/2024	Primary	–				–				–				–				–				–				–				–				–			
RHP04B	SGS Anchorage	1240064_EDMS	RHP04B-WGN01LF-2401-DF	1/3/2024	Primary	–				–				–				–				–				–				–				–				–			
RHP04B	SGS Orlando	FC12382	RHP04B-WGN01LF-2401-DF	1/3/2024	Primary	<0.4	U			<0.4	U			<0.4	U			<0.04	U			<0.04	U			<0.04	U			<0.04	U			<0.04	U			<0.08	U		
RHP04B	SGS Orlando	FC12382B	RHP04B-WGN01LF-2401-DF	1/3/2024	Primary	–				–				–				–				–				–				–				–				–			
RHP04B	APPL	24A0057	RHP04B-WGN01LF-2401WK2-DF	1/9/2024	Primary	–				–				–				–				–				–				–				–				–			
RHP04B	SGS Orlando	FC12486	RHP04B-WGN01LF-2401WK2-DF	1/9/2024	Primary	<0.42	U			<0.42	U			<0.42	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.083	U		
RHP04B	APPL	24A0108	RHP04B-WGN01LF-2401WK3-DF	1/16/2024	Primary	–				–				–				–				–				–				–				–				–			
RHP04B	SGS Orlando	FC12611	RHP04B-WGN01LF-2401WK3-DF	1/16/2024	Primary	<0.4	UJ			<0.4	UJ			<0.4	UJ			<0.04	UJ			<0.04	UJ			<0.04	UJ			<0.04	UJ			<0.04	UJ			<0.08	UJ		

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHP04B

						Fuel Additive				Lead Scavengers				Natural Attenuation Parameters					
					Analyte	2-(2- Methoxyethoxy)-ethanol [b]		Phenol		1,2-Dibromoethane		1,2-Dichloroethane		Methane		Total Organic Carbon		NV Dissolved Organic Carbon	
					CAS No.	111-77-3		108-95-2		106-93-4		107-06-2		74-82-8		TOC		—	
					Method	8270D		SW8270		8011		8260		RSK 175		9060		9060	
					DOH Tier 1 EAL	800		300		0.04		5		—		—		—	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		1.2		3700		3300	
					Maximum	ND		ND		ND		ND		3.8		4900		4700	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result	
RHP04B	SGS Orlando	FC7027	RHP04B-WGN01LF-2306WK2	6/14/2023	Primary	–		<1.9	U	–		<0.5	U	1.2		–		–	
RHP04B	ALS Kelso	K2310236	RHP04B-WGN01LF-2309	9/11/2023	Primary	–		–		–		–		–		3800		3300	
RHP04B	SGS Orlando	FC9542	RHP04B-WGN01LF-2309	9/11/2023	Primary	–		<2	U	–		<0.5	U	3.8		–		–	
RHP04B	ALS Kelso	K2311474	RHP04B-WGN01LF-2310	10/6/2023	Primary	–		–		–		–		–		4600		4700	
RHP04B	Energy	B23100765	RHP04B-WGN01LF-2310	10/6/2023	Primary	–		–		<0.0049	U	–		–		–		–	
RHP04B	SGS Orlando	FC10336	RHP04B-WGN01LF-2310	10/6/2023	Primary	–		<1.9	U	–		<0.5	U	1.7		–		–	
RHP04B	APPL	23J0127	RHP04B-WGN01LF-23Q4	10/12/2023	Primary	–	R	–		–		–		–		–		–	
RHP04B	Energy	B23101113	RHP04B-WGN01LF-23Q4	10/12/2023	Primary	–		–		<0.0048	U	<0.1	U	–		–		–	
RHP04B	SGS Orlando	FC10448	RHP04B-WGN01LF-23Q4	10/12/2023	Primary	–		<1.9	U	–		–		2.1		4900		–	
RHP04B	APPL	23J0260	RHP04B-WGN01LF-2310WK4-DF	10/23/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHP04B	SGS Orlando	FC10676	RHP04B-WGN01LF-2310WK4-DF	10/23/2023	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	
RHP04B	APPL	23K0034	RHP04B-WGN01LF-2310WK5-DF	11/3/2023	Primary	<80	U	–		–		–		–		–		–	
RHP04B	SGS Orlando	FC10974	RHP04B-WGN01LF-2310WK5-DF	11/3/2023	Primary	–		<1.9	U	<0.014	U	<0.5	U	–		–		–	
RHP04B	ALS Kelso	K2312760	RHP04B-WGN01LF-2311-DF	11/7/2023	Primary	–		–		–		–		–		4200		3900	
RHP04B	APPL	23K0050	RHP04B-WGN01LF-2311-DF	11/7/2023	Primary	<80	U	–		–		–		–		–		–	
RHP04B	SGS Orlando	FC11063	RHP04B-WGN01LF-2311-DF	11/7/2023	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	
RHP04B	SGS Orlando	FC11063B	RHP04B-WGN01LF-2311-DF	11/7/2023	Primary	–		–		–		–		2.3		–		–	
RHP04B	APPL	23K0134	RHP04B-WGN01LF-2311WK2-DF	11/15/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHP04B	SGS Orlando	FC11293	RHP04B-WGN01LF-2311WK2-DF	11/15/2023	Primary	–		<1.9	U	<0.014	U	<0.5	U	–		–		–	
RHP04B	APPL	23K0214	RHP04B-WGN01LF-2311WK3-DF	11/22/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHP04B	SGS Orlando	FC11474	RHP04B-WGN01LF-2311WK3-DF	11/22/2023	Primary	–		<2	U	<0.015	U	<0.5	U	–		–		–	
RHP04B	APPL	23K0231	RHP04B-WGN01LF-2311WK4-DF	11/28/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHP04B	SGS Orlando	FC11564	RHP04B-WGN01LF-2311WK4-DF	11/28/2023	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	
RHP04B	APPL	23L0027	RHP04B-WGN01LF-2312-DF	12/5/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHP04B	SGS Anchorage	1236605_EDMS	RHP04B-WGN01LF-2312-DF	12/5/2023	Primary	–		–		–		–		–		3700		3640	
RHP04B	SGS Orlando	FC11717	RHP04B-WGN01LF-2312-DF	12/5/2023	Primary	–		<1.9	U	<0.014	U	<0.5	U	–		–		–	
RHP04B	SGS Orlando	FC11717B	RHP04B-WGN01LF-2312-DF	12/5/2023	Primary	–		–		–		–		1.9		–		–	
RHP04B	APPL	23L0091	RHP04B-WGN01LF-2312WK2-DF	12/12/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHP04B	SGS Orlando	FC11937	RHP04B-WGN01LF-2312WK2-DF	12/12/2023	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	
RHP04B	APPL	23L0161	RHP04B-WGN01LF-2312WK3-DF	12/19/2023	Primary	<80	U	–		–		–		–		–		–	
RHP04B	SGS Orlando	FC12136	RHP04B-WGN01LF-2312WK3-DF	12/19/2023	Primary	–		<2	U	<0.015	U	<0.5	U	–		–		–	
RHP04B	APPL	23L0216	RHP04B-WGN01LF-2312WK4-DF	12/27/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHP04B	SGS Orlando	FC12258	RHP04B-WGN01LF-2312WK4-DF	12/27/2023	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	
RHP04B	APPL	24A0022	RHP04B-WGN01LF-2401-DF	1/3/2024	Primary	<80	UJ	–		–		–		–		–		–	
RHP04B	SGS Anchorage	1240064_EDMS	RHP04B-WGN01LF-2401-DF	1/3/2024	Primary	–		–		–		–		–		3700		3320	
RHP04B	SGS Orlando	FC12382	RHP04B-WGN01LF-2401-DF	1/3/2024	Primary	–		<1.9	U	<0.014	U	<0.5	U	–		–		–	
RHP04B	SGS Orlando	FC12382B	RHP04B-WGN01LF-2401-DF	1/3/2024	Primary	–		–		–		–		1.4		–		–	
RHP04B	APPL	24A0057	RHP04B-WGN01LF-2401WK2-DF	1/9/2024	Primary	<80	UJ	–		–		–		–		–		–	
RHP04B	SGS Orlando	FC12486	RHP04B-WGN01LF-2401WK2-DF	1/9/2024	Primary	–		<2	U	<0.015	U	<0.5	U	–		–		–	
RHP04B	APPL	24A0108	RHP04B-WGN01LF-2401WK3-DF	1/16/2024	Primary	<80	UJ	–		–		–		–		–		–	
RHP04B	SGS Orlando	FC12611	RHP04B-WGN01LF-2401WK3-DF	1/16/2024	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHP04C

						Total Petroleum Hydrocarbons														Volatile Organic Compounds								Polycyclic Aromatic Hydrocarbons (PAHs) – AOC/LTM					
					Analyte	TPH-g		TPH-d [a]		TPH-o [a]		TPH-d with Silica Gel Cleanup [a]		TPH-o with Silica Gel Cleanup [a]		Benzene		Ethylbenzene		Toluene		Xylenes		1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene	
					CAS No.	PHCC6C10		PHCC10C24		PHCC24C40		PHCC10C24SGC		PHCC24C40SGC		71-43-2		100-41-4		108-88-3		1330-20-7		90-12-0		91-57-6		91-20-3	
					Method	8260		8015		8015		8015		8015		8260		8260		8260		8260		8270 SIM		8270 SIM		8270 SIM	
					DOH Tier 1 EAL	300		400		500		—		—		5		30		40		20		10		10		17	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		–		–		ND		ND		ND		ND		ND		ND		ND	
					Maximum	42.4		ND		ND		–		–		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHP04C	SGS Orlando	FC9543	RHP04C-WGFD01LF-2309	9/8/2023	Field Duplicate	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U
RHP04C	SGS Orlando	FC9543	RHP04C-WGN01LF-2309	9/8/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHP04C	SGS Orlando	FC10336	RHP04C-WGFD01LF-2310	10/6/2023	Field Duplicate	<50	U	<100	U	<170	U	–		–		<0.5	UJ	<0.5	UJ	<0.5	UJ	<1.5	UJ	<0.4	U	<0.4	U	<0.4	U
RHP04C	ALS Kelso	K2311474	RHP04C-WGN01LF-2310	10/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C	Energy	B23100765	RHP04C-WGN01LF-2310	10/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C	SGS Orlando	FC10336	RHP04C-WGN01LF-2310	10/6/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	UJ	<0.5	UJ	<0.5	UJ	<1.5	UJ	<0.4	U	<0.4	U	<0.4	U
RHP04C	APPL	23J0126	RHP04C-WGN01LF-23Q4	10/13/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C	Energy	B23101258	RHP04C-WGN01LF-23Q4	10/13/2023	Primary	<8.5	U	<140	U	<140	U	–		–		<0.1	U	<0.1	U	<0.2	U	<0.1	U	–		–		–	
RHP04C	SGS Orlando	FC10488	RHP04C-WGN01LF-23Q4	10/13/2023	Primary	–		–		–		–		–		–		–		–		–		<0.4	U	<0.4	U	<0.4	U
RHP04C	APPL	23J0280	RHP04C-WGN01LF-2310WK4-DF	10/25/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C	SGS Orlando	FC10745	RHP04C-WGN01LF-2310WK4-DF	10/25/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHP04C	APPL	23K0012	RHP04C-WGN01LF-2310WK5-DF	11/1/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C	SGS Orlando	FC10911	RHP04C-WGN01LF-2310WK5-DF	11/1/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHP04C	APPL	23K0041	RHP04C-WGFD01LF-2311-DF	11/6/2023	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C	SGS Orlando	FC11019	RHP04C-WGFD01LF-2311-DF	11/6/2023	Field Duplicate	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHP04C	ALS Kelso	K2312628	RHP04C-WGN01LF-2311-DF	11/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C	APPL	23K0041	RHP04C-WGN01LF-2311-DF	11/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C	SGS Orlando	FC11019	RHP04C-WGN01LF-2311-DF	11/6/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHP04C	SGS Orlando	FC11019B	RHP04C-WGN01LF-2311-DF	11/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C	APPL	23K0134	RHP04C-WGN01LF-2311WK2-DF	11/15/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C	SGS Orlando	FC11293	RHP04C-WGN01LF-2311WK2-DF	11/15/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHP04C	APPL	23K0183	RHP04C-WGN01LF-2311WK3-DF	11/20/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C	SGS Orlando	FC11419	RHP04C-WGN01LF-2311WK3-DF	11/20/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	UJ	<0.5	UJ	<0.5	UJ	<1.5	UJ	<0.42	UJ	<0.42	UJ	<0.42	U
RHP04C	APPL	23K0236	RHP04C-WGN01LF-2311WK4-DF	11/29/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C	SGS Orlando	FC11596	RHP04C-WGN01LF-2311WK4-DF	11/29/2023	Primary	42.4	J	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	UJ	<0.42	UJ	<0.42	U
RHP04C	APPL	23L0019	RHP04C-WGN01LF-2312-DF	12/4/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C	SGS Anchorage	1236588_EDMS	RHP04C-WGN01LF-2312-DF	12/4/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C	SGS Orlando	FC11688	RHP04C-WGN01LF-2312-DF	12/4/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	UJ	<0.42	UJ	<0.42	U
RHP04C	SGS Orlando	FC11688B	RHP04C-WGN01LF-2312-DF	12/4/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C	APPL	23L0108	RHP04C-WGN01LF-2312WK2-DF	12/13/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C	SGS Orlando	FC11982	RHP04C-WGN01LF-2312WK2-DF	12/13/2023	Primary	<50	U	<96	U	<150	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	UJ	<0.4	UJ	<0.4	U
RHP04C	SGS Orlando	FC11982A	RHP04C-WGN01LF-2312WK2-DF	12/13/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C	APPL	23L0179	RHP04C-WGN01LF-2312WK3-DF	12/20/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C	SGS Orlando	FC12167	RHP04C-WGN01LF-2312WK3-DF	12/20/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U
RHP04C	APPL	23L0220	RHP04C-WGN01LF-2312WK4-DF	12/28/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C	SGS Orlando	FC12289	RHP04C-WGN01LF-2312WK4-DF	12/28/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHP04C	APPL	24A0039	RHP04C-WGN01LF-2401-DF	1/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C	SGS Anchorage	1240121_EDMS	RHP04C-WGN01LF-2401-DF	1/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C	SGS Orlando	FC12419	RHP04C-WGN01LF-2401-DF	1/5/2024	Primary	<50	U	<110	U	<180	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHP04C	SGS Orlando	FC12419B	RHP04C-WGN01LF-2401-DF	1/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C	APPL	24A0066	RHP04C-WGN01LF-2401WK2-DF	1/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C	SGS Orlando	FC12522	RHP04C-WGN01LF-2401WK2-DF	1/10/2024	Primary	41.2	J	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	UJ	<0.4	U	<0.4	U	<0.4	U
RHP04C	APPL	24A0125	RHP04C-WGN01LF-2401WK3-DF	1/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C	SGS Orlando	FC12661	RHP04C-WGN01LF-2401WK3-DF	1/17/2024	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHP04C

						Polycyclic Aromatic Hydrocarbons (PAHs)																													
					Analyte	Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)		Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)peryelene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
					CAS No.	83-32-9		208-96-8		120-12-7		56-55-3		50-32-8		205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
					Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
					DOH Tier 1 EAL	20		240		0.18		0.029		0.2		0.22		0.13		0.4		1		0.022		13		240		0.095		210		68	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHP04C	SGS Orlando	FC9543	RHP04C-WGFD01LF-2309	9/8/2023	Field Duplicate	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHP04C	SGS Orlando	FC9543	RHP04C-WGN01LF-2309	9/8/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHP04C	SGS Orlando	FC10336	RHP04C-WGFD01LF-2310	10/6/2023	Field Duplicate	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHP04C	ALS Kelso	K2311474	RHP04C-WGN01LF-2310	10/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C	Energy	B23100765	RHP04C-WGN01LF-2310	10/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C	SGS Orlando	FC10336	RHP04C-WGN01LF-2310	10/6/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHP04C	APPL	23J0126	RHP04C-WGN01LF-23Q4	10/13/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C	Energy	B23101258	RHP04C-WGN01LF-23Q4	10/13/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C	SGS Orlando	FC10488	RHP04C-WGN01LF-23Q4	10/13/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHP04C	APPL	23J0280	RHP04C-WGN01LF-2310WK4-DF	10/25/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C	SGS Orlando	FC10745	RHP04C-WGN01LF-2310WK4-DF	10/25/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHP04C	APPL	23K0012	RHP04C-WGN01LF-2310WK5-DF	11/1/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C	SGS Orlando	FC10911	RHP04C-WGN01LF-2310WK5-DF	11/1/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHP04C	APPL	23K0041	RHP04C-WGFD01LF-2311-DF	11/6/2023	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C	SGS Orlando	FC11019	RHP04C-WGFD01LF-2311-DF	11/6/2023	Field Duplicate	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHP04C	ALS Kelso	K2312628	RHP04C-WGN01LF-2311-DF	11/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C	APPL	23K0041	RHP04C-WGN01LF-2311-DF	11/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C	SGS Orlando	FC11019	RHP04C-WGN01LF-2311-DF	11/6/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHP04C	SGS Orlando	FC11019B	RHP04C-WGN01LF-2311-DF	11/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C	APPL	23K0134	RHP04C-WGN01LF-2311WK2-DF	11/15/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C	SGS Orlando	FC11293	RHP04C-WGN01LF-2311WK2-DF	11/15/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHP04C	APPL	23K0183	RHP04C-WGN01LF-2311WK3-DF	11/20/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C	SGS Orlando	FC11419	RHP04C-WGN01LF-2311WK3-DF	11/20/2023	Primary	<0.42	UJ	<0.42	UJ	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	UJ	<0.042	U	<0.42	UJ	<0.42	U
RHP04C	APPL	23K0236	RHP04C-WGN01LF-2311WK4-DF	11/29/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C	SGS Orlando	FC11596	RHP04C-WGN01LF-2311WK4-DF	11/29/2023	Primary	<0.42	UJ	<0.42	UJ	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	UJ	<0.042	U	<0.42	UJ	<0.42	U
RHP04C	APPL	23L0019	RHP04C-WGN01LF-2312-DF	12/4/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C	SGS Anchorage	1236588_EDMS	RHP04C-WGN01LF-2312-DF	12/4/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C	SGS Orlando	FC11688	RHP04C-WGN01LF-2312-DF	12/4/2023	Primary	<0.42	UJ	<0.42	UJ	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	UJ	<0.042	U	<0.42	UJ	<0.42	U
RHP04C	SGS Orlando	FC11688B	RHP04C-WGN01LF-2312-DF	12/4/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C	APPL	23L0108	RHP04C-WGN01LF-2312WK2-DF	12/13/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C	SGS Orlando	FC11982	RHP04C-WGN01LF-2312WK2-DF	12/13/2023	Primary	<0.4	UJ	<0.4	UJ	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	UJ	<0.4	UJ	<0.04	U	<0.4	UJ	<0.4	U
RHP04C	SGS Orlando	FC11982A	RHP04C-WGN01LF-2312WK2-DF	12/13/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C	APPL	23L0179	RHP04C-WGN01LF-2312WK3-DF	12/20/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C	SGS Orlando	FC12167	RHP04C-WGN01LF-2312WK3-DF	12/20/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHP04C	APPL	23L0220	RHP04C-WGN01LF-2312WK4-DF	12/28/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C	SGS Orlando	FC12289	RHP04C-WGN01LF-2312WK4-DF	12/28/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHP04C	APPL	24A0039	RHP04C-WGN01LF-2401-DF	1/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C	SGS Anchorage	1240121_EDMS	RHP04C-WGN01LF-2401-DF	1/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C	SGS Orlando	FC12419	RHP04C-WGN01LF-2401-DF	1/5/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHP04C	SGS Orlando	FC12419B	RHP04C-WGN01LF-2401-DF	1/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C	APPL	24A0066	RHP04C-WGN01LF-2401WK2-DF	1/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C	SGS Orlando	FC12522	RHP04C-WGN01LF-2401WK2-DF	1/10/2024	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHP04C	APPL	24A0125	RHP04C-WGN01LF-2401WK3-DF	1/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C	SGS Orlando	FC12661	RHP04C-WGN01LF-2401WK3-DF	1/17/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHP04C

						Fuel Additive				Lead Scavengers				Natural Attenuation Parameters					
					Analyte	2-(2- Methoxyethoxy)-ethanol [b]		Phenol		1,2-Dibromoethane		1,2-Dichloroethane		Methane		Total Organic Carbon		NV Dissolved Organic Carbon	
					CAS No.	111-77-3		108-95-2		106-93-4		107-06-2		74-82-8		TOC		—	
					Method	8270D		SW8270		8011		8260		RSK 175		9060		9060	
					DOH Tier 1 EAL	800		300		0.04		5		—		—		—	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		0.38		ND		700	
					Maximum	ND		ND		ND		ND		0.73		1100		1370	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result	
RHP04C	SGS Orlando	FC9543	RHP04C-WGFD01LF-2309	9/8/2023	Field Duplicate	–		<2	U	–		<0.5	U	–		–		–	
RHP04C	SGS Orlando	FC9543	RHP04C-WGN01LF-2309	9/8/2023	Primary	–		<2	U	–		<0.5	U	0.67		–		–	
RHP04C	SGS Orlando	FC10336	RHP04C-WGFD01LF-2310	10/6/2023	Field Duplicate	–		<1.9	U	–		<0.5	UJ	–		–		–	
RHP04C	ALS Kelso	K2311474	RHP04C-WGN01LF-2310	10/6/2023	Primary	–		–		–		–		–		<500	U	800	
RHP04C	Energy	B23100765	RHP04C-WGN01LF-2310	10/6/2023	Primary	–		–		<0.0049	U	–		–		–		–	
RHP04C	SGS Orlando	FC10336	RHP04C-WGN01LF-2310	10/6/2023	Primary	–		<1.9	U	–		<0.5	UJ	0.43	J	–		–	
RHP04C	APPL	23J0126	RHP04C-WGN01LF-23Q4	10/13/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHP04C	Energy	B23101258	RHP04C-WGN01LF-23Q4	10/13/2023	Primary	–		–		<0.0048	U	<0.1	U	–		–		–	
RHP04C	SGS Orlando	FC10488	RHP04C-WGN01LF-23Q4	10/13/2023	Primary	–		<1.9	U	–		–		0.56		590	J	–	
RHP04C	APPL	23J0280	RHP04C-WGN01LF-2310WK4-DF	10/25/2023	Primary	<80	U	–		–		–		–		–		–	
RHP04C	SGS Orlando	FC10745	RHP04C-WGN01LF-2310WK4-DF	10/25/2023	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	
RHP04C	APPL	23K0012	RHP04C-WGN01LF-2310WK5-DF	11/1/2023	Primary	<80	U	–		–		–		–		–		–	
RHP04C	SGS Orlando	FC10911	RHP04C-WGN01LF-2310WK5-DF	11/1/2023	Primary	–		<1.9	U	<0.014	U	<0.5	U	–		–		–	
RHP04C	APPL	23K0041	RHP04C-WGFD01LF-2311-DF	11/6/2023	Field Duplicate	<80	U	–		–		–		–		–		–	
RHP04C	SGS Orlando	FC11019	RHP04C-WGFD01LF-2311-DF	11/6/2023	Field Duplicate	–		<1.9	U	–		<0.5	U	–		–		–	
RHP04C	ALS Kelso	K2312628	RHP04C-WGN01LF-2311-DF	11/6/2023	Primary	–		–		–		–		–		700		700	
RHP04C	APPL	23K0041	RHP04C-WGN01LF-2311-DF	11/6/2023	Primary	<80	U	–		–		–		–		–		–	
RHP04C	SGS Orlando	FC11019	RHP04C-WGN01LF-2311-DF	11/6/2023	Primary	–		<1.9	U	<0.014	U	<0.5	U	–		–		–	
RHP04C	SGS Orlando	FC11019B	RHP04C-WGN01LF-2311-DF	11/6/2023	Primary	–		–		–		–		0.73		–		–	
RHP04C	APPL	23K0134	RHP04C-WGN01LF-2311WK2-DF	11/15/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHP04C	SGS Orlando	FC11293	RHP04C-WGN01LF-2311WK2-DF	11/15/2023	Primary	–		<1.9	U	<0.014	U	<0.5	U	–		–		–	
RHP04C	APPL	23K0183	RHP04C-WGN01LF-2311WK3-DF	11/20/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHP04C	SGS Orlando	FC11419	RHP04C-WGN01LF-2311WK3-DF	11/20/2023	Primary	–		<2	U	<0.014	U	<0.5	UJ	–		–		–	
RHP04C	APPL	23K0236	RHP04C-WGN01LF-2311WK4-DF	11/29/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHP04C	SGS Orlando	FC11596	RHP04C-WGN01LF-2311WK4-DF	11/29/2023	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	
RHP04C	APPL	23L0019	RHP04C-WGN01LF-2312-DF	12/4/2023	Primary	<80	U	–		–		–		–		–		–	
RHP04C	SGS Anchorage	1236588_EDMS	RHP04C-WGN01LF-2312-DF	12/4/2023	Primary	–		–		–		–		–		963	J+	1370	J+
RHP04C	SGS Orlando	FC11688	RHP04C-WGN01LF-2312-DF	12/4/2023	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	
RHP04C	SGS Orlando	FC11688B	RHP04C-WGN01LF-2312-DF	12/4/2023	Primary	–		–		–		–		0.66		–		–	
RHP04C	APPL	23L0108	RHP04C-WGN01LF-2312WK2-DF	12/13/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHP04C	SGS Orlando	FC11982	RHP04C-WGN01LF-2312WK2-DF	12/13/2023	Primary	–		<1.9	U	–		<0.5	U	–		–		–	
RHP04C	SGS Orlando	FC11982A	RHP04C-WGN01LF-2312WK2-DF	12/13/2023	Primary	–		–		<0.015	U	–		–		–		–	
RHP04C	APPL	23L0179	RHP04C-WGN01LF-2312WK3-DF	12/20/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHP04C	SGS Orlando	FC12167	RHP04C-WGN01LF-2312WK3-DF	12/20/2023	Primary	–		<1.9	U	<0.014	U	<0.5	U	–		–		–	
RHP04C	APPL	23L0220	RHP04C-WGN01LF-2312WK4-DF	12/28/2023	Primary	<80	U	–		–		–		–		–		–	
RHP04C	SGS Orlando	FC12289	RHP04C-WGN01LF-2312WK4-DF	12/28/2023	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	
RHP04C	APPL	24A0039	RHP04C-WGN01LF-2401-DF	1/5/2024	Primary	<80	UJ	–		–		–		–		–		–	
RHP04C	SGS Anchorage	1240121_EDMS	RHP04C-WGN01LF-2401-DF	1/5/2024	Primary	–		–		–		–		–		1100		1100	
RHP04C	SGS Orlando	FC12419	RHP04C-WGN01LF-2401-DF	1/5/2024	Primary	–		<2	U	<0.014	UJ	<0.5	U	–		–		–	
RHP04C	SGS Orlando	FC12419B	RHP04C-WGN01LF-2401-DF	1/5/2024	Primary	–		–		–		–		0.38	J	–		–	
RHP04C	APPL	24A0066	RHP04C-WGN01LF-2401WK2-DF	1/10/2024	Primary	<80	UJ	–		–		–		–		–		–	
RHP04C	SGS Orlando	FC12522	RHP04C-WGN01LF-2401WK2-DF	1/10/2024	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	
RHP04C	APPL	24A0125	RHP04C-WGN01LF-2401WK3-DF	1/17/2024	Primary	<80	UJ	–		–		–		–		–		–	
RHP04C	SGS Orlando	FC12661	RHP04C-WGN01LF-2401WK3-DF	1/17/2024	Primary	–		<2	U	<0.015	U	<0.5	U	–		–		–	

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHP05

						Total Petroleum Hydrocarbons										Volatile Organic Compounds								Polycyclic Aromatic Hydrocarbons (PAHs) – AOC/LTM					
					Analyte	TPH-g		TPH-d [a]		TPH-o [a]		TPH-d with Silica Gel Cleanup [a]		TPH-o with Silica Gel Cleanup [a]		Benzene		Ethylbenzene		Toluene		Xylenes		1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene	
					CAS No.	PHCC6C10		PHCC10C24		PHCC24C40		PHCC10C24SGC		PHCC24C40SGC		71-43-2		100-41-4		108-88-3		1330-20-7		90-12-0		91-57-6		91-20-3	
					Method	8260		8015		8015		8015		8015		8260		8260		8260		8260		8270 SIM		8270 SIM		8270 SIM	
					DOH Tier 1 EAL	300		400		500		—		—		5		30		40		20		10		10		17	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
					Maximum	44.7		135		108		112		97.1		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHP05	SGS Orlando	FC9543	RHP05-WGN01LF-2309	9/8/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHP05	ALS Kelso	K2311233	RHP05-WGN01LF-2310	10/2/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP05	Energy	B23100338	RHP05-WGN01LF-2310	10/2/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP05	SGS Orlando	FC10161	RHP05-WGN01LF-2310	10/2/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U
RHP05	APPL	23J0126	RHP05-WGN01LF-23Q4	10/13/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP05	Energy	B23101258	RHP05-WGN01LF-23Q4	10/13/2023	Primary	<8.5	U	<140	U	<140	U	–		–		<0.1	U	<0.1	U	<0.2	U	<0.1	U	–		–		–	
RHP05	SGS Orlando	FC10488	RHP05-WGN01LF-23Q4	10/13/2023	Primary	–		–		–		–		–		–		–		–		–		<0.4	U	<0.4	U	<0.4	U
RHP05	APPL	23J0296	RHP05-WGN01LF-2310WK4-DF	10/26/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP05	SGS Orlando	FC10788	RHP05-WGN01LF-2310WK4-DF	10/26/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	UJ	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U
RHP05	APPL	23K0019	RHP05-WGN01LF-2310WK5-DF	11/2/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP05	SGS Orlando	FC10943	RHP05-WGN01LF-2310WK5-DF	11/2/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U
RHP05	ALS Kelso	K2312749	RHP05-WGN01LF-2311-DF	11/8/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP05	APPL	23K0068	RHP05-WGN01LF-2311-DF	11/8/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP05	SGS Orlando	FC11097	RHP05-WGN01LF-2311-DF	11/8/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	UJ	<0.42	U	<0.42	U
RHP05	SGS Orlando	FC11097B	RHP05-WGN01LF-2311-DF	11/8/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP05	APPL	23K0134	RHP05-WGN01LF-2311WK2-DF	11/15/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP05	SGS Orlando	FC11293	RHP05-WGN01LF-2311WK2-DF	11/15/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHP05	APPL	23K0214	RHP05-WGN01LF-2311WK3-DF	11/22/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP05	SGS Orlando	FC11474	RHP05-WGN01LF-2311WK3-DF	11/22/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	UJ	<0.42	UJ	<0.42	U
RHP05	APPL	23K0236	RHP05-WGN01LF-2311WK4-DF	11/29/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP05	SGS Orlando	FC11596	RHP05-WGN01LF-2311WK4-DF	11/29/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	UJ	<0.42	UJ	<0.42	U
RHP05	APPL	23L0035	RHP05-WGN01LF-2312-DF	12/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP05	SGS Anchorage	1236637_EDMS	RHP05-WGN01LF-2312-DF	12/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP05	SGS Orlando	FC11754	RHP05-WGN01LF-2312-DF	12/6/2023	Primary	44.7	J	135	J	92.7	J	112	J	<160	U	<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	UJ	<0.42	UJ	<0.42	U
RHP05	SGS Orlando	FC11754B	RHP05-WGN01LF-2312-DF	12/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP05	APPL	23L0108	RHP05-WGN01LF-2312WK2-DF	12/13/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP05	SGS Orlando	FC11982	RHP05-WGN01LF-2312WK2-DF	12/13/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	UJ	<0.4	UJ	<0.4	U
RHP05	SGS Orlando	FC11982A	RHP05-WGN01LF-2312WK2-DF	12/13/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP05	APPL	23L0179	RHP05-WGN01LF-2312WK3-DF	12/20/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP05	SGS Orlando	FC12167	RHP05-WGN01LF-2312WK3-DF	12/20/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHP05	APPL	23L0220	RHP05-WGN01LF-2312WK4-DF	12/28/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP05	SGS Orlando	FC12289	RHP05-WGN01LF-2312WK4-DF	12/28/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHP05	APPL	24A0022	RHP05-WGN01LF-2401-DF	1/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP05	SGS Anchorage	1240064_EDMS	RHP05-WGN01LF-2401-DF	1/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP05	SGS Orlando	FC12382	RHP05-WGN01LF-2401-DF	1/3/2024	Primary	<50	U	80.8	J	108	J	<96	U	97.1	J	<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U
RHP05	SGS Orlando	FC12382B	RHP05-WGN01LF-2401-DF	1/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP05	APPL	24A0066	RHP05-WGN01LF-2401WK2-DF	1/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP05	SGS Orlando	FC12522	RHP05-WGN01LF-2401WK2-DF	1/10/2024	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U
RHP05	APPL	24A0125	RHP05-WGN01LF-2401WK3-DF	1/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP05	SGS Orlando	FC12661	RHP05-WGN01LF-2401WK3-DF	1/17/2024	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHP05

						Polycyclic Aromatic Hydrocarbons (PAHs)																													
					Analyte	Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)		Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)peryelene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
					CAS No.	83-32-9		208-96-8		120-12-7		56-55-3		50-32-8		205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
					Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
					DOH Tier 1 EAL	20		240		0.18		0.029		0.2		0.22		0.13		0.4		.1		0.022		13		240		0.095		210		68	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHP05	SGS Orlando	FC9543	RHP05-WGN01LF-2309	9/8/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHP05	ALS Kelso	K2311233	RHP05-WGN01LF-2310	10/2/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP05	Energy	B23100338	RHP05-WGN01LF-2310	10/2/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP05	SGS Orlando	FC10161	RHP05-WGN01LF-2310	10/2/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHP05	APPL	23J0126	RHP05-WGN01LF-23Q4	10/13/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP05	Energy	B23101258	RHP05-WGN01LF-23Q4	10/13/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP05	SGS Orlando	FC10488	RHP05-WGN01LF-23Q4	10/13/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHP05	APPL	23J0296	RHP05-WGN01LF-2310WK4-DF	10/26/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP05	SGS Orlando	FC10788	RHP05-WGN01LF-2310WK4-DF	10/26/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHP05	APPL	23K0019	RHP05-WGN01LF-2310WK5-DF	11/2/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP05	SGS Orlando	FC10943	RHP05-WGN01LF-2310WK5-DF	11/2/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHP05	ALS Kelso	K2312749	RHP05-WGN01LF-2311-DF	11/8/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP05	APPL	23K0066	RHP05-WGN01LF-2311-DF	11/8/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP05	SGS Orlando	FC11097	RHP05-WGN01LF-2311-DF	11/8/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHP05	SGS Orlando	FC11097B	RHP05-WGN01LF-2311-DF	11/8/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP05	APPL	23K0134	RHP05-WGN01LF-2311WK2-DF	11/15/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP05	SGS Orlando	FC11293	RHP05-WGN01LF-2311WK2-DF	11/15/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHP05	APPL	23K0214	RHP05-WGN01LF-2311WK3-DF	11/22/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP05	SGS Orlando	FC11474	RHP05-WGN01LF-2311WK3-DF	11/22/2023	Primary	<0.42	UJ	<0.42	UJ	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	UJ	<0.042	U	<0.42	UJ	<0.42	U
RHP05	APPL	23K0236	RHP05-WGN01LF-2311WK4-DF	11/29/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP05	SGS Orlando	FC11596	RHP05-WGN01LF-2311WK4-DF	11/29/2023	Primary	<0.42	UJ	<0.42	UJ	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	UJ	<0.042	U	<0.42	UJ	<0.42	U
RHP05	APPL	23L0035	RHP05-WGN01LF-2312-DF	12/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP05	SGS Anchorage	1236637_EDMS	RHP05-WGN01LF-2312-DF	12/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP05	SGS Orlando	FC11754	RHP05-WGN01LF-2312-DF	12/6/2023	Primary	<0.42	UJ	<0.42	UJ	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	UJ	<0.042	U	<0.42	UJ	<0.42	U
RHP05	SGS Orlando	FC11754B	RHP05-WGN01LF-2312-DF	12/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP05	APPL	23L0108	RHP05-WGN01LF-2312WK2-DF	12/13/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP05	SGS Orlando	FC11982	RHP05-WGN01LF-2312WK2-DF	12/13/2023	Primary	<0.4	UJ	<0.4	UJ	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	UJ	<0.4	UJ	<0.04	U	<0.4	UJ	<0.4	U
RHP05	SGS Orlando	FC11982A	RHP05-WGN01LF-2312WK2-DF	12/13/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP05	APPL	23L0179	RHP05-WGN01LF-2312WK3-DF	12/20/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP05	SGS Orlando	FC12167	RHP05-WGN01LF-2312WK3-DF	12/20/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHP05	APPL	23L0220	RHP05-WGN01LF-2312WK4-DF	12/28/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP05	SGS Orlando	FC12289	RHP05-WGN01LF-2312WK4-DF	12/28/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHP05	APPL	24A0022	RHP05-WGN01LF-2401-DF	1/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP05	SGS Anchorage	1240064_EDMS	RHP05-WGN01LF-2401-DF	1/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP05	SGS Orlando	FC12382	RHP05-WGN01LF-2401-DF	1/3/2024	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHP05	SGS Orlando	FC12382B	RHP05-WGN01LF-2401-DF	1/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP05	APPL	24A0066	RHP05-WGN01LF-2401WK2-DF	1/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP05	SGS Orlando	FC12522	RHP05-WGN01LF-2401WK2-DF	1/10/2024	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHP05	APPL	24A0125	RHP05-WGN01LF-2401WK3-DF	1/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP05	SGS Orlando	FC12861	RHP05-WGN01LF-2401WK3-DF	1/17/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHP05

						Fuel Additive				Lead Scavengers				Natural Attenuation Parameters					
					Analyte	2-(2- Methoxyethoxy)-ethanol [b]		Phenol		1,2-Dibromoethane		1,2-Dichloroethane		Methane		Total Organic Carbon		NV Dissolved Organic Carbon	
					CAS No.	111-77-3		108-95-2		106-93-4		107-06-2		74-82-8		TOC		—	
					Method	8270D		SW8270		8011		8260		RSK 175		9060		9060	
					DOH Tier 1 EAL	800		300		0.04		5		—		—		—	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		ND		ND		3930		1430	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result	
RHP05	SGS Orlando	FC9543	RHP05-WGN01LF-2309	9/8/2023	Primary	–		<2	U	–		<0.5	U	<0.25	U	–		–	
RHP05	ALS Kelso	K2311233	RHP05-WGN01LF-2310	10/2/2023	Primary	–		–		–		–		–		<500	U	<500	U
RHP05	Energy	B23100338	RHP05-WGN01LF-2310	10/2/2023	Primary	–		–		<0.0049	U	–		–		–		–	
RHP05	SGS Orlando	FC10161	RHP05-WGN01LF-2310	10/2/2023	Primary	–		<1.9	U	–		<0.5	U	<0.25	U	–		–	
RHP05	APPL	23J0126	RHP05-WGN01LF-23Q4	10/13/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHP05	Energy	B23101258	RHP05-WGN01LF-23Q4	10/13/2023	Primary	–		–		<0.0047	U	<0.1	U	–		–		–	
RHP05	SGS Orlando	FC10488	RHP05-WGN01LF-23Q4	10/13/2023	Primary	–		<1.9	U	–		–		<0.25	U	540	J-	–	
RHP05	APPL	23J0296	RHP05-WGN01LF-2310WK4-DF	10/26/2023	Primary	<80	U	–		–		–		–		–		–	
RHP05	SGS Orlando	FC10788	RHP05-WGN01LF-2310WK4-DF	10/26/2023	Primary	–		<1.9	U	<0.014	U	<0.5	U	–		–		–	
RHP05	APPL	23K0019	RHP05-WGN01LF-2310WK5-DF	11/2/2023	Primary	<80	U	–		–		–		–		–		–	
RHP05	SGS Orlando	FC10943	RHP05-WGN01LF-2310WK5-DF	11/2/2023	Primary	–		<1.9	U	<0.014	U	<0.5	U	–		–		–	
RHP05	ALS Kelso	K2312749	RHP05-WGN01LF-2311-DF	11/8/2023	Primary	–		–		–		–		–		<500	U	<500	U
RHP05	APPL	23K0068	RHP05-WGN01LF-2311-DF	11/8/2023	Primary	<80	U	–		–		–		–		–		–	
RHP05	SGS Orlando	FC11097	RHP05-WGN01LF-2311-DF	11/8/2023	Primary	–		<1.9	U	<0.014	U	<0.5	U	–		–		–	
RHP05	SGS Orlando	FC11097B	RHP05-WGN01LF-2311-DF	11/8/2023	Primary	–		–		–		–		<0.25	U	–		–	
RHP05	APPL	23K0134	RHP05-WGN01LF-2311WK2-DF	11/15/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHP05	SGS Orlando	FC11293	RHP05-WGN01LF-2311WK2-DF	11/15/2023	Primary	–		<1.9	U	<0.014	U	<0.5	U	–		–		–	
RHP05	APPL	23K0214	RHP05-WGN01LF-2311WK3-DF	11/22/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHP05	SGS Orlando	FC11474	RHP05-WGN01LF-2311WK3-DF	11/22/2023	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	
RHP05	APPL	23K0236	RHP05-WGN01LF-2311WK4-DF	11/29/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHP05	SGS Orlando	FC11596	RHP05-WGN01LF-2311WK4-DF	11/29/2023	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	
RHP05	APPL	23L0035	RHP05-WGN01LF-2312-DF	12/6/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHP05	SGS Anchorage	1236637_EDMS	RHP05-WGN01LF-2312-DF	12/6/2023	Primary	–		–		–		–		–		3930		1430	J+
RHP05	SGS Orlando	FC11754	RHP05-WGN01LF-2312-DF	12/6/2023	Primary	–		<1.9	U	<0.014	U	<0.5	U	–		–		–	
RHP05	SGS Orlando	FC11754B	RHP05-WGN01LF-2312-DF	12/6/2023	Primary	–		–		–		–		<0.25	U	–		–	
RHP05	APPL	23L0108	RHP05-WGN01LF-2312WK2-DF	12/13/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHP05	SGS Orlando	FC11982	RHP05-WGN01LF-2312WK2-DF	12/13/2023	Primary	–		<2	U	–		<0.5	U	–		–		–	
RHP05	SGS Orlando	FC11982A	RHP05-WGN01LF-2312WK2-DF	12/13/2023	Primary	–		–		<0.015	U	–		–		–		–	
RHP05	APPL	23L0179	RHP05-WGN01LF-2312WK3-DF	12/20/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHP05	SGS Orlando	FC12167	RHP05-WGN01LF-2312WK3-DF	12/20/2023	Primary	–		<1.9	U	<0.014	U	<0.5	U	–		–		–	
RHP05	APPL	23L0220	RHP05-WGN01LF-2312WK4-DF	12/28/2023	Primary	<80	U	–		–		–		–		–		–	
RHP05	SGS Orlando	FC12289	RHP05-WGN01LF-2312WK4-DF	12/28/2023	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	
RHP05	APPL	24A0022	RHP05-WGN01LF-2401-DF	1/3/2024	Primary	<80	UJ	–		–		–		–		–		–	
RHP05	SGS Anchorage	1240064_EDMS	RHP05-WGN01LF-2401-DF	1/3/2024	Primary	–		–		–		–		–		1810		851	J+
RHP05	SGS Orlando	FC12382	RHP05-WGN01LF-2401-DF	1/3/2024	Primary	–		<1.9	U	<0.014	U	<0.5	U	–		–		–	
RHP05	SGS Orlando	FC12382B	RHP05-WGN01LF-2401-DF	1/3/2024	Primary	–		–		–		–		<0.25	U	–		–	
RHP05	APPL	24A0066	RHP05-WGN01LF-2401WK2-DF	1/10/2024	Primary	<80	UJ	–		–		–		–		–		–	
RHP05	SGS Orlando	FC12522	RHP05-WGN01LF-2401WK2-DF	1/10/2024	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	
RHP05	APPL	24A0125	RHP05-WGN01LF-2401WK3-DF	1/17/2024	Primary	<80	UJ	–		–		–		–		–		–	
RHP05	SGS Orlando	FC12661	RHP05-WGN01LF-2401WK3-DF	1/17/2024	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHP06

						Total Petroleum Hydrocarbons										Volatile Organic Compounds								Polycyclic Aromatic Hydrocarbons (PAHs) – AOC/LTM							
					Analyte	TPH-g		TPH-d [a]		TPH-o [a]		TPH-d with Silica Gel Cleanup [a]	TPH-o with Silica Gel Cleanup [a]			Benzene		Ethylbenzene		Toluene		Xylenes		1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene	
					CAS No.	PHCC6C10		PHCC10C24		PHCC24C40		PHCC10C24SGC	PHCC24C40SGC			71-43-2		100-41-4		108-88-3		1330-20-7		90-12-0		91-57-6		91-20-3		
					Method	8260		8015		8015		8015	8015			8260		8260		8260		8260		8270 SIM		8270 SIM		8270 SIM		
					DOH Tier 1 EAL	300		400		500		—	—			5		30		40		20		10		10		17		
					Units	µg/L		µg/L		µg/L		µg/L	µg/L			µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		
					Minimum	ND		ND		ND		–	–			ND		ND		ND		ND		ND		ND		ND		
					Maximum	ND		ND		ND		–	–			ND		ND		ND		ND		ND		ND		ND		
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result	Result			Result		Result		Result		Result		Result		Result		Result		
RHP06	SGS Orlando	FC9446	RHP06-WGFD01LF-2309	9/7/2023	Field Duplicate	<50	U	<100	U	<160	U	–	–			<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U	
RHP06	SGS Orlando	FC9446	RHP06-WGN01LF-2309	9/7/2023	Primary	<50	U	<100	U	<170	U	–	–			<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.38	U	<0.38	U	<0.38	U	
RHP06	SGS Orlando	FC10161	RHP06-WGFD01LF-2310	10/2/2023	Field Duplicate	<50	U	<100	U	<160	U	–	–			<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U	
RHP06	ALS Kelso	K2311233	RHP06-WGN01LF-2310	10/2/2023	Primary	–		–		–		–	–			–		–		–		–		–		–		–		
RHP06	Energy	B23100338	RHP06-WGN01LF-2310	10/2/2023	Primary	–		–		–		–	–			–		–		–		–		–		–		–		
RHP06	SGS Orlando	FC10161	RHP06-WGN01LF-2310	10/2/2023	Primary	<50	U	<100	U	<160	U	–	–			<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U	
RHP06	APPL	23J0132	RHP06-WGFD01LF-23Q4	10/11/2023	Field Duplicate	–		–		–		–	–			–		–		–		–		–		–		–		
RHP06	Energy	B23101127	RHP06-WGFD01LF-23Q4	10/11/2023	Field Duplicate	<8.5	UJ	<142	UJ	<142	UJ	–	–			<0.1	UJ	<0.1	UJ	<0.2	UJ	<0.1	UJ	–		–		–		
RHP06	SGS Orlando	FC10442	RHP06-WGFD01LF-23Q4	10/11/2023	Field Duplicate	–		–		–		–	–			–		–		–		–		<0.4	U	<0.4	U	<0.4	U	
RHP06	APPL	23J0132	RHP06-WGN01LF-23Q4	10/11/2023	Primary	–		–		–		–	–			–		–		–		–		–		–		–		
RHP06	Energy	B23101127	RHP06-WGN01LF-23Q4	10/11/2023	Primary	<8.5	UJ	<140	UJ	<140	UJ	–	–			<0.1	UJ	<0.1	UJ	<0.2	UJ	<0.1	UJ	–		–		–		
RHP06	SGS Orlando	FC10442	RHP06-WGN01LF-23Q4	10/11/2023	Primary	–		–		–		–	–			–		–		–		–		<0.4	U	<0.4	U	<0.4	U	
RHP06	APPL	23J0313	RHP06-WGFD01LF-2310WK4-DF	10/27/2023	Field Duplicate	–		–		–		–	–			–		–		–		–		–		–		–		
RHP06	SGS Orlando	FC10809	RHP06-WGFD01LF-2310WK4-DF	10/27/2023	Field Duplicate	<50	U	<96	U	<150	U	–	–			<0.5	UJ	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U	
RHP06	APPL	23J0313	RHP06-WGN01LF-2310WK4-DF	10/27/2023	Primary	–		–		–		–	–			–		–		–		–		–		–		–		
RHP06	SGS Orlando	FC10809	RHP06-WGN01LF-2310WK4-DF	10/27/2023	Primary	<50	U	<100	U	<160	U	–	–			<0.5	UJ	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U	
RHP06	APPL	23K0019	RHP06-WGFD01LF-2310WK5-DF	11/2/2023	Field Duplicate	–		–		–		–	–			–		–		–		–		–		–		–		
RHP06	SGS Orlando	FC10943	RHP06-WGFD01LF-2310WK5-DF	11/2/2023	Field Duplicate	<50	U	<100	U	<160	U	–	–			<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U	
RHP06	APPL	23K0019	RHP06-WGN01LF-2310WK5-DF	11/2/2023	Primary	–		–		–		–	–			–		–		–		–		–		–		–		
RHP06	SGS Orlando	FC10943	RHP06-WGN01LF-2310WK5-DF	11/2/2023	Primary	<50	U	<100	U	<160	U	–	–			<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U	
RHP06	ALS Kelso	K2312749	RHP06-WGN01LF-2311-DF	11/8/2023	Primary	–		–		–		–	–			–		–		–		–		–		–		–		
RHP06	APPL	23K0068	RHP06-WGN01LF-2311-DF	11/8/2023	Primary	–		–		–		–	–			–		–		–		–		–		–		–		
RHP06	SGS Orlando	FC11097	RHP06-WGN01LF-2311-DF	11/8/2023	Primary	<50	U	<100	U	<170	U	–	–			<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	UJ	<0.42	U	<0.42	U	
RHP06	SGS Orlando	FC11097B	RHP06-WGN01LF-2311-DF	11/8/2023	Primary	–		–		–		–	–			–		–		–		–		–		–		–		
RHP06	APPL	23K0134	RHP06-WGFD01LF-2311WK2-DF	11/15/2023	Field Duplicate	–		–		–		–	–			–		–		–		–		–		–		–		
RHP06	SGS Orlando	FC11293	RHP06-WGFD01LF-2311WK2-DF	11/15/2023	Field Duplicate	<50	U	<100	U	<170	U	–	–			<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U	
RHP06	APPL	23K0134	RHP06-WGN01LF-2311WK2-DF	11/15/2023	Primary	–		–		–		–	–			–		–		–		–		–		–		–		
RHP06	SGS Orlando	FC11293	RHP06-WGN01LF-2311WK2-DF	11/15/2023	Primary	<50	U	<100	U	<170	U	–	–			<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U	
RHP06	APPL	23K0214	RHP06-WGFD01LF-2311WK3-DF	11/22/2023	Field Duplicate	–		–		–		–	–			–		–		–		–		–		–		–		
RHP06	SGS Orlando	FC11474	RHP06-WGFD01LF-2311WK3-DF	11/22/2023	Field Duplicate	<50	U	<100	U	<170	U	–	–			<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	UJ	<0.42	UJ	<0.42	U	
RHP06	APPL	23K0214	RHP06-WGN01LF-2311WK3-DF	11/22/2023	Primary	–		–		–		–	–			–		–		–		–		–		–		–		
RHP06	SGS Orlando	FC11474	RHP06-WGN01LF-2311WK3-DF	11/22/2023	Primary	<50	U	<100	U	<170	U	–	–			<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	UJ	<0.42	UJ	<0.42	U	
RHP06	APPL	23K0236	RHP06-WGFD01LF-2311WK4-DF	11/29/2023	Field Duplicate	–		–		–		–	–			–		–		–		–		–		–		–		
RHP06	SGS Orlando	FC11596	RHP06-WGFD01LF-2311WK4-DF	11/29/2023	Field Duplicate	<50	U	<100	U	<160	U	–	–			<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	UJ	<0.42	UJ	<0.42	U	
RHP06	APPL	23K0236	RHP06-WGN01LF-2311WK4-DF	11/29/2023	Primary	–		–		–		–	–			–		–		–		–		–		–		–		
RHP06	SGS Orlando	FC11596	RHP06-WGN01LF-2311WK4-DF	11/29/2023	Primary	<50	U	<100	U	<160	U	–	–			<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	UJ	<0.4	UJ	<0.4	U	
RHP06	APPL	23L0035	RHP06-WGN01LF-2312-DF	12/6/2023	Primary	–		–		–		–	–			–		–		–		–		–		–		–		
RHP06	SGS Anchorage	1236637_EDMS	RHP06-WGN01LF-2312-DF	12/6/2023	Primary	–		–		–		–	–			–		–		–		–		–		–		–		
RHP06	SGS Orlando	FC11754	RHP06-WGN01LF-2312-DF	12/6/2023	Primary	<50	U	<100	U	<160	U	–	–			<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	UJ	<0.42	UJ	<0.42	U	
RHP06	SGS Orlando	FC11754B	RHP06-WGN01LF-2312-DF	12/6/2023	Primary	–		–		–		–	–			–		–		–		–		–		–		–		
RHP06	APPL	23L0108	RHP06-WGN01LF-2312WK2-DF	12/13/2023	Primary	–		–		–		–	–			–		–		–		–		–		–		–		
RHP06	SGS Orlando	FC11982	RHP06-WGN01LF-2312WK2-DF	12/13/2023	Primary	<50	U	<100	U	<170	U	–	–			<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	UJ	<0.4	UJ	<0.4	U	
RHP06	SGS Orlando	FC11982A	RHP06-WGN01LF-2312WK2-DF	12/13/2023	Primary	–		–		–		–	–			–		–		–		–		–		–		–		
RHP06	APPL	23L0179	RHP06-WGN01LF-2312WK3-DF	12/20/2023	Primary	–		–		–		–	–			–		–		–		–		–		–		–		
RHP06	SGS Orlando	FC12167	RHP06-WGN01LF-2312WK3-DF	12/20/2023	Primary	<50	U	<100	U	<170	U	–	–			<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U	
RHP06	APPL	23L0220	RHP06-WGN01LF-2312WK4-DF	12/28/2023	Primary	–		–		–		–	–			–		–		–		–		–		–		–		
RHP06	SGS Orlando	FC12289	RHP06-WGN01LF-2312WK4-DF	12/28/2023	Primary	<50	U	<100	U	<170	U	–	–			<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U	
RHP06	APPL	24A0008	RHP06-WGN01LF-2401-DF	1/2/2024	Primary	–		–		–		–	–			–		–		–		–		–		–		–		
RHP06	SGS Anchorage	1240028_EDMS	RHP06-WGN01LF-2401-DF	1/2/2024	Primary	–		–		–		–	–			–		–		–		–		–		–		–		
RHP06	SGS Orlando	FC12338	RHP06-WGN01LF-2401-DF	1/2/2024	Primary	<50	U	<100	U	<160	U	–	–			<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U	
RHP06	SGS Orlando	FC12338B	RHP06-WGN01LF-2401-DF	1/2/2024	Primary	–		–		–		–	–			–		–		–		–		–		–		–		
RHP06	APPL	24A0050	RHP06-WGN01LF-2401WK2-DF	1/8/2024	Primary	–		–		–		–	–			–		–		–		–		–		–		–		
RHP06	SGS Orlando	FC12452	RHP06-WGN01LF-2401WK2-DF	1/8/2024	Primary	<50	U	<100	U	<170	U	–	–			<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U	
RHP06	APPL	24A0125	RHP06-WGN01LF-2401WK3-DF	1/17/2024	Primary	–		–		–		–	–			–		–		–		–		–		–		–		
RHP06	SGS Orlando	FC12661	RHP06-WGN01LF-2401WK3-DF	1/17/2024	Primary	<50	U	<100	U	<170	U	–	–			<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U	

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHP06

						Polycyclic Aromatic Hydrocarbons (PAHs)																											
					Analyte	Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)		Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)peryelene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
					CAS No.	83-32-9		208-96-8		120-12-7		56-55-3		50-32-8		205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
					Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
					DOH Tier 1 EAL	20		240		0.18		0.029		0.2		0.22		0.13		0.4		1		0.022		13		240		0.095		210		68	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHP06	SGS Orlando	FC9446	RHP06-WGFD01LF-2309	9/7/2023	Field Duplicate	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHP06	SGS Orlando	FC9446	RHP06-WGN01LF-2309	9/7/2023	Primary	<0.38	U	<0.38	U	<0.38	U	<0.038	U	<0.038	U	<0.038	U	<0.038	U	<0.038	U	<0.077	U	<0.038	U	<0.38	U	<0.38	U	<0.038	U	<0.38	U	<0.38	U
RHP06	SGS Orlando	FC10161	RHP06-WGFD01LF-2310	10/2/2023	Field Duplicate	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHP06	ALS Kelso	K2311233	RHP06-WGN01LF-2310	10/2/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06	Energy	B23100338	RHP06-WGN01LF-2310	10/2/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06	SGS Orlando	FC10161	RHP06-WGN01LF-2310	10/2/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHP06	APPL	23J0132	RHP06-WGFD01LF-23Q4	10/11/2023	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06	Energy	B23101127	RHP06-WGFD01LF-23Q4	10/11/2023	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06	SGS Orlando	FC10442	RHP06-WGFD01LF-23Q4	10/11/2023	Field Duplicate	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHP06	APPL	23J0132	RHP06-WGN01LF-23Q4	10/11/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06	Energy	B23101127	RHP06-WGN01LF-23Q4	10/11/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06	SGS Orlando	FC10442	RHP06-WGN01LF-23Q4	10/11/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHP06	APPL	23J0313	RHP06-WGFD01LF-2310WK4-DF	10/27/2023	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06	SGS Orlando	FC10809	RHP06-WGFD01LF-2310WK4-DF	10/27/2023	Field Duplicate	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHP06	APPL	23J0313	RHP06-WGN01LF-2310WK4-DF	10/27/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06	SGS Orlando	FC10809	RHP06-WGN01LF-2310WK4-DF	10/27/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHP06	APPL	23K0019	RHP06-WGFD01LF-2310WK5-DF	11/2/2023	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06	SGS Orlando	FC10943	RHP06-WGFD01LF-2310WK5-DF	11/2/2023	Field Duplicate	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHP06	APPL	23K0019	RHP06-WGN01LF-2310WK5-DF	11/2/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06	SGS Orlando	FC10943	RHP06-WGN01LF-2310WK5-DF	11/2/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHP06	ALS Kelso	K2312749	RHP06-WGN01LF-2311-DF	11/8/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06	APPL	23K0068	RHP06-WGN01LF-2311-DF	11/8/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06	SGS Orlando	FC11097	RHP06-WGN01LF-2311-DF	11/8/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHP06	SGS Orlando	FC11097B	RHP06-WGN01LF-2311-DF	11/8/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06	APPL	23K0134	RHP06-WGFD01LF-2311WK2-DF	11/15/2023	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06	SGS Orlando	FC11293	RHP06-WGFD01LF-2311WK2-DF	11/15/2023	Field Duplicate	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHP06	APPL	23K0134	RHP06-WGN01LF-2311WK2-DF	11/15/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06	SGS Orlando	FC11293	RHP06-WGN01LF-2311WK2-DF	11/15/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHP06	APPL	23K0214	RHP06-WGFD01LF-2311WK3-DF	11/22/2023	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06	SGS Orlando	FC11474	RHP06-WGFD01LF-2311WK3-DF	11/22/2023	Field Duplicate	<0.42	UJ	<0.42	UJ	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	UJ	<0.042	U	<0.42	UJ	<0.42	U
RHP06	APPL	23K0214	RHP06-WGN01LF-2311WK3-DF	11/22/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06	SGS Orlando	FC11474	RHP06-WGN01LF-2311WK3-DF	11/22/2023	Primary	<0.42	UJ	<0.42	UJ	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	UJ	<0.042	U	<0.42	UJ	<0.42	U
RHP06	APPL	23K0236	RHP06-WGFD01LF-2311WK4-DF	11/29/2023	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06	SGS Orlando	FC11596	RHP06-WGFD01LF-2311WK4-DF	11/29/2023	Field Duplicate	<0.42	UJ	<0.42	UJ	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	UJ	<0.042	U	<0.42	UJ	<0.42	U
RHP06	APPL	23K0236	RHP06-WGN01LF-2311WK4-DF	11/29/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06	SGS Orlando	FC11596	RHP06-WGN01LF-2311WK4-DF	11/29/2023	Primary	<0.4	UJ	<0.4	UJ	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	UJ	<0.4	UJ	<0.04	U	<0.4	UJ	<0.4	U
RHP06	APPL	23L0035	RHP06-WGN01LF-2312-DF	12/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06	SGS Anchorage	1236637_EDMS	RHP06-WGN01LF-2312-DF	12/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06	SGS Orlando	FC11754	RHP06-WGN01LF-2312-DF	12/6/2023	Primary	<0.42	UJ	<0.42	UJ	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	UJ	<0.042	U	<0.42	UJ	<0.42	U
RHP06	SGS Orlando	FC11754B	RHP06-WGN01LF-2312-DF	12/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06	APPL	23L0108	RHP06-WGN01LF-2312WK2-DF	12/13/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06	SGS Orlando	FC11982	RHP06-WGN01LF-2312WK2-DF	12/13/2023	Primary	<0.4	UJ	<0.4	UJ	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	UJ	<0.4	UJ	<0.04	U	<0.4	UJ	<0.4	U
RHP06	SGS Orlando	FC11982A	RHP06-WGN01LF-2312WK2-DF	12/13/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06	APPL	23L0179	RHP06-WGN01LF-2312WK3-DF	12/20/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06	SGS Orlando	FC12167	RHP06-WGN01LF-2312WK3-DF	12/20/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHP06	APPL	23L0220	RHP06-WGN01LF-2312WK4-DF	12/28/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06	SGS Orlando	FC12289	RHP06-WGN01LF-2312WK4-DF	12/28/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHP06	APPL	24A0008	RHP06-WGN01LF-2401-DF	1/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06	SGS Anchorage	1240028_EDMS	RHP06-WGN01LF-2401-DF	1/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06	SGS Orlando	FC12338	RHP06-WGN01LF-2401-DF	1/2/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHP06	SGS Orlando	FC12338B	RHP06-WGN01LF-2401-DF	1/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06	APPL	24A0050	RHP06-WGN01LF-2401WK2-DF	1/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06	SGS Orlando	FC12452	RHP06-WGN01LF-2401WK2-DF	1/8/2024	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHP06	APPL	24A0125	RHP06-WGN01LF-2401WK3-DF	1/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06	SGS Orlando	FC12661	RHP06-WGN01LF-2401WK3-DF	1/17/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHP06

						Fuel Additive				Lead Scavengers				Natural Attenuation Parameters					
					Analyte	2-(2- Methoxyethoxy)-ethanol [b]		Phenol		1,2-Dibromoethane		1,2-Dichloroethane		Methane		Total Organic Carbon		NV Dissolved Organic Carbon	
					CAS No.	111-77-3		108-95-2		106-93-4		107-06-2		74-82-8		TOC		—	
					Method	8270D		SW8270		8011		8260		RSK 175		9060		9060	
					DOH Tier 1 EAL	800		300		0.04		5		—		—		—	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		ND		0.2		1700		1200	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result	
RHP06	SGS Orlando	FC9446	RHP06-WGFD01LF-2309	9/7/2023	Field Duplicate	–		<2	U	–		<0.5	U	–		–		–	
RHP06	SGS Orlando	FC9446	RHP06-WGN01LF-2309	9/7/2023	Primary	–		<2	U	–		<0.5	U	<0.25	U	–		–	
RHP06	SGS Orlando	FC10161	RHP06-WGFD01LF-2310	10/2/2023	Field Duplicate	–		<1.9	U	–		<0.5	U	–		–		–	
RHP06	ALS Kelso	K2311233	RHP06-WGN01LF-2310	10/2/2023	Primary	–		–		–		–		–		<500	U	<500	U
RHP06	Energy	B23100338	RHP06-WGN01LF-2310	10/2/2023	Primary	–		–		<0.0049	U	–		–		–		–	
RHP06	SGS Orlando	FC10161	RHP06-WGN01LF-2310	10/2/2023	Primary	–		<1.9	U	–		<0.5	U	<0.25	U	–		–	
RHP06	APPL	23J0132	RHP06-WGFD01LF-23Q4	10/11/2023	Field Duplicate	<80	UJ	–		–		–		–		–		–	
RHP06	Energy	B23101127	RHP06-WGFD01LF-23Q4	10/11/2023	Field Duplicate	–		–		–		<0.1	UJ	–		–		–	
RHP06	SGS Orlando	FC10442	RHP06-WGFD01LF-23Q4	10/11/2023	Field Duplicate	–		<1.9	U	–		–		–		–		–	
RHP06	APPL	23J0132	RHP06-WGN01LF-23Q4	10/11/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHP06	Energy	B23101127	RHP06-WGN01LF-23Q4	10/11/2023	Primary	–		–		<0.0049	UJ	<0.1	UJ	–		–		–	
RHP06	SGS Orlando	FC10442	RHP06-WGN01LF-23Q4	10/11/2023	Primary	–		<1.9	U	–		–		0.2	J	570	J-	–	
RHP06	APPL	23J0313	RHP06-WGFD01LF-2310WK4-DF	10/27/2023	Field Duplicate	<80	UJ	–		–		–		–		–		–	
RHP06	SGS Orlando	FC10809	RHP06-WGFD01LF-2310WK4-DF	10/27/2023	Field Duplicate	–		<1.9	U	–		<0.5	U	–		–		–	
RHP06	APPL	23J0313	RHP06-WGN01LF-2310WK4-DF	10/27/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHP06	SGS Orlando	FC10809	RHP06-WGN01LF-2310WK4-DF	10/27/2023	Primary	–		<1.9	U	<0.015	U	<0.5	U	–		–		–	
RHP06	APPL	23K0019	RHP06-WGFD01LF-2310WK5-DF	11/2/2023	Field Duplicate	<80	U	–		–		–		–		–		–	
RHP06	SGS Orlando	FC10943	RHP06-WGFD01LF-2310WK5-DF	11/2/2023	Field Duplicate	–		<1.9	U	–		<0.5	U	–		–		–	
RHP06	APPL	23K0019	RHP06-WGN01LF-2310WK5-DF	11/2/2023	Primary	<80	U	–		–		–		–		–		–	
RHP06	SGS Orlando	FC10943	RHP06-WGN01LF-2310WK5-DF	11/2/2023	Primary	–		<1.9	U	<0.014	U	<0.5	U	–		–		–	
RHP06	ALS Kelso	K2312749	RHP06-WGN01LF-2311-DF	11/8/2023	Primary	–		–		–		–		–		1700		1200	
RHP06	APPL	23K0068	RHP06-WGN01LF-2311-DF	11/8/2023	Primary	<80	U	–		–		–		–		–		–	
RHP06	SGS Orlando	FC11097	RHP06-WGN01LF-2311-DF	11/8/2023	Primary	–		<1.9	U	<0.014	U	<0.5	U	–		–		–	
RHP06	SGS Orlando	FC11097B	RHP06-WGN01LF-2311-DF	11/8/2023	Primary	–		–		–		–		<0.25	U	–		–	
RHP06	APPL	23K0134	RHP06-WGFD01LF-2311WK2-DF	11/15/2023	Field Duplicate	<80	UJ	–		–		–		–		–		–	
RHP06	SGS Orlando	FC11293	RHP06-WGFD01LF-2311WK2-DF	11/15/2023	Field Duplicate	–		<1.9	U	–		<0.5	U	–		–		–	
RHP06	APPL	23K0134	RHP06-WGN01LF-2311WK2-DF	11/15/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHP06	SGS Orlando	FC11293	RHP06-WGN01LF-2311WK2-DF	11/15/2023	Primary	–		<1.9	U	<0.014	U	<0.5	U	–		–		–	
RHP06	APPL	23K0214	RHP06-WGFD01LF-2311WK3-DF	11/22/2023	Field Duplicate	<80	UJ	–		–		–		–		–		–	
RHP06	SGS Orlando	FC11474	RHP06-WGFD01LF-2311WK3-DF	11/22/2023	Field Duplicate	–		<2	U	–		<0.5	U	–		–		–	
RHP06	APPL	23K0214	RHP06-WGN01LF-2311WK3-DF	11/22/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHP06	SGS Orlando	FC11474	RHP06-WGN01LF-2311WK3-DF	11/22/2023	Primary	–		<2	U	<0.015	U	<0.5	U	–		–		–	
RHP06	APPL	23K0236	RHP06-WGFD01LF-2311WK4-DF	11/29/2023	Field Duplicate	<80	UJ	–		–		–		–		–		–	
RHP06	SGS Orlando	FC11596	RHP06-WGFD01LF-2311WK4-DF	11/29/2023	Field Duplicate	–		<2	U	–		<0.5	U	–		–		–	
RHP06	APPL	23K0236	RHP06-WGN01LF-2311WK4-DF	11/29/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHP06	SGS Orlando	FC11596	RHP06-WGN01LF-2311WK4-DF	11/29/2023	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	
RHP06	APPL	23L0035	RHP06-WGN01LF-2312-DF	12/6/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHP06	SGS Anchorage	1236637_EDMS	RHP06-WGN01LF-2312-DF	12/6/2023	Primary	–		–		–		–		–		<750	U	<750	U
RHP06	SGS Orlando	FC11754	RHP06-WGN01LF-2312-DF	12/6/2023	Primary	–		<2	U	<0.015	U	<0.5	U	–		–		–	
RHP06	SGS Orlando	FC11754B	RHP06-WGN01LF-2312-DF	12/6/2023	Primary	–		–		–		–		<0.25	U	–		–	
RHP06	APPL	23L0108	RHP06-WGN01LF-2312WK2-DF	12/13/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHP06	SGS Orlando	FC11982	RHP06-WGN01LF-2312WK2-DF	12/13/2023	Primary	–		<1.9	U	–		<0.5	U	–		–		–	
RHP06	SGS Orlando	FC11982A	RHP06-WGN01LF-2312WK2-DF	12/13/2023	Primary	–		–		<0.015	U	–		–		–		–	
RHP06	APPL	23L0179	RHP06-WGN01LF-2312WK3-DF	12/20/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHP06	SGS Orlando	FC12167	RHP06-WGN01LF-2312WK3-DF	12/20/2023	Primary	–		<2	U	<0.015	U	<0.5	U	–		–		–	
RHP06	SGS Orlando	FC12167	RHP06-WGN01LF-2312WK3-DF	12/20/2023	Primary	–		<2	U	<0.015	U	<0.5	U	–		–		–	
RHP06	APPL	23L0220	RHP06-WGN01LF-2312WK4-DF	12/28/2023	Primary	<80	U	–		–		–		–		–		–	
RHP06	SGS Orlando	FC12289	RHP06-WGN01LF-2312WK4-DF	12/28/2023	Primary	–		<2	U	<0.015	U	<0.5	U	–		–		–	
RHP06	APPL	24A0008	RHP06-WGN01LF-2401-DF	1/2/2024	Primary	<80	UJ	–		–		–		–		–		–	
RHP06	SGS Anchorage	1240028_EDMS	RHP06-WGN01LF-2401-DF	1/2/2024	Primary	–		–		–		–		–		810	J+	824	J+
RHP06	SGS Orlando	FC12338	RHP06-WGN01LF-2401-DF	1/2/2024	Primary	–		<2	U	<0.015	U	<0.5	U	–		–		–	
RHP06	SGS Orlando	FC12338B	RHP06-WGN01LF-2401-DF	1/2/2024	Primary	–		–		–		–		<0.25	U	–		–	
RHP06	APPL	24A0050	RHP06-WGN01LF-2401WK2-DF	1/8/2024	Primary	<80	U	–		–		–		–		–		–	
RHP06	SGS Orlando	FC12452	RHP06-WGN01LF-2401WK2-DF	1/8/2024	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	
RHP06	APPL	24A0125	RHP06-WGN01LF-2401WK3-DF	1/17/2024	Primary	<80	UJ	–		–		–		–		–		–	
RHP06	SGS Orlando	FC12661	RHP06-WGN01LF-2401WK3-DF	1/17/2024	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHP07

						Total Petroleum Hydrocarbons										Volatile Organic Compounds								Polycyclic Aromatic Hydrocarbons (PAHs) – AOC/LTM					
					Analyte	TPH-g		TPH-d [a]		TPH-o [a]		TPH-d with Silica Gel Cleanup [a]		TPH-o with Silica Gel Cleanup [a]		Benzene		Ethylbenzene		Toluene		Xylenes		1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene	
					CAS No.	PHCC6C10		PHCC10C24		PHCC24C40		PHCC10C24SGC		PHCC24C40SGC		71-43-2		100-41-4		108-88-3		1330-20-7		90-12-0		91-57-6		91-20-3	
					Method	8260		8015		8015		8015		8015		8260		8260		8260		8260		8270 SIM		8270 SIM		8270 SIM	
					DOH Tier 1 EAL	300		400		500		—		—		5		30		40		20		10		10		17	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		91.4		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHP07	SGS Orlando	FC7027	RHP07-WGN01LF-2306WK2	6/15/2023	Primary	<50	U	91.4	J	<170	U	<100	U	<170	U	<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U
RHP07	ALS Kelso	K2310020	RHP07-WGN01LF-2309	9/8/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP07	ALS Kelso	K2311474	RHP07-WGN01LF-2310	10/5/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP07	Energy	B23100765	RHP07-WGN01LF-2310	10/5/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP07	SGS Orlando	FC10295	RHP07-WGN01LF-2310	10/5/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	UJ	<0.4	UJ	<0.4	UJ
RHP07	APPL	23J0098	RHP07-WGN01LF-23Q4	10/10/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP07	Energy	B23100868	RHP07-WGN01LF-23Q4	10/10/2023	Primary	<8.5	U	<141	U	<141	U	–		–		<0.1	U	<0.1	U	<0.2	U	<0.1	U	–		–		–	
RHP07	SGS Orlando	FC10364	RHP07-WGN01LF-23Q4	10/10/2023	Primary	–		–		–		–		–		–		–		–		–		<0.4	U	<0.4	U	<0.4	U
RHP07	SGS Orlando	FC10534	RHP07-WGN01LF-2310WK3-DF	10/17/2023	Primary	–		<100	U	<160	U	–		–		–		–		–		–		<0.4	U	<0.4	U	<0.4	U
RHP07	SGS Orlando	FC10716	RHP07-WGN01LF-2310WK4-DF	10/24/2023	Primary	–		<100	U	<160	U	–		–		–		–		–		–		<0.38	U	<0.38	U	<0.38	U
RHP07	SGS Orlando	FC10882	RHP07-WGN01LF-2310WK5-DF	10/31/2023	Primary	–		<100	U	<170	U	–		–		–		–		–		–		<0.42	U	<0.42	U	<0.42	U
RHP07	ALS Kelso	K2312868	RHP07-WGN01LF-2311-DF	11/10/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP07	SGS Orlando	FC11171	RHP07-WGN01LF-2311-DF	11/10/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	UJ	<0.42	U
RHP07	SGS Orlando	FC11171B	RHP07-WGN01LF-2311-DF	11/10/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP07	SGS Orlando	FC11263	RHP07-WGN01LF-2311WK2-DF	11/14/2023	Primary	–		<100	U	<170	U	–		–		–		–		–		–		<0.4	U	<0.4	U	<0.4	U
RHP07	SGS Orlando	FC11473	RHP07-WGN01LF-2311WK3-DF	11/21/2023	Primary	–		<100	U	<170	U	–		–		–		–		–		–		<0.42	UJ	<0.42	UJ	<0.42	U
RHP07	SGS Orlando	FC11564	RHP07-WGN01LF-2311WK4-DF	11/28/2023	Primary	–		<100	U	<170	U	–		–		–		–		–		–		<0.42	UJ	<0.42	UJ	<0.42	U
RHP07	SGS Anchorage	1236605_EDMS	RHP07-WGN01LF-2312-DF	12/5/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP07	SGS Orlando	FC11717	RHP07-WGN01LF-2312-DF	12/5/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	UJ	<0.42	UJ	<0.42	U
RHP07	SGS Orlando	FC11717B	RHP07-WGN01LF-2312-DF	12/5/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP07	SGS Orlando	FC11937	RHP07-WGN01LF-2312WK2-DF	12/12/2023	Primary	–		<100	U	<160	U	–		–		–		–		–		–		<0.4	UJ	<0.4	UJ	<0.4	U
RHP07	SGS Orlando	FC12219	RHP07-WGN01LF-2312WK3-DF	12/22/2023	Primary	–		<100	U	<170	U	–		–		–		–		–		–		<0.42	U	<0.42	U	<0.42	U
RHP07	SGS Orlando	FC12292	RHP07-WGN01LF-2312WK4-DF	12/29/2023	Primary	–		<100	U	<170	U	–		–		–		–		–		–		<0.4	U	<0.4	U	<0.4	U
RHP07	SGS Anchorage	1240028_EDMS	RHP07-WGN01LF-2401-DF	1/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP07	SGS Orlando	FC12338	RHP07-WGN01LF-2401-DF	1/2/2024	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHP07	SGS Orlando	FC12338B	RHP07-WGN01LF-2401-DF	1/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP07	SGS Orlando	FC12486	RHP07-WGN01LF-2401WK2-DF	1/9/2024	Primary	–		<100	U	<160	U	–		–		–		–		–		–		<0.38	U	<0.38	U	<0.38	U
RHP07	SGS Orlando	FC12611	RHP07-WGN01LF-2401WK3-DF	1/16/2024	Primary	–		<100	U	<170	U	–		–		–		–		–		–		<0.4	UJ	<0.4	UJ	<0.4	UJ

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHP07

						Polycyclic Aromatic Hydrocarbons (PAHs)																													
					Analyte	Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)		Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)peryelene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
					CAS No.	83-32-9		208-96-8		120-12-7		56-55-3		50-32-8		205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
					Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
					DOH Tier 1 EAL	20		240		0.18		0.029		0.2		0.22		0.13		0.4		1		0.022		13		240		0.095		210		68	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHP07	SGS Orlando	FC7027	RHP07-WGN01LF-2306WK2	6/15/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHP07	ALS Kelso	K2310020	RHP07-WGN01LF-2309	9/8/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP07	ALS Kelso	K2311474	RHP07-WGN01LF-2310	10/5/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP07	Energy	B23100765	RHP07-WGN01LF-2310	10/5/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP07	SGS Orlando	FC10295	RHP07-WGN01LF-2310	10/5/2023	Primary	<0.4	UJ	<0.4	UJ	<0.4	UJ	<0.04	UJ	<0.04	UJ	<0.04	UJ	<0.04	UJ	<0.04	UJ	<0.08	UJ	<0.04	UJ	<0.4	UJ	<0.4	UJ	<0.04	UJ	<0.4	UJ	<0.4	UJ
RHP07	APPL	23J0098	RHP07-WGN01LF-23Q4	10/10/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP07	Energy	B23100868	RHP07-WGN01LF-23Q4	10/10/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP07	SGS Orlando	FC10364	RHP07-WGN01LF-23Q4	10/10/2023	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHP07	SGS Orlando	FC10534	RHP07-WGN01LF-2310WK3-DF	10/17/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP07	SGS Orlando	FC10716	RHP07-WGN01LF-2310WK4-DF	10/24/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP07	SGS Orlando	FC10882	RHP07-WGN01LF-2310WK5-DF	10/31/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP07	ALS Kelso	K2312868	RHP07-WGN01LF-2311-DF	11/10/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP07	SGS Orlando	FC11171	RHP07-WGN01LF-2311-DF	11/10/2023	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHP07	SGS Orlando	FC11171B	RHP07-WGN01LF-2311-DF	11/10/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP07	SGS Orlando	FC11263	RHP07-WGN01LF-2311WK2-DF	11/14/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP07	SGS Orlando	FC11473	RHP07-WGN01LF-2311WK3-DF	11/21/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP07	SGS Orlando	FC11564	RHP07-WGN01LF-2311WK4-DF	11/28/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP07	SGS Anchorage	1236605_EDMS	RHP07-WGN01LF-2312-DF	12/5/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP07	SGS Orlando	FC11717	RHP07-WGN01LF-2312-DF	12/5/2023	Primary	<0.42	UJ	<0.42	UJ	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	UJ	<0.042	U	<0.42	UJ	<0.42	U
RHP07	SGS Orlando	FC11717B	RHP07-WGN01LF-2312-DF	12/5/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP07	SGS Orlando	FC11937	RHP07-WGN01LF-2312WK2-DF	12/12/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP07	SGS Orlando	FC12219	RHP07-WGN01LF-2312WK3-DF	12/22/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP07	SGS Orlando	FC12292	RHP07-WGN01LF-2312WK4-DF	12/29/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP07	SGS Anchorage	1240028_EDMS	RHP07-WGN01LF-2401-DF	1/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP07	SGS Orlando	FC12338	RHP07-WGN01LF-2401-DF	1/2/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHP07	SGS Orlando	FC12338B	RHP07-WGN01LF-2401-DF	1/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP07	SGS Orlando	FC12486	RHP07-WGN01LF-2401WK2-DF	1/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP07	SGS Orlando	FC12611	RHP07-WGN01LF-2401WK3-DF	1/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHP07

						Fuel Additive				Lead Scavengers				Natural Attenuation Parameters					
					Analyte	2-(2- Methoxyethoxy)-ethanol [b]		Phenol		1,2-Dibromoethane		1,2-Dichloroethane		Methane		Total Organic Carbon		NV Dissolved Organic Carbon	
					CAS No.	111-77-3		108-95-2		106-93-4		107-06-2		74-82-8		TOC		—	
					Method	8270D		SW8270		8011		8260		RSK 175		9060		9060	
					DOH Tier 1 EAL	800		300		0.04		5		—		—		—	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		ND		0.4		792		1100	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result	
RHP07	SGS Orlando	FC7027	RHP07-WGN01LF-2306WK2	6/15/2023	Primary	–		<2	U	–		<0.5	U	<0.25	U	–		–	
RHP07	ALS Kelso	K2310020	RHP07-WGN01LF-2309	9/8/2023	Primary	–		–		–		–		–		<500	U	**800**	
RHP07	ALS Kelso	K2311474	RHP07-WGN01LF-2310	10/5/2023	Primary	–		–		–		–		–		<500	U	**600**	
RHP07	Energy	B23100765	RHP07-WGN01LF-2310	10/5/2023	Primary	–		–		<0.0049	U	–		–		–		–	
RHP07	SGS Orlando	FC10295	RHP07-WGN01LF-2310	10/5/2023	Primary	–		<1.9	U	–		<0.5	U	**0.4**	**J**	–		–	
RHP07	APPL	23J0098	RHP07-WGN01LF-23Q4	10/10/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHP07	Energy	B23100868	RHP07-WGN01LF-23Q4	10/10/2023	Primary	–		–		<0.0049	U	<0.1	U	–		–		–	
RHP07	SGS Orlando	FC10364	RHP07-WGN01LF-23Q4	10/10/2023	Primary	–		<1.9	U	–		–		<0.25	U	<1000	U	–	
RHP07	SGS Orlando	FC10534	RHP07-WGN01LF-2310WK3-DF	10/17/2023	Primary	–		–		–		–		–		–		–	
RHP07	SGS Orlando	FC10716	RHP07-WGN01LF-2310WK4-DF	10/24/2023	Primary	–		–		–		–		–		–		–	
RHP07	SGS Orlando	FC10882	RHP07-WGN01LF-2310WK5-DF	10/31/2023	Primary	–		–		–		–		–		–		–	
RHP07	ALS Kelso	K2312868	RHP07-WGN01LF-2311-DF	11/10/2023	Primary	–		–		–		–		–		<500	U	**1100**	
RHP07	SGS Orlando	FC11171	RHP07-WGN01LF-2311-DF	11/10/2023	Primary	–		<1.9	UJ	<0.014	U	<0.5	U	–		–		–	
RHP07	SGS Orlando	FC11171B	RHP07-WGN01LF-2311-DF	11/10/2023	Primary	–		–		–		–		<0.25	U	–		–	
RHP07	SGS Orlando	FC11263	RHP07-WGN01LF-2311WK2-DF	11/14/2023	Primary	–		–		–		–		–		–		–	
RHP07	SGS Orlando	FC11473	RHP07-WGN01LF-2311WK3-DF	11/21/2023	Primary	–		–		–		–		–		–		–	
RHP07	SGS Orlando	FC11564	RHP07-WGN01LF-2311WK4-DF	11/28/2023	Primary	–		–		–		–		–		–		–	
RHP07	SGS Anchorage	1236605_EDMS	RHP07-WGN01LF-2312-DF	12/5/2023	Primary	–		–		–		–		–		<750	U	<750	U
RHP07	SGS Orlando	FC11717	RHP07-WGN01LF-2312-DF	12/5/2023	Primary	–		<1.9	U	<0.014	U	<0.5	U	–		–		–	
RHP07	SGS Orlando	FC11717B	RHP07-WGN01LF-2312-DF	12/5/2023	Primary	–		–		–		–		<0.25	U	–		–	
RHP07	SGS Orlando	FC11937	RHP07-WGN01LF-2312WK2-DF	12/12/2023	Primary	–		–		–		–		–		–		–	
RHP07	SGS Orlando	FC12219	RHP07-WGN01LF-2312WK3-DF	12/22/2023	Primary	–		–		–		–		–		–		–	
RHP07	SGS Orlando	FC12292	RHP07-WGN01LF-2312WK4-DF	12/29/2023	Primary	–		–		–		–		–		–		–	
RHP07	SGS Anchorage	1240028_EDMS	RHP07-WGN01LF-2401-DF	1/2/2024	Primary	–		–		–		–		–		**792**	**J+**	<750	U
RHP07	SGS Orlando	FC12338	RHP07-WGN01LF-2401-DF	1/2/2024	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	
RHP07	SGS Orlando	FC12338B	RHP07-WGN01LF-2401-DF	1/2/2024	Primary	–		–		–		–		<0.25	U	–		–	
RHP07	SGS Orlando	FC12486	RHP07-WGN01LF-2401WK2-DF	1/9/2024	Primary	–		–		–		–		–		–		–	
RHP07	SGS Orlando	FC12611	RHP07-WGN01LF-2401WK3-DF	1/16/2024	Primary	–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHP08

						Total Petroleum Hydrocarbons										Volatile Organic Compounds								Polycyclic Aromatic Hydrocarbons (PAHs) – AOC/LTM							
					Analyte	TPH-g		TPH-d [a]		TPH-o [a]		TPH-d with Silica Gel Cleanup [a]		TPH-o with Silica Gel Cleanup [a]		Benzene		Ethylbenzene		Toluene		Xylenes		1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene	
					CAS No.	PHCC6C10		PHCC10C24		PHCC24C40		PHCC10C24SGC		PHCC24C40SGC		71-43-2		100-41-4		108-88-3		1330-20-7		90-12-0		91-57-6		91-20-3	
					Method	8260		8015		8015		8015		8015		8260		8260		8260		8260		8270 SIM		8270 SIM		8270 SIM	
					DOH Tier 1 EAL	300		400		500		—		—		5		30		40		20		10		10		17	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		–		–		ND		ND		ND		ND		ND		ND		ND	
					Maximum	41		ND		ND		–		–		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHP08	ALS Kelso	K2310236	RHP08-WGN01LF-2309	9/11/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP08	SGS Orlando	FC9542	RHP08-WGN01LF-2309	9/11/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U
RHP08	ALS Kelso	K2311328	RHP08-WGN01LF-2310	10/3/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP08	Energy	B23100338	RHP08-WGN01LF-2310	10/3/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP08	SGS Orlando	FC10202	RHP08-WGN01LF-2310	10/3/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHP08	APPL	23J0132	RHP08-WGN01LF-23Q4	10/11/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP08	Energy	B23101127	RHP08-WGN01LF-23Q4	10/11/2023	Primary	<8.5	UJ	<141	UJ	<141	UJ	–		–		<0.1	UJ	<0.1	UJ	<0.2	UJ	<0.1	UJ	–		–		–	
RHP08	SGS Orlando	FC10442	RHP08-WGN01LF-23Q4	10/11/2023	Primary	–		–		–		–		–		–		–		–		–		<0.4	U	<0.4	U	<0.4	U
RHP08	APPL	23J0313	RHP08-WGN01LF-2310WK4-DF	10/27/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP08	SGS Orlando	FC10809	RHP08-WGN01LF-2310WK4-DF	10/27/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	UJ	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U
RHP08	APPL	23K0019	RHP08-WGN01LF-2310WK5-DF	11/2/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP08	SGS Orlando	FC10943	RHP08-WGN01LF-2310WK5-DF	11/2/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U
RHP08	ALS Kelso	K2312628	RHP08-WGN01LF-2311-DF	11/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP08	APPL	23K0041	RHP08-WGN01LF-2311-DF	11/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP08	SGS Orlando	FC11019	RHP08-WGN01LF-2311-DF	11/6/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHP08	SGS Orlando	FC11019B	RHP08-WGN01LF-2311-DF	11/6/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP08	APPL	23K0106	RHP08-WGN01LF-2311WK2-DF	11/13/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP08	SGS Orlando	FC11221	RHP08-WGN01LF-2311WK2-DF	11/13/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHP08	APPL	23K0205	RHP08-WGN01LF-2311WK3-DF	11/21/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP08	SGS Orlando	FC11473	RHP08-WGN01LF-2311WK3-DF	11/21/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	UJ	<0.42	UJ	<0.42	U
RHP08	APPL	23K0236	RHP08-WGN01LF-2311WK4-DF	11/29/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP08	SGS Orlando	FC11596	RHP08-WGN01LF-2311WK4-DF	11/29/2023	Primary	41	J	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	UJ	<0.42	UJ	<0.42	U
RHP08	APPL	23L0027	RHP08-WGN01LF-2312-DF	12/5/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP08	SGS Anchorage	1236605_EDMS	RHP08-WGN01LF-2312-DF	12/5/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP08	SGS Orlando	FC11717	RHP08-WGN01LF-2312-DF	12/5/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	UJ	<0.4	UJ	<0.4	U
RHP08	SGS Orlando	FC11717B	RHP08-WGN01LF-2312-DF	12/5/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP08	APPL	23L0108	RHP08-WGN01LF-2312WK2-DF	12/13/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP08	SGS Orlando	FC11982	RHP08-WGN01LF-2312WK2-DF	12/13/2023	Primary	<50	U	<100	U	<160	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	UJ	<0.4	UJ	<0.4	U
RHP08	SGS Orlando	FC11982A	RHP08-WGN01LF-2312WK2-DF	12/13/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP08	APPL	23L0179	RHP08-WGN01LF-2312WK3-DF	12/20/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP08	SGS Orlando	FC12167	RHP08-WGN01LF-2312WK3-DF	12/20/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHP08	APPL	23L0220	RHP08-WGN01LF-2312WK4-DF	12/28/2023	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP08	SGS Orlando	FC12289	RHP08-WGN01LF-2312WK4-DF	12/28/2023	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHP08	APPL	24A0008	RHP08-WGN01LF-2401-DF	1/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP08	SGS Anchorage	1240028_EDMS	RHP08-WGN01LF-2401-DF	1/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP08	SGS Orlando	FC12338	RHP08-WGN01LF-2401-DF	1/2/2024	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHP08	SGS Orlando	FC12338B	RHP08-WGN01LF-2401-DF	1/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP08	APPL	24A0066	RHP08-WGN01LF-2401WK2-DF	1/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP08	SGS Orlando	FC12522	RHP08-WGN01LF-2401WK2-DF	1/10/2024	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.42	U	<0.42	U	<0.42	U
RHP08	APPL	24A0104	RHP08-WGN01LF-2401WK3-DF	1/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–	
RHP08	SGS Orlando	FC12594	RHP08-WGN01LF-2401WK3-DF	1/15/2024	Primary	<50	U	<100	U	<170	U	–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.4	U	<0.4	U	<0.4	U

Notes:
See Data Legend

App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHP08

						Polycyclic Aromatic Hydrocarbons (PAHs)																															
					Analyte	Acenaphthene (SIM)			Acenaphthylene (SIM)			Anthracene (SIM)			Benzo(a)anthracene (SIM)			Benzo(a)pyrene (SIM)			Benzo(b)fluoranthene (SIM)			Benzo(g,h,i)peryelene (SIM)			Benzo(k)fluoranthene (SIM)			Chrysene (SIM)			Dibenzo(a,h)anthracene (SIM)			Fluoranthene (SIM)			Fluorene (SIM)			Indeno(1,2,3-cd)pyrene (SIM)			Phenanthrene (SIM)			Pyrene (SIM)		
					CAS No.	83-32-9			208-96-8			120-12-7			56-55-3			50-32-8			205-99-2			191-24-2			207-08-9			218-01-9			53-70-3			206-44-0			86-73-7			193-39-5			85-01-8			129-00-0		
					Method	8270SIM			8270SIM			8270SIM			8270SIM			8270SIM			8270SIM			8270SIM			8270SIM			8270SIM			8270SIM			8270SIM			8270SIM			8270SIM			8270SIM			8270SIM		
					DOH Tier 1 EAL	20			240			0.18			0.029			0.2			0.22			0.13			0.4			1			0.022			13			240			0.095			210			68		
					Units	µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L		
					Minimum	ND			ND			ND			ND			ND			ND			ND			ND			ND			ND			ND			ND			ND			ND		
					Maximum	ND			ND			ND			ND			ND			ND			ND			ND			0.037			ND			ND			ND			ND			ND		
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result			Result			Result			Result			Result			Result			Result			Result			Result			Result			Result			Result			Result			Result		
RHP08	ALS Kelso	K2310236	RHP08-WGN01LF-2309	9/11/2023	Primary	–			–			–			–			–			–			–			–			–			–			–			–			–			–		
RHP08	SGS Orlando	FC9542	RHP08-WGN01LF-2309	9/11/2023	Primary	<0.4	U		<0.4	U		<0.4	U		<0.04	U		<0.04	U		<0.04	U		<0.04	U		<0.04	U		<0.08	U		<0.04	U		<0.4	U		<0.4	U		<0.04	U		<0.4	U		<0.4	U	
RHP08	ALS Kelso	K2311328	RHP08-WGN01LF-2310	10/3/2023	Primary	–			–			–			–			–			–			–			–			–			–			–			–			–			–			–		
RHP08	Energy	B23100338	RHP08-WGN01LF-2310	10/3/2023	Primary	–			–			–			–			–			–			–			–			–			–			–			–			–			–			–		
RHP08	SGS Orlando	FC10202	RHP08-WGN01LF-2310	10/3/2023	Primary	<0.42	U		<0.42	U		<0.42	U		<0.042	U		<0.042	U		<0.042	U		<0.042	U		<0.042	U		<0.083	U		<0.042	U		<0.42	U		<0.42	U		<0.042	U		<0.42	U		<0.42	U	
RHP08	APPL	23J0132	RHP08-WGN01LF-23Q4	10/11/2023	Primary	–			–			–			–			–			–			–			–			–			–			–			–			–			–			–		
RHP08	Energy	B23101127	RHP08-WGN01LF-23Q4	10/11/2023	Primary	–			–			–			–			–			–			–			–			–			–			–			–			–			–			–		
RHP08	SGS Orlando	FC10442	RHP08-WGN01LF-23Q4	10/11/2023	Primary	<0.4	U		<0.4	U		<0.4	U		<0.04	U		<0.04	U		<0.04	U		<0.04	U		<0.04	U		<0.08	U		<0.04	U		<0.4	U		<0.4	U		<0.04	U		<0.4	U		<0.4	U	
RHP08	APPL	23J0313	RHP08-WGN01LF-2310WK4-DF	10/27/2023	Primary	–			–			–			–			–			–			–			–			–			–			–			–			–			–			–		
RHP08	SGS Orlando	FC10809	RHP08-WGN01LF-2310WK4-DF	10/27/2023	Primary	<0.4	U		<0.4	U		<0.4	U		<0.04	U		<0.04	U		<0.04	U		<0.04	U		<0.04	U		<0.08	U		<0.04	U		<0.4	U		<0.4	U		<0.04	U		<0.4	U		<0.4	U	
RHP08	APPL	23K0019	RHP08-WGN01LF-2310WK5-DF	11/2/2023	Primary	–			–			–			–			–			–			–			–			–			–			–			–			–			–			–		
RHP08	SGS Orlando	FC10943	RHP08-WGN01LF-2310WK5-DF	11/2/2023	Primary	<0.4	U		<0.4	U		<0.4	U		<0.04	U		<0.04	U		<0.04	U		<0.04	U		<0.04	U		<0.08	U		<0.04	U		<0.4	U		<0.4	U		<0.04	U		<0.4	U		<0.4	U	
RHP08	ALS Kelso	K2312628	RHP08-WGN01LF-2311-DF	11/6/2023	Primary	–			–			–			–			–			–			–			–			–			–			–			–			–			–			–		
RHP08	APPL	23K0041	RHP08-WGN01LF-2311-DF	11/6/2023	Primary	–			–			–			–			–			–			–			–			–			–			–			–			–			–			–		
RHP08	SGS Orlando	FC11019	RHP08-WGN01LF-2311-DF	11/6/2023	Primary	<0.42	U		<0.42	U		<0.42	U		<0.042	U		<0.042	U		<0.042	U		<0.042	U		<0.042	U		<0.083	U		<0.042	U		<0.42	U		<0.42	U		<0.042	U		<0.42	U		<0.42	U	
RHP08	SGS Orlando	FC11019B	RHP08-WGN01LF-2311-DF	11/6/2023	Primary	–			–			–			–			–			–			–			–			–			–			–			–			–			–			–		
RHP08	APPL	23K0106	RHP08-WGN01LF-2311WK2-DF	11/13/2023	Primary	–			–			–			–			–			–			–			–			–			–			–			–			–			–			–		
RHP08	SGS Orlando	FC11221	RHP08-WGN01LF-2311WK2-DF	11/13/2023	Primary	<0.42	U		<0.42	U		<0.42	U		<0.042	U		<0.042	U		<0.042	U		<0.042	U		<0.042	U		**0.037**	**J**		<0.042	U		<0.42	U		<0.42	U		<0.042	UJ		<0.42	U		<0.42	U	
RHP08	APPL	23K0205	RHP08-WGN01LF-2311WK3-DF	11/21/2023	Primary	–			–			–			–			–			–			–			–			–			–			–			–			–			–			–		
RHP08	SGS Orlando	FC11473	RHP08-WGN01LF-2311WK3-DF	11/21/2023	Primary	<0.42	UJ		<0.42	UJ		<0.42	U		<0.042	U		<0.042	U		<0.042	U		<0.042	U		<0.042	U		<0.083	U		<0.042	U		<0.42	UJ		<0.42	UJ		<0.042	U		<0.42	UJ		<0.42	U	
RHP08	APPL	23K0236	RHP08-WGN01LF-2311WK4-DF	11/29/2023	Primary	–			–			–			–			–			–			–			–			–			–			–			–			–			–			–		
RHP08	SGS Orlando	FC11596	RHP08-WGN01LF-2311WK4-DF	11/29/2023	Primary	<0.42	UJ		<0.42	UJ		<0.42	U		<0.042	U		<0.042	U		<0.042	U		<0.042	U		<0.042	U		<0.083	U		<0.042	U		<0.42	UJ		<0.42	UJ		<0.042	U		<0.42	UJ		<0.42	U	
RHP08	APPL	23L0027	RHP08-WGN01LF-2312-DF	12/5/2023	Primary	–			–			–			–			–			–			–			–			–			–			–			–			–			–			–		
RHP08	SGS Anchorage	1236605_EDMS	RHP08-WGN01LF-2312-DF	12/5/2023	Primary	–			–			–			–			–			–			–			–			–			–			–			–			–			–			–		
RHP08	SGS Orlando	FC11717	RHP08-WGN01LF-2312-DF	12/5/2023	Primary	<0.4	UJ		<0.4	UJ		<0.4	U		<0.04	U		<0.04	U		<0.04	U		<0.04	U		<0.04	U		<0.08	U		<0.04	U		<0.4	UJ		<0.4	UJ		<0.04	U		<0.4	UJ		<0.4	U	
RHP08	SGS Orlando	FC11717B	RHP08-WGN01LF-2312-DF	12/5/2023	Primary	–			–			–			–			–			–			–			–			–			–			–			–			–			–			–		
RHP08	APPL	23L0108	RHP08-WGN01LF-2312WK2-DF	12/13/2023	Primary	–			–			–			–			–			–			–			–			–			–			–			–			–			–			–		
RHP08	SGS Orlando	FC11982	RHP08-WGN01LF-2312WK2-DF	12/13/2023	Primary	<0.4	UJ		<0.4	UJ		<0.4	U		<0.04	U		<0.04	U		<0.04	U		<0.04	U		<0.04	U		<0.08	U		<0.04	U		<0.4	UJ		<0.4	UJ		<0.04	U		<0.4	UJ		<0.4	U	
RHP08	SGS Orlando	FC11982A	RHP08-WGN01LF-2312WK2-DF	12/13/2023	Primary	–			–			–			–			–			–			–			–			–			–			–			–			–			–			–		
RHP08	APPL	23L0179	RHP08-WGN01LF-2312WK3-DF	12/20/2023	Primary	–			–			–			–			–			–			–			–			–			–			–			–			–			–			–		
RHP08	SGS Orlando	FC12167	RHP08-WGN01LF-2312WK3-DF	12/20/2023	Primary	<0.42	U		<0.42	U		<0.42	U		<0.042	U		<0.042	U		<0.042	U		<0.042	U		<0.042	U		<0.083	U		<0.042	U		<0.42	U		<0.42	U		<0.042	U		<0.42	U		<0.42	U	
RHP08	APPL	23L0220	RHP08-WGN01LF-2312WK4-DF	12/28/2023	Primary	–			–			–			–			–			–			–			–			–			–			–			–			–			–			–		
RHP08	SGS Orlando	FC12289	RHP08-WGN01LF-2312WK4-DF	12/28/2023	Primary	<0.42	U		<0.42	U		<0.42	U		<0.042	U		<0.042	U		<0.042	U		<0.042	U		<0.042	U		<0.083	U		<0.042	U		<0.42	U		<0.42	U		<0.042	U		<0.42	U		<0.42	U	
RHP08	APPL	24A0008	RHP08-WGN01LF-2401-DF	1/2/2024	Primary	–			–			–			–			–			–			–			–			–			–			–			–			–			–			–		
RHP08	SGS Anchorage	1240028_EDMS	RHP08-WGN01LF-2401-DF	1/2/2024	Primary	–			–			–			–			–			–			–			–			–			–			–			–			–			–			–		
RHP08	SGS Orlando	FC12338	RHP08-WGN01LF-2401-DF	1/2/2024	Primary	<0.42	U		<0.42	U		<0.42	U		<0.042	U		<0.042	U		<0.042	U		<0.042	U		<0.042	U		<0.083	U		<0.042	U		<0.42	U		<0.42	U		<0.042	U		<0.42	U		<0.42	U	
RHP08	SGS Orlando	FC12338B	RHP08-WGN01LF-2401-DF	1/2/2024	Primary	–			–			–			–			–			–			–			–			–			–			–			–			–			–			–		
RHP08	APPL	24A0066	RHP08-WGN01LF-2401WK2-DF	1/10/2024	Primary	–			–			–			–			–			–			–			–			–			–			–			–			–			–			–		
RHP08	SGS Orlando	FC12522	RHP08-WGN01LF-2401WK2-DF	1/10/2024	Primary	<0.42	U		<0.42	U		<0.42	U		<0.042	U		<0.042	U		<0.042	U		<0.042	U		<0.042	U		<0.083	U		<0.042	U		<0.42	U		<0.42	U		<0.042	U		<0.42	U		<0.42	U	
RHP08	APPL	24A0104	RHP08-WGN01LF-2401WK3-DF	1/15/2024	Primary	–			–			–			–			–			–			–			–			–			–			–			–			–			–			–		
RHP08	SGS Orlando	FC12594	RHP08-WGN01LF-2401WK3-DF	1/15/2024	Primary	<0.4	U		<0.4	U		<0.4	U		<0.04	U		<0.04	U		<0.04	U		<0.04	U		<0.04	U		<0.08	U		<0.04	U		<0.4	U		<0.4	U		<0.04	U		<0.4	U		<0.4	U	

Notes:
See Data Legend

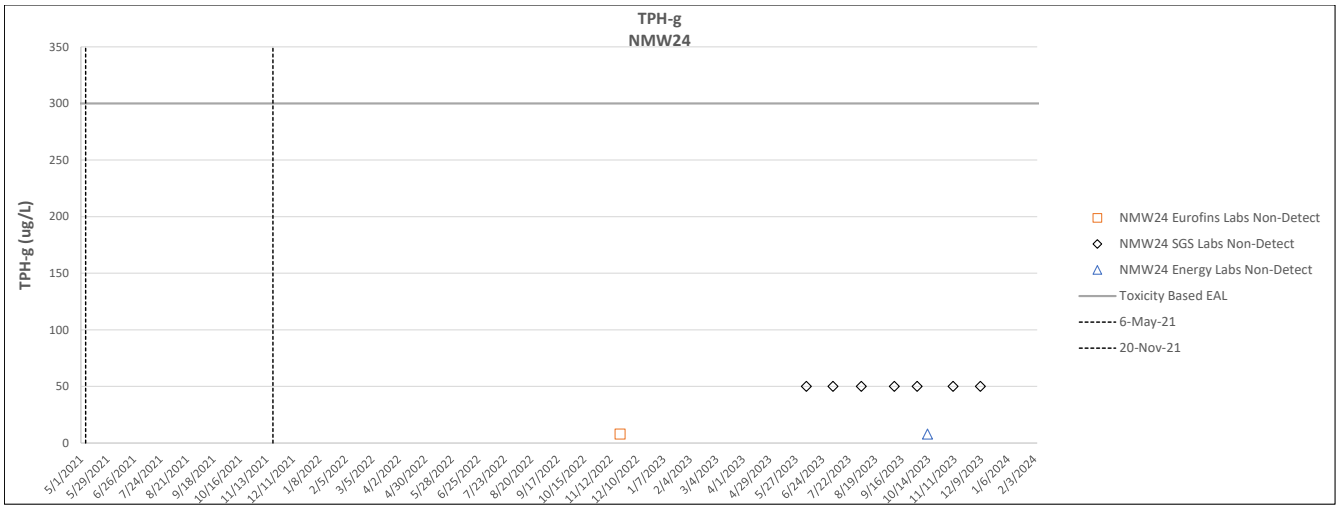
App. B.4.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program & Groundwater Protection Plan-Defueling Sampling
Groundwater Sampling: RHP08

						Fuel Additive				Lead Scavengers				Natural Attenuation Parameters					
					Analyte	2-(2- Methoxyethoxy)-ethanol [b]		Phenol		1,2-Dibromoethane		1,2-Dichloroethane		Methane		Total Organic Carbon		NV Dissolved Organic Carbon	
					CAS No.	111-77-3		108-95-2		106-93-4		107-06-2		74-82-8		TOC		—	
					Method	8270D		SW8270		8011		8260		RSK 175		9060		9060	
					DOH Tier 1 EAL	800		300		0.04		5		—		—		—	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		500	
					Maximum	ND		ND		ND		ND		4.7		1100		1770	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result	
RHP08	ALS Kelso	K2310236	RHP08-WGN01LF-2309	9/11/2023	Primary	–		–		–		–		–		1100		1700	
RHP08	SGS Orlando	FC9542	RHP08-WGN01LF-2309	9/11/2023	Primary	–		<2	U	–		<0.5	U	<0.25	U	–		–	
RHP08	ALS Kelso	K2311328	RHP08-WGN01LF-2310	10/3/2023	Primary	–		–		–		–		–		<500	U	500	
RHP08	Energy	B23100338	RHP08-WGN01LF-2310	10/3/2023	Primary	–		–		<0.005	U	–		–		–		–	
RHP08	SGS Orlando	FC10202	RHP08-WGN01LF-2310	10/3/2023	Primary	–		<1.9	U	–		<0.5	U	0.3	J	–		–	
RHP08	APPL	23J0132	RHP08-WGN01LF-23Q4	10/11/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHP08	Energy	B23101127	RHP08-WGN01LF-23Q4	10/11/2023	Primary	–		–		<0.0047	UJ	<0.1	UJ	–		–		–	
RHP08	SGS Orlando	FC10442	RHP08-WGN01LF-23Q4	10/11/2023	Primary	–		<1.9	U	–		–		0.18	J	620	J-	–	
RHP08	APPL	23J0313	RHP08-WGN01LF-2310WK4-DF	10/27/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHP08	SGS Orlando	FC10809	RHP08-WGN01LF-2310WK4-DF	10/27/2023	Primary	–		<1.9	U	<0.014	U	<0.5	U	–		–		–	
RHP08	APPL	23K0019	RHP08-WGN01LF-2310WK5-DF	11/2/2023	Primary	<80	U	–		–		–		–		–		–	
RHP08	SGS Orlando	FC10943	RHP08-WGN01LF-2310WK5-DF	11/2/2023	Primary	–		<1.9	U	<0.014	U	<0.5	U	–		–		–	
RHP08	ALS Kelso	K2312628	RHP08-WGN01LF-2311-DF	11/6/2023	Primary	–		–		–		–		–		<500	U	800	
RHP08	APPL	23K0041	RHP08-WGN01LF-2311-DF	11/6/2023	Primary	<80	U	–		–		–		–		–		–	
RHP08	SGS Orlando	FC11019	RHP08-WGN01LF-2311-DF	11/6/2023	Primary	–		<1.9	U	<0.014	U	<0.5	U	–		–		–	
RHP08	SGS Orlando	FC11019B	RHP08-WGN01LF-2311-DF	11/6/2023	Primary	–		–		–		–		1.8		–		–	
RHP08	APPL	23K0106	RHP08-WGN01LF-2311WK2-DF	11/13/2023	Primary	<80	U	–		–		–		–		–		–	
RHP08	SGS Orlando	FC11221	RHP08-WGN01LF-2311WK2-DF	11/13/2023	Primary	–		<1.9	UJ	<0.014	U	<0.5	U	–		–		–	
RHP08	APPL	23K0205	RHP08-WGN01LF-2311WK3-DF	11/21/2023	Primary	<80	U	–		–		–		–		–		–	
RHP08	SGS Orlando	FC11473	RHP08-WGN01LF-2311WK3-DF	11/21/2023	Primary	–		<2	U	<0.015	U	<0.5	U	–		–		–	
RHP08	APPL	23K0236	RHP08-WGN01LF-2311WK4-DF	11/29/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHP08	SGS Orlando	FC11596	RHP08-WGN01LF-2311WK4-DF	11/29/2023	Primary	–		<2	U	<0.015	U	<0.5	U	–		–		–	
RHP08	APPL	23L0027	RHP08-WGN01LF-2312-DF	12/5/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHP08	SGS Anchorage	1236605_EDMS	RHP08-WGN01LF-2312-DF	12/5/2023	Primary	–		–		–		–		–		<750	U	1770	J+
RHP08	SGS Orlando	FC11717	RHP08-WGN01LF-2312-DF	12/5/2023	Primary	–		<1.9	U	<0.014	U	<0.5	U	–		–		–	
RHP08	SGS Orlando	FC11717B	RHP08-WGN01LF-2312-DF	12/5/2023	Primary	–		–		–		–		4.7		–		–	
RHP08	APPL	23L0108	RHP08-WGN01LF-2312WK2-DF	12/13/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHP08	SGS Orlando	FC11982	RHP08-WGN01LF-2312WK2-DF	12/13/2023	Primary	–		<1.9	U	–		<0.5	U	–		–		–	
RHP08	SGS Orlando	FC11982A	RHP08-WGN01LF-2312WK2-DF	12/13/2023	Primary	–		–		<0.015	U	–		–		–		–	
RHP08	APPL	23L0179	RHP08-WGN01LF-2312WK3-DF	12/20/2023	Primary	<80	UJ	–		–		–		–		–		–	
RHP08	SGS Orlando	FC12167	RHP08-WGN01LF-2312WK3-DF	12/20/2023	Primary	–		<1.9	U	<0.014	U	<0.5	U	–		–		–	
RHP08	APPL	23L0220	RHP08-WGN01LF-2312WK4-DF	12/28/2023	Primary	<80	U	–		–		–		–		–		–	
RHP08	SGS Orlando	FC12289	RHP08-WGN01LF-2312WK4-DF	12/28/2023	Primary	–		<2	U	<0.015	U	<0.5	U	–		–		–	
RHP08	APPL	24A0008	RHP08-WGN01LF-2401-DF	1/2/2024	Primary	<80	UJ	–		–		–		–		–		–	
RHP08	SGS Anchorage	1240028_EDMS	RHP08-WGN01LF-2401-DF	1/2/2024	Primary	–		–		–		–		–		<750	U	968	J+
RHP08	SGS Orlando	FC12338	RHP08-WGN01LF-2401-DF	1/2/2024	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	
RHP08	SGS Orlando	FC12338B	RHP08-WGN01LF-2401-DF	1/2/2024	Primary	–		–		–		–		<0.25	U	–		–	
RHP08	APPL	24A0066	RHP08-WGN01LF-2401WK2-DF	1/10/2024	Primary	<80	UJ	–		–		–		–		–		–	
RHP08	SGS Orlando	FC12522	RHP08-WGN01LF-2401WK2-DF	1/10/2024	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	
RHP08	APPL	24A0104	RHP08-WGN01LF-2401WK3-DF	1/15/2024	Primary	<80	UJ	–		–		–		–		–		–	
RHP08	SGS Orlando	FC12594	RHP08-WGN01LF-2401WK3-DF	1/15/2024	Primary	–		<2	U	<0.014	U	<0.5	U	–		–		–	

Notes:
See Data Legend

Appendix B.4.2 – Groundwater COPC Analytical Charts

Appendix B.4.2.1 – TPH Charts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200
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100
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9/18/2021
10/16/2021
11/13/2021
12/11/2021
1/8/2022
2/5/2022
3/5/2022
4/2/2022
4/30/2022
5/28/2022
6/25/2022
7/23/2022
8/20/2022
9/17/2022
10/15/2022
11/12/2022
12/10/2022
1/7/2023
2/4/2023
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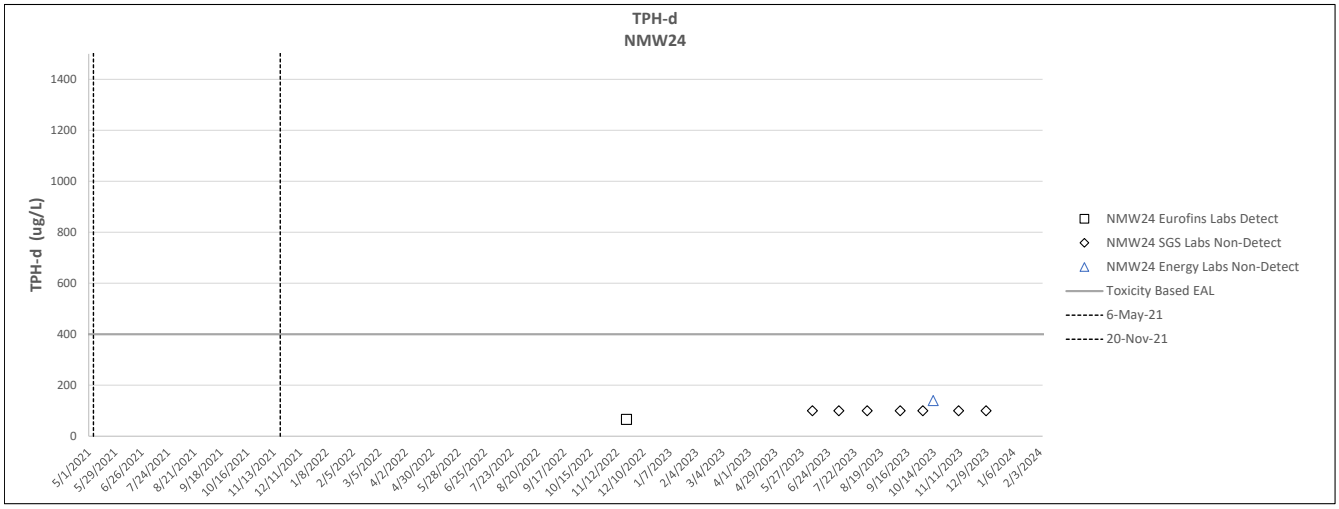
5/27/2023
6/24/2023
7/22/2023
8/19/2023
9/16/2023
10/14/2023
11/11/2023
12/9/2023
1/6/2024
2/3/2024
NMW24 Eurofins Labs Non-Detect
NMW24 SGS Labs Non-Detect
NMW24 Energy Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21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NMW24
TPH-d (ug/L)
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8/20/2022
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3/4/2023
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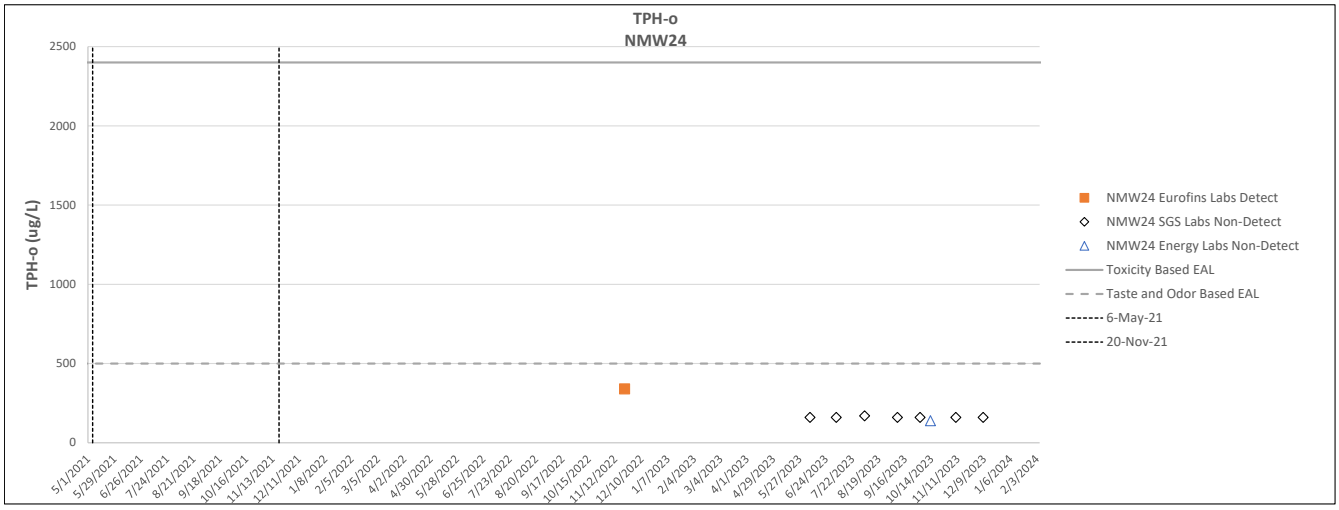
6/24/2023
7/22/2023
8/19/2023
9/16/2023
10/14/2023
11/11/2023
12/9/2023
1/6/2024
2/3/2024
NMW24 Eurofins Labs Detect
NMW24 SGS Labs Non-Detect
NMW24 Energy Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21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NMW24
TPH-o (ug/L)
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1500
1000
500
0
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5/29/2021
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7/24/2021
8/21/2021
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10/16/2021
11/13/2021
12/11/2021
1/8/2022
2/5/2022
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3/4/2023
4/1/2023
4/29/2023
5/27/2023
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10/14/2023
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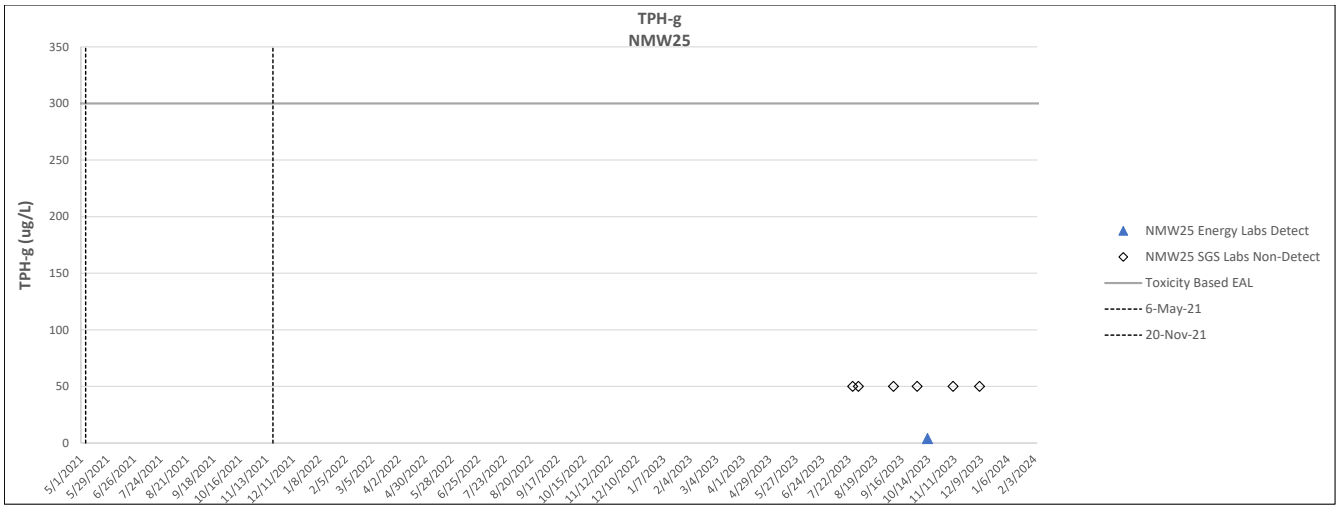
12/9/2023
1/6/2024
2/3/2024
NMW24 Eurofins Labs Detect
NMW24 SGS Labs Non-Detect
NMW24 Energy Labs Non-Detect
Toxicity Based EAL
Taste and Odor Based EAL
6-May-21
20-Nov-21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NMW25
TPH-g (ug/L)
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300
250
200
150
100
50
0
5/1/2021
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6/26/2021
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1/8/2022
2/5/2022
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2/4/2023
3/4/2023
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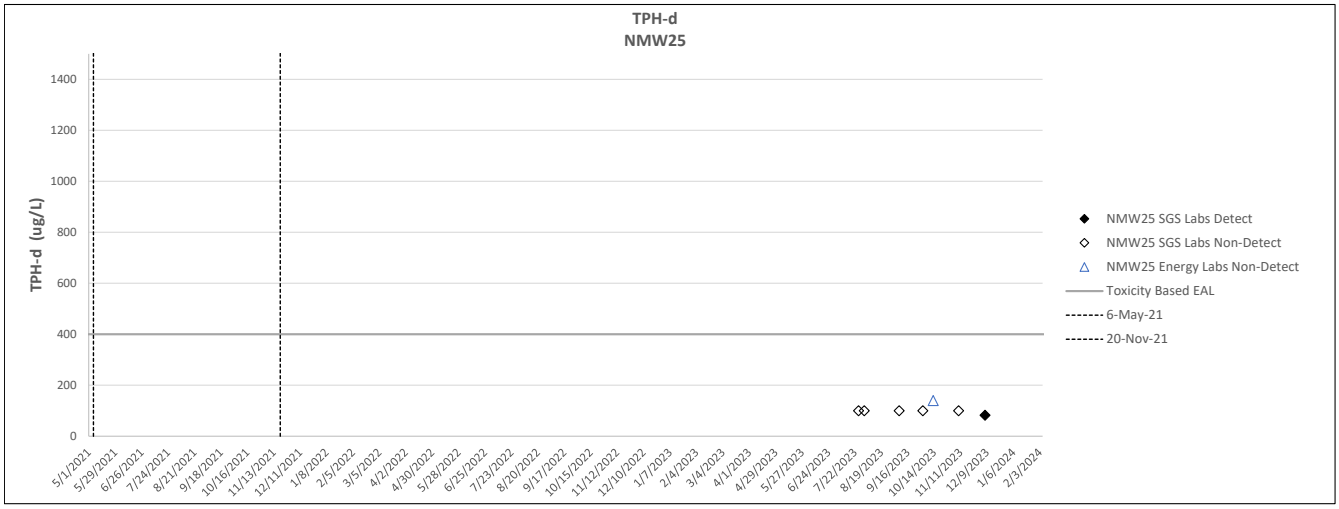
7/22/2023
8/19/2023
9/16/2023
10/14/2023
11/11/2023
12/9/2023
1/6/2024
2/3/2024
NMW25 Energy Labs Detect
NMW25 SGS Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21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TPH-d (ug/L)
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1200
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800
600
400
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0
5/1/2021
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6/24/2023
7/22/2023
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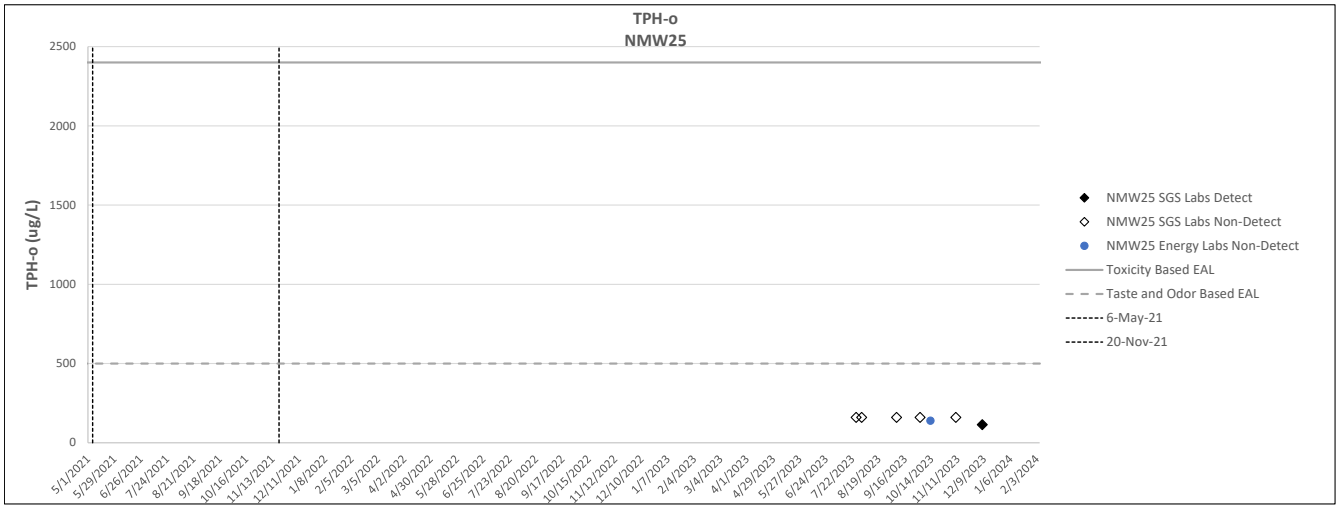
9/16/2023
10/14/2023
11/11/2023
12/9/2023
1/6/2024
2/3/2024
NMW25 SGS Labs Detect
NMW25 SGS Labs Non-Detect
NMW25 Energy Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21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NMW25
TPH-o (ug/L)
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2000
1500
1000
500
0
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7/22/2023
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11/11/2023
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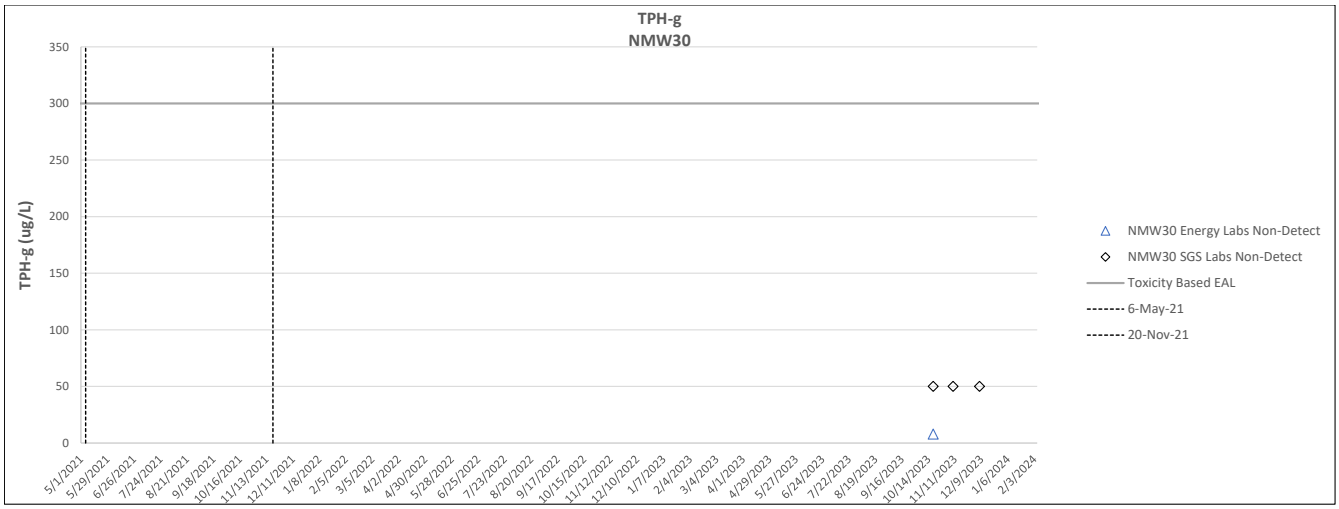
1/6/2024
2/3/2024
NMW25 SGS Labs Detect
NMW25 SGS Labs Non-Detect
NMW25 Energy Labs Non-Detect
Toxicity Based EAL
Taste and Odor Based EAL
6-May-21
20-Nov-21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NMW30
TPH-g (ug/L)
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300
250
200
150
100
50
0
5/1/2021
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7/22/2023
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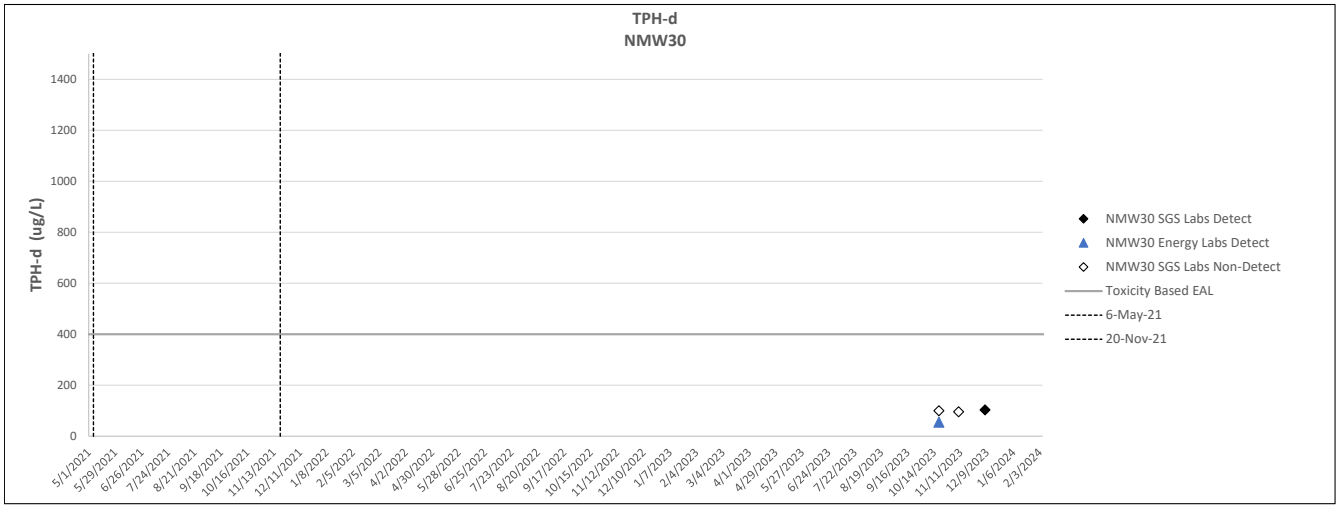
9/16/2023
10/14/2023
11/11/2023
12/9/2023
1/6/2024
2/3/2024
NMW30 Energy Labs Non-Detect
NMW30 SGS Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21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NMW30
TPH-d (ug/L)
1400
1200
1000
800
600
400
200
0
5/1/2021
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3/4/2023
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4/29/2023
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6/24/2023
7/22/2023
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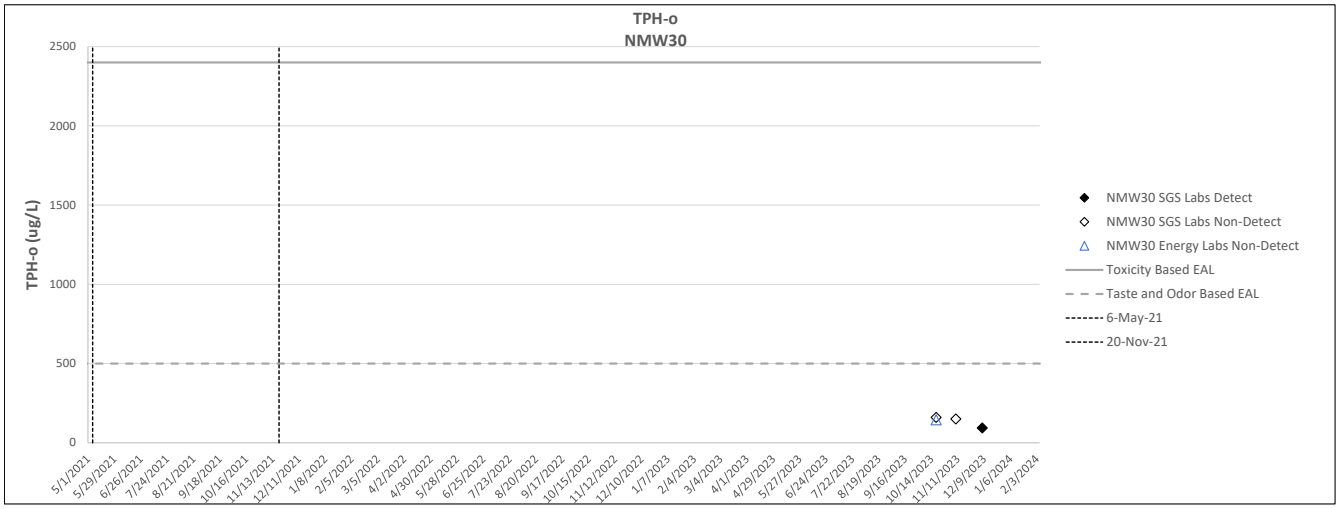
9/16/2023
10/14/2023
11/11/2023
12/9/2023
1/6/2024
2/3/2024
NMW30 SGS Labs Detect
NMW30 Energy Labs Detect
NMW30 SGS Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-o
NMW30
TPH-o (ug/L)
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2000
1500
1000
500
0
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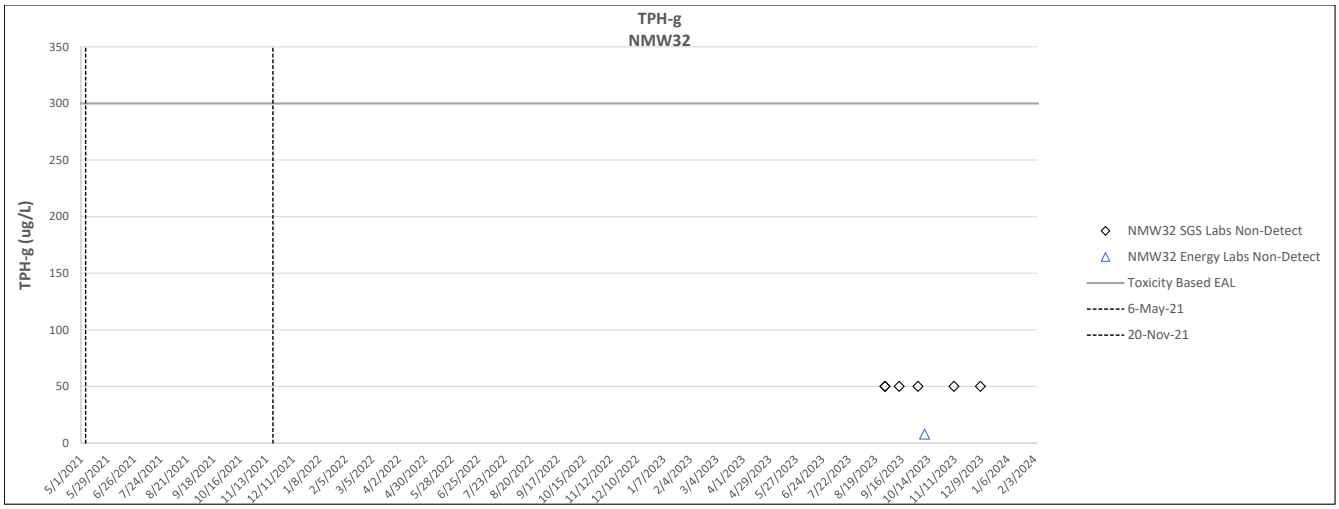
2/3/2024
NMW30 SGS Labs Detect
NMW30 SGS Labs Non-Detect
NMW30 Energy Labs Non-Detect
Toxicity Based EAL
Taste and Odor Based EAL
6-May-21
20-Nov-21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NMW32
TPH-g (ug/L)
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200
150
100
50
0
5/1/2021
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3/4/2023
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7/22/2023
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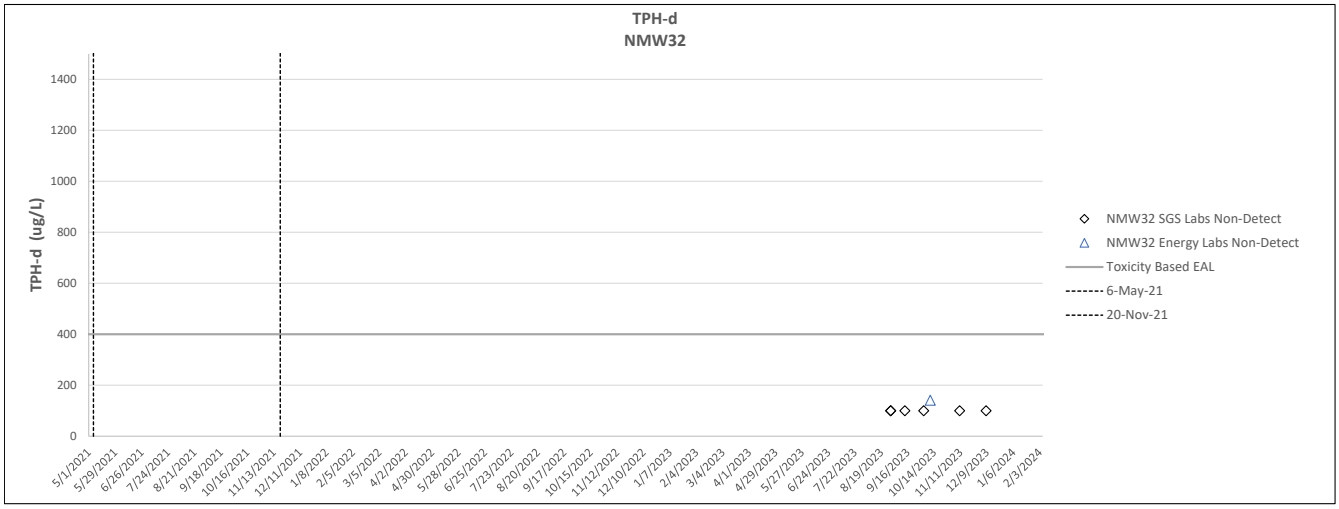
9/16/2023
10/14/2023
11/11/2023
12/9/2023
1/6/2024
2/3/2024
NMW32 SGS Labs Non-Detect
NMW32 Energy Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21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NMW32
TPH-d (ug/L)
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1200
1000
800
600
400
200
0
5/1/2021
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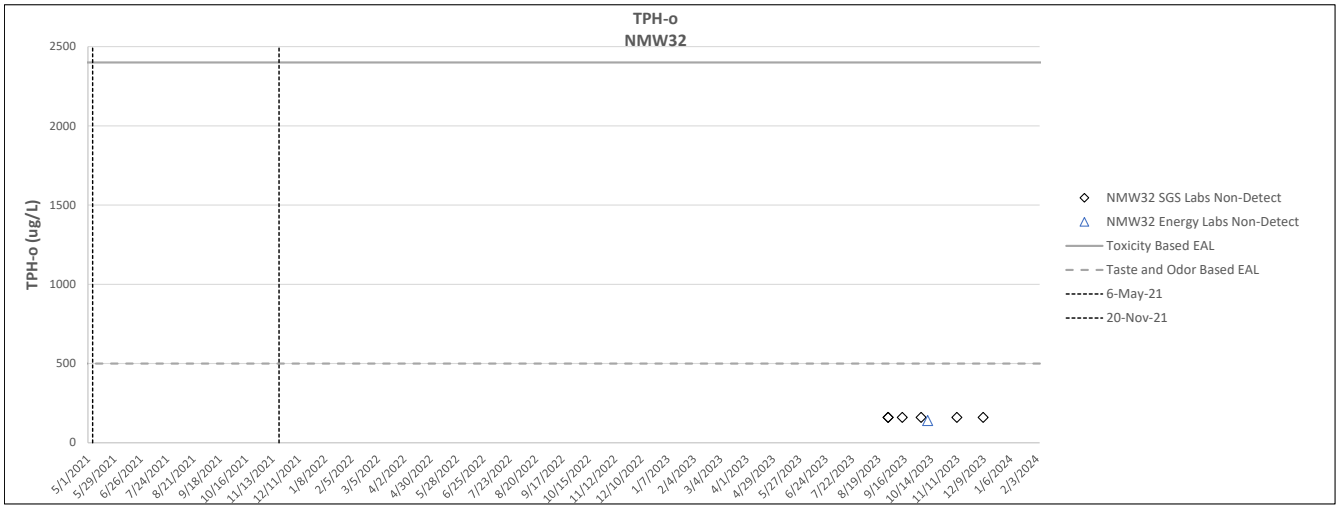
10/14/2023
11/11/2023
12/9/2023
1/6/2024
2/3/2024
NMW32 SGS Labs Non-Detect
NMW32 Energy Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-o
NMW32
TPH-o (ug/L)
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2000
1500
1000
500
0
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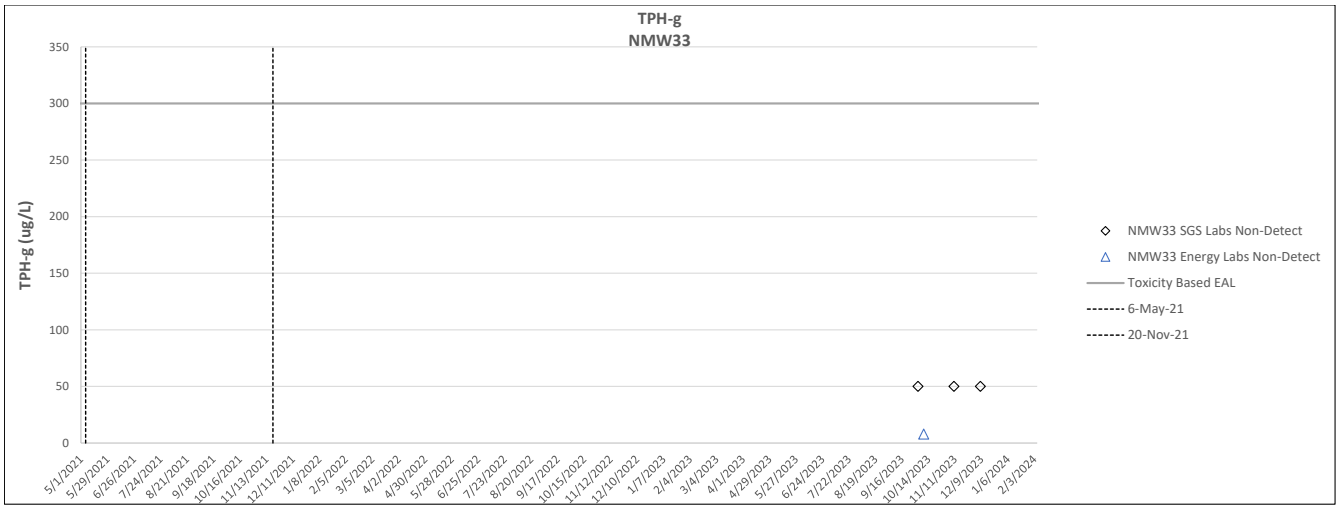
1/6/2024
2/3/2024
NMW32 SGS Labs Non-Detect
NMW32 Energy Labs Non-Detect
Toxicity Based EAL
Taste and Odor Based EAL
6-May-21
20-Nov-21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NMW33
TPH-g (ug/L)
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300
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200
150
100
50
0
5/1/2021
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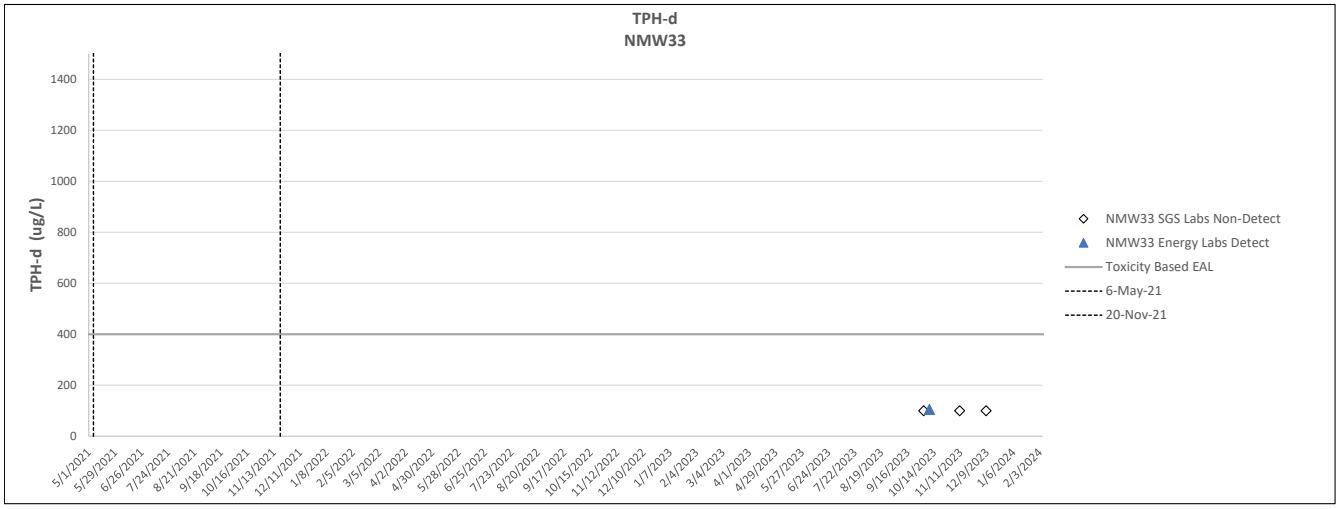
10/14/2023
11/11/2023
12/9/2023
1/6/2024
2/3/2024
NMW33 SGS Labs Non-Detect
NMW33 Energy Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21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TPH-d (ug/L)
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1200
1000
800
600
400
200
0
5/1/2021
5/29/2021
6/26/2021
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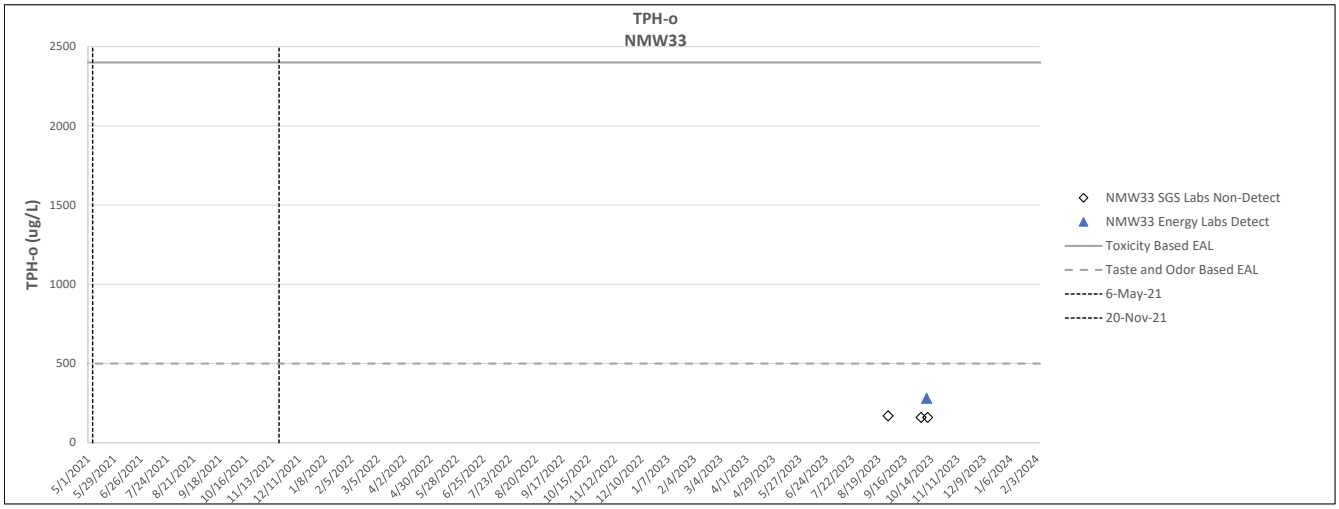
10/14/2023
11/11/2023
12/9/2023
1/6/2024
2/3/2024
NMW33 SGS Labs Non-Detect
NMW33 Energy Labs Detect
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-o
NMW33
TPH-o (ug/L)
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2000
1500
1000
500
0
5/1/2021
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7/24/2021
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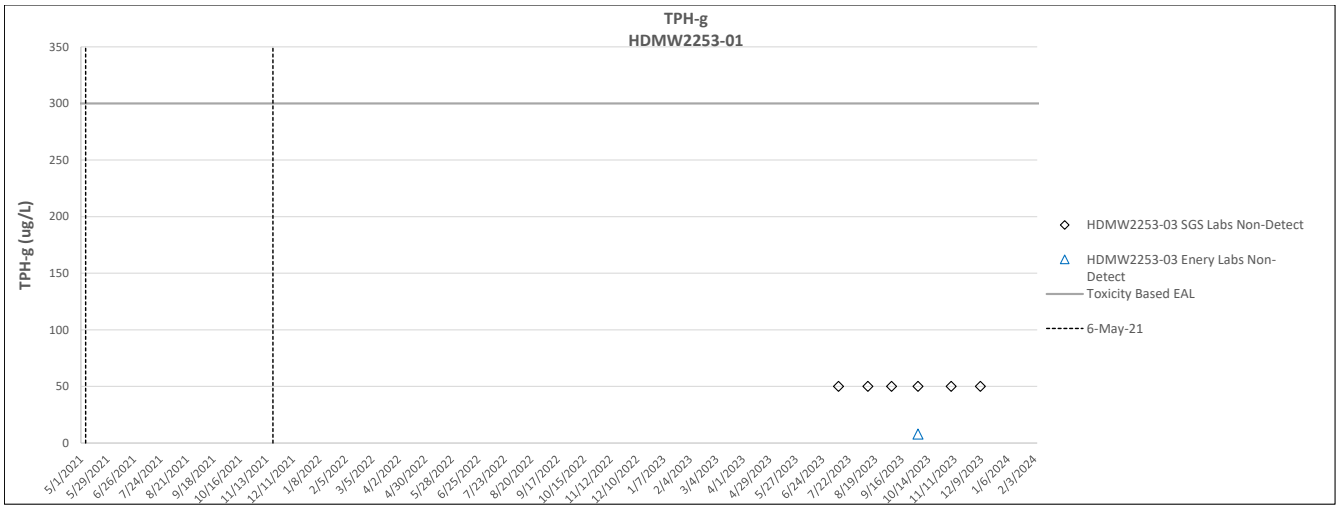
2/3/2024
NMW33 SGS Labs Non-Detect
NMW33 Energy Labs Detect
Toxicity Based EAL
Taste and Odor Based EAL
6-May-21
20-Nov-21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HDMW2253-01
TPH-g (ug/L)
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200
150
100
50
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11/11/2023
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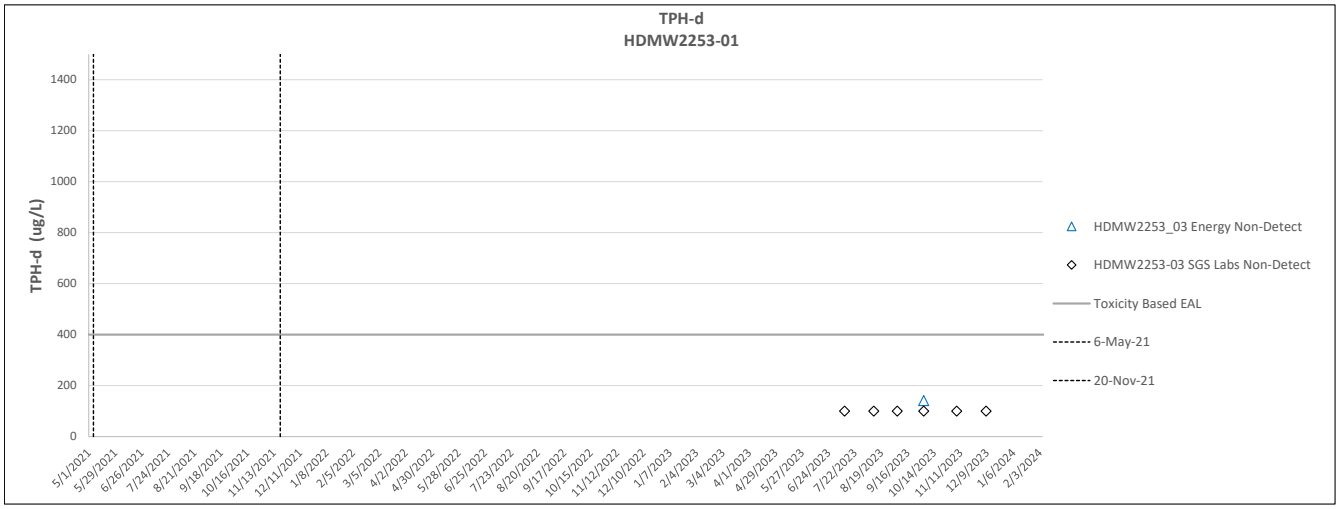
1/6/2024
2/3/2024
HDMW2253-03 SGS Labs Non-Detect
HDMW2253-03 Enery Labs Non-Detect
Toxicity Based EAL
6-May-21


TPH-d
HDMW2253-01
TPH-d (ug/L)
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1200
1000
800
600
400
200
0
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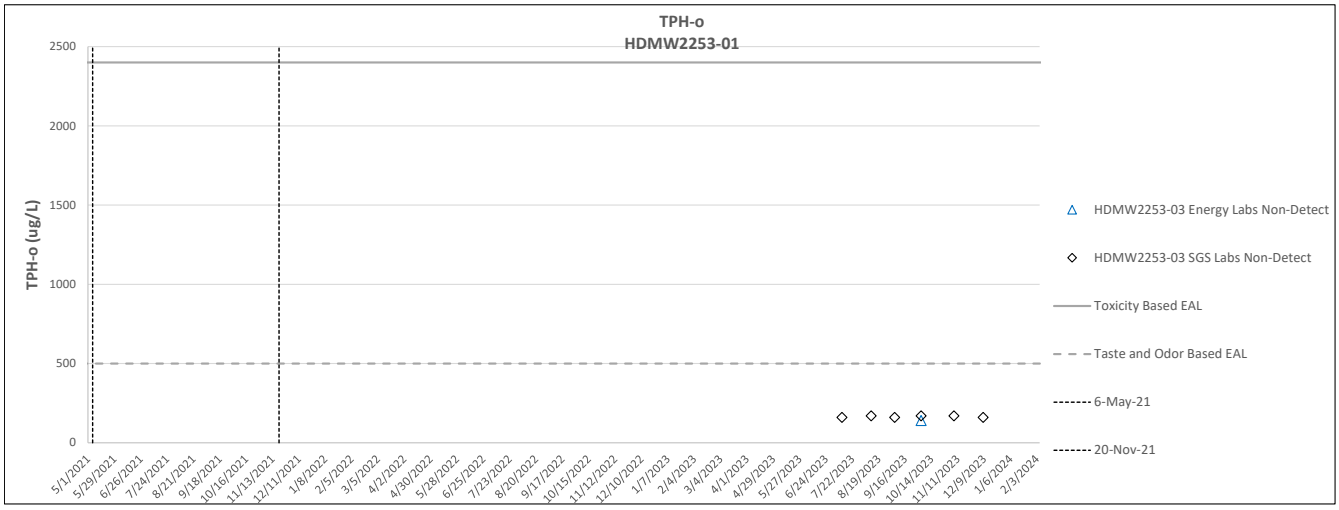
2/3/2024
HDMW2253_03 Energy Non-Detect
HDMW2253-03 SGS Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21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TPH-o (ug/L)
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2000
1500
1000
500
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5/1/2021
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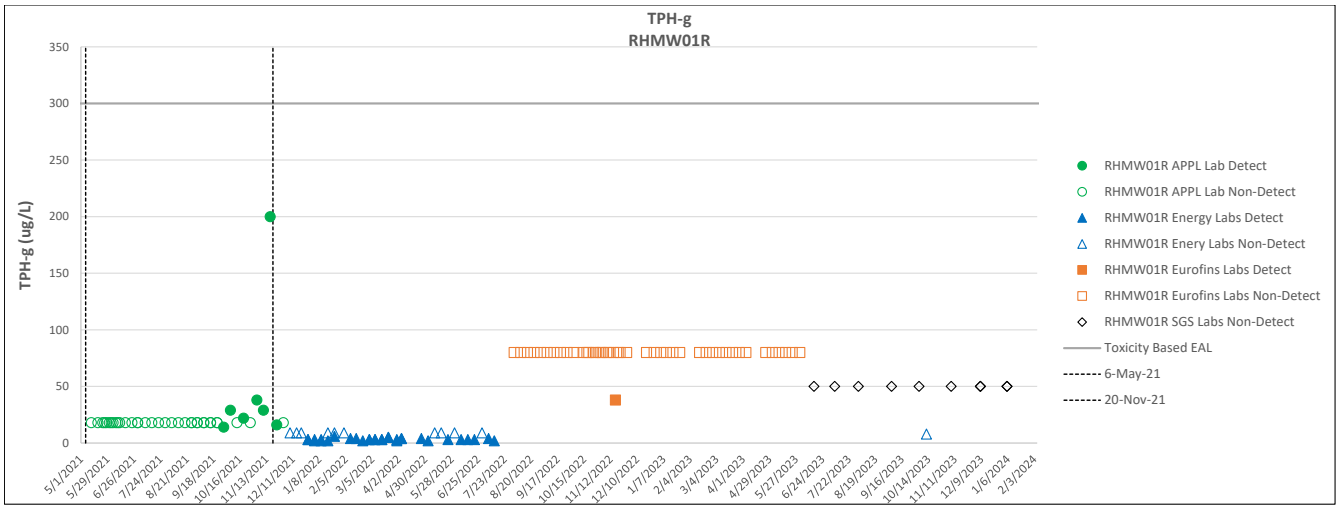
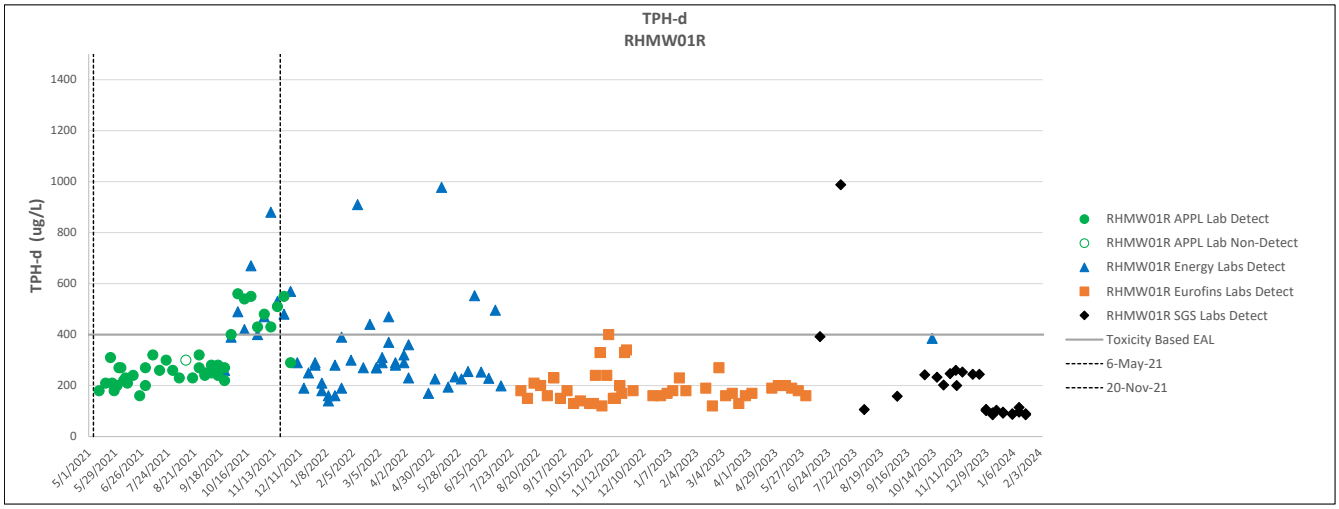
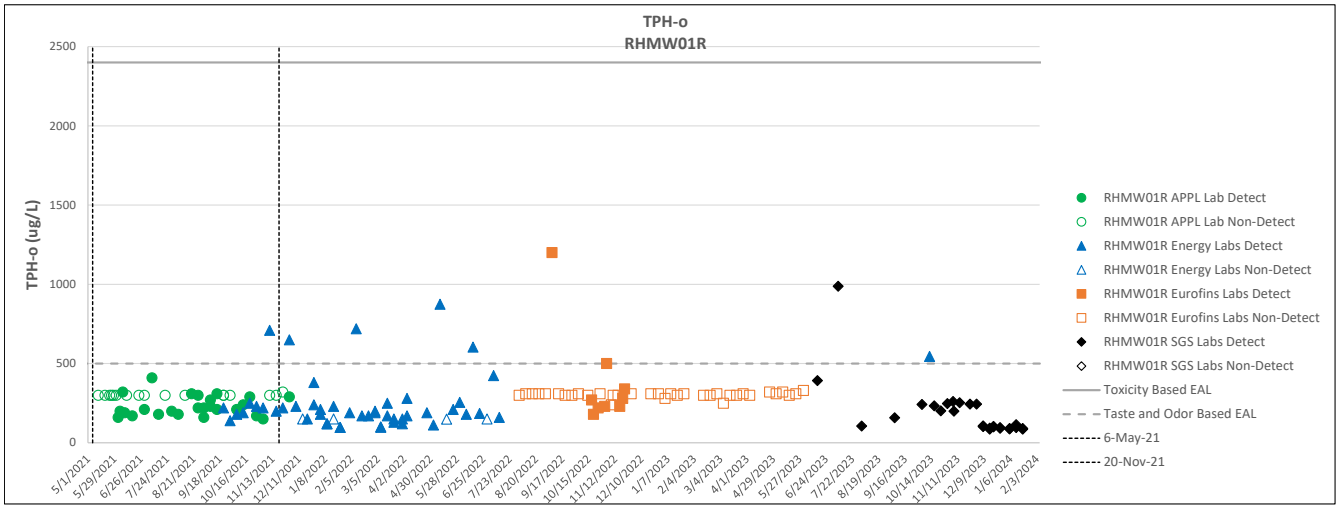
HDMW2253-03 Energy Labs Non-Detect
HDMW2253-03 SGS Labs Non-Detect
Toxicity Based EAL
Taste and Odor Based EAL
6-May-21
20-Nov-21

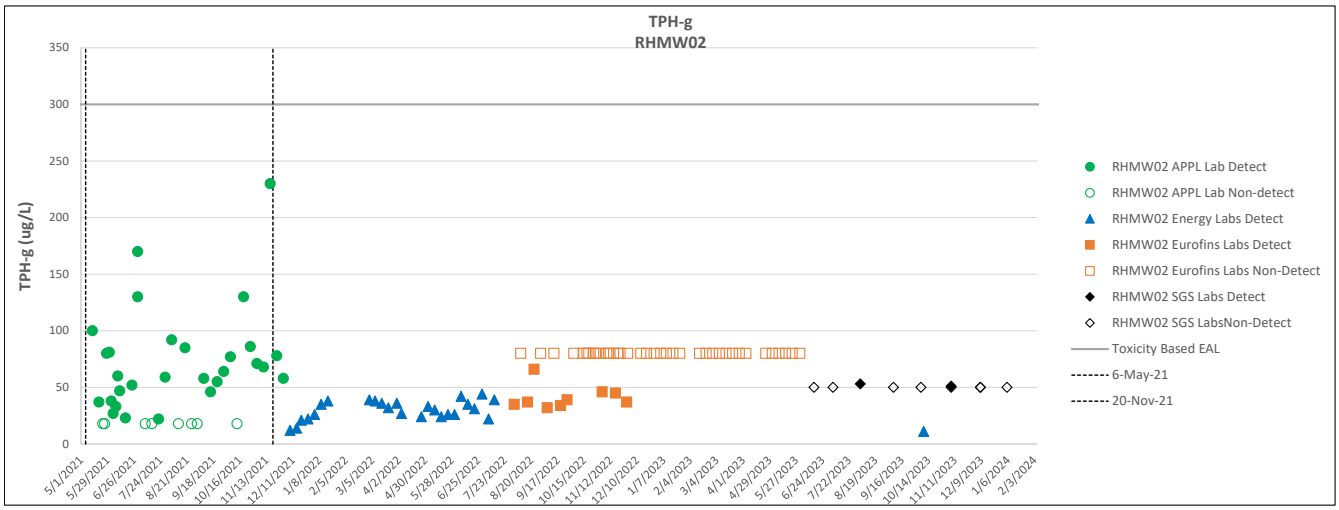


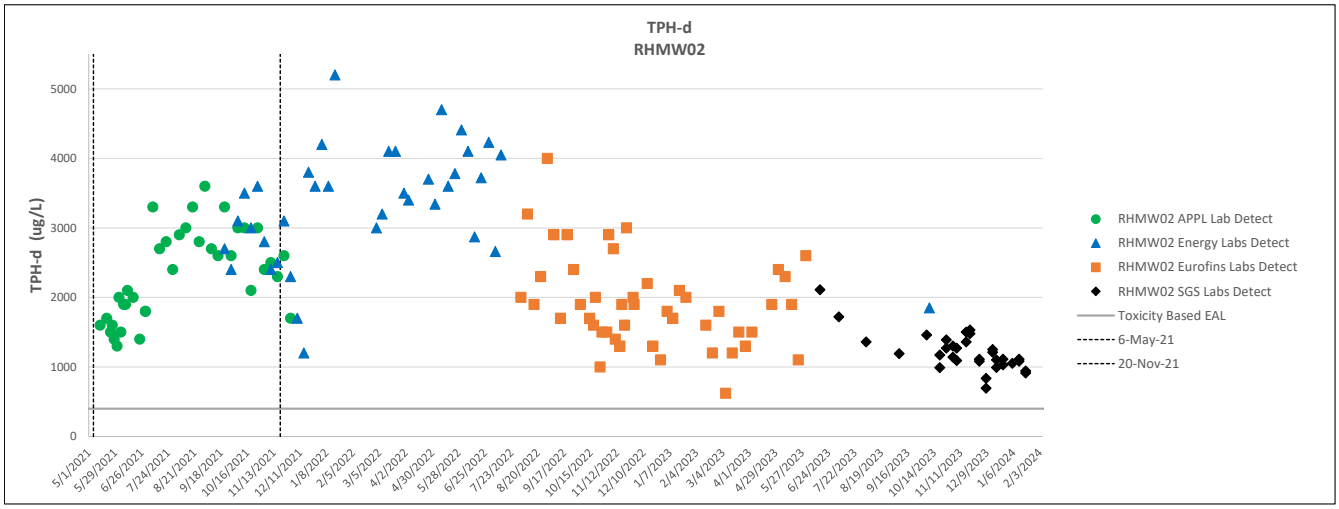


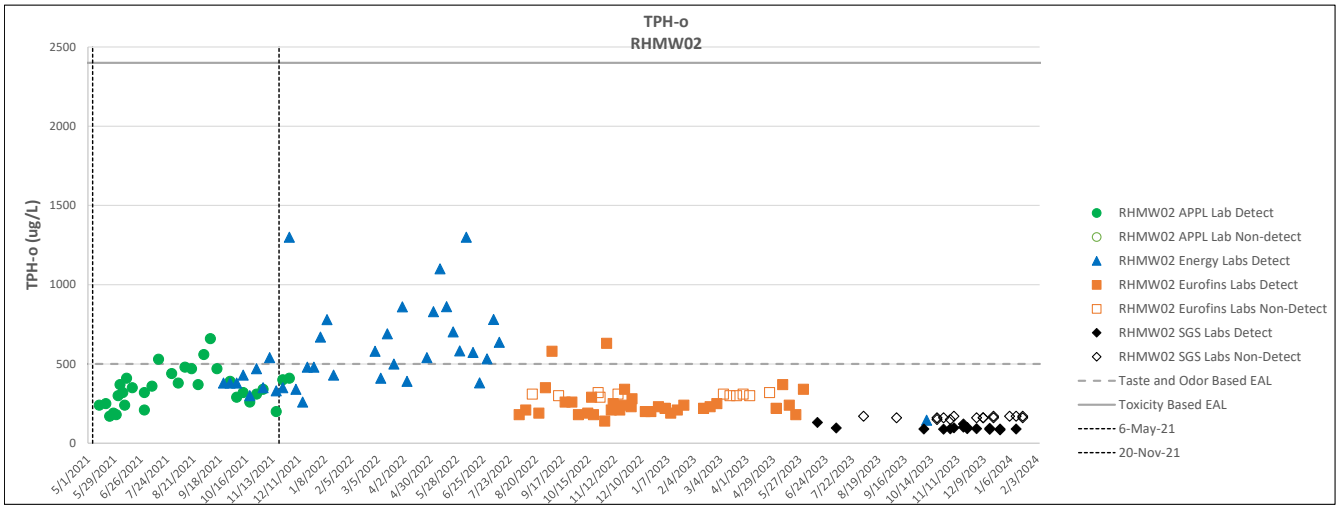


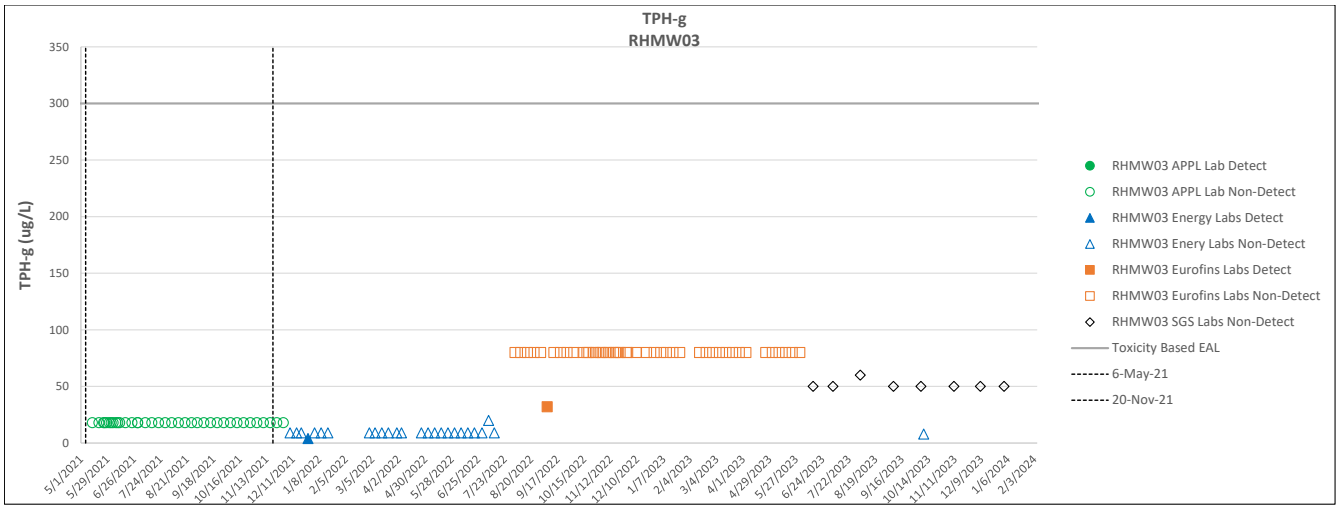
Notes:

[1] Sample collected on 12/20/2021 was reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.


TPH-g
RHMW02
TPH-g (ug/L)
RHMW02 APPL Lab Detect
RHMW02 APPL Lab Non-detect
RHMW02 Energy Labs Detect
RHMW02 Eurofins Labs Detect
RHMW02 Eurofins Labs Non-Detect
RHMW02 SGS Labs Detect
RHMW02 SGS LabsNon-Detect
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-d
RHMW02
TPH-d (ug/L)
RHMW02 APPL Lab Detect
RHMW02 Energy Labs Detect
RHMW02 Eurofins Labs Detect
RHMW02 SGS Labs Detect
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-o
RHMW02
TPH-o (ug/L)
RHMW02 APPL Lab Detect
RHMW02 APPL Lab Non-detect
RHMW02 Energy Labs Detect
RHMW02 Eurofins Labs Detect
RHMW02 Eurofins Labs Non-Detect
RHMW02 SGS Labs Detect
RHMW02 SGS Labs Non-Detect
Taste and Odor Based EAL
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-g
RHMW03
TPH-g (ug/L)
350
300
250
200
150
100
50
0
5/1/2021
5/29/2021
6/26/2021
7/24/2021
8/21/2021
9/18/2021
10/16/2021
11/13/2021
12/11/2021
1/8/2022
2/5/2022
3/5/2022
4/2/2022
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6/25/2022
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4/1/2023
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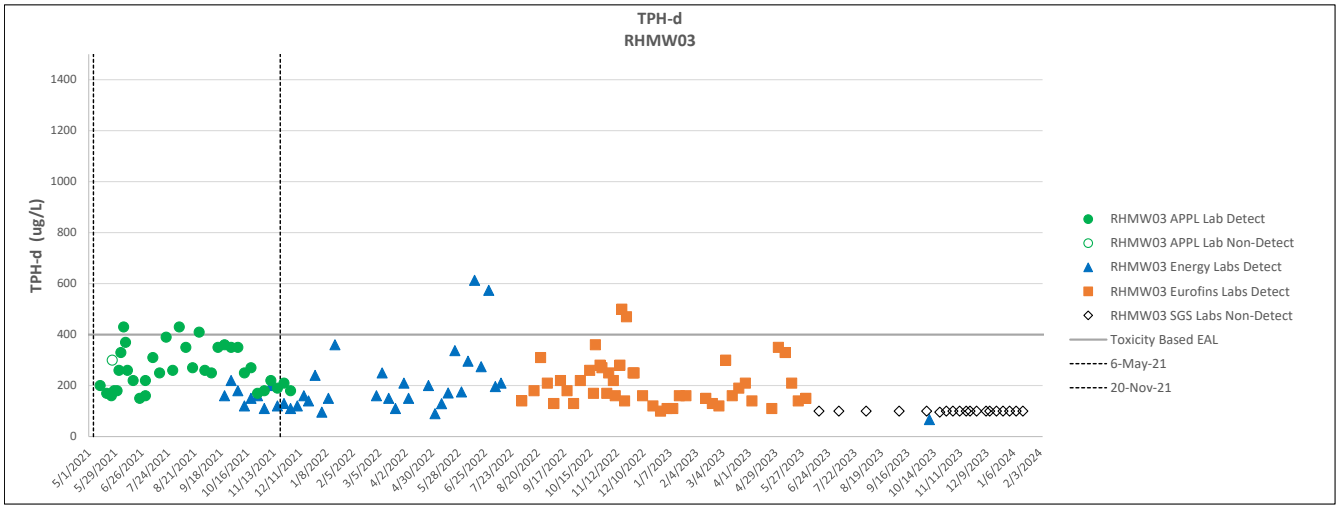
8/19/2023
9/16/2023
10/14/2023
11/11/2023
12/9/2023
1/6/2024
2/3/2024
RHMW03 APPL Lab Detect
RHMW03 APPL Lab Non-Detect
RHMW03 Energy Labs Detect
RHMW03 Enery Labs Non-Detect
RHMW03 Eurofins Labs Detect
RHMW03 Eurofins Labs Non-Detect
RHMW03 SGS Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-d
RHMW03
TPH-d (ug/L)
1400
1200
1000
800
600
400
200
0
5/1/2021
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6/26/2021
7/24/2021
8/21/2021
9/18/2021
10/16/2021
11/13/2021
12/11/2021
1/8/2022
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4/30/2022
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7/23/2022
8/20/2022
9/17/2022
10/15/2022
11/12/2022
12/10/2022
1/7/2023
2/4/2023
3/4/2023
4/1/2023
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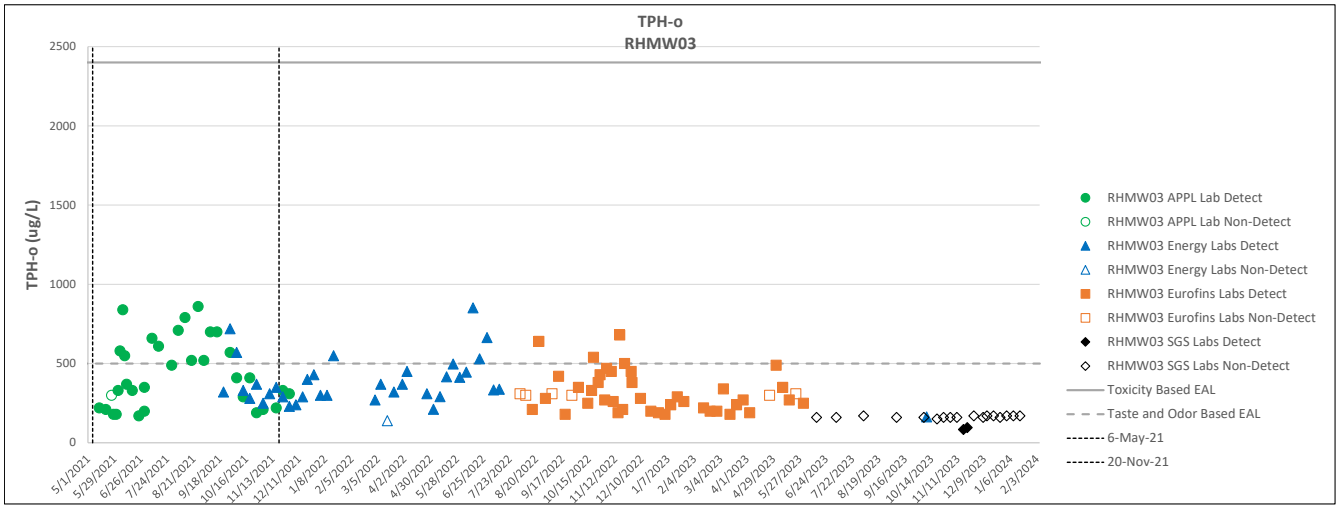
6/24/2023
7/22/2023
8/19/2023
9/16/2023
10/14/2023
11/11/2023
12/9/2023
1/6/2024
2/3/2024
RHMW03 APPL Lab Detect
RHMW03 APPL Lab Non-Detect
RHMW03 Energy Labs Detect
RHMW03 Eurofins Labs Detect
RHMW03 SGS Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-o
RHMW03
TPH-o (ug/L)
2500
2000
1500
1000
500
0
5/1/2021
5/29/2021
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7/24/2021
8/21/2021
9/18/2021
10/16/2021
11/13/2021
12/11/2021
1/8/2022
2/5/2022
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7/22/2023
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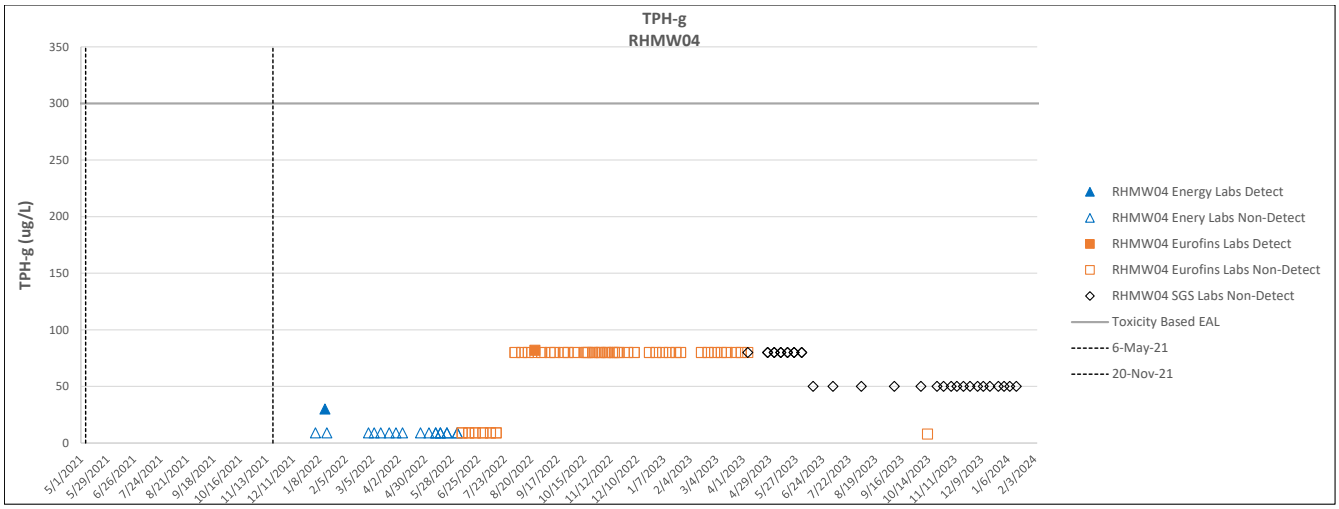
11/11/2023
12/9/2023
1/6/2024
2/3/2024
RHMW03 APPL Lab Detect
RHMW03 APPL Lab Non-Detect
RHMW03 Energy Labs Detect
RHMW03 Energy Labs Non-Detect
RHMW03 Eurofins Labs Detect
RHMW03 Eurofins Labs Non-Detect
RHMW03 SGS Labs Detect
RHMW03 SGS Labs Non-Detect
Toxicity Based EAL
Taste and Odor Based EAL
6-May-21
20-Nov-21


TPH-g
RHMW04
TPH-g (ug/L)
350
300
250
200
150
100
50
0
5/1/2021
5/29/2021
6/26/2021
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7/22/2023
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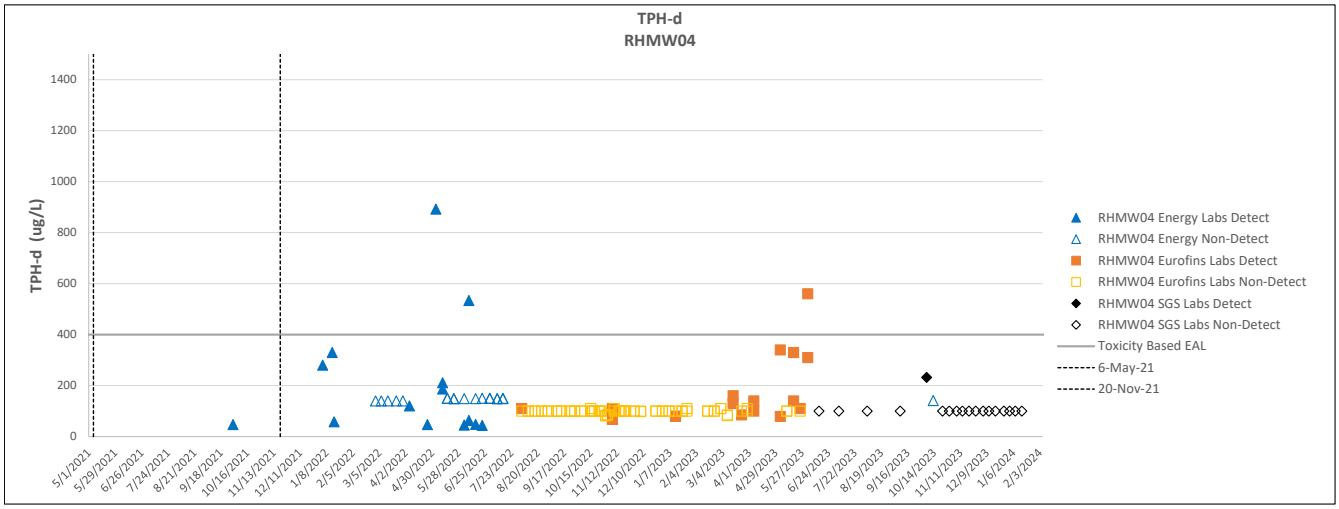
2/3/2024
RHMW04 Energy Labs Detect
RHMW04 Enery Labs Non-Detect
RHMW04 Eurofins Labs Detect
RHMW04 Eurofins Labs Non-Detect
RHMW04 SGS Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-d
RHMW04
TPH-d (ug/L)
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1200
1000
800
600
400
200
0
5/1/2021
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8/21/2021
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12/11/2021
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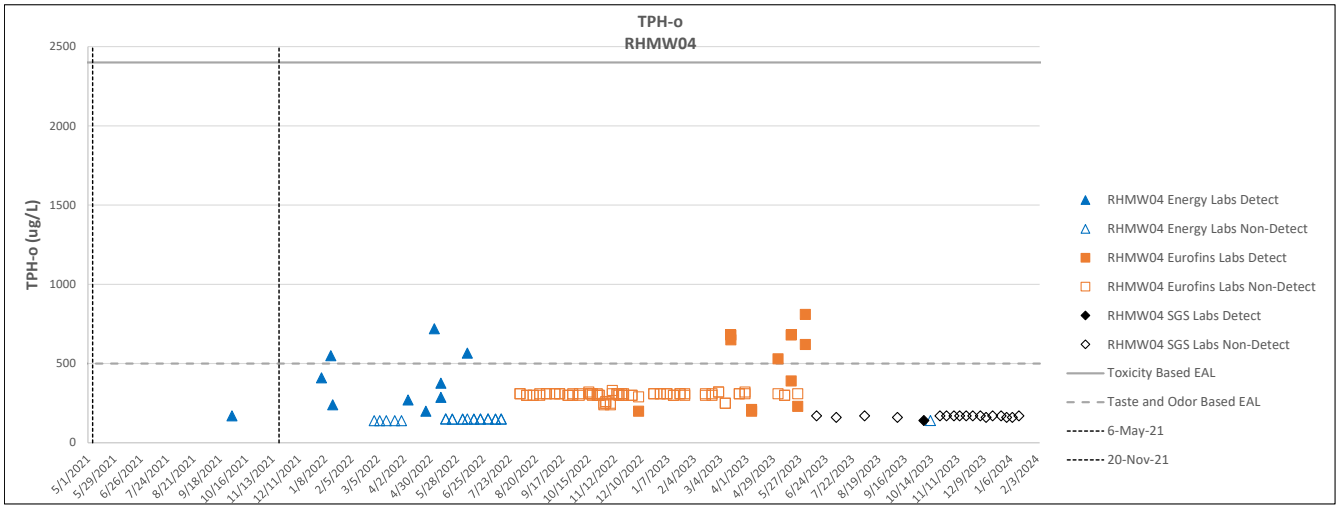
1/6/2024
2/3/2024
RHMW04 Energy Labs Detect
RHMW04 Energy Non-Detect
RHMW04 Eurofins Labs Detect
RHMW04 Eurofins Labs Non-Detect
RHMW04 SGS Labs Detect
RHMW04 SGS Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-o
RHMW04
TPH-o (ug/L)
2500
2000
1500
1000
500
0
5/1/2021
5/29/2021
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7/24/2021
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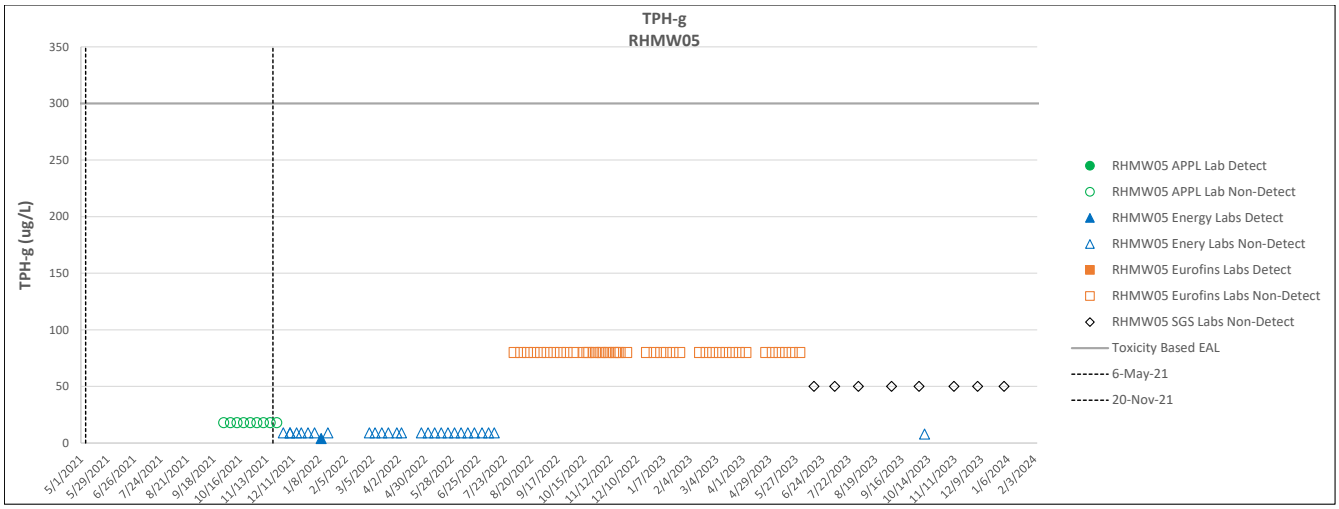
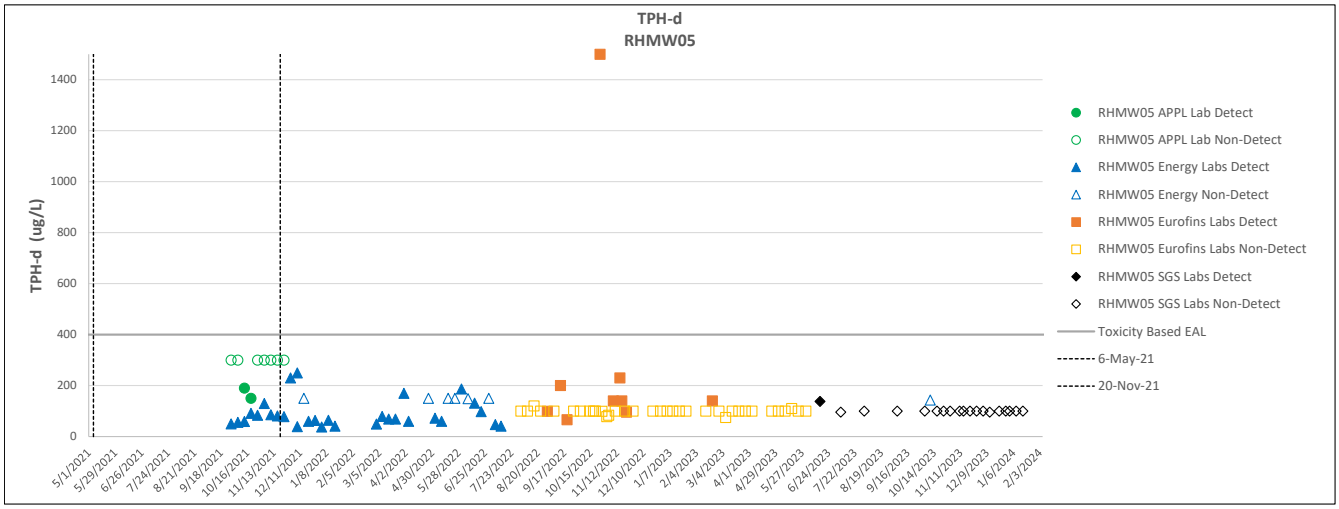
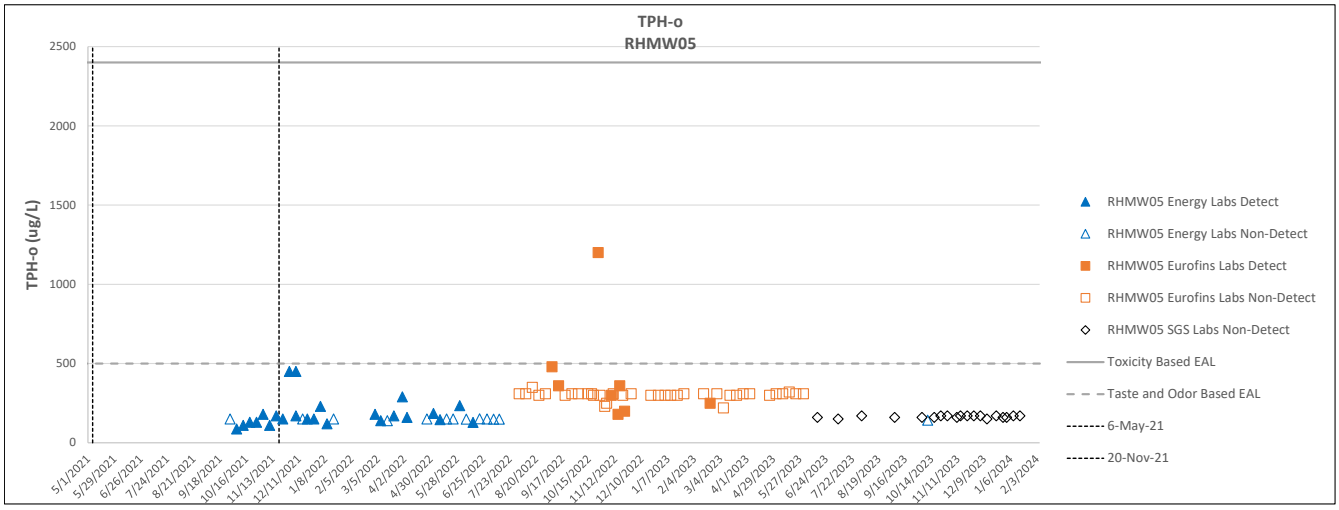
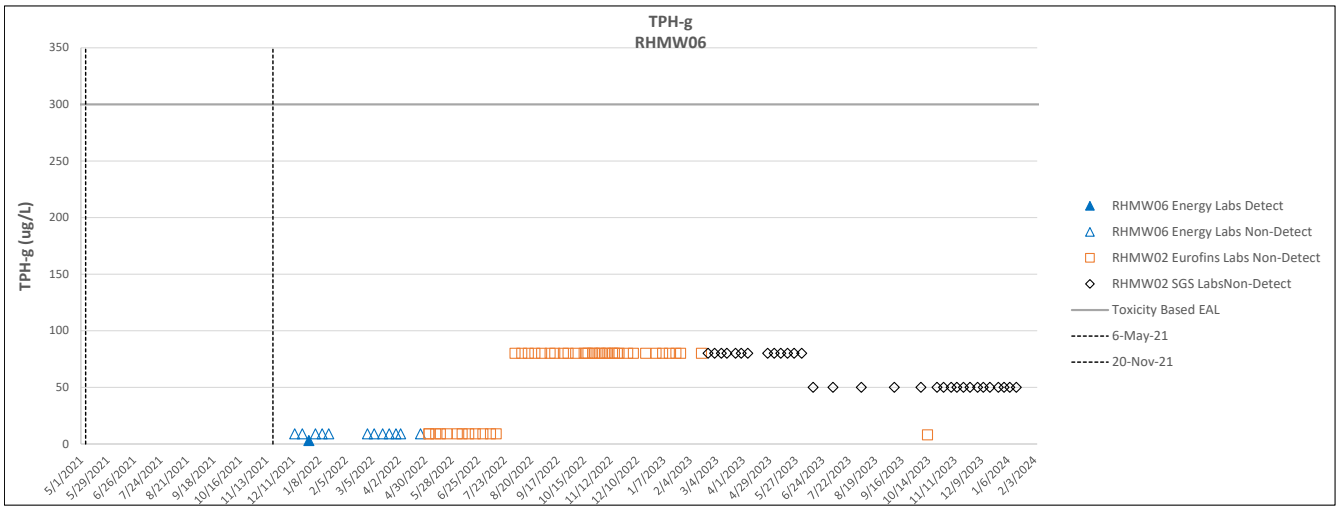
2/3/2024
RHMW04 Energy Labs Detect
RHMW04 Energy Labs Non-Detect
RHMW04 Eurofins Labs Detect
RHMW04 Eurofins Labs Non-Detect
RHMW04 SGS Labs Detect
RHMW04 SGS Labs Non-Detect
Toxicity Based EAL
Taste and Odor Based EAL
6-May-21
20-Nov-21


TPH-g
RHMW05
TPH-g (ug/L)
RHMW05 APPL Lab Detect
RHMW05 APPL Lab Non-Detect
RHMW05 Energy Labs Detect
RHMW05 Enery Labs Non-Detect
RHMW05 Eurofins Labs Detect
RHMW05 Eurofins Labs Non-Detect
RHMW05 SGS Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-d
RHMW05
TPH-d (ug/L)
RHMW05 APPL Lab Detect
RHMW05 APPL Lab Non-Detect
RHMW05 Energy Labs Detect
RHMW05 Energy Non-Detect
RHMW05 Eurofins Labs Detect
RHMW05 Eurofins Labs Non-Detect
RHMW05 SGS Labs Detect
RHMW05 SGS Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-o
RHMW05
TPH-o (ug/L)
RHMW05 Energy Labs Detect
RHMW05 Energy Labs Non-Detect
RHMW05 Eurofins Labs Detect
RHMW05 Eurofins Labs Non-Detect
RHMW05 SGS Labs Non-Detect
Toxicity Based EAL
Taste and Odor Based EAL
6-May-21
20-Nov-21


TPH-g
RHMW06
TPH-g (ug/L)
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300
250
200
150
100
50
0
5/1/2021
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7/24/2021
8/21/2021
9/18/2021
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11/13/2021
12/11/2021
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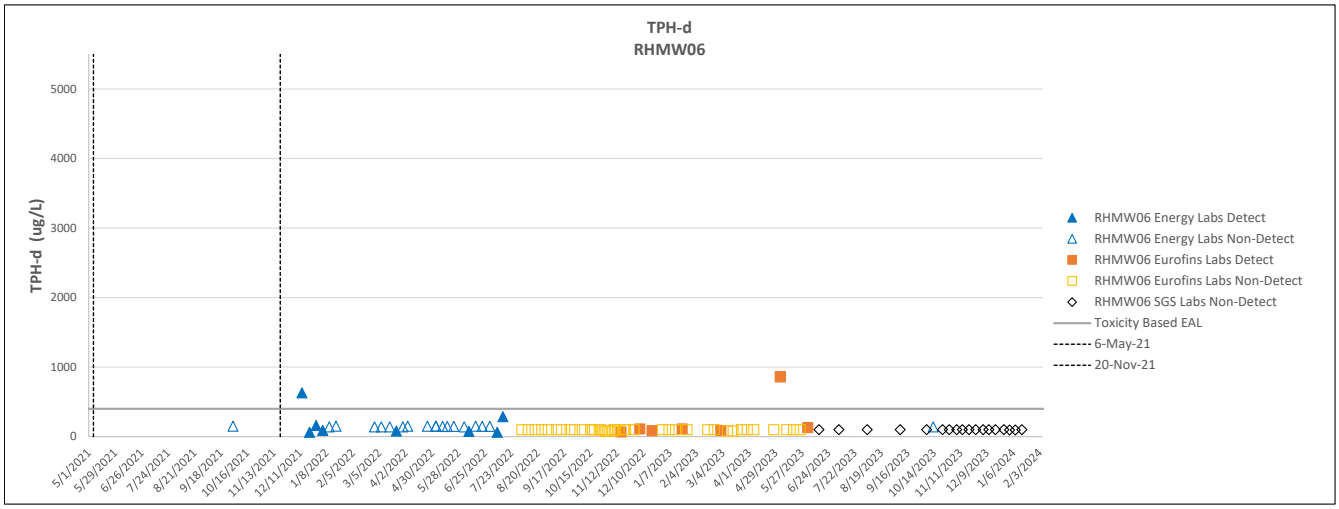
2/3/2024
RHMW06 Energy Labs Detect
RHMW06 Energy Labs Non-Detect
RHMW02 Eurofins Labs Non-Detect
RHMW02 SGS LabsNon-Detect
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-d
RHMW06
TPH-d (ug/L)
5000
4000
3000
2000
1000
0
5/1/2021
5/29/2021
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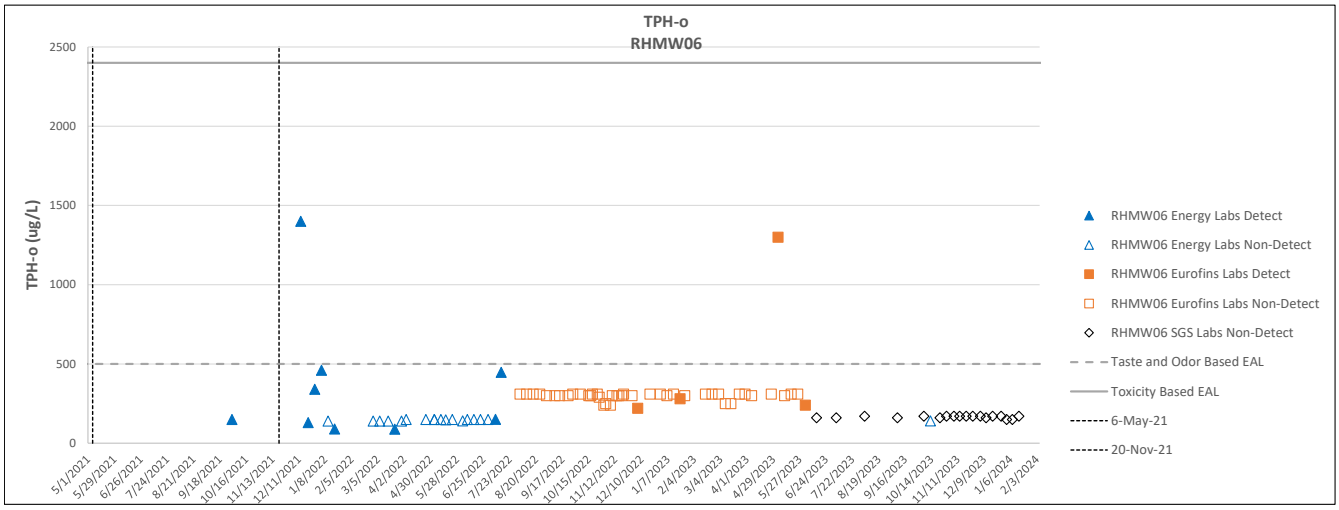
2/3/2024
RHMW06 Energy Labs Detect
RHMW06 Energy Labs Non-Detect
RHMW06 Eurofins Labs Detect
RHMW06 Eurofins Labs Non-Detect
RHMW06 SGS Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-o
RHMW06
TPH-o (ug/L)
2500
2000
1500
1000
500
0
5/1/2021
5/29/2021
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10/14/2023
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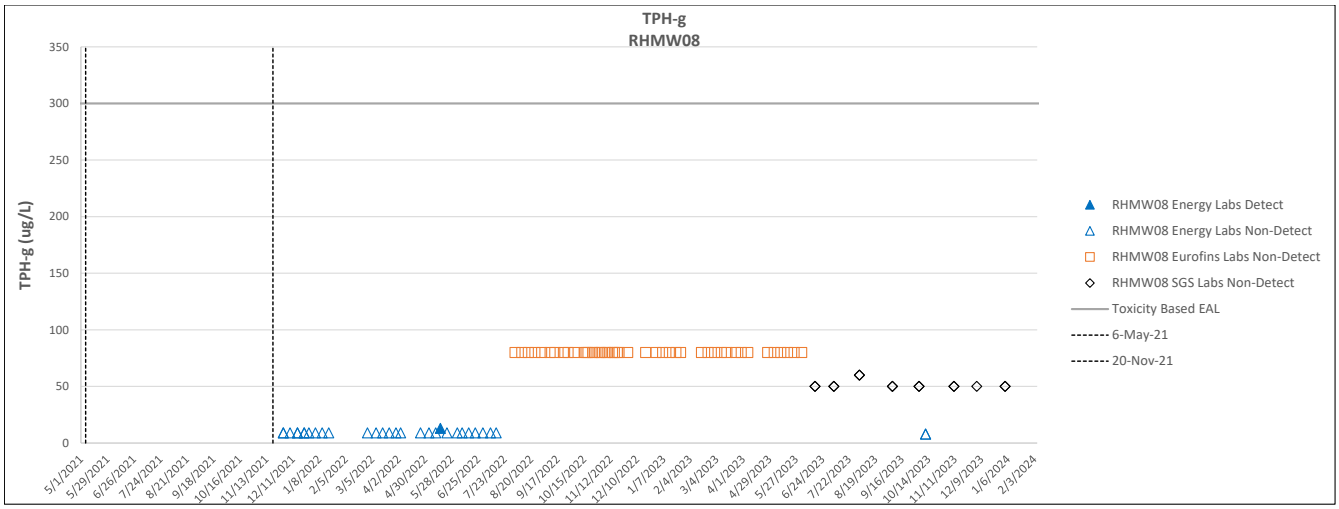
2/3/2024
RHMW06 Energy Labs Detect
RHMW06 Energy Labs Non-Detect
RHMW06 Eurofins Labs Detect
RHMW06 Eurofins Labs Non-Detect
RHMW06 SGS Labs Non-Detect
Taste and Odor Based EAL
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-g
RHMW08
TPH-g (ug/L)
350
300
250
200
150
100
50
0
5/1/2021
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9/16/2023
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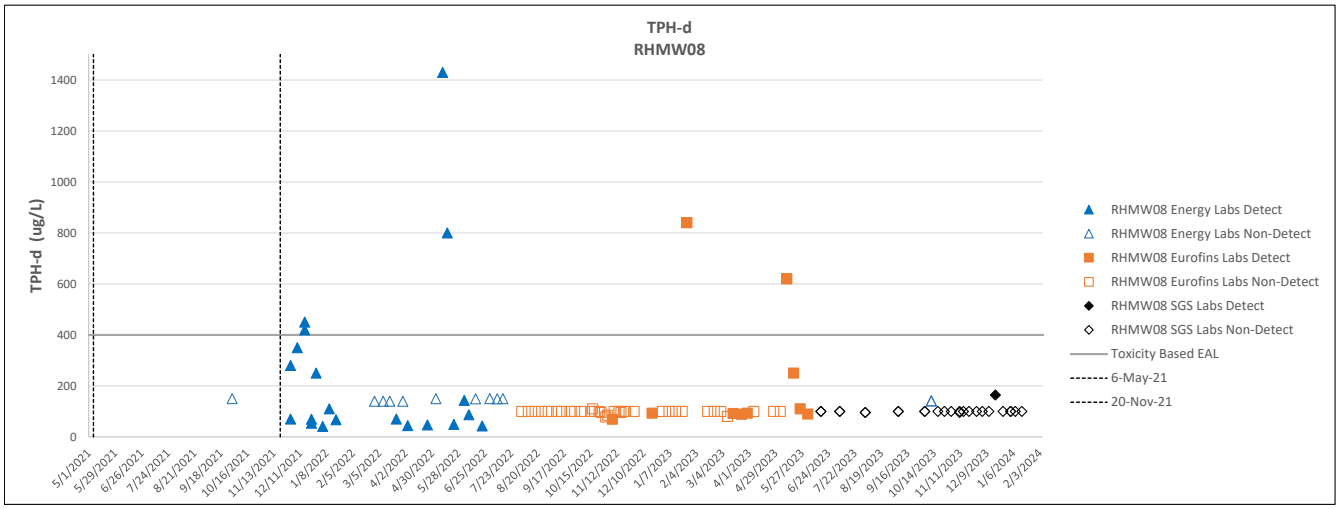
2/3/2024
RHMW08 Energy Labs Detect
RHMW08 Energy Labs Non-Detect
RHMW08 Eurofins Labs Non-Detect
RHMW08 SGS Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-d
RHMW08
TPH-d (ug/L)
1400
1200
1000
800
600
400
200
0
5/1/2021
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6/26/2021
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8/21/2021
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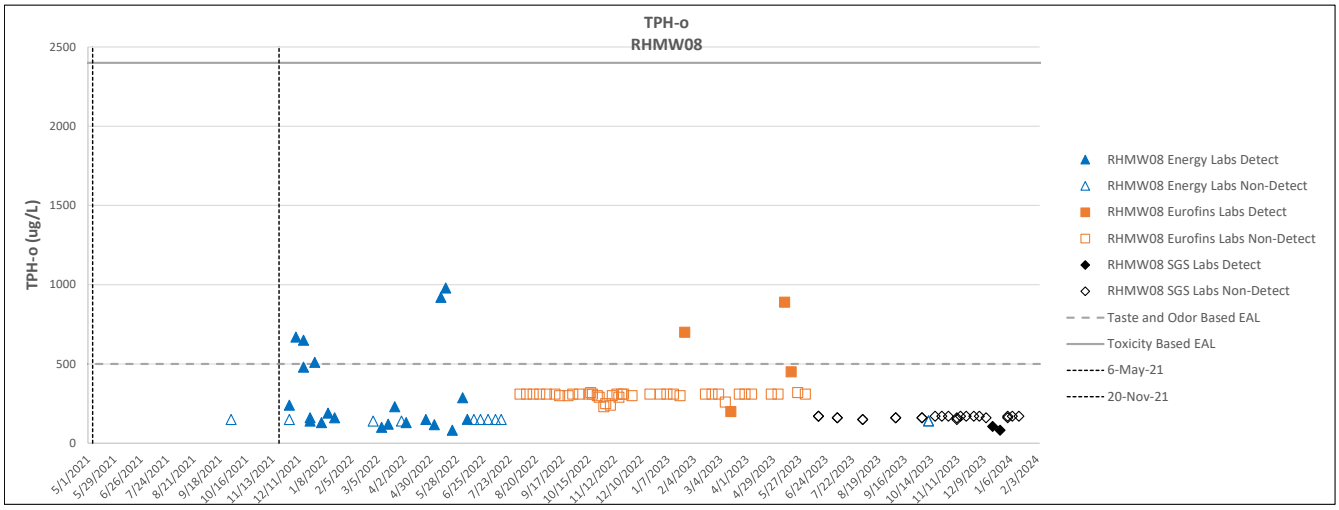
12/9/2023
1/6/2024
2/3/2024
RHMW08 Energy Labs Detect
RHMW08 Energy Labs Non-Detect
RHMW08 Eurofins Labs Detect
RHMW08 Eurofins Labs Non-Detect
RHMW08 SGS Labs Detect
RHMW08 SGS Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-o
RHMW08
TPH-o (ug/L)
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2000
1500
1000
500
0
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7/24/2021
8/21/2021
9/18/2021
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11/13/2021
12/11/2021
1/8/2022
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3/5/2022
4/2/2022
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4/1/2023
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7/22/2023
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9/16/2023
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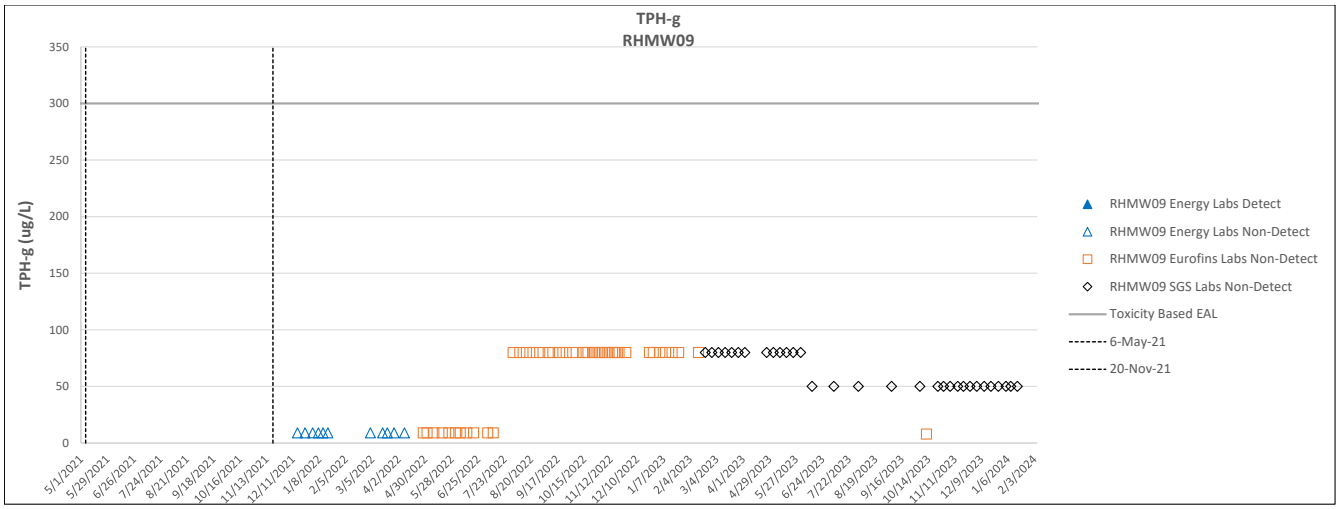
12/9/2023
1/6/2024
2/3/2024
RHMW08 Energy Labs Detect
RHMW08 Energy Labs Non-Detect
RHMW08 Eurofins Labs Detect
RHMW08 Eurofins Labs Non-Detect
RHMW08 SGS Labs Detect
RHMW08 SGS Labs Non-Detect
Taste and Odor Based EAL
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-g
RHMW09
TPH-g (ug/L)
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300
250
200
150
100
50
0
5/1/2021
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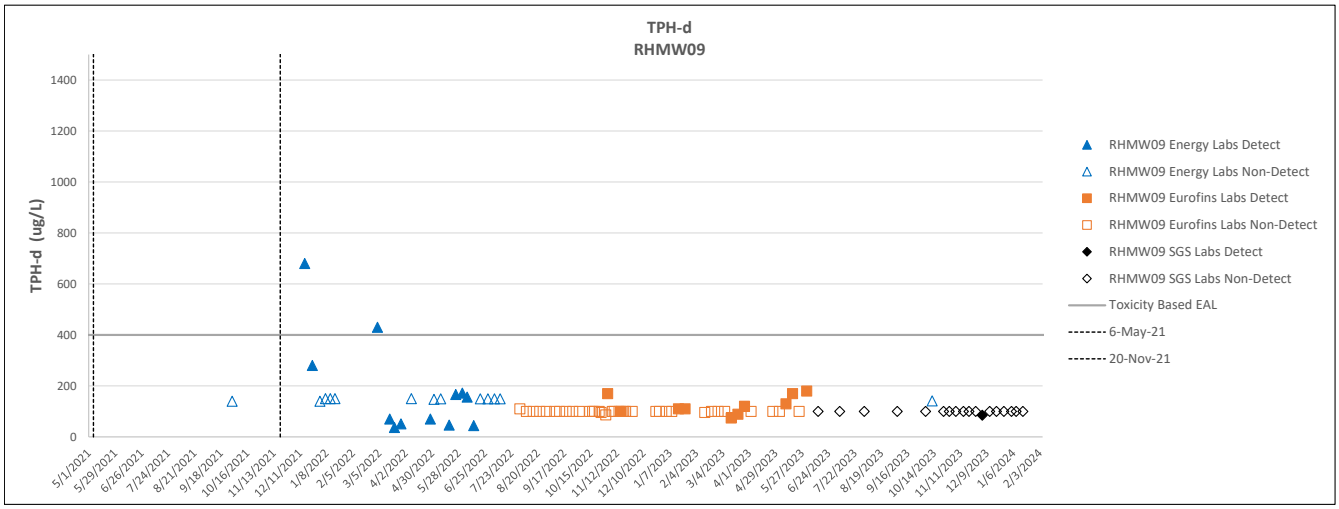
1/6/2024
2/3/2024
RHMW09 Energy Labs Detect
RHMW09 Energy Labs Non-Detect
RHMW09 Eurofins Labs Non-Detect
RHMW09 SGS Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-d
RHMW09
TPH-d (ug/L)
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1200
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800
600
400
200
0
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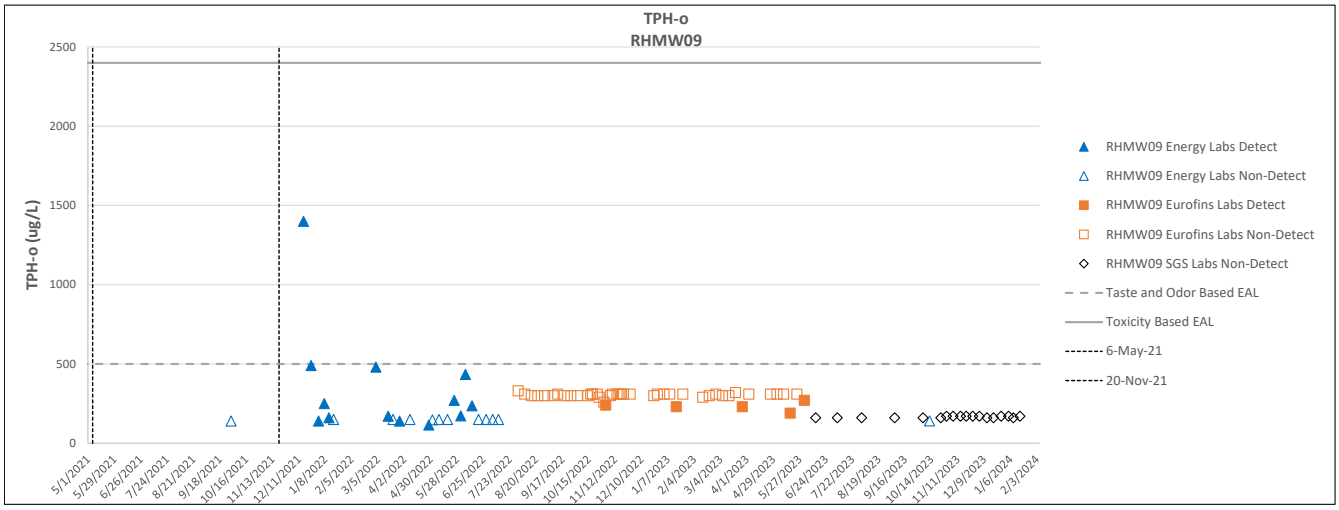
RHMW09 Energy Labs Detect
RHMW09 Energy Labs Non-Detect
RHMW09 Eurofins Labs Detect
RHMW09 Eurofins Labs Non-Detect
RHMW09 SGS Labs Detect
RHMW09 SGS Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-o
RHMW09
TPH-o (ug/L)
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2000
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500
0
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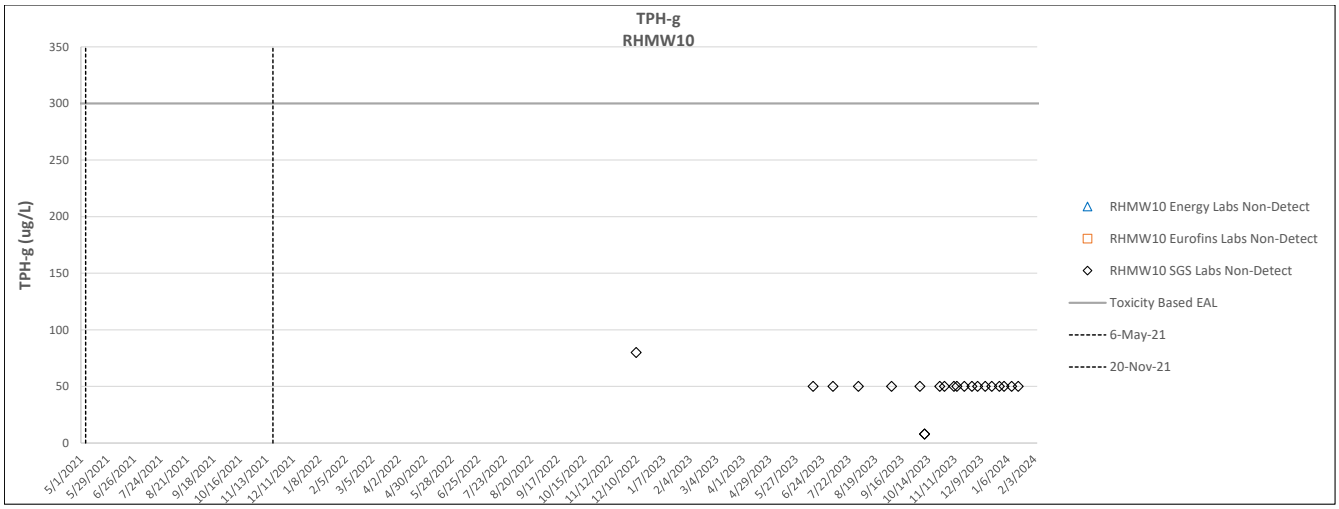
2/3/2024
RHMW09 Energy Labs Detect
RHMW09 Energy Labs Non-Detect
RHMW09 Eurofins Labs Detect
RHMW09 Eurofins Labs Non-Detect
RHMW09 SGS Labs Non-Detect
Taste and Odor Based EAL
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-g
RHMW10
TPH-g (ug/L)
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300
250
200
150
100
50
0
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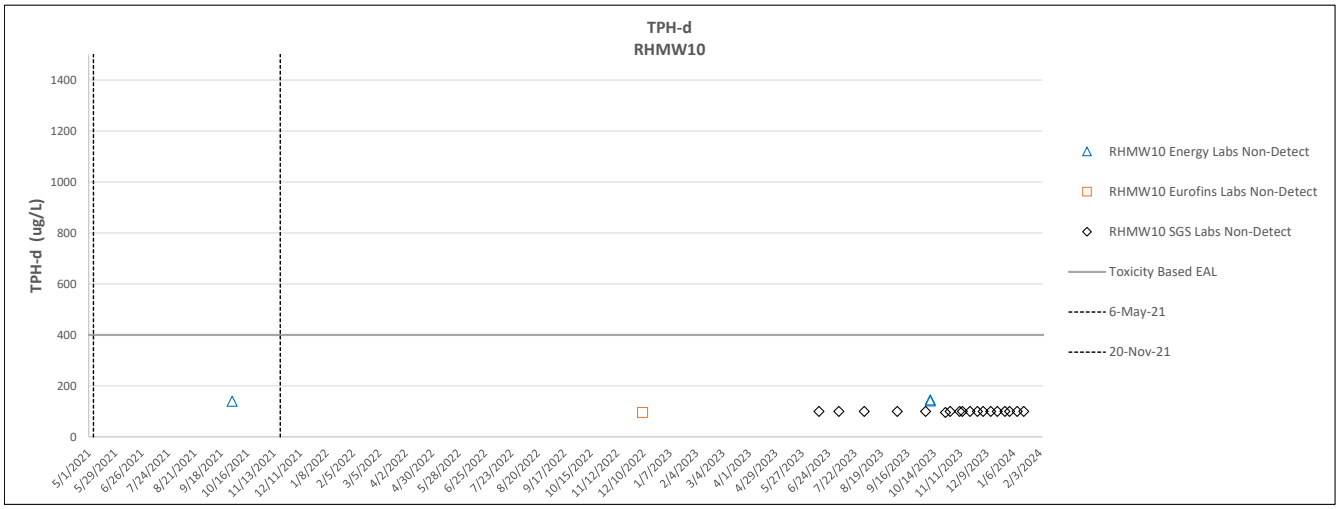
12/9/2023
1/6/2024
2/3/2024
RHMW10 Energy Labs Non-Detect
RHMW10 Eurofins Labs Non-Detect
RHMW10 SGS Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-d
RHMW10
TPH-d (ug/L)
1400
1200
1000
800
600
400
200
0
5/1/2021
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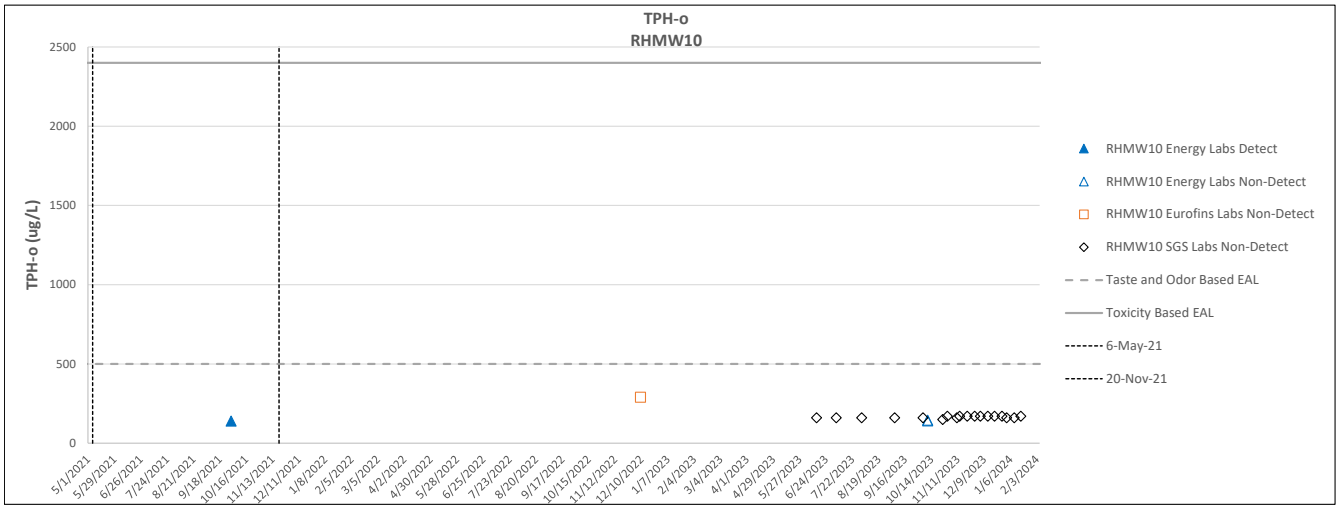
RHMW10 Energy Labs Non-Detect
RHMW10 Eurofins Labs Non-Detect
RHMW10 SGS Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-o
RHMW10
TPH-o (ug/L)
2500
2000
1500
1000
500
0
5/1/2021
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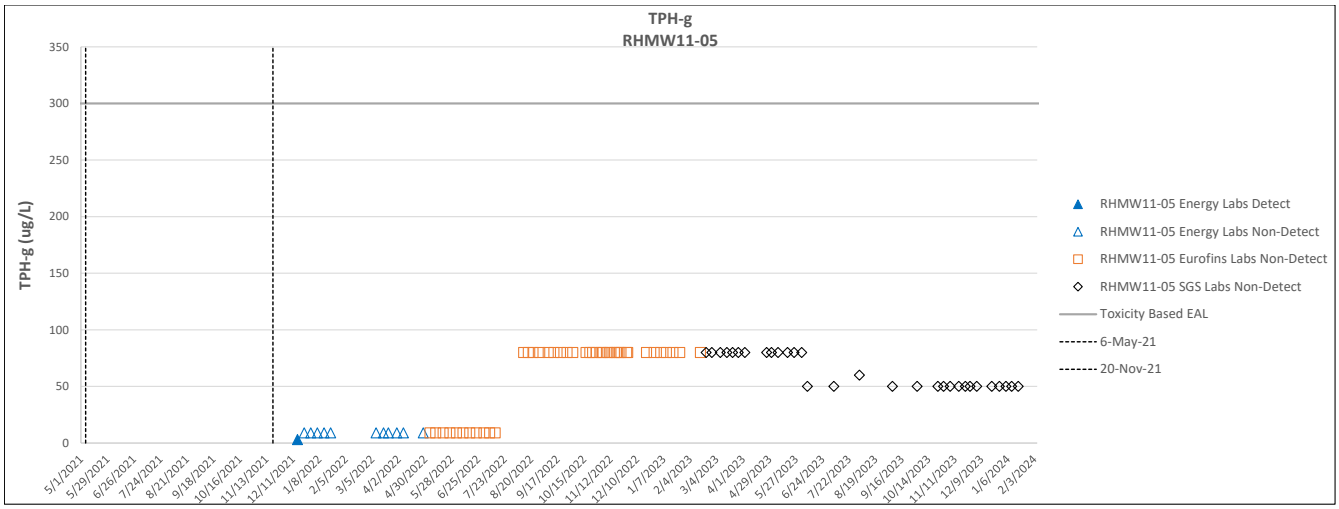
2/3/2024
RHMW10 Energy Labs Detect
RHMW10 Energy Labs Non-Detect
RHMW10 Eurofins Labs Non-Detect
RHMW10 SGS Labs Non-Detect
Taste and Odor Based EAL
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-g
RHMW11-05
TPH-g (ug/L)
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150
100
50
0
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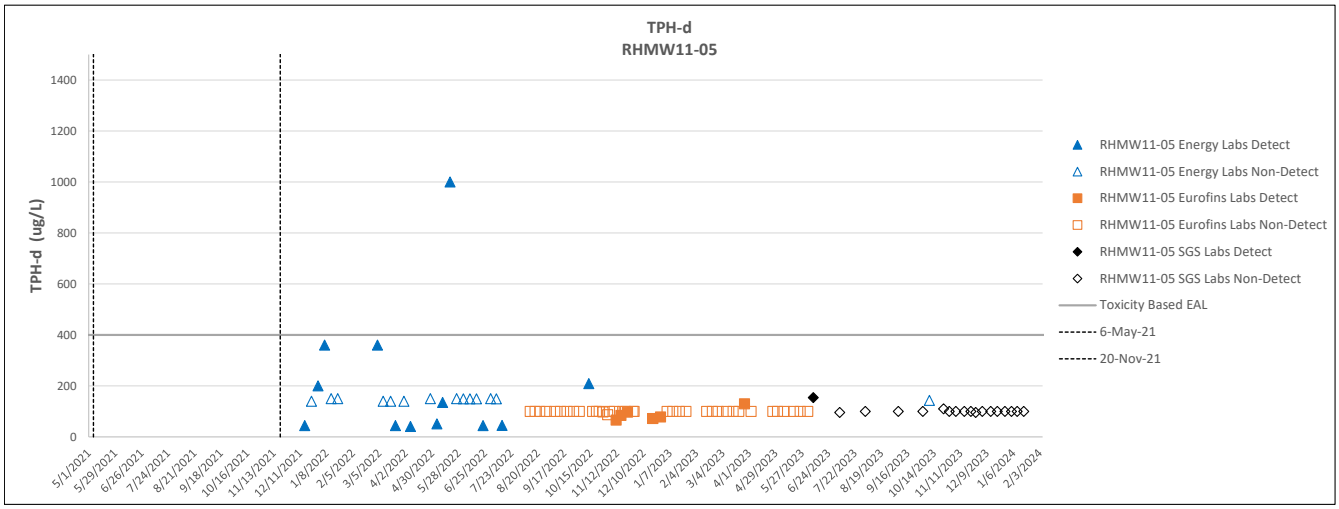
2/3/2024
RHMW11-05 Energy Labs Detect
RHMW11-05 Energy Labs Non-Detect
RHMW11-05 Eurofins Labs Non-Detect
RHMW11-05 SGS Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-d
RHMW11-05
TPH-d (ug/L)
1400
1200
1000
800
600
400
200
0
5/1/2021
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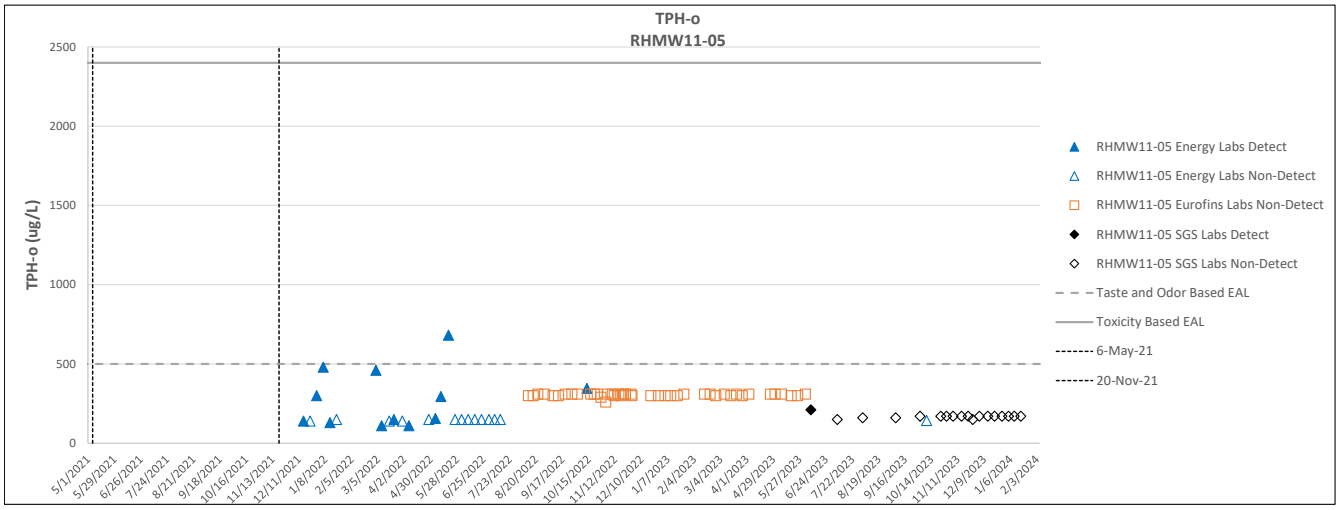
RHMW11-05 Energy Labs Detect
RHMW11-05 Energy Labs Non-Detect
RHMW11-05 Eurofins Labs Detect
RHMW11-05 Eurofins Labs Non-Detect
RHMW11-05 SGS Labs Detect
RHMW11-05 SGS Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-o
RHMW11-05
TPH-o (ug/L)
2500
2000
1500
1000
500
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5/1/2021
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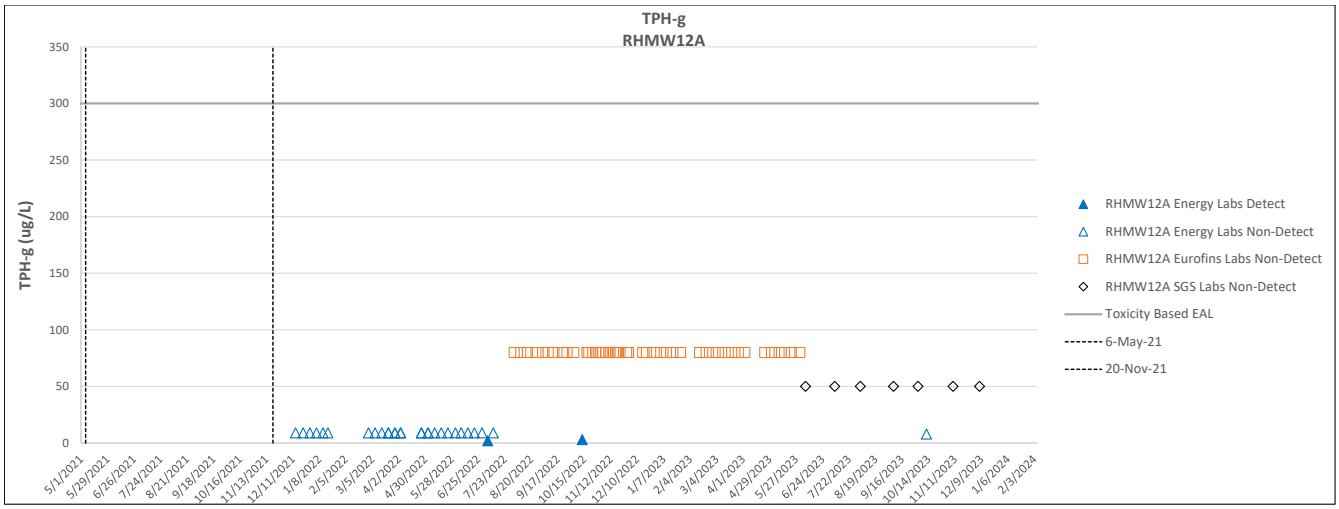
RHMW11-05 Energy Labs Detect
RHMW11-05 Energy Labs Non-Detect
RHMW11-05 Eurofins Labs Non-Detect
RHMW11-05 SGS Labs Detect
RHMW11-05 SGS Labs Non-Detect
Taste and Odor Based EAL
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-g
RHMW12A
TPH-g (ug/L)
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300
250
200
150
100
50
0
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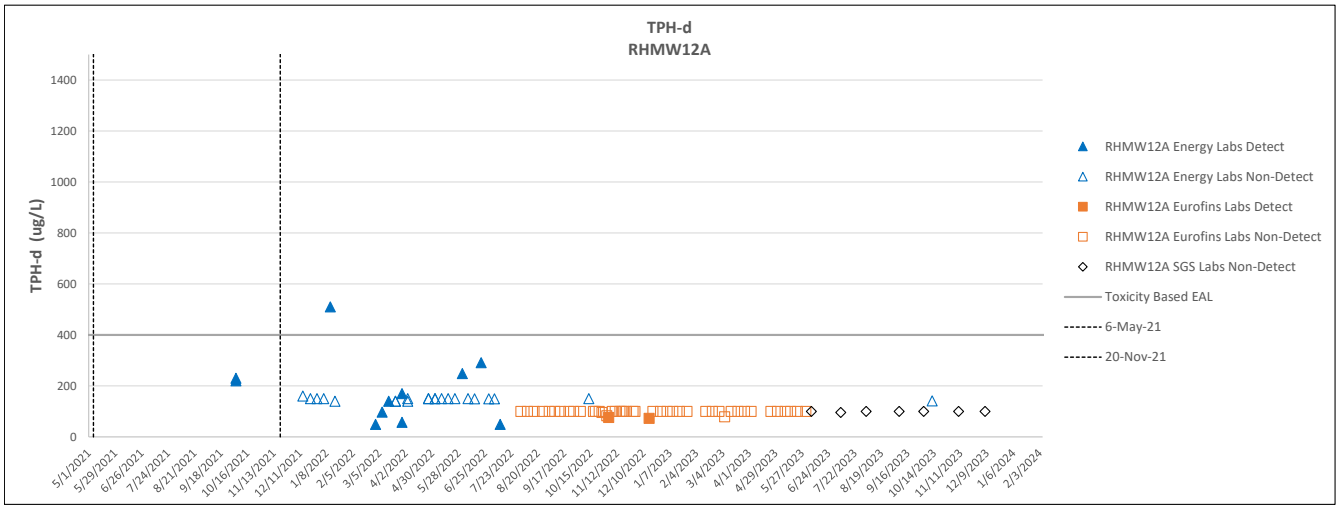
RHMW12A Energy Labs Detect
RHMW12A Energy Labs Non-Detect
RHMW12A Eurofins Labs Non-Detect
RHMW12A SGS Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-d
RHMW12A
TPH-d (ug/L)
1400
1200
1000
800
600
400
200
0
5/1/2021
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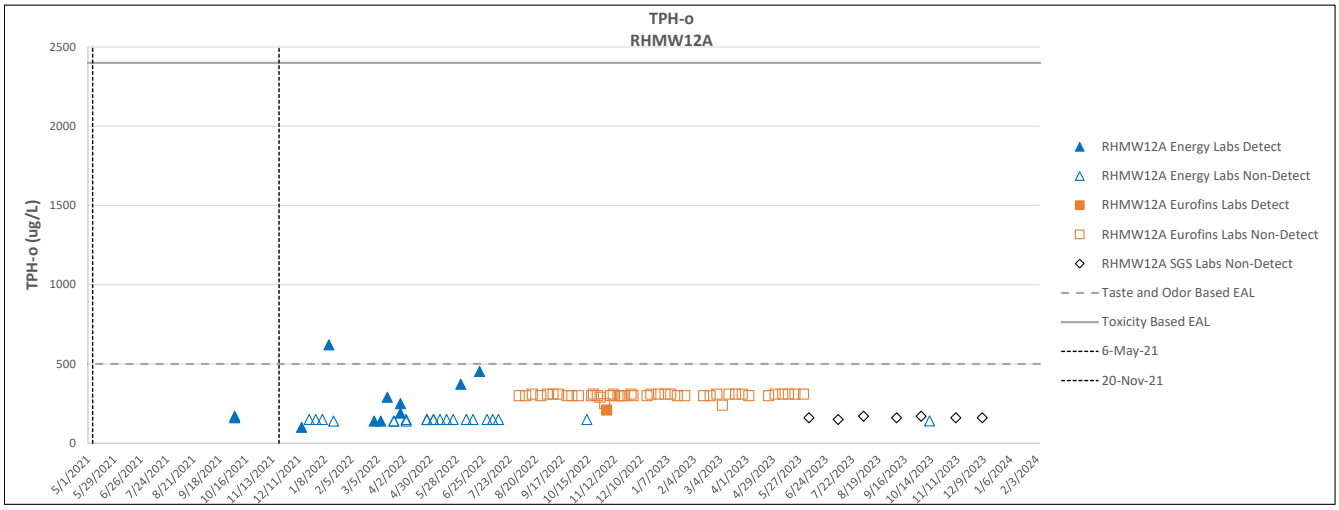
RHMW12A Energy Labs Detect
RHMW12A Energy Labs Non-Detect
RHMW12A Eurofins Labs Detect
RHMW12A Eurofins Labs Non-Detect
RHMW12A SGS Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-o
RHMW12A
TPH-o (ug/L)
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2000
1500
1000
500
0
5/1/2021
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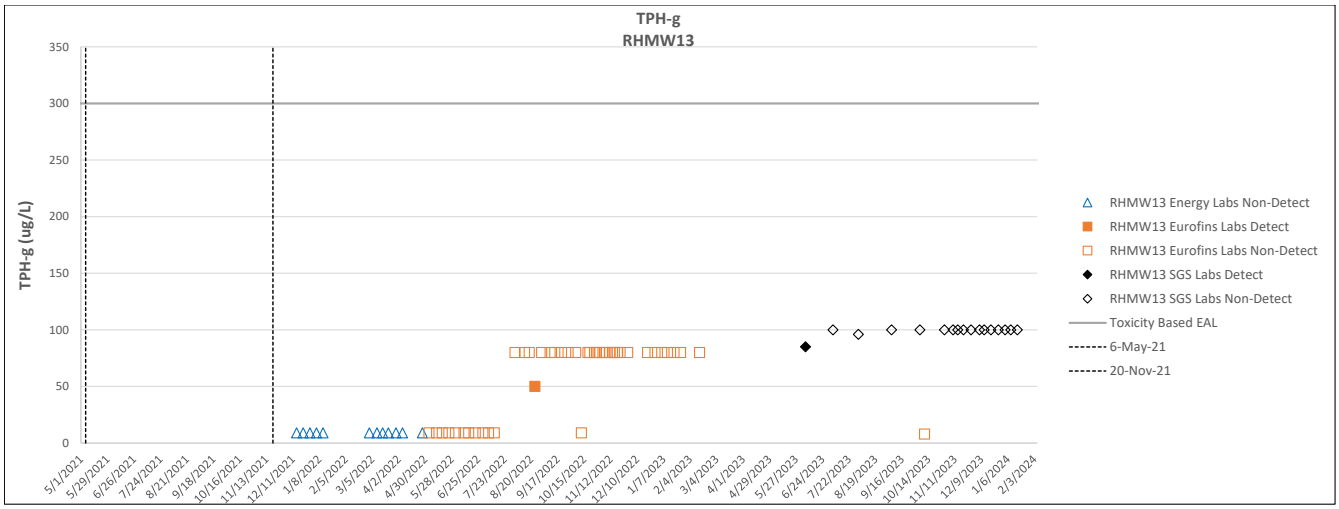
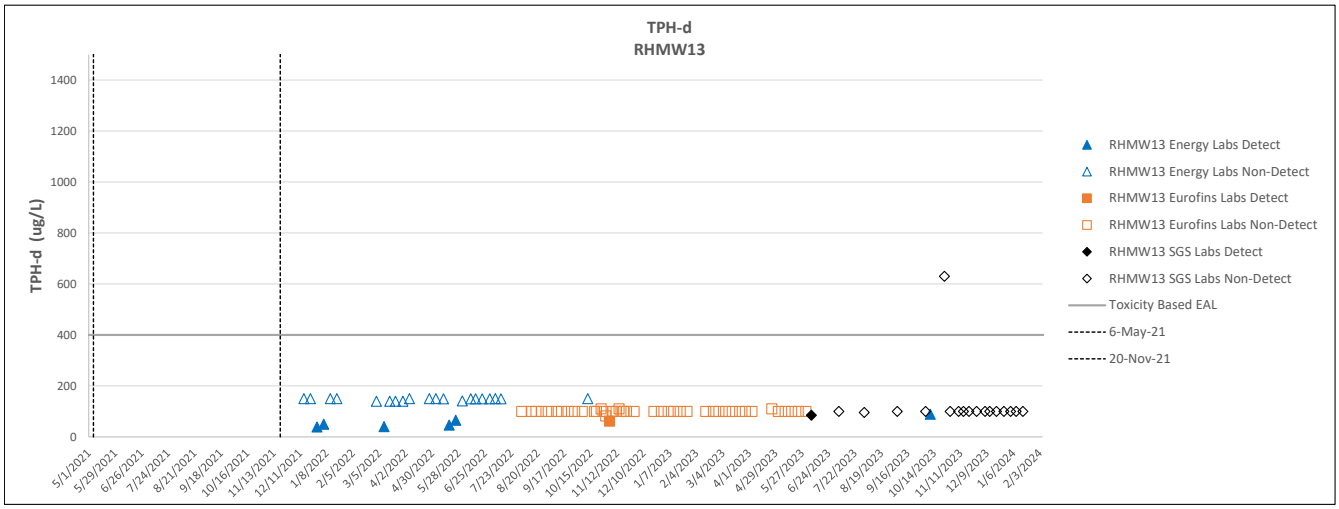
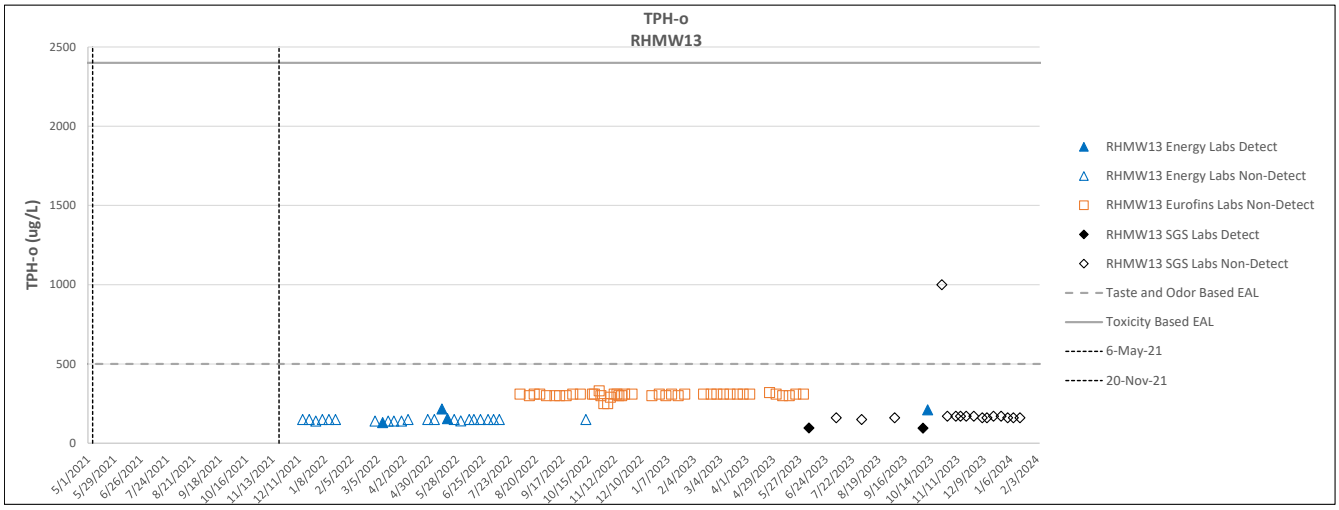
2/3/2024
RHMW12A Energy Labs Detect
RHMW12A Energy Labs Non-Detect
RHMW12A Eurofins Labs Detect
RHMW12A Eurofins Labs Non-Detect
RHMW12A SGS Labs Non-Detect
Taste and Odor Based EAL
Toxicity Based EAL
6-May-21
20-Nov-21

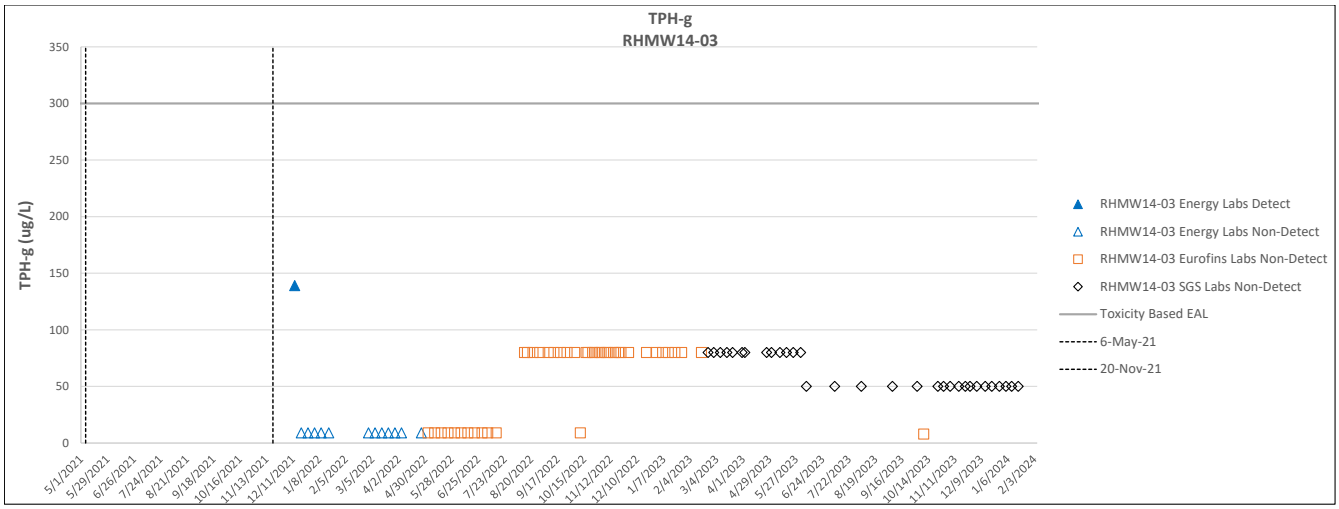


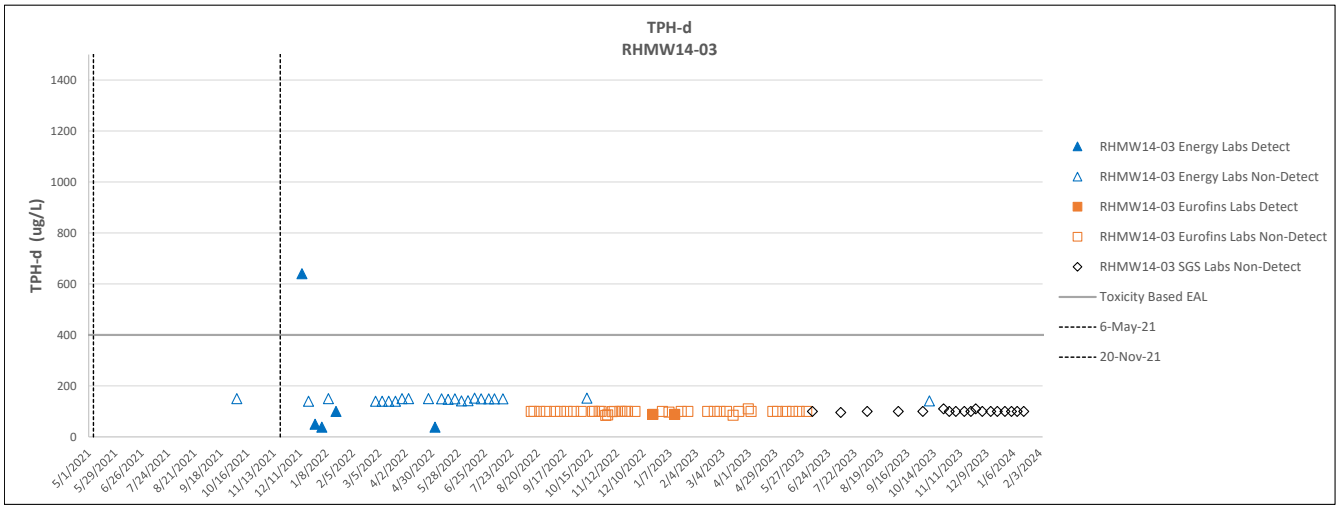




Notes:

[1] Sampling points include RHMW13-05, and RHMW13-04 collected as part of defueling program.


TPH-g
RHMW14-03
TPH-g (ug/L)
RHMW14-03 Energy Labs Detect
RHMW14-03 Energy Labs Non-Detect
RHMW14-03 Eurofins Labs Non-Detect
RHMW14-03 SGS Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21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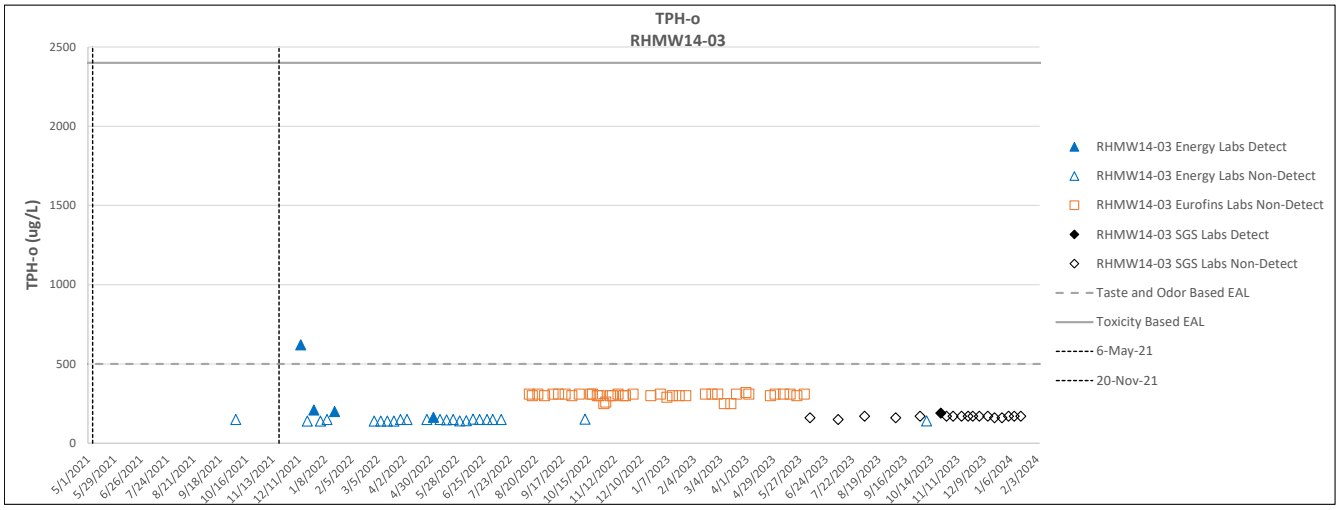
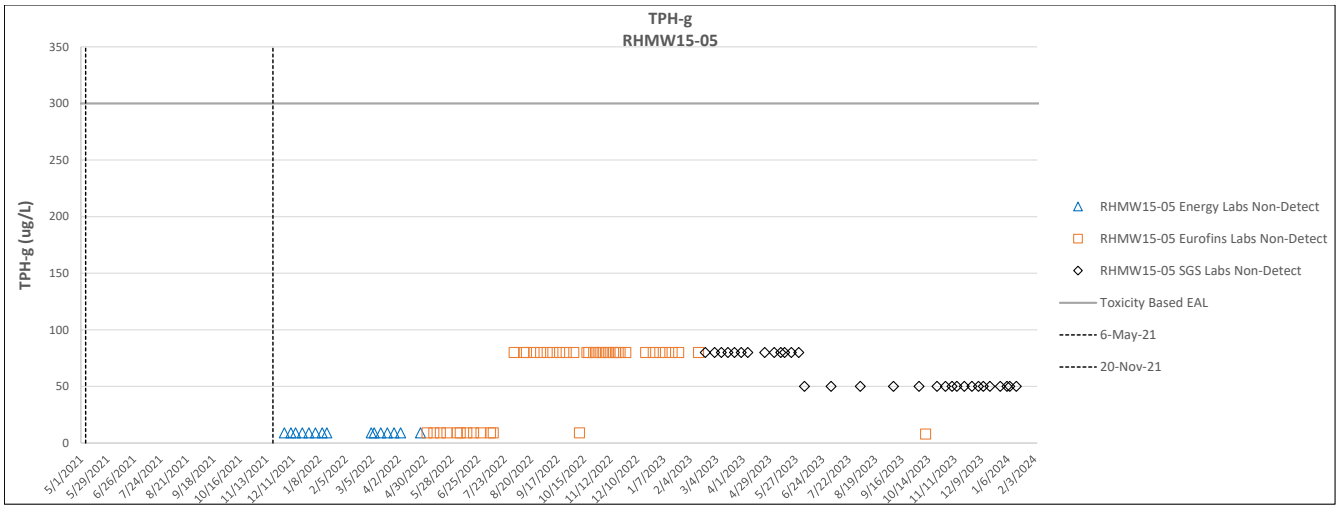
RHMW14-03
TPH-d (ug/L)
RHMW14-03 Energy Labs Detect
RHMW14-03 Energy Labs Non-Detect
RHMW14-03 Eurofins Labs Detect
RHMW14-03 Eurofins Labs Non-Detect
RHMW14-03 SGS Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-o
RHMW14-03
TPH-o (ug/L)
RHMW14-03 Energy Labs Detect
RHMW14-03 Energy Labs Non-Detect
RHMW14-03 Eurofins Labs Non-Detect
RHMW14-03 SGS Labs Detect
RHMW14-03 SGS Labs Non-Detect
Taste and Odor Based EAL
Toxicity Based EAL
6-May-21
20-Nov-21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200
150
100
50
0
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8/21/2021
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10/16/2021
11/13/2021
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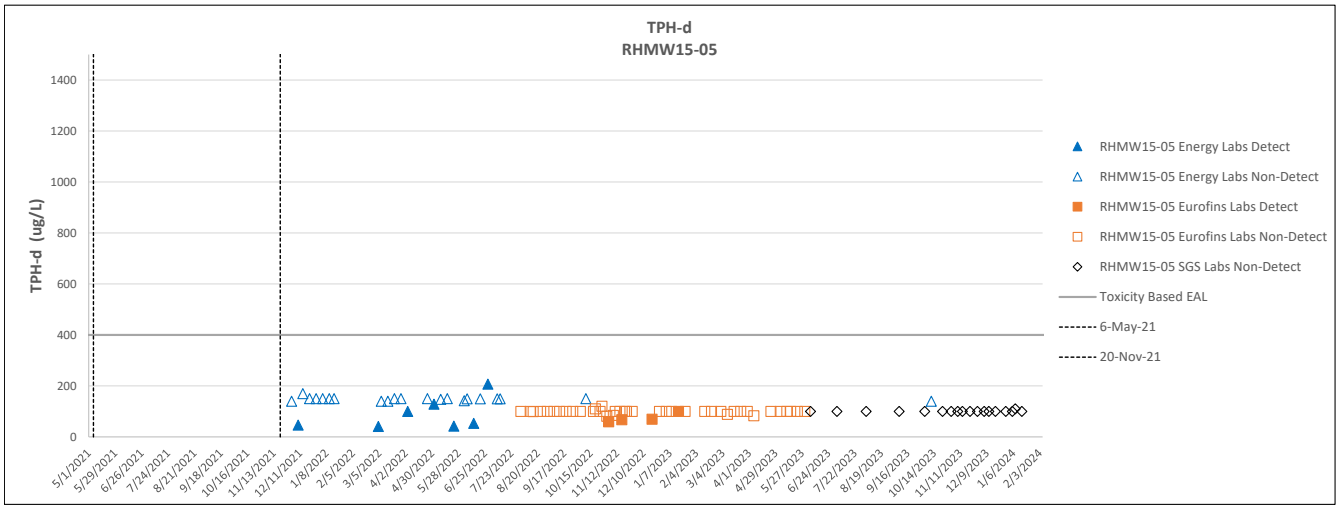
1/6/2024
2/3/2024
RHMW15-05 Energy Labs Non-Detect
RHMW15-05 Eurofins Labs Non-Detect
RHMW15-05 SGS Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21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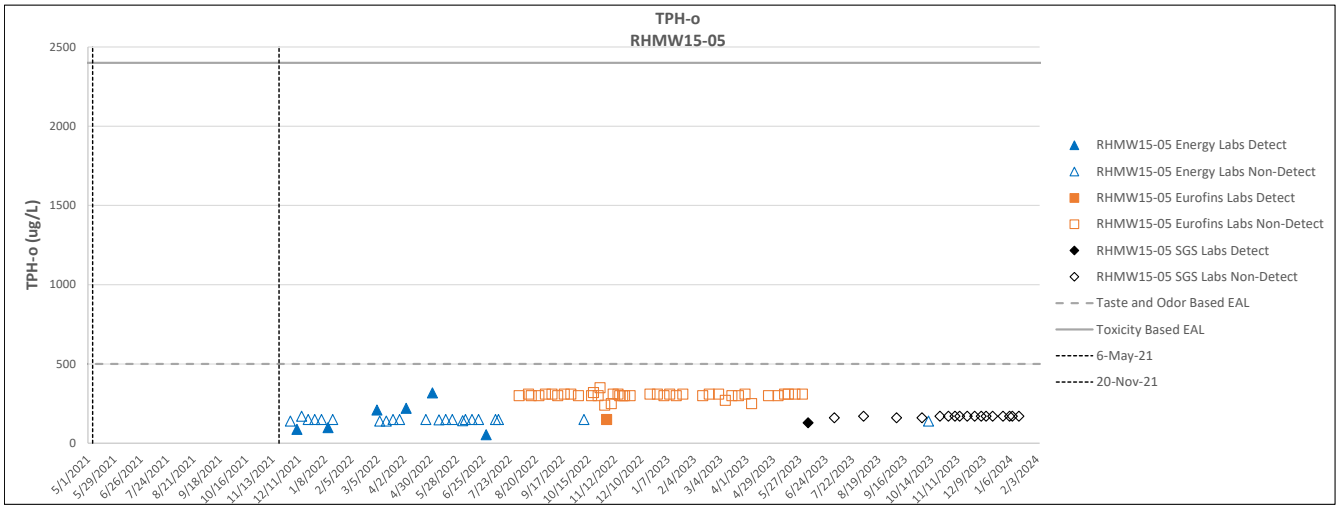
10/14/2023
11/11/2023
12/9/2023
1/6/2024
2/3/2024
RHMW15-05 Energy Labs Detect
RHMW15-05 Energy Labs Non-Detect
RHMW15-05 Eurofins Labs Detect
RHMW15-05 Eurofins Labs Non-Detect
RHMW15-05 SGS Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21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RHMW15-05
TPH-o (ug/L)
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2000
1500
1000
500
0
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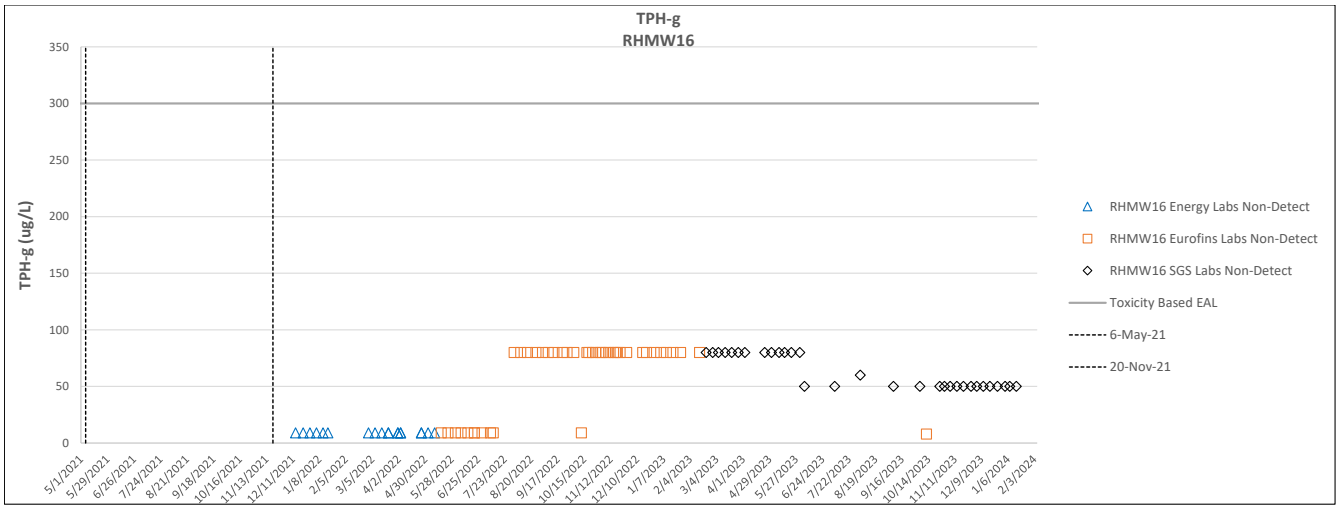
12/9/2023
1/6/2024
2/3/2024
RHMW15-05 Energy Labs Detect
RHMW15-05 Energy Labs Non-Detect
RHMW15-05 Eurofins Labs Detect
RHMW15-05 Eurofins Labs Non-Detect
RHMW15-05 SGS Labs Detect
RHMW15-05 SGS Labs Non-Detect
Taste and Odor Based EAL
Toxicity Based EAL
6-May-21
20-Nov-21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RHMW16
TPH-g (ug/L)
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300
250
200
150
100
50
0
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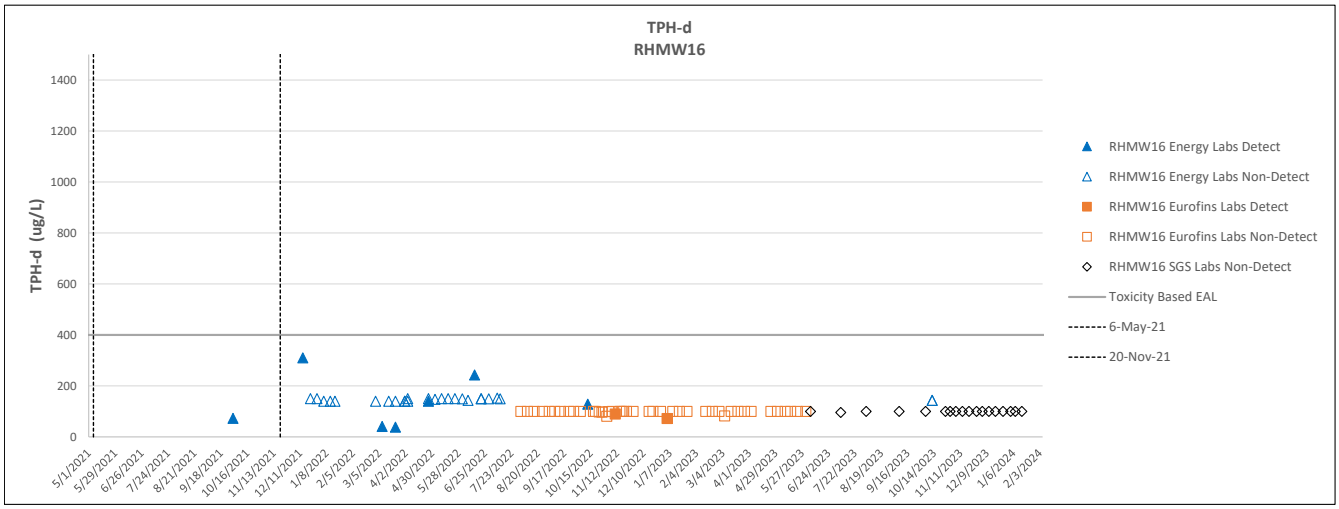
1/6/2024
2/3/2024
RHMW16 Energy Labs Non-Detect
RHMW16 Eurofins Labs Non-Detect
RHMW16 SGS Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-d
RHMW16
TPH-d (ug/L)
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1200
1000
800
600
400
200
0
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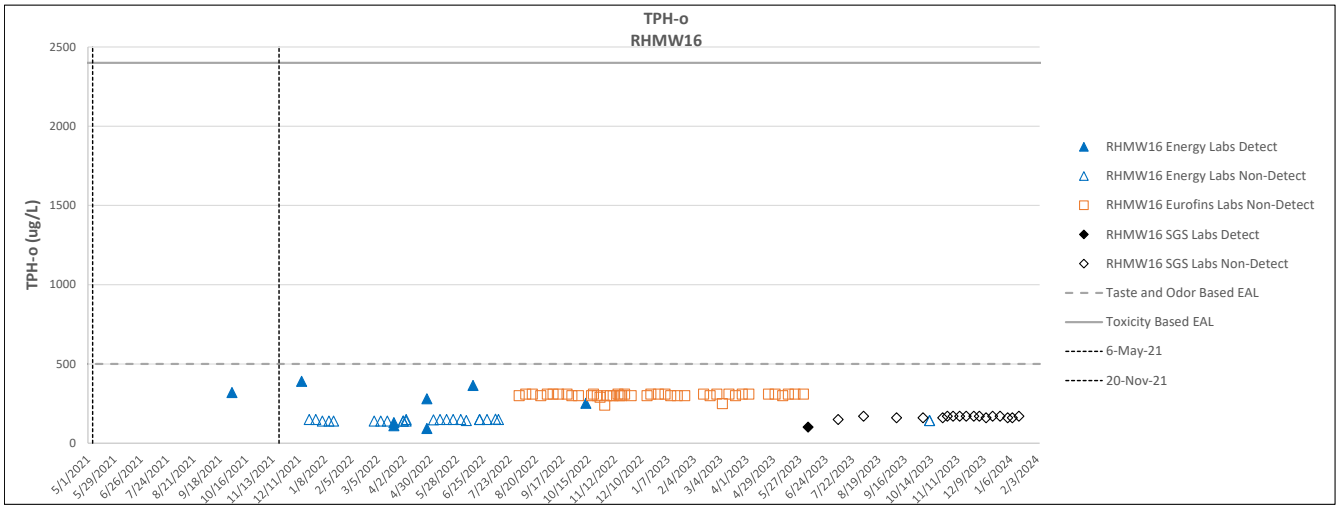
2/3/2024
RHMW16 Energy Labs Detect
RHMW16 Energy Labs Non-Detect
RHMW16 Eurofins Labs Detect
RHMW16 Eurofins Labs Non-Detect
RHMW16 SGS Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21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TPH-o (ug/L)
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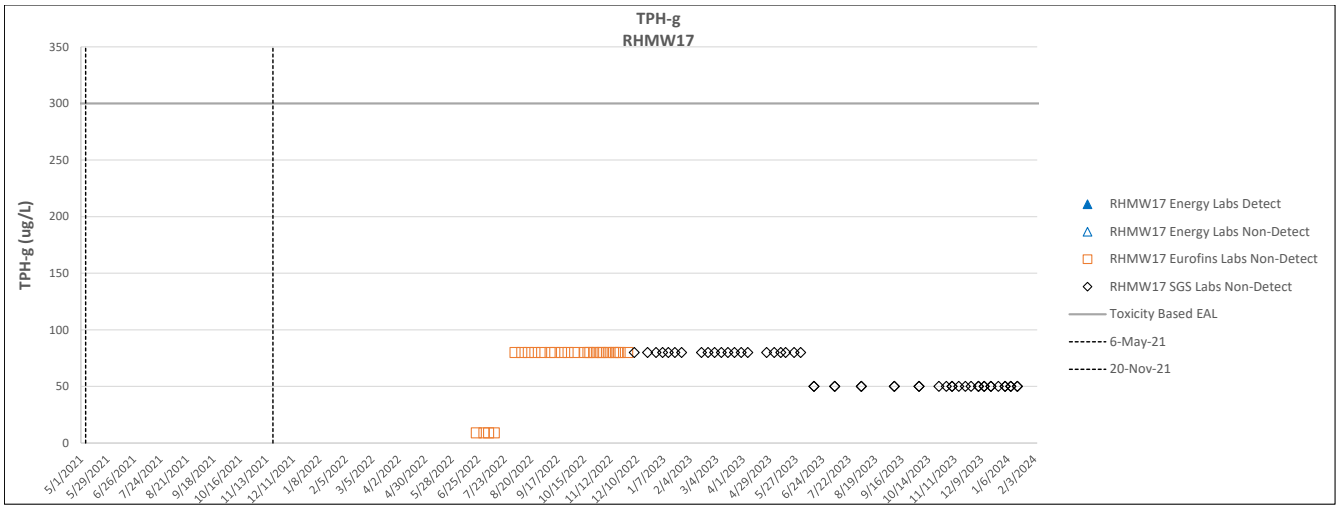
RHMW16 Energy Labs Detect
RHMW16 Energy Labs Non-Detect
RHMW16 Eurofins Labs Non-Detect
RHMW16 SGS Labs Detect
RHMW16 SGS Labs Non-Detect
Taste and Odor Based EAL
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-g
RHMW17
TPH-g (ug/L)
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200
150
100
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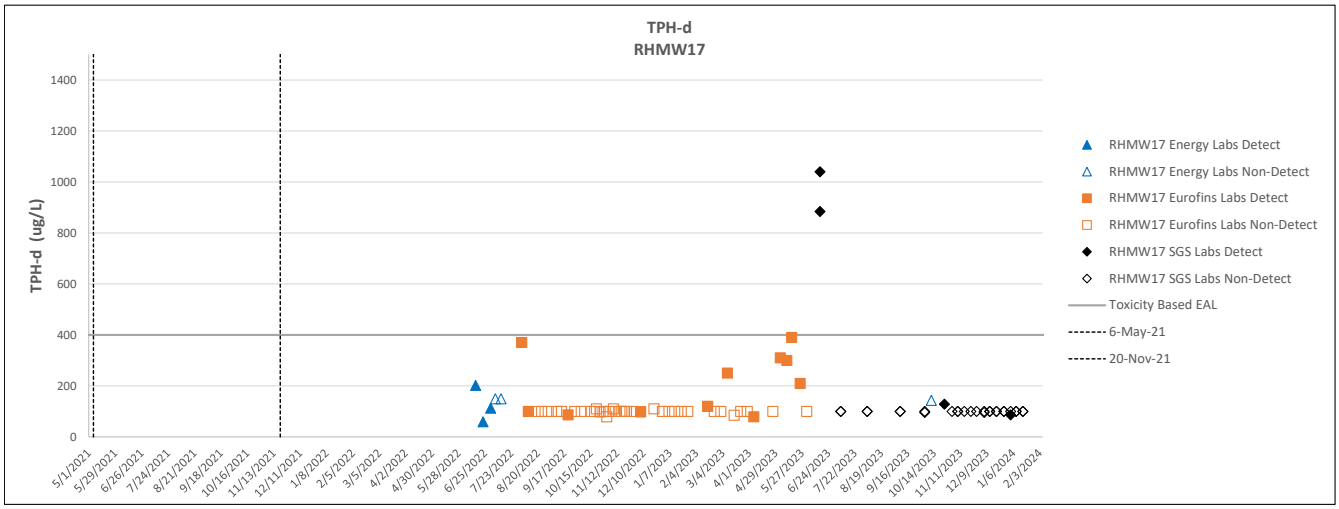
RHMW17 Energy Labs Detect
RHMW17 Energy Labs Non-Detect
RHMW17 Eurofins Labs Non-Detect
RHMW17 SGS Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21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TPH-d (ug/L)
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400
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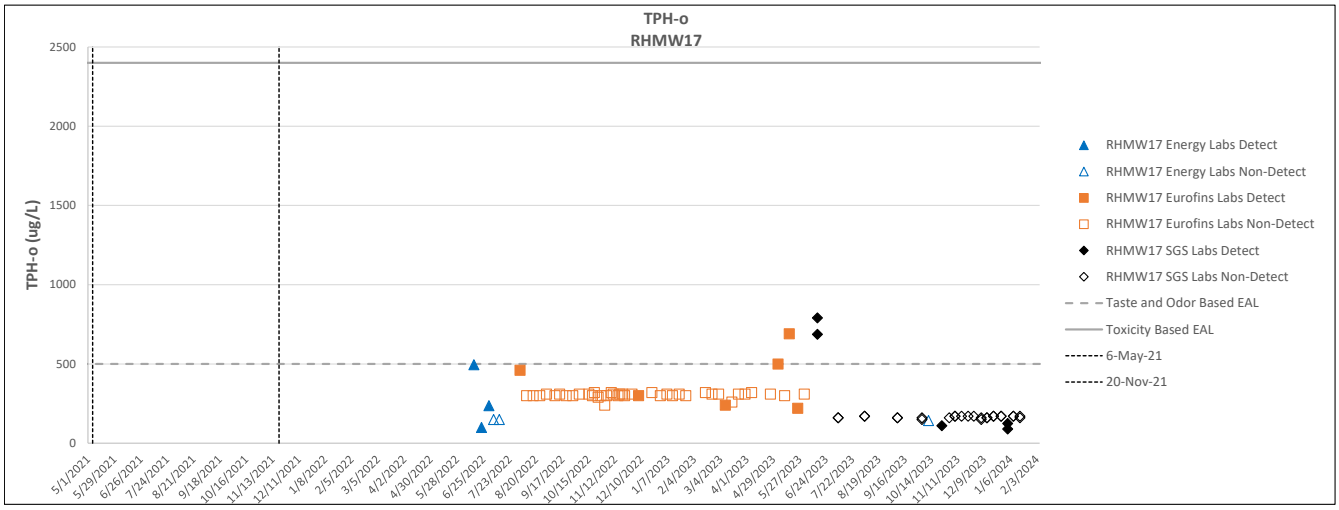
RHMW17 Energy Labs Detect
RHMW17 Energy Labs Non-Detect
RHMW17 Eurofins Labs Detect
RHMW17 Eurofins Labs Non-Detect
RHMW17 SGS Labs Detect
RHMW17 SGS Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21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TPH-o (ug/L)
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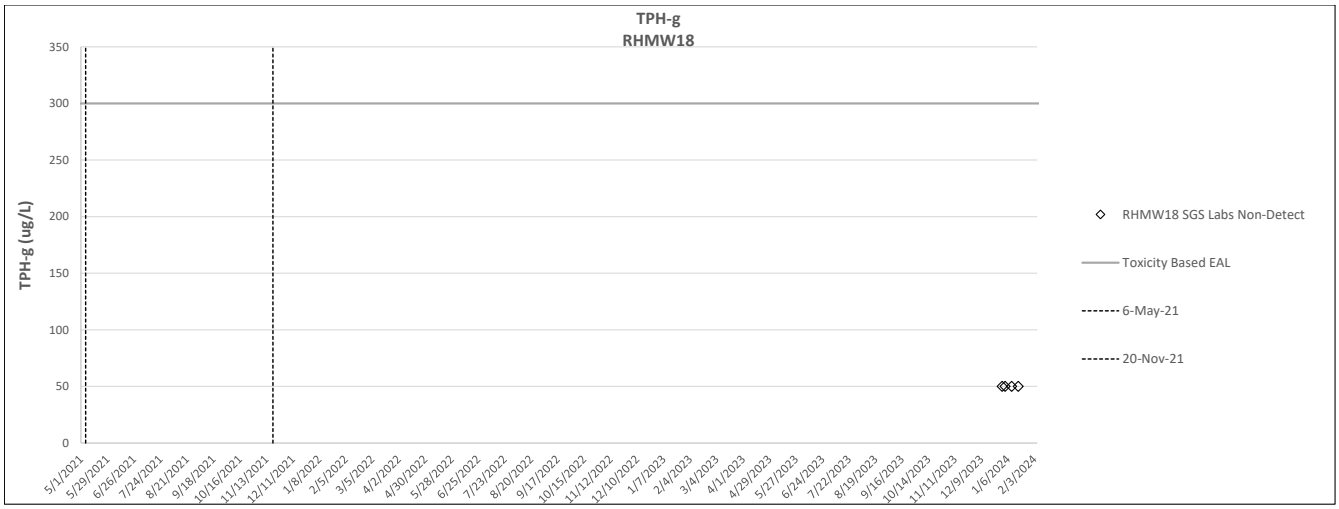
RHMW17 Energy Labs Detect
RHMW17 Energy Labs Non-Detect
RHMW17 Eurofins Labs Detect
RHMW17 Eurofins Labs Non-Detect
RHMW17 SGS Labs Detect
RHMW17 SGS Labs Non-Detect
Taste and Odor Based EAL
Toxicity Based EAL
6-May-21
20-Nov-21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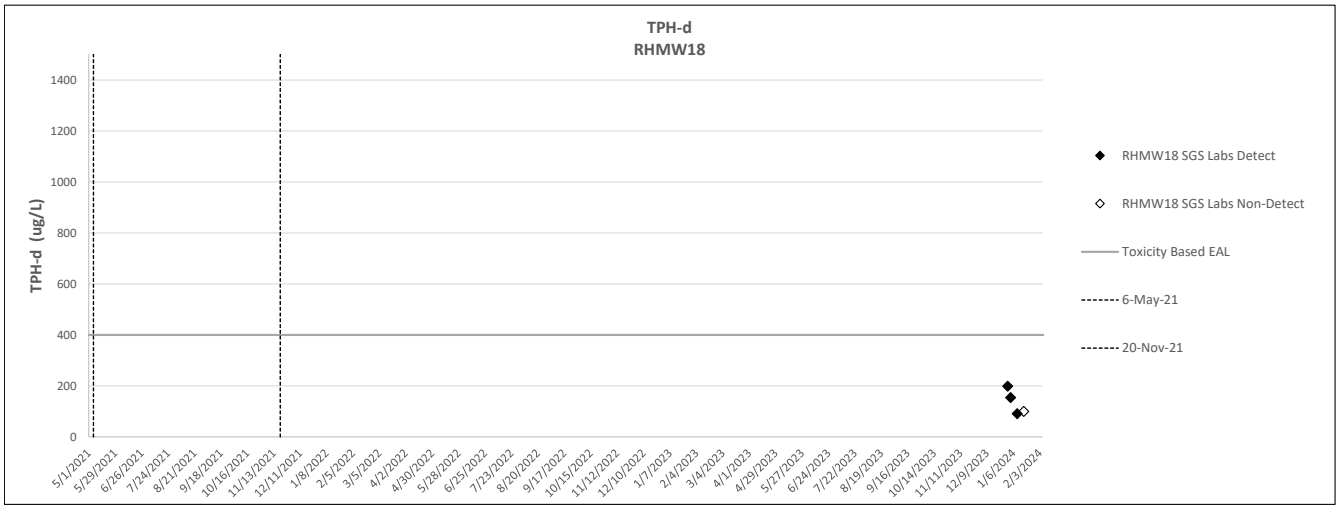
RHMW18 SGS Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21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TPH-d (ug/L)
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800
600
400
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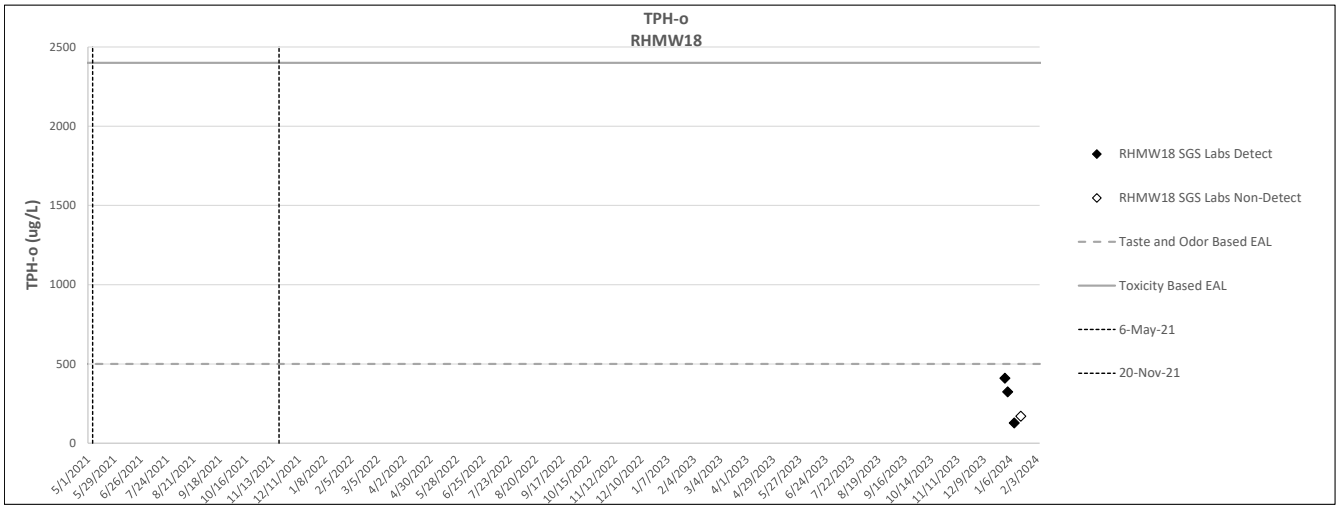
RHMW18 SGS Labs Detect
RHMW18 SGS Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-o
RHMW18
TPH-o (ug/L)
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2000
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500
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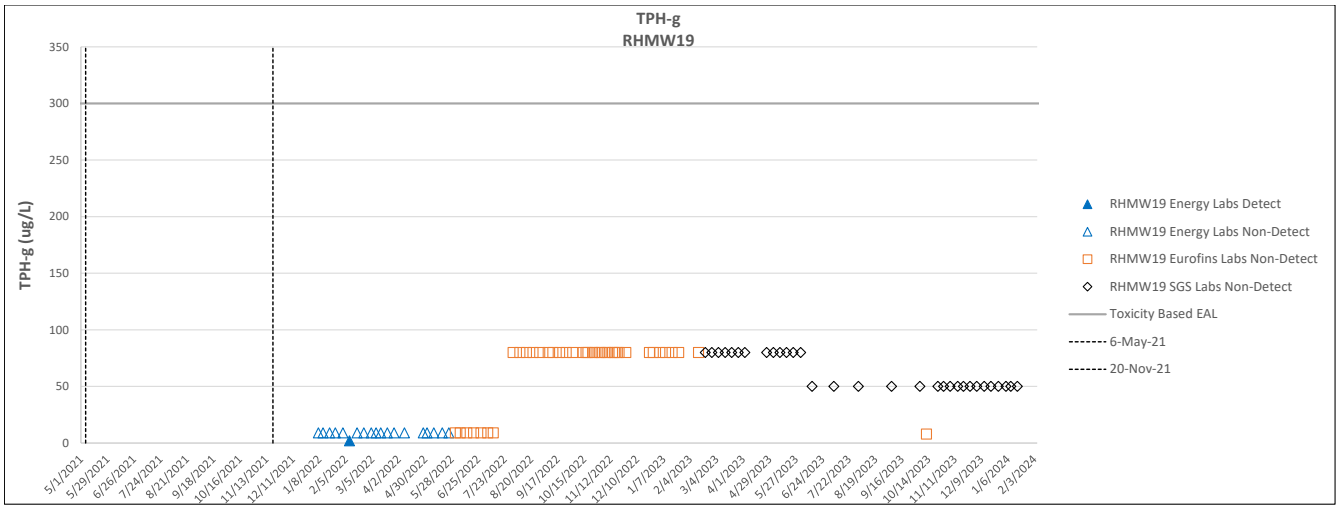
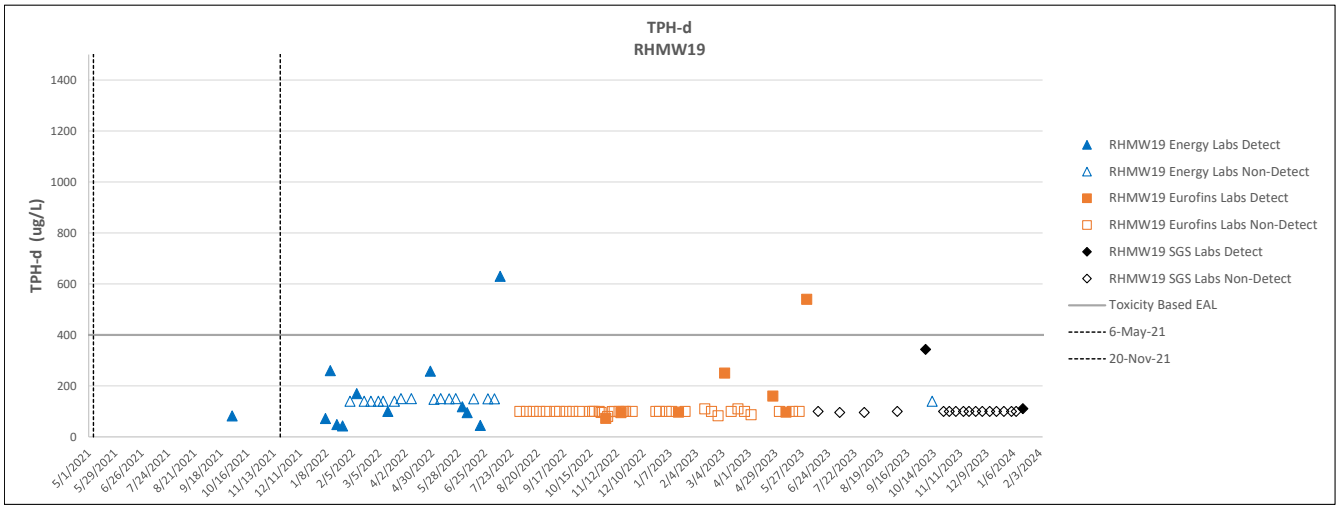
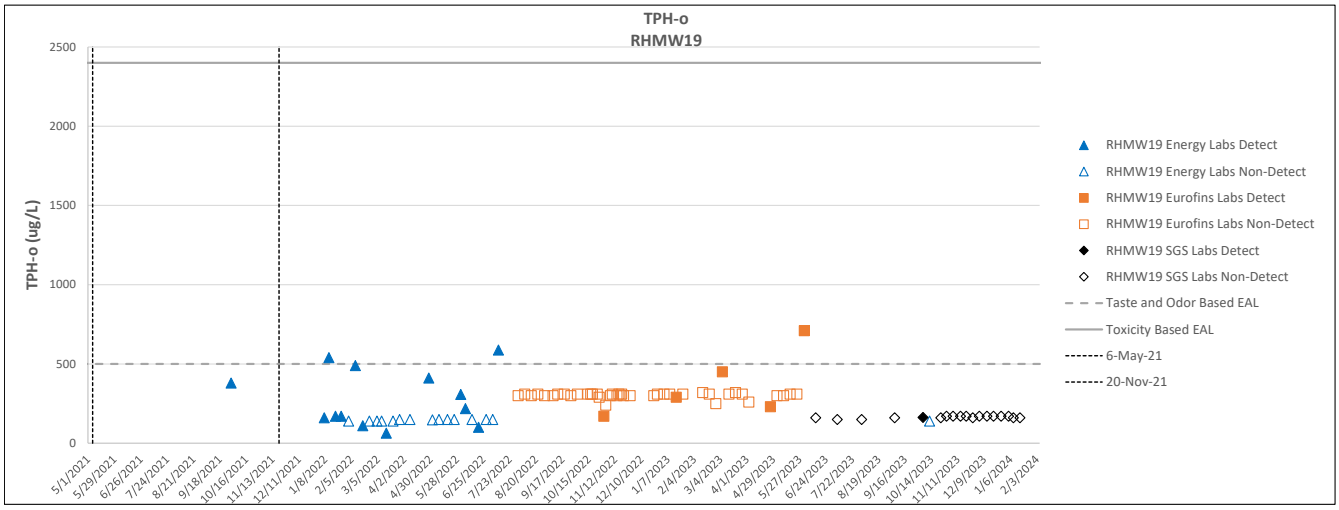
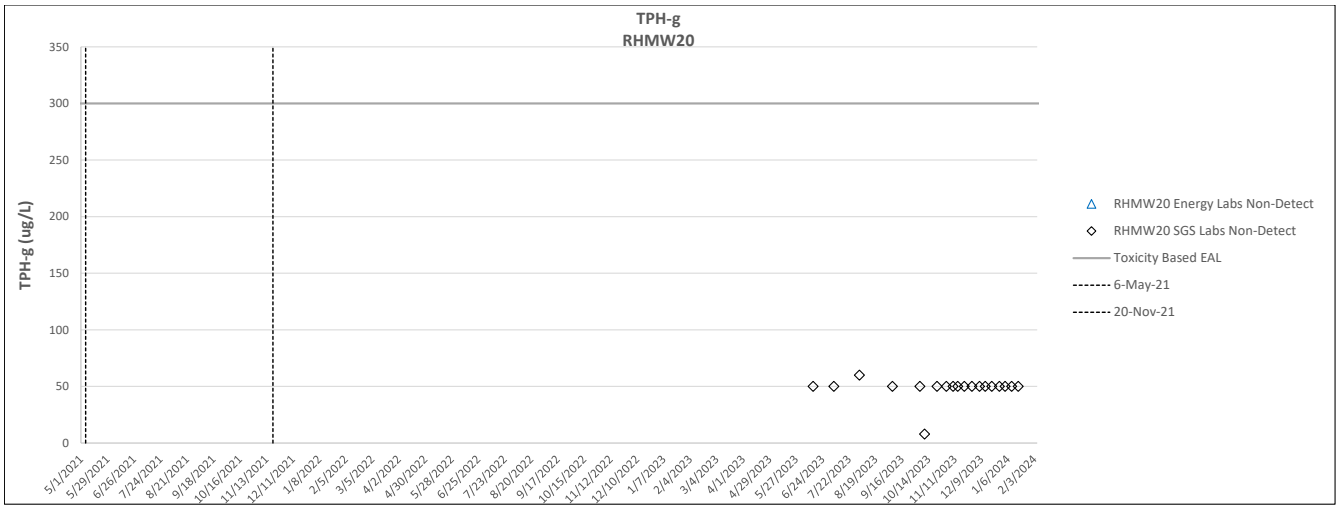
RHMW18 SGS Labs Detect
RHMW18 SGS Labs Non-Detect
Taste and Odor Based EAL
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-g
RHMW19
TPH-g (ug/L)
RHMW19 Energy Labs Detect
RHMW19 Energy Labs Non-Detect
RHMW19 Eurofins Labs Non-Detect
RHMW19 SGS Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-d
RHMW19
TPH-d (ug/L)
RHMW19 Energy Labs Detect
RHMW19 Energy Labs Non-Detect
RHMW19 Eurofins Labs Detect
RHMW19 Eurofins Labs Non-Detect
RHMW19 SGS Labs Detect
RHMW19 SGS Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-o
RHMW19
TPH-o (ug/L)
RHMW19 Energy Labs Detect
RHMW19 Energy Labs Non-Detect
RHMW19 Eurofins Labs Detect
RHMW19 Eurofins Labs Non-Detect
RHMW19 SGS Labs Detect
RHMW19 SGS Labs Non-Detect
Taste and Odor Based EAL
Toxicity Based EAL
6-May-21
20-Nov-21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TPH-g (ug/L)
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150
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8/21/2021
9/18/2021
10/16/2021
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1/8/2022
2/5/2022
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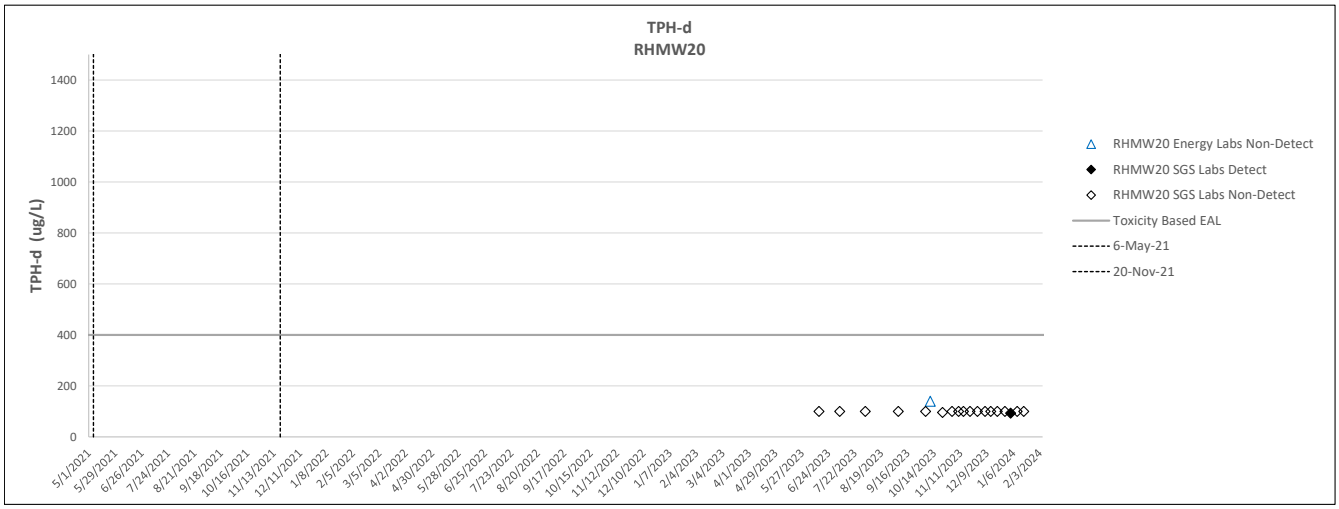
10/14/2023
11/11/2023
12/9/2023
1/6/2024
2/3/2024
RHMW20 Energy Labs Non-Detect
RHMW20 SGS Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-d
RHMW20
TPH-d (ug/L)
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1200
1000
800
600
400
200
0
5/1/2021
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2/4/2023
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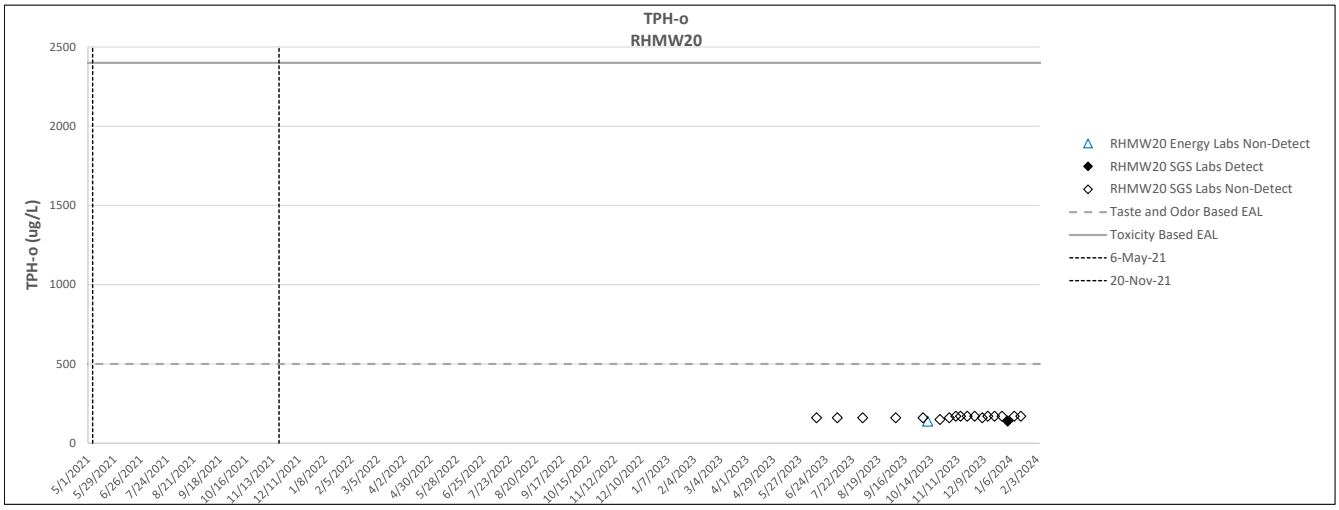
6/24/2023
7/22/2023
8/19/2023
9/16/2023
10/14/2023
11/11/2023
12/9/2023
1/6/2024
2/3/2024
RHMW20 Energy Labs Non-Detect
RHMW20 SGS Labs Detect
RHMW20 SGS Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-o
RHMW20
TPH-o (ug/L)
2500
2000
1500
1000
500
0
5/1/2021
5/29/2021
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1/8/2022
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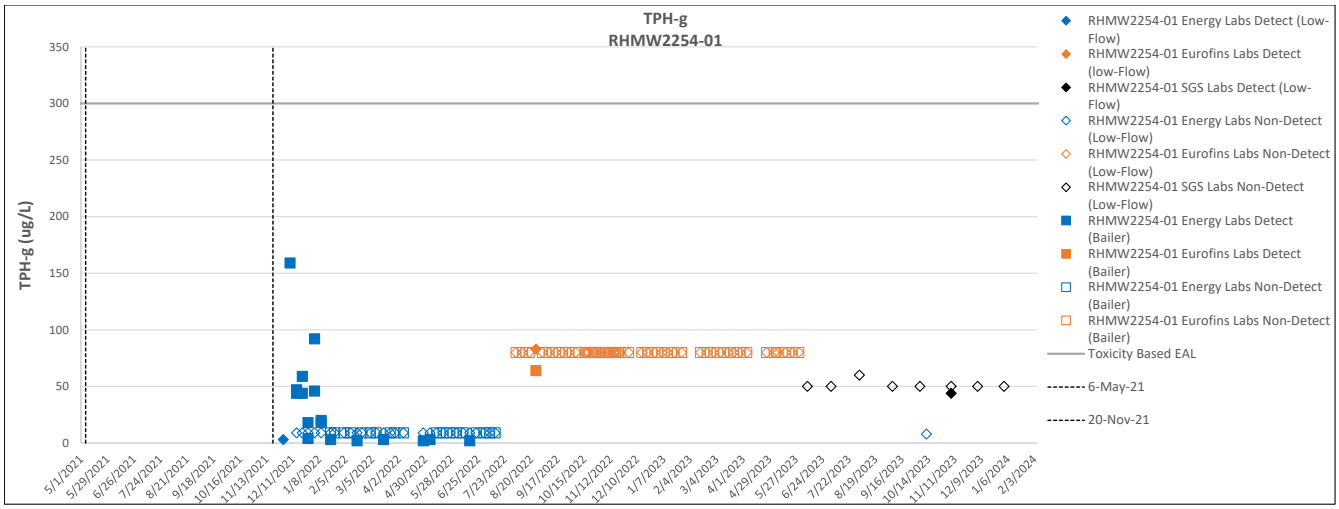
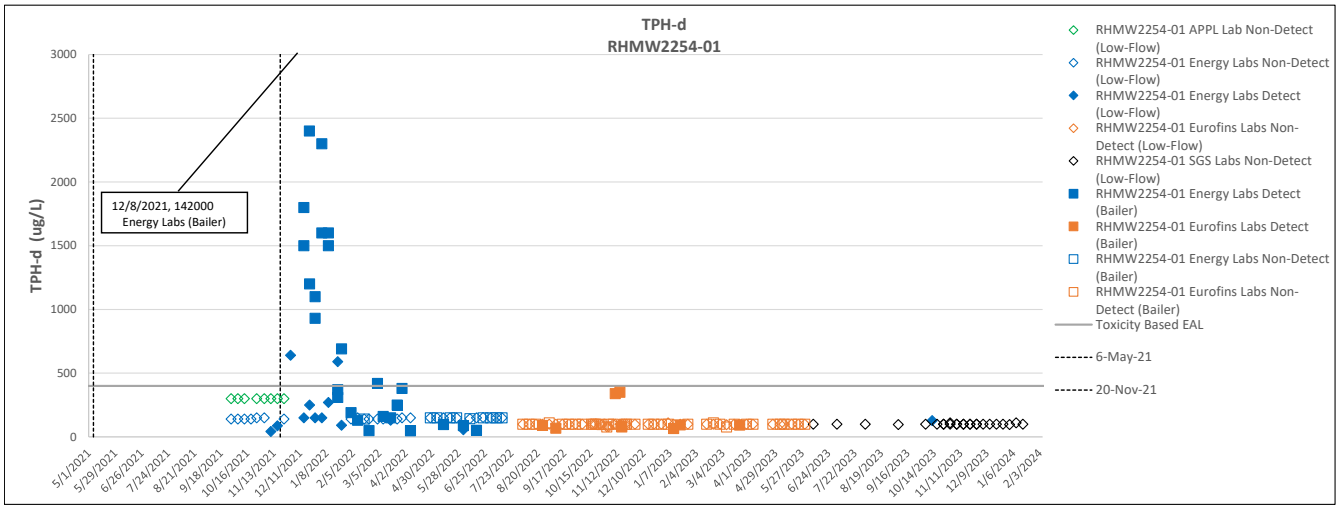
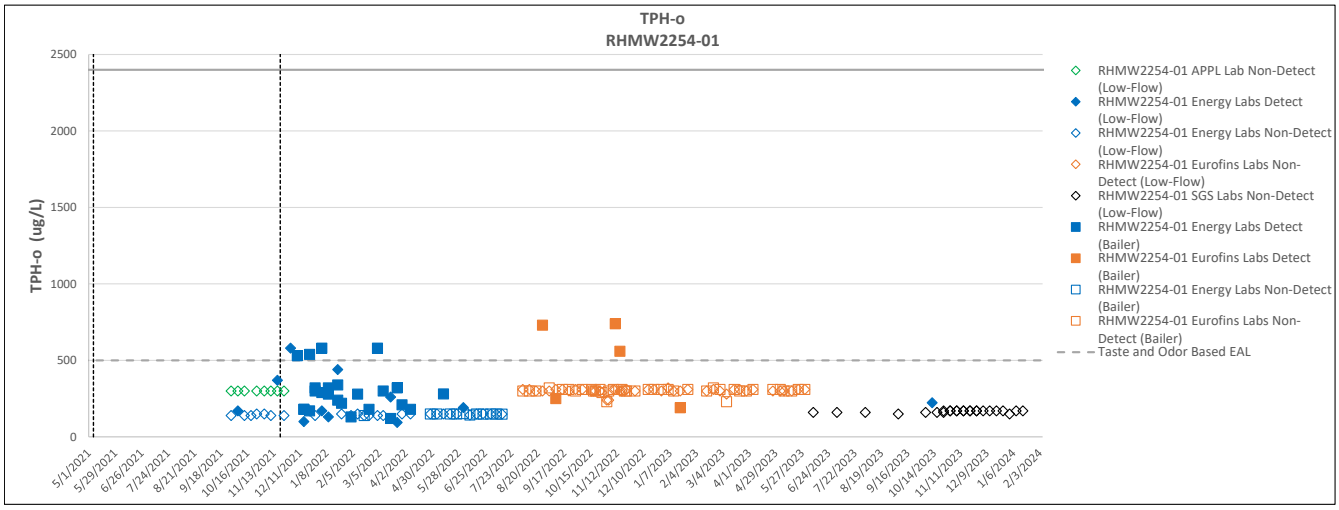
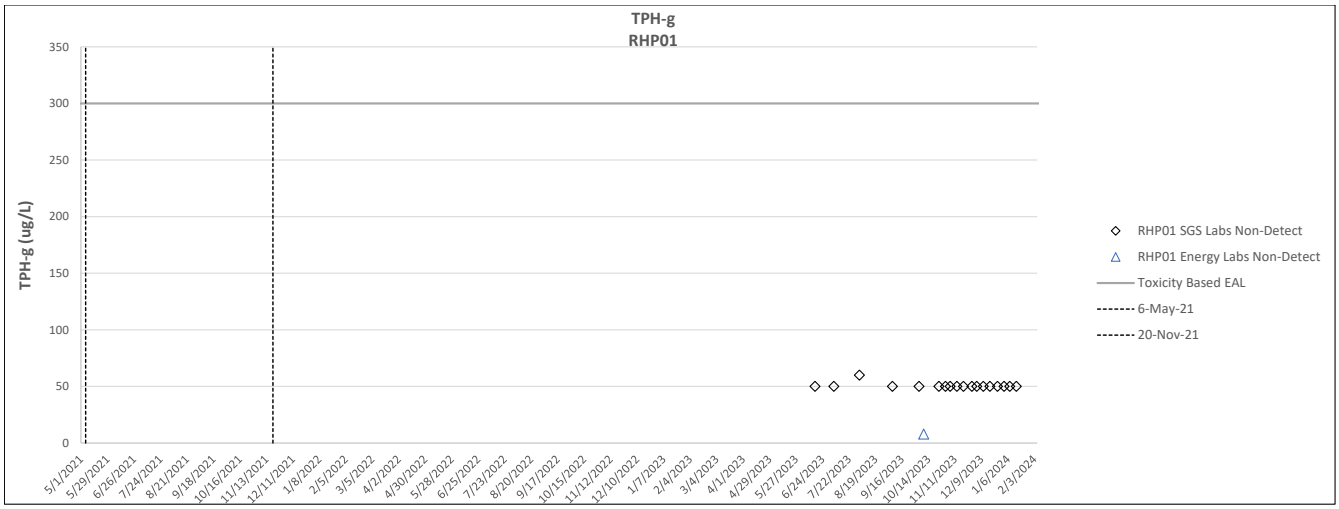
6/24/2023
7/22/2023
8/19/2023
9/16/2023
10/14/2023
11/11/2023
12/9/2023
1/6/2024
2/3/2024
RHMW20 Energy Labs Non-Detect
RHMW20 SGS Labs Detect
RHMW20 SGS Labs Non-Detect
Taste and Odor Based EAL
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-g
RHMW2254-01
TPH-g (ug/L)
RHMW2254-01 Energy Labs Detect (Low-Flow)
RHMW2254-01 Eurofins Labs Detect (low-Flow)
RHMW2254-01 SGS Labs Detect (Low-Flow)
RHMW2254-01 Energy Labs Non-Detect (Low-Flow)
RHMW2254-01 Eurofins Labs Non-Detect (Low-Flow)
RHMW2254-01 SGS Labs Non-Detect (Low-Flow)
RHMW2254-01 Energy Labs Detect (Bailer)
RHMW2254-01 Eurofins Labs Detect (Bailer)
RHMW2254-01 Energy Labs Non-Detect (Bailer)
RHMW2254-01 Eurofins Labs Non-Detect (Bailer)
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-d
RHMW2254-01
TPH-d (ug/L)
12/8/2021, 142000
Energy Labs (Bailer)
RHMW2254-01 APPL Lab Non-Detect (Low-Flow)
RHMW2254-01 Energy Labs Non-Detect (Low-Flow)
RHMW2254-01 Energy Labs Detect (Low-Flow)
RHMW2254-01 Eurofins Labs Non-Detect (Low-Flow)
RHMW2254-01 SGS Labs Non-Detect (Low-Flow)
RHMW2254-01 Energy Labs Detect (Bailer)
RHMW2254-01 Eurofins Labs Detect (Bailer)
RHMW2254-01 Energy Labs Non-Detect (Bailer)
RHMW2254-01 Eurofins Labs Non-Detect (Bailer)
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-o
RHMW2254-01
TPH-o (ug/L)
RHMW2254-01 APPL Lab Non-Detect (Low-Flow)
RHMW2254-01 Energy Labs Detect (Low-Flow)
RHMW2254-01 Energy Labs Non-Detect (Low-Flow)
RHMW2254-01 Eurofins Labs Non-Detect (Low-Flow)
RHMW2254-01 SGS Labs Non-Detect (Low-Flow)
RHMW2254-01 Energy Labs Detect (Bailer)
RHMW2254-01 Eurofins Labs Detect (Bailer)
RHMW2254-01 Energy Labs Non-Detect (Bailer)
RHMW2254-01 Eurofins Labs Non-Detect (Bailer)
Taste and Odor Based EAL


TPH-g
RHP01
TPH-g (ug/L)
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300
250
200
150
100
50
0
5/1/2021
5/29/2021
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10/16/2021
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4/2/2022
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7/23/2022
8/20/2022
9/17/2022
10/15/2022
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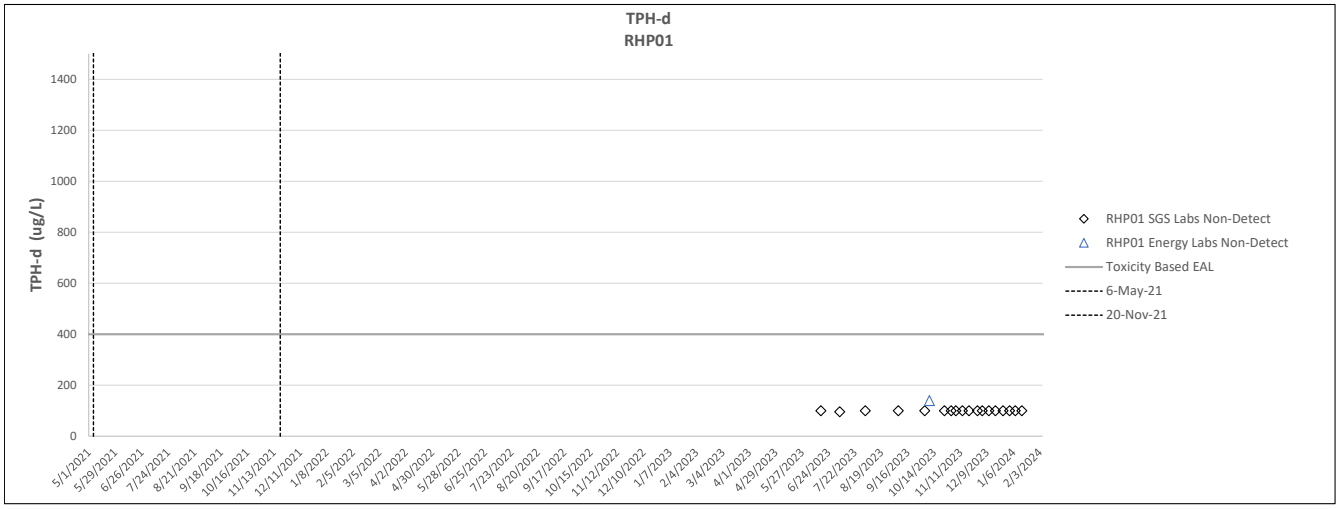
7/22/2023
8/19/2023
9/16/2023
10/14/2023
11/11/2023
12/9/2023
1/6/2024
2/3/2024
RHP01 SGS Labs Non-Detect
RHP01 Energy Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-d
RHP01
TPH-d (ug/L)
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1200
1000
800
600
400
200
0
5/1/2021
5/29/2021
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10/14/2023
11/11/2023
12/9/2023
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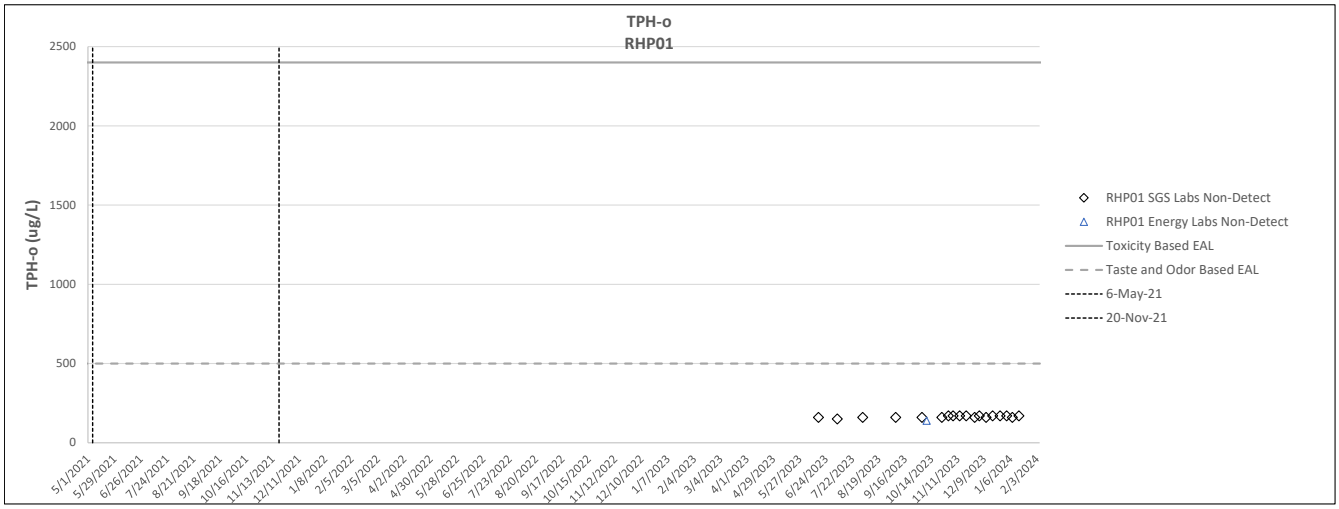
2/3/2024
RHP01 SGS Labs Non-Detect
RHP01 Energy Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-o
RHP01
TPH-o (ug/L)
2500
2000
1500
1000
500
0
5/1/2021
5/29/2021
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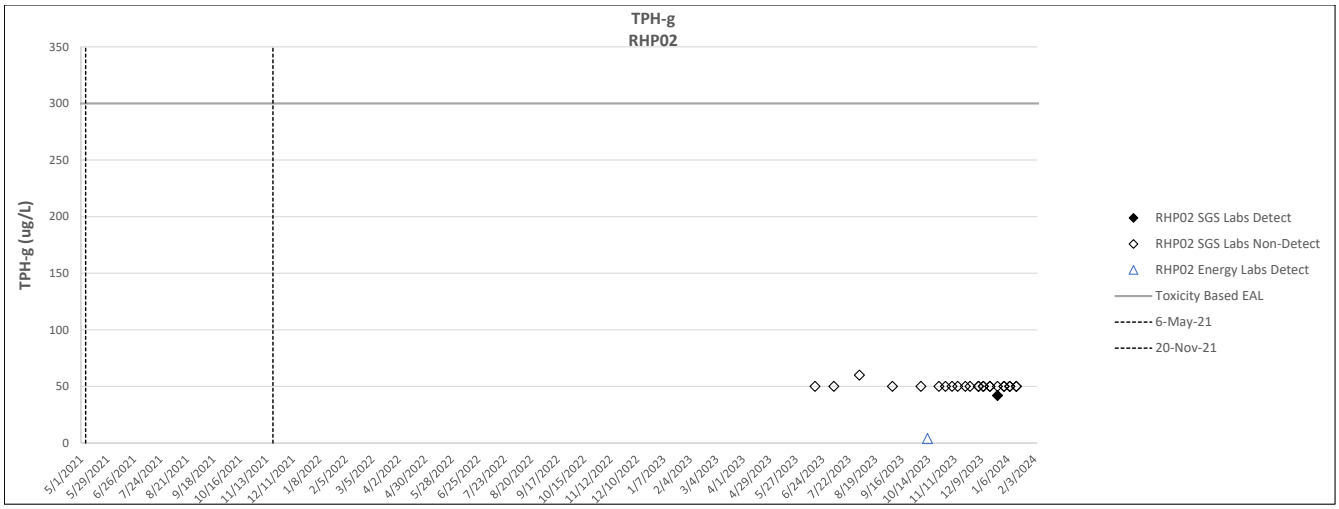
2/3/2024
RHP01 SGS Labs Non-Detect
RHP01 Energy Labs Non-Detect
Toxicity Based EAL
Taste and Odor Based EAL
6-May-21
20-Nov-21


TPH-g
RHP02
TPH-g (ug/L)
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300
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200
150
100
50
0
5/1/2021
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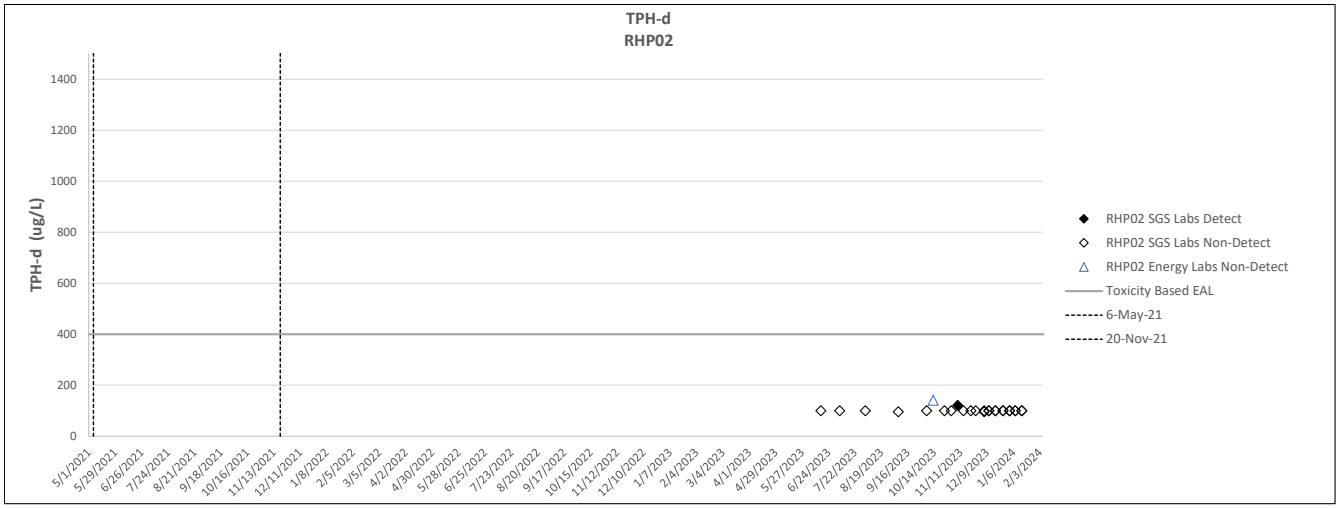
2/3/2024
RHP02 SGS Labs Detect
RHP02 SGS Labs Non-Detect
RHP02 Energy Labs Detect
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-d
RHP02
TPH-d (ug/L)
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800
600
400
200
0
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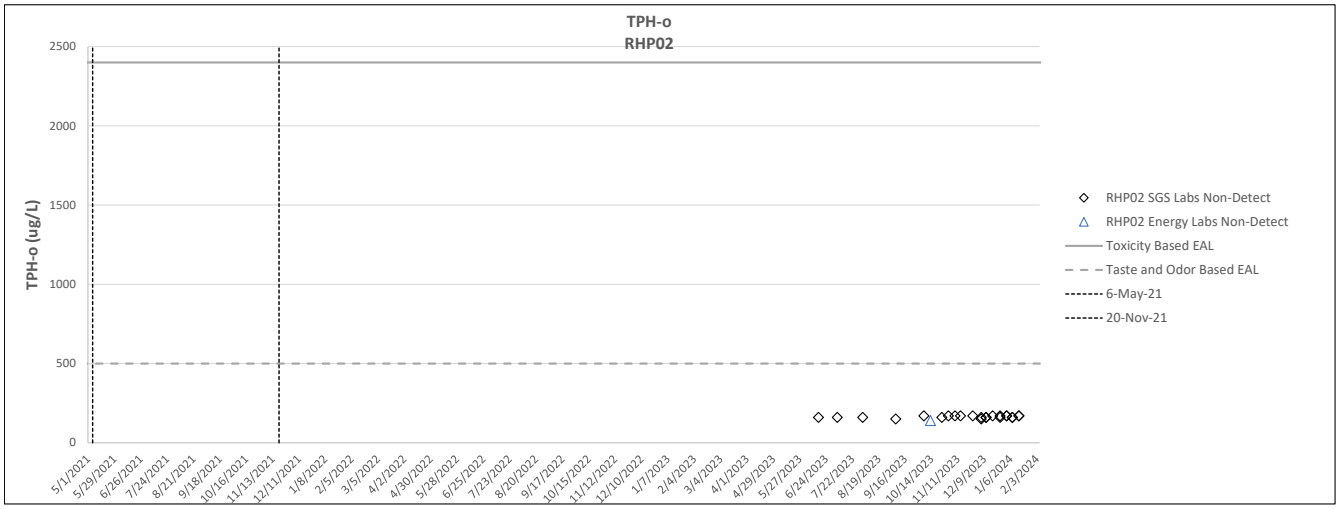
2/3/2024
RHP02 SGS Labs Detect
RHP02 SGS Labs Non-Detect
RHP02 Energy Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-o
RHP02
TPH-o (ug/L)
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2000
1500
1000
500
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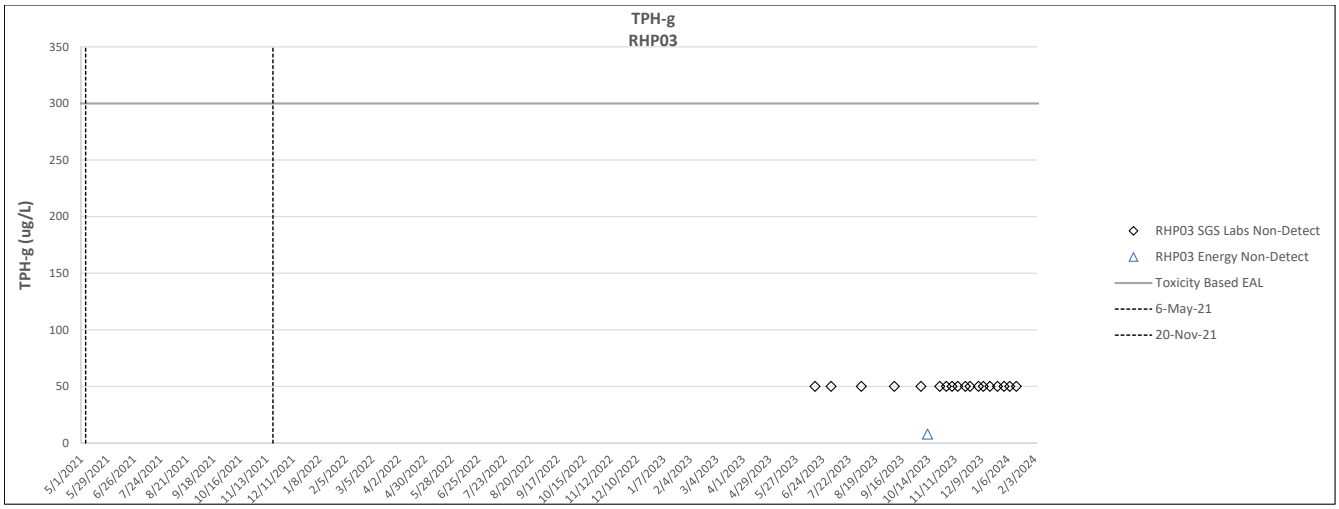
2/3/2024
RHP02 SGS Labs Non-Detect
RHP02 Energy Labs Non-Detect
Toxicity Based EAL
Taste and Odor Based EAL
6-May-21
20-Nov-21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RHP03
TPH-g (ug/L)
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200
150
100
50
0
5/1/2021
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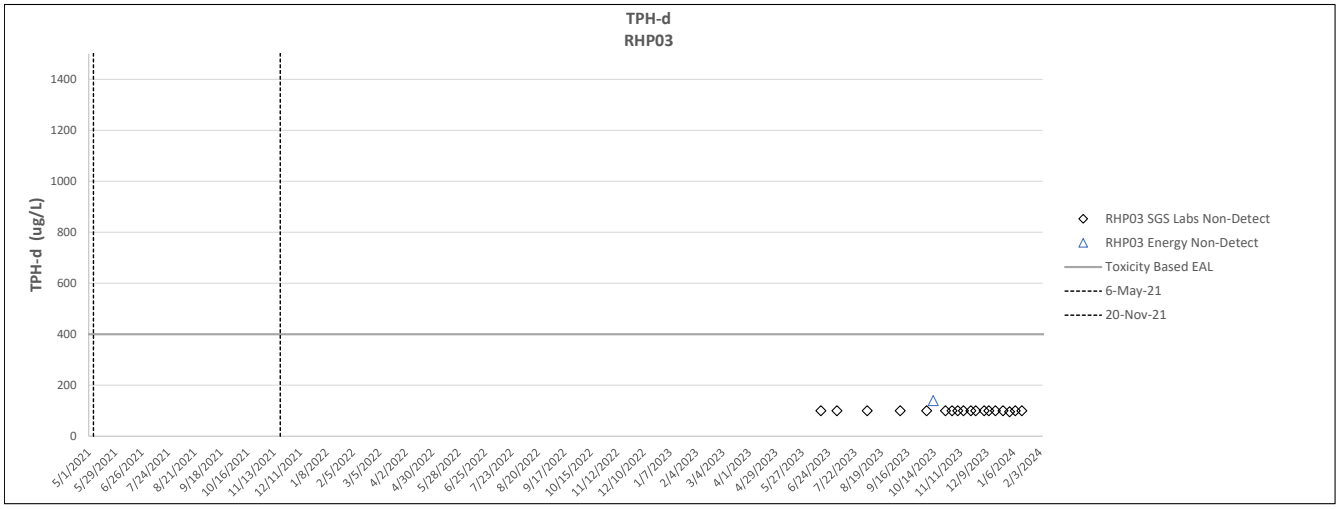
1/6/2024
2/3/2024
RHP03 SGS Labs Non-Detect
RHP03 Energy Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-d
RHP03
TPH-d (ug/L)
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1200
1000
800
600
400
200
0
5/1/2021
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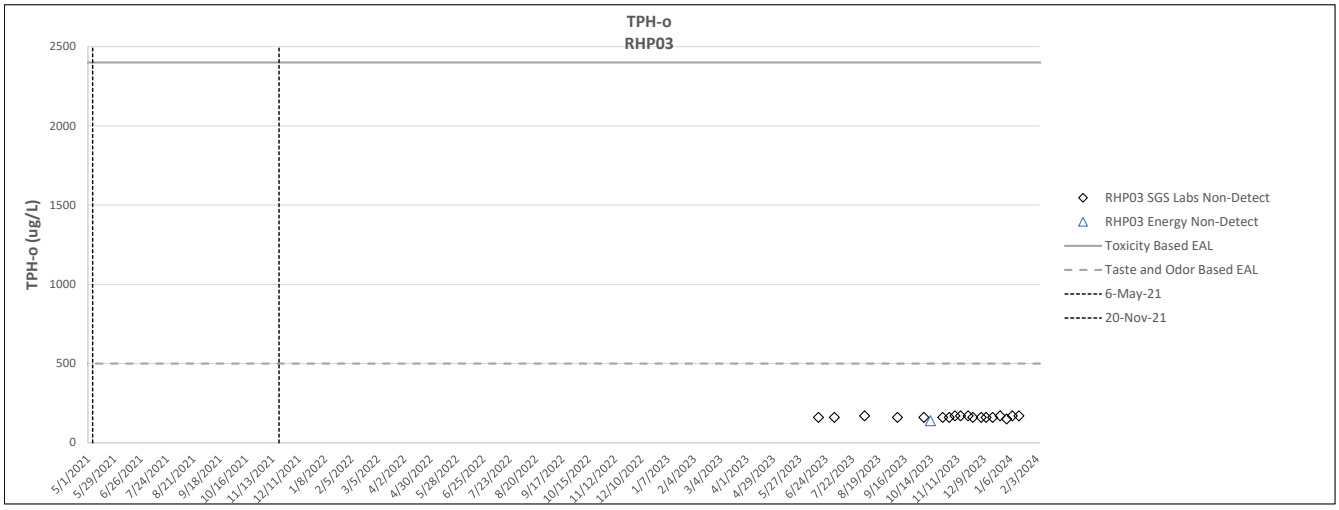
2/3/2024
RHP03 SGS Labs Non-Detect
RHP03 Energy Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-o
RHP03
TPH-o (ug/L)
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2000
1500
1000
500
0
5/1/2021
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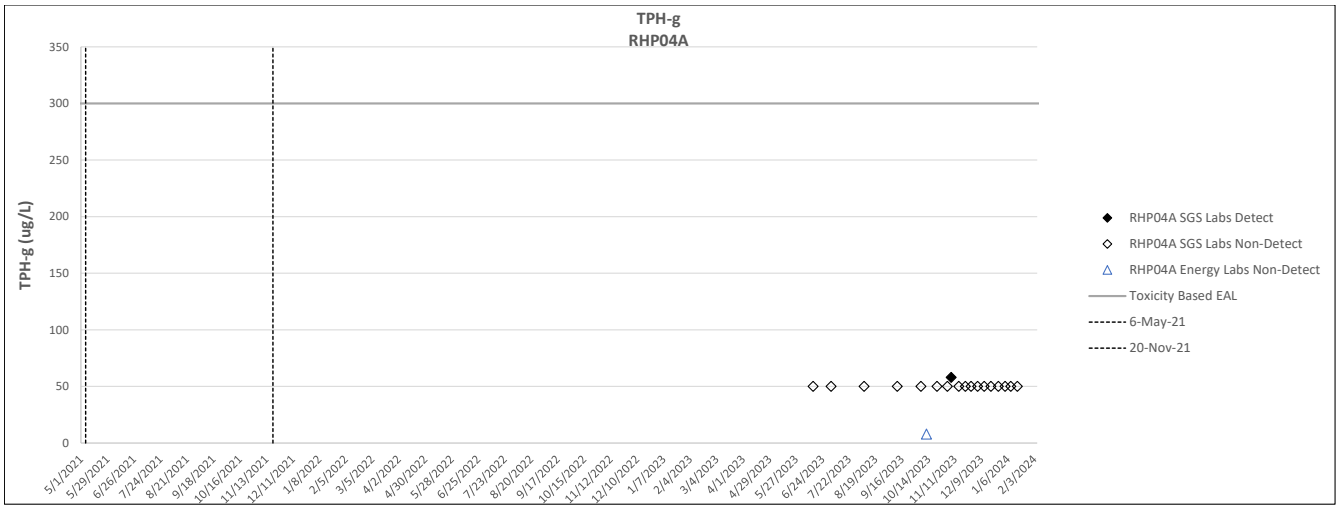
RHP03 SGS Labs Non-Detect
RHP03 Energy Non-Detect
Toxicity Based EAL
Taste and Odor Based EAL
6-May-21
20-Nov-21


TPH-g
RHP04A
TPH-g (ug/L)
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300
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200
150
100
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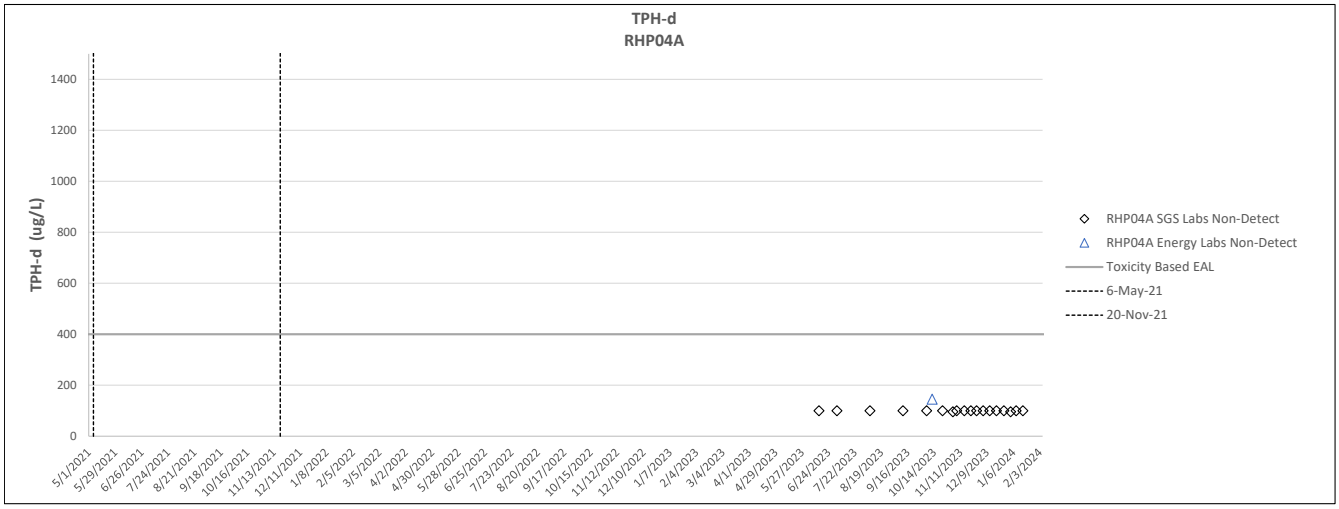
2/3/2024
RHP04A SGS Labs Detect
RHP04A SGS Labs Non-Detect
RHP04A Energy Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-d
RHP04A
TPH-d (ug/L)
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1200
1000
800
600
400
200
0
5/1/2021
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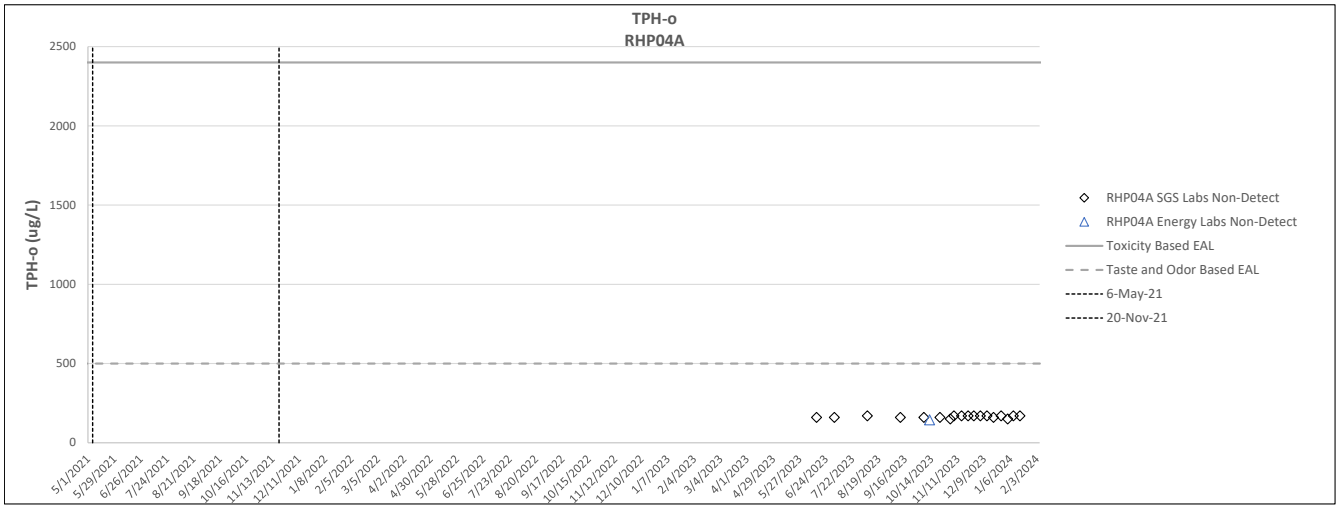
RHP04A SGS Labs Non-Detect
RHP04A Energy Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21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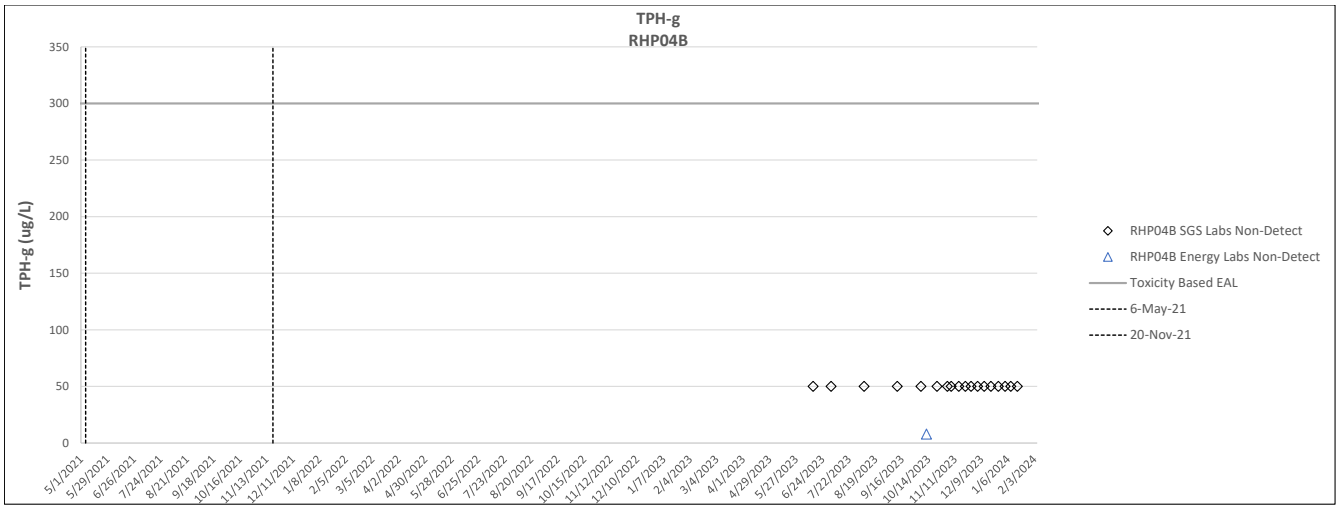
RHP04A SGS Labs Non-Detect
RHP04A Energy Labs Non-Detect
Toxicity Based EAL
Taste and Odor Based EAL
6-May-21
20-Nov-21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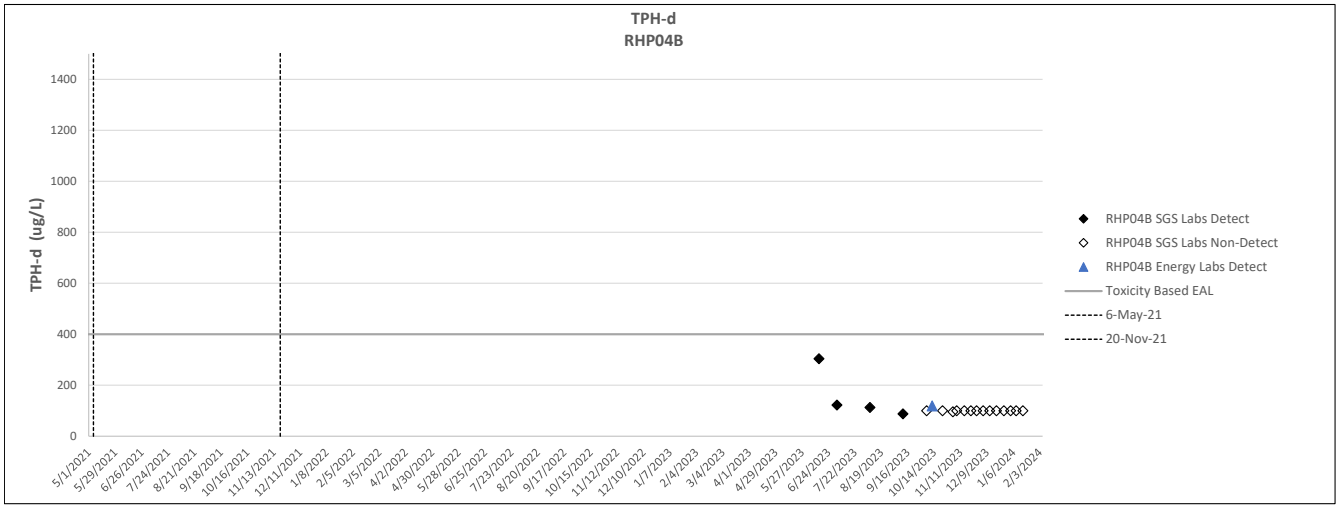
RHP04B SGS Labs Non-Detect
RHP04B Energy Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21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TPH-d (ug/L)
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11/11/2023
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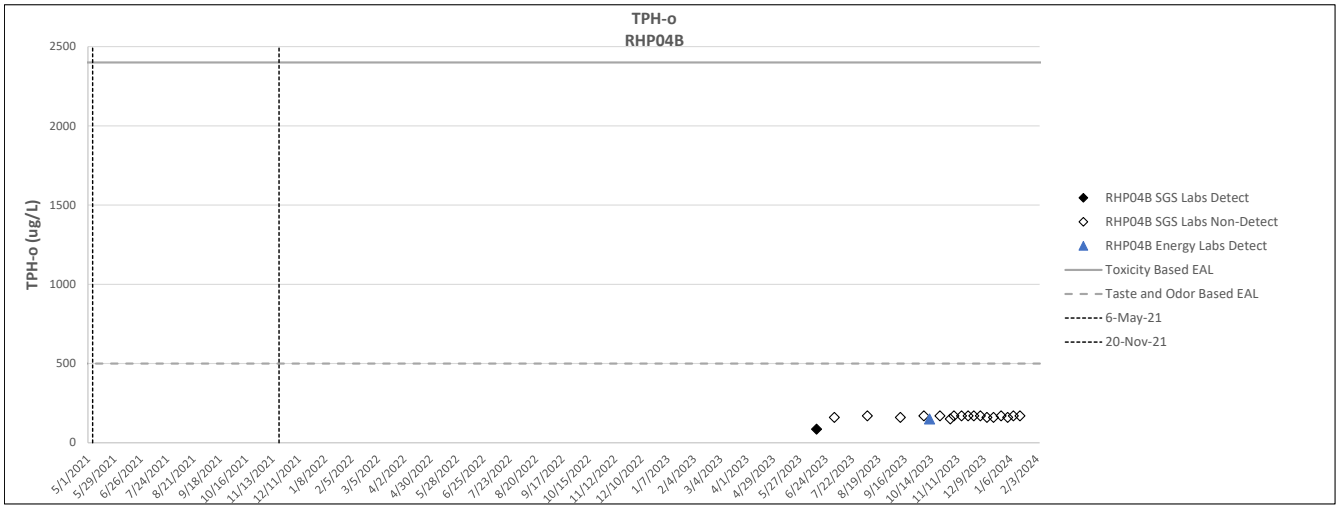
2/3/2024
RHP04B SGS Labs Detect
RHP04B SGS Labs Non-Detect
RHP04B Energy Labs Detect
Toxicity Based EAL
6-May-21
20-Nov-21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RHP04B
TPH-o (ug/L)
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500
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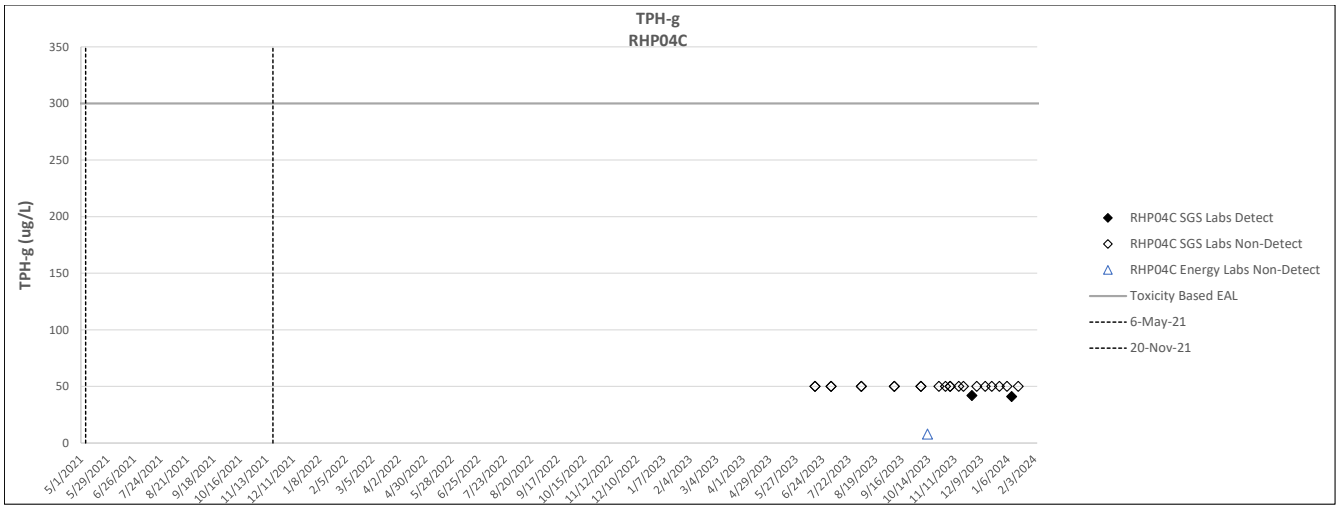
2/3/2024
RHP04B SGS Labs Detect
RHP04B SGS Labs Non-Detect
RHP04B Energy Labs Detect
Toxicity Based EAL
Taste and Odor Based EAL
6-May-21
20-Nov-21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TPH-g (ug/L)
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100
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0
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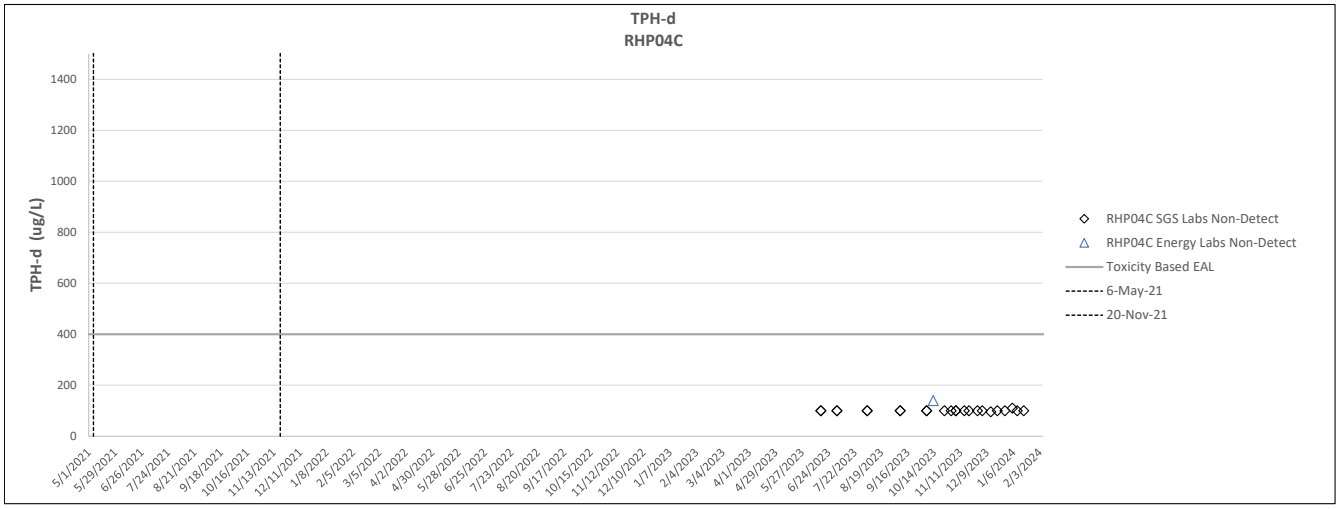
2/3/2024
RHP04C SGS Labs Detect
RHP04C SGS Labs Non-Detect
RHP04C Energy Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21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TPH-d (ug/L)
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1200
1000
800
600
400
200
0
5/1/2021
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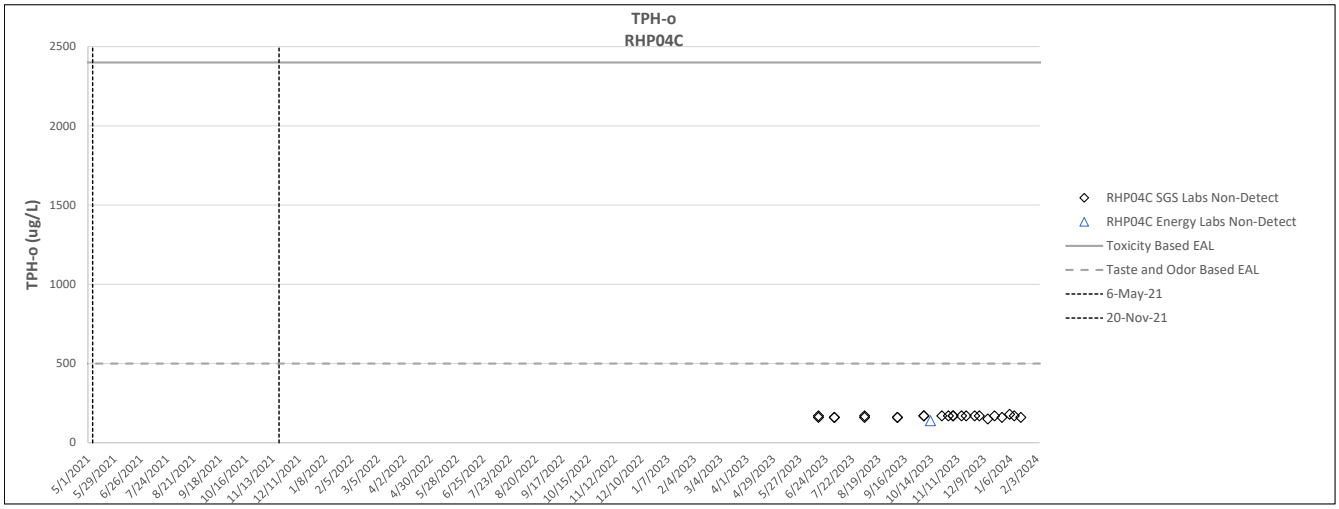
RHP04C SGS Labs Non-Detect
RHP04C Energy Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21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TPH-o (ug/L)
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500
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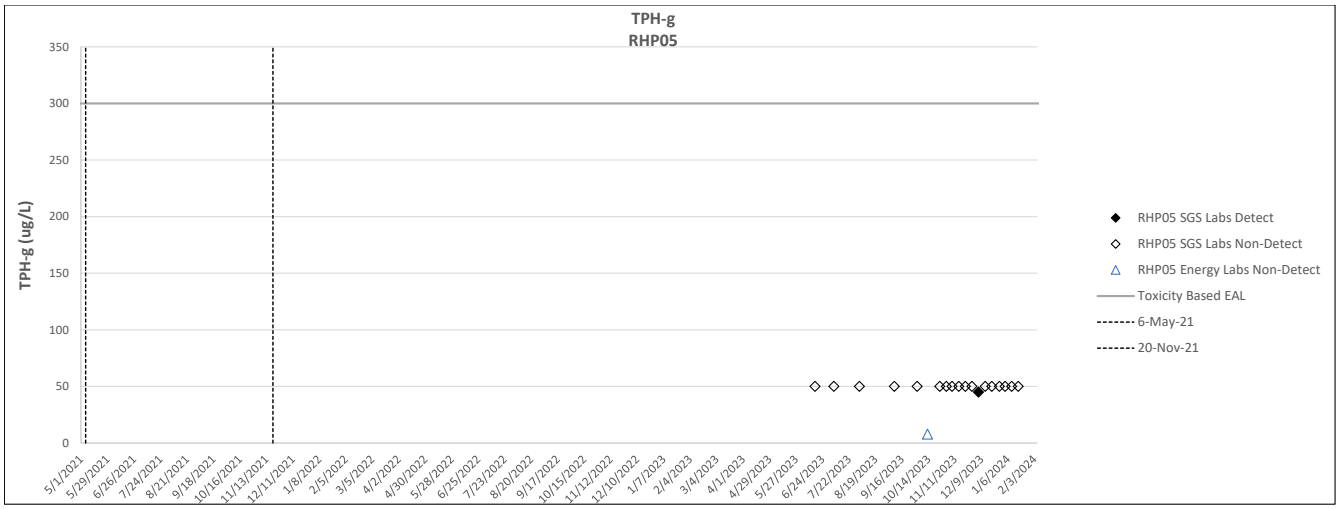
2/3/2024
RHP04C SGS Labs Non-Detect
RHP04C Energy Labs Non-Detect
Toxicity Based EAL
Taste and Odor Based EAL
6-May-21
20-Nov-21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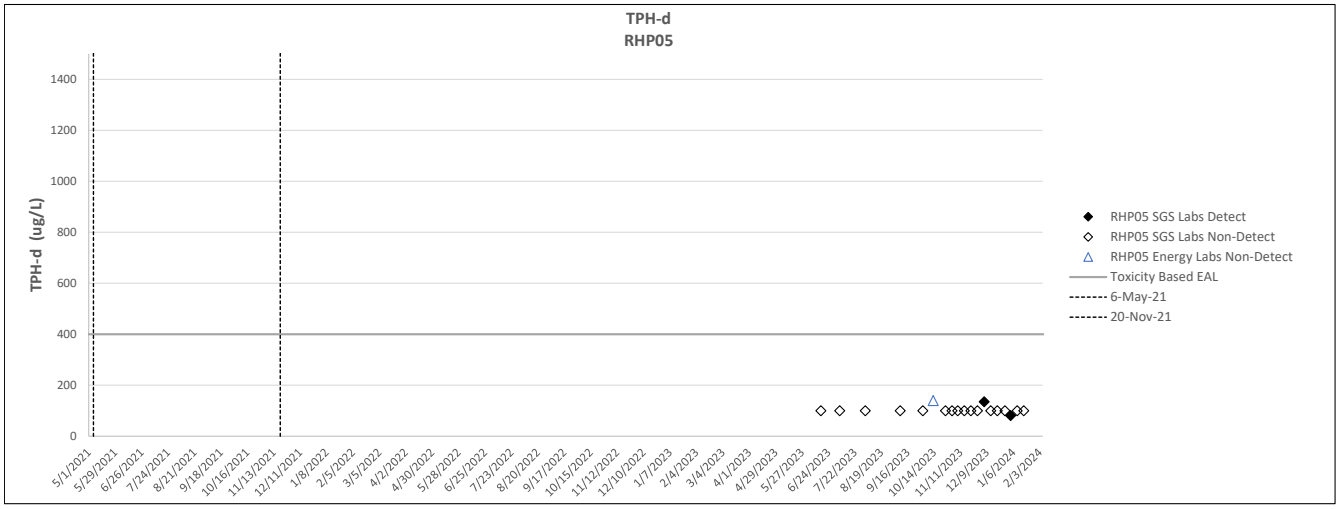
RHP05 SGS Labs Non-Detect
RHP05 Energy Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21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TPH-d (ug/L)
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400
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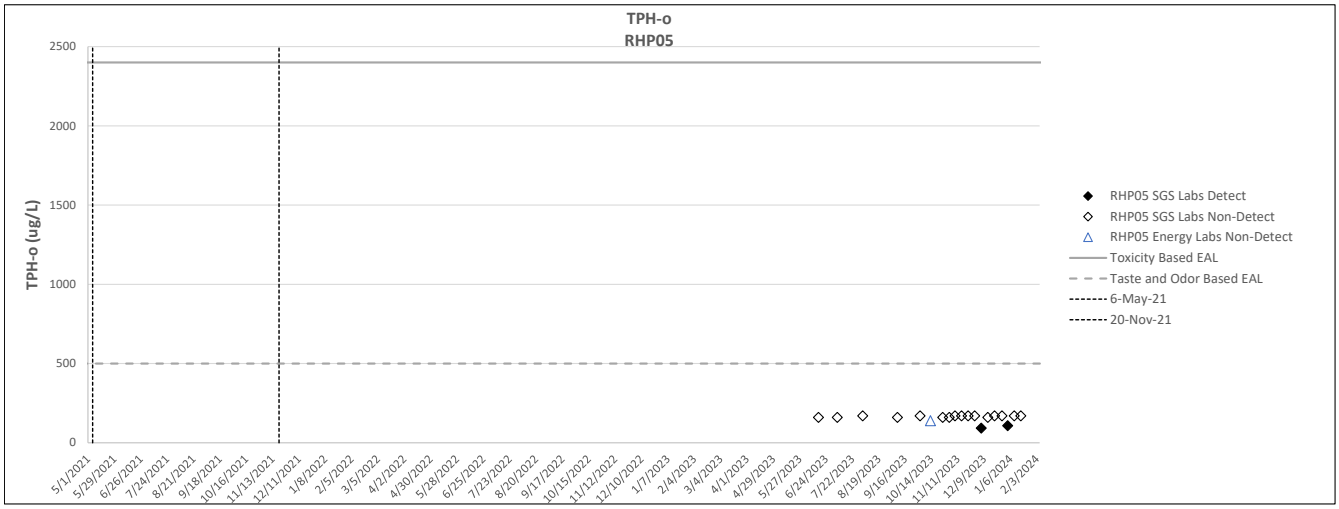
RHP05 SGS Labs Detect
RHP05 SGS Labs Non-Detect
RHP05 Energy Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21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RHP05 SGS Labs Detect
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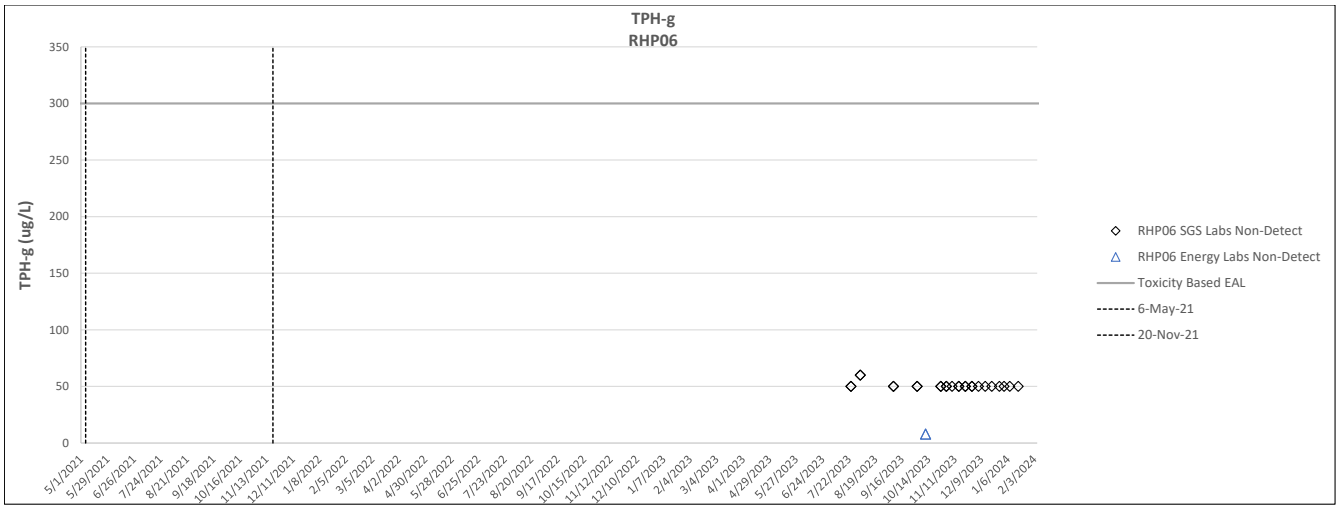
RHP05 Energy Labs Non-Detect
Toxicity Based EAL
Taste and Odor Based EAL
6-May-21
20-Nov-21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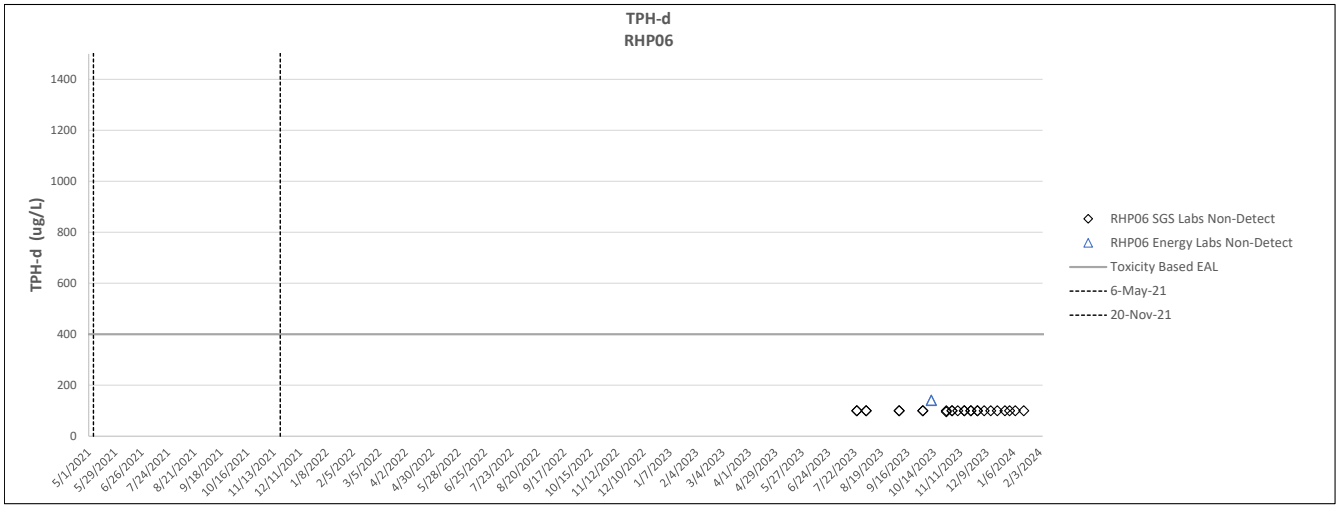
RHP06 SGS Labs Non-Detect
RHP06 Energy Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21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TPH-d (ug/L)
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1000
800
600
400
200
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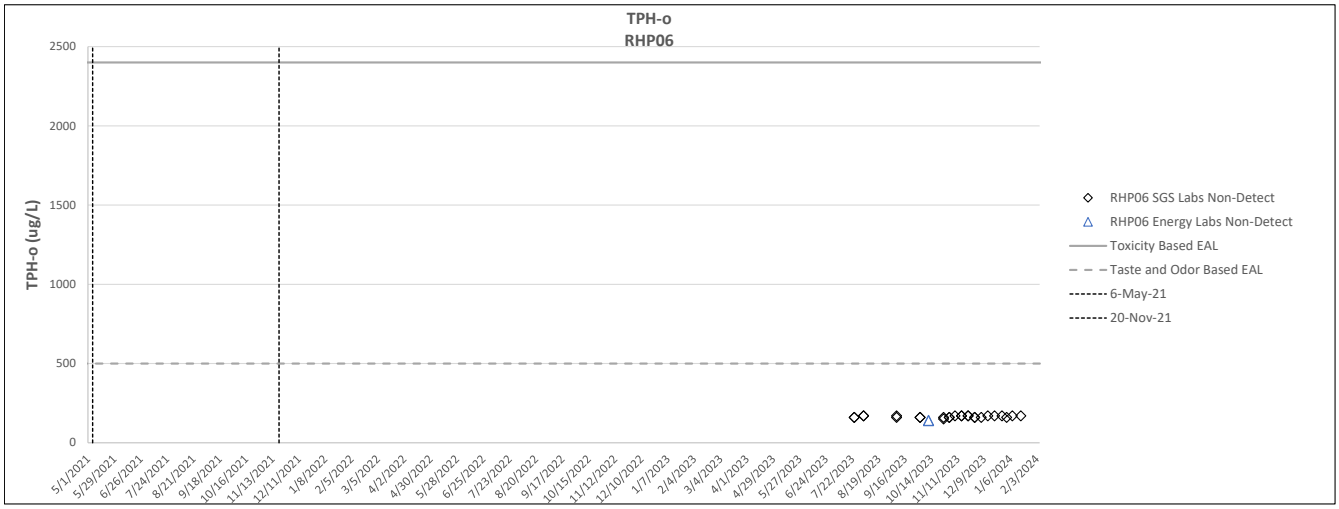
RHP06 SGS Labs Non-Detect
RHP06 Energy Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21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RHP06
TPH-o (ug/L)
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2000
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1000
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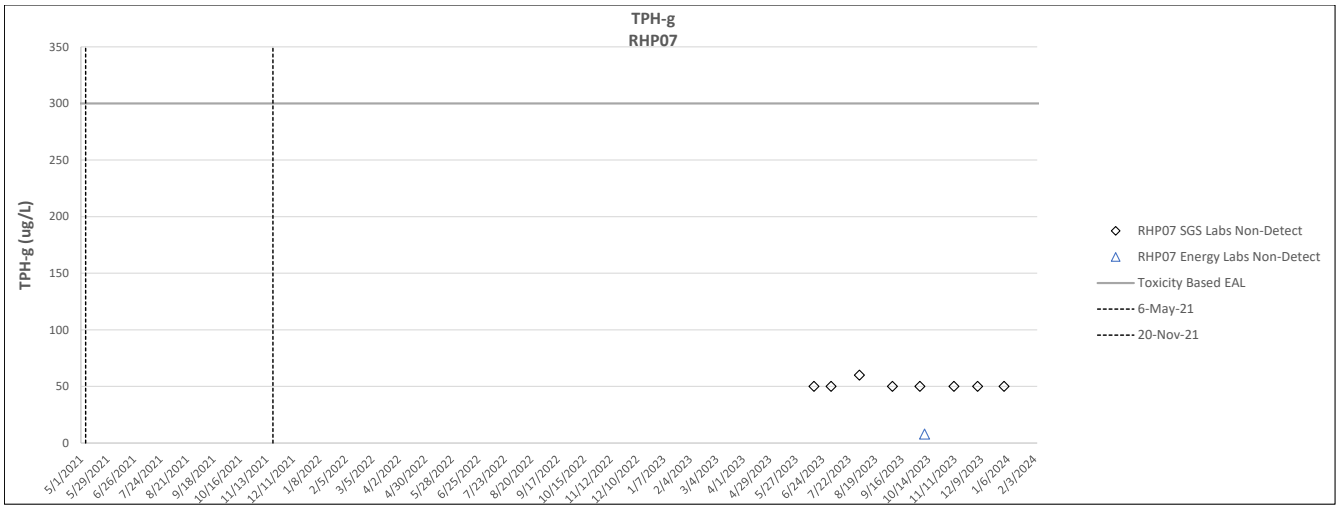
RHP06 SGS Labs Non-Detect
RHP06 Energy Labs Non-Detect
Toxicity Based EAL
Taste and Odor Based EAL
6-May-21
20-Nov-21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RHP07 SGS Labs Non-Detect
RHP07 Energy Labs Non-Detect
Toxicity Based EAL
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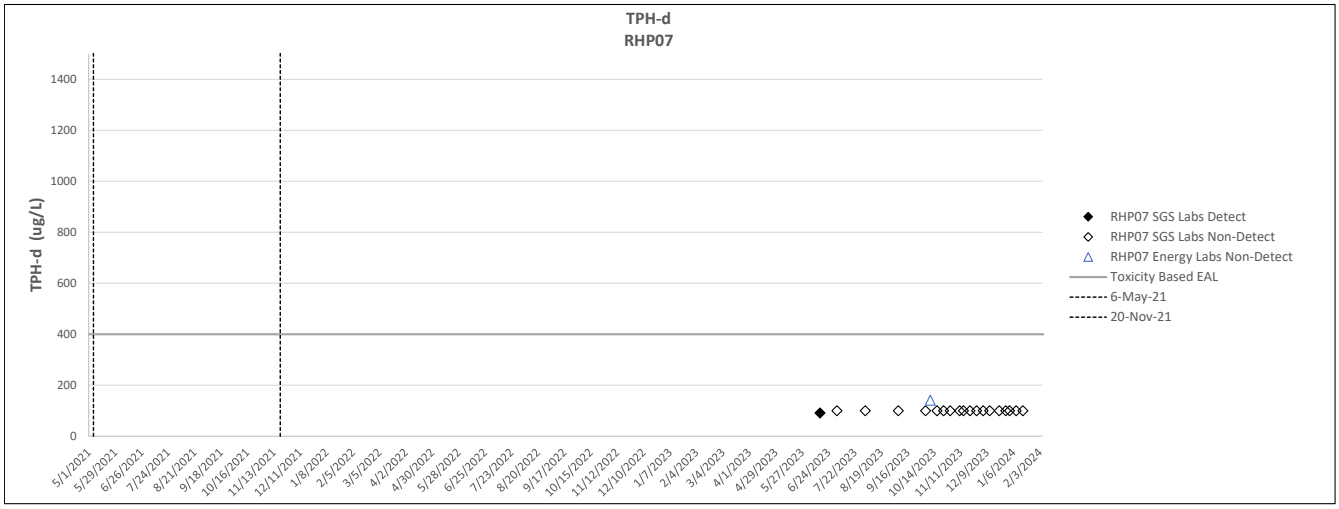
20-Nov-21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RHP07
TPH-d (ug/L)
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1200
1000
800
600
400
200
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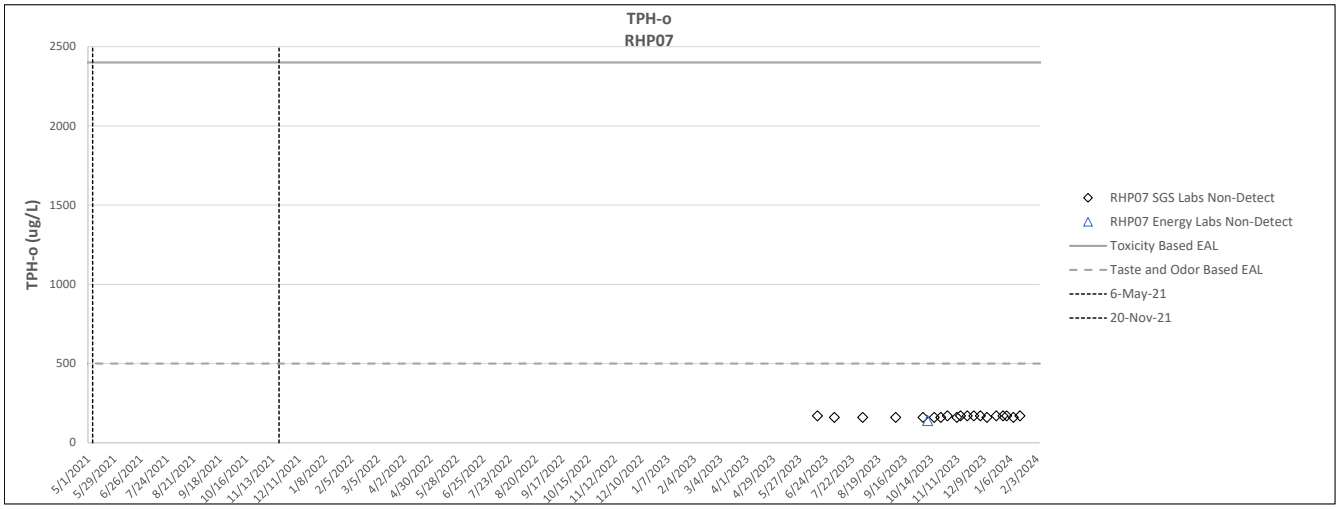
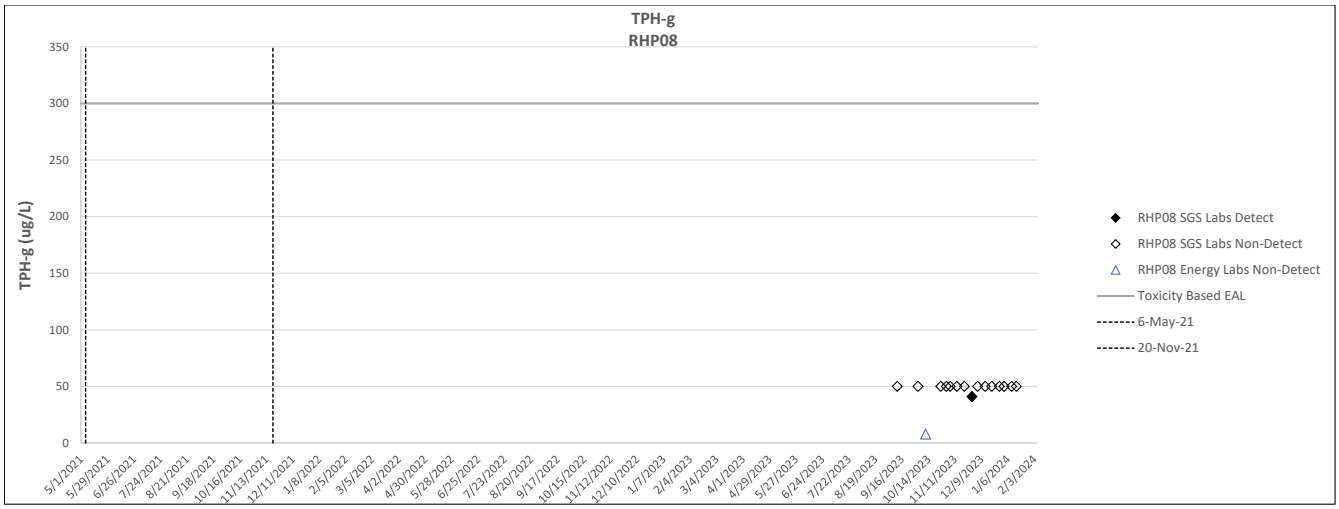
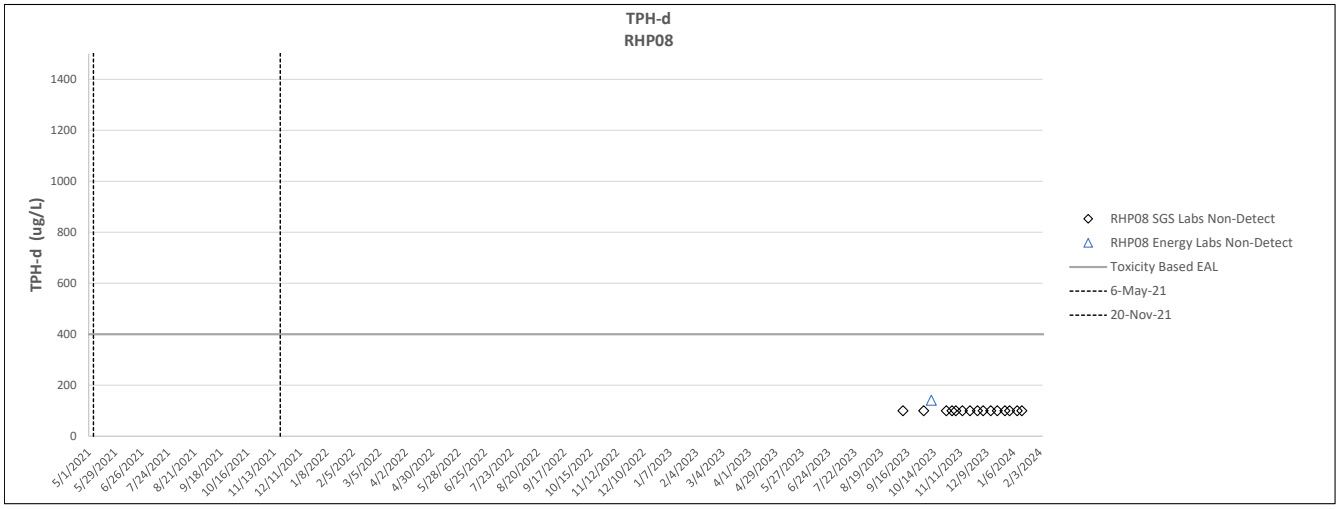
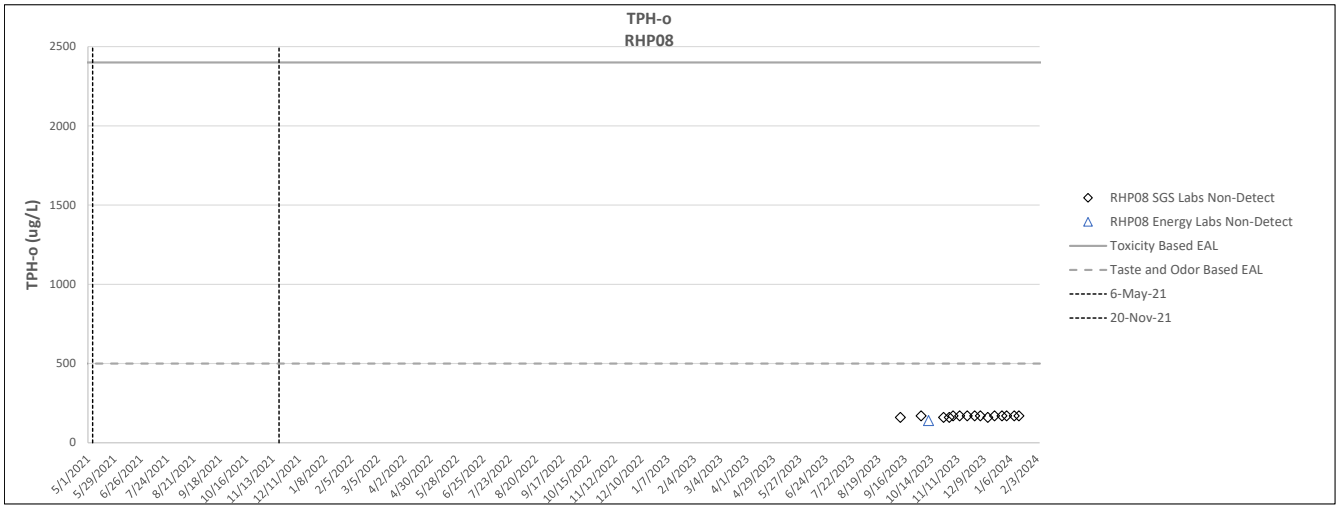
RHP07 SGS Labs Detect
RHP07 SGS Labs Non-Detect
RHP07 Energy Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21

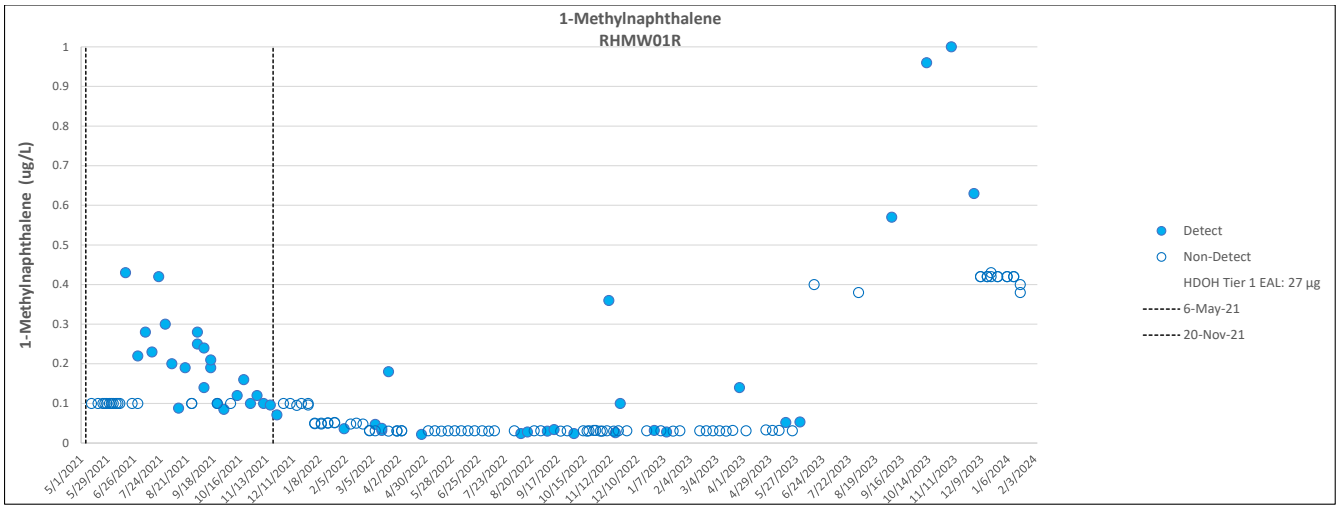

TPH-o
RHP07
TPH-o (ug/L)
2500
2000
1500
1000
500
0
5/1/2021
5/29/2021
6/26/2021
7/24/2021
8/21/2021
9/18/2021
10/16/2021
11/13/2021
12/11/2021
1/8/2022
2/5/2022
3/5/2022
4/2/2022
4/30/2022
5/28/2022
6/25/2022
7/23/2022
8/20/2022
9/17/2022
10/15/2022
11/12/2022
12/10/2022
1/7/2023
2/4/2023
3/4/2023
4/1/2023
4/29/2023
5/27/2023
6/24/2023
7/22/2023
8/19/2023
9/16/2023
10/14/2023
11/11/2023
12/9/2023
1/6/2024
2/3/2024
RHP07 SGS Labs Non-Detect
RHP07 Energy Labs Non-Detect
Toxicity Based EAL
Taste and Odor Based EAL
6-May-21
20-Nov-21

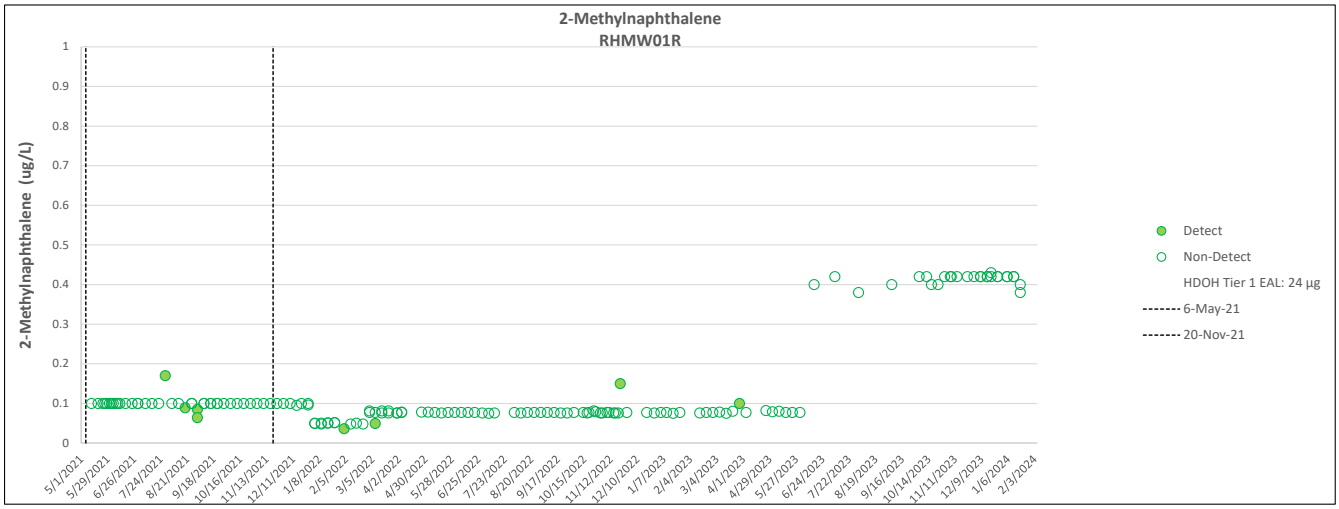

TPH-g
RHP08
TPH-g (ug/L)
350
300
250
200
150
100
50
0
5/1/2021
5/29/2021
6/26/2021
7/24/2021
8/21/2021
9/18/2021
10/16/2021
11/13/2021
12/11/2021
1/8/2022
2/5/2022
3/5/2022
4/2/2022
4/30/2022
5/28/2022
6/25/2022
7/23/2022
8/20/2022
9/17/2022
10/15/2022
11/12/2022
12/10/2022
1/7/2023
2/4/2023
3/4/2023
4/1/2023
4/29/2023
5/27/2023
6/24/2023
7/22/2023
8/19/2023
9/16/2023
10/14/2023
11/11/2023
12/9/2023
1/6/2024
2/3/2024
RHP08 SGS Labs Detect
RHP08 SGS Labs Non-Detect
RHP08 Energy Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21

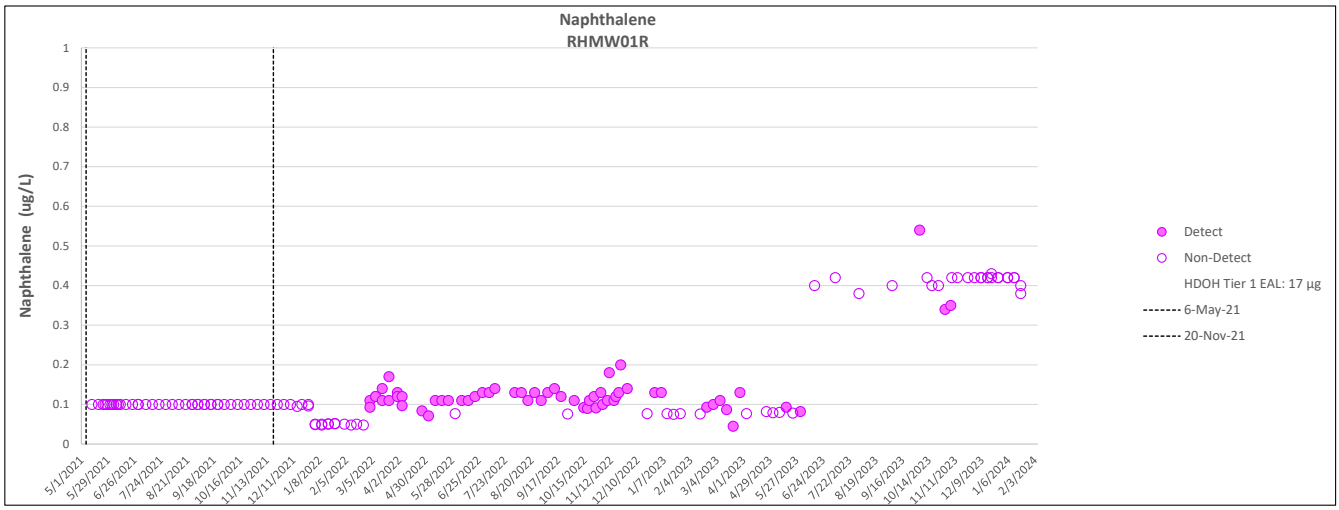

TPH-d
RHP08
TPH-d (ug/L)
1400
1200
1000
800
600
400
200
0
5/1/2021
5/29/2021
6/26/2021
7/24/2021
8/21/2021
9/18/2021
10/16/2021
11/13/2021
12/11/2021
1/8/2022
2/5/2022
3/5/2022
4/2/2022
4/30/2022
5/28/2022
6/25/2022
7/23/2022
8/20/2022
9/17/2022
10/15/2022
11/12/2022
12/10/2022
1/7/2023
2/4/2023
3/4/2023
4/1/2023
4/29/2023
5/27/2023
6/24/2023
7/22/2023
8/19/2023
9/16/2023
10/14/2023
11/11/2023
12/9/2023
1/6/2024
2/3/2024
RHP08 SGS Labs Non-Detect
RHP08 Energy Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21

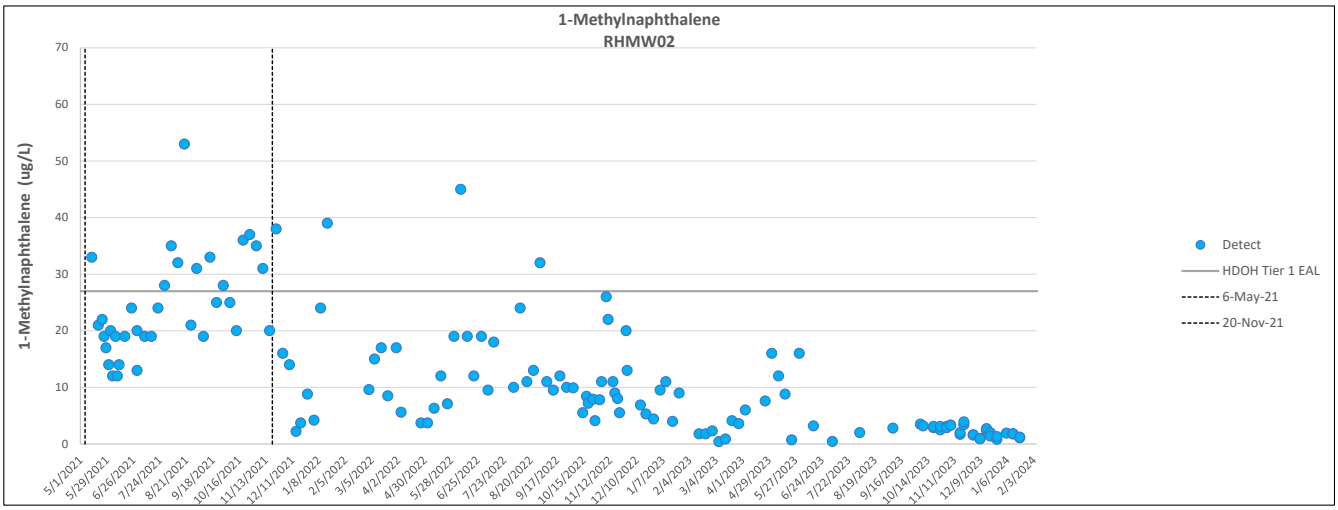

TPH-o
RHP08
TPH-o (ug/L)
2500
2000
1500
1000
500
0
5/1/2021
5/29/2021
6/26/2021
7/24/2021
8/21/2021
9/18/2021
10/16/2021
11/13/2021
12/11/2021
1/8/2022
2/5/2022
3/5/2022
4/2/2022
4/30/2022
5/28/2022
6/25/2022
7/23/2022
8/20/2022
9/17/2022
10/15/2022
11/12/2022
12/10/2022
1/7/2023
2/4/2023
3/4/2023
4/1/2023
4/29/2023
5/27/2023
6/24/2023
7/22/2023
8/19/2023
9/16/2023
10/14/2023
11/11/2023
12/9/2023
1/6/2024
2/3/2024
RHP08 SGS Labs Non-Detect
RHP08 Energy Labs Non-Detect
Toxicity Based EAL
Taste and Odor Based EAL
6-May-21
20-Nov-21

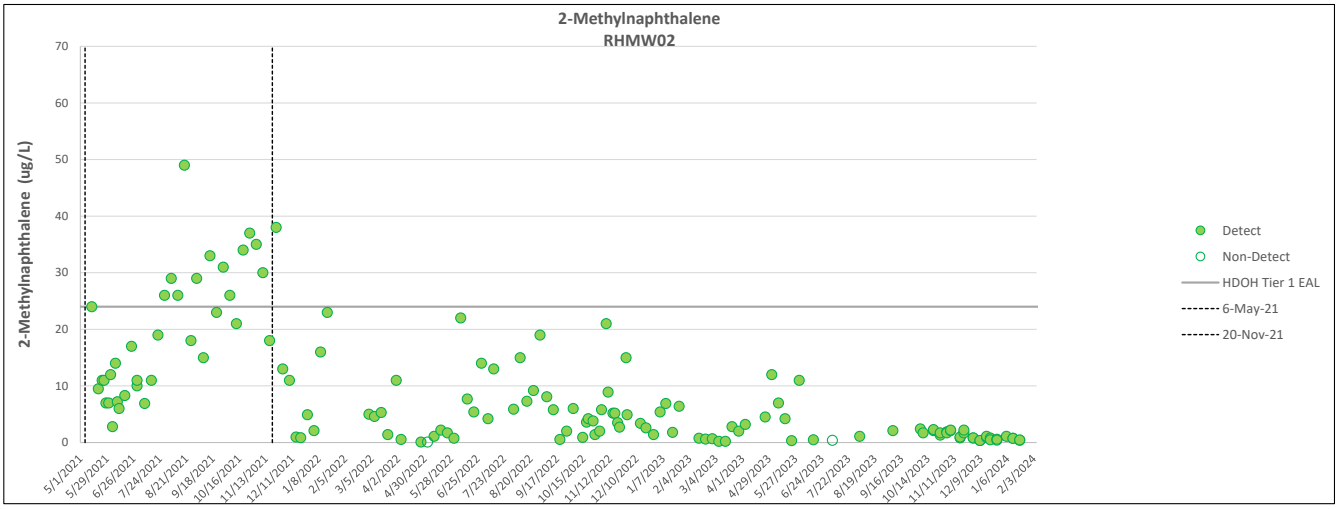
Appendix B.4.2.2 – PAH Charts

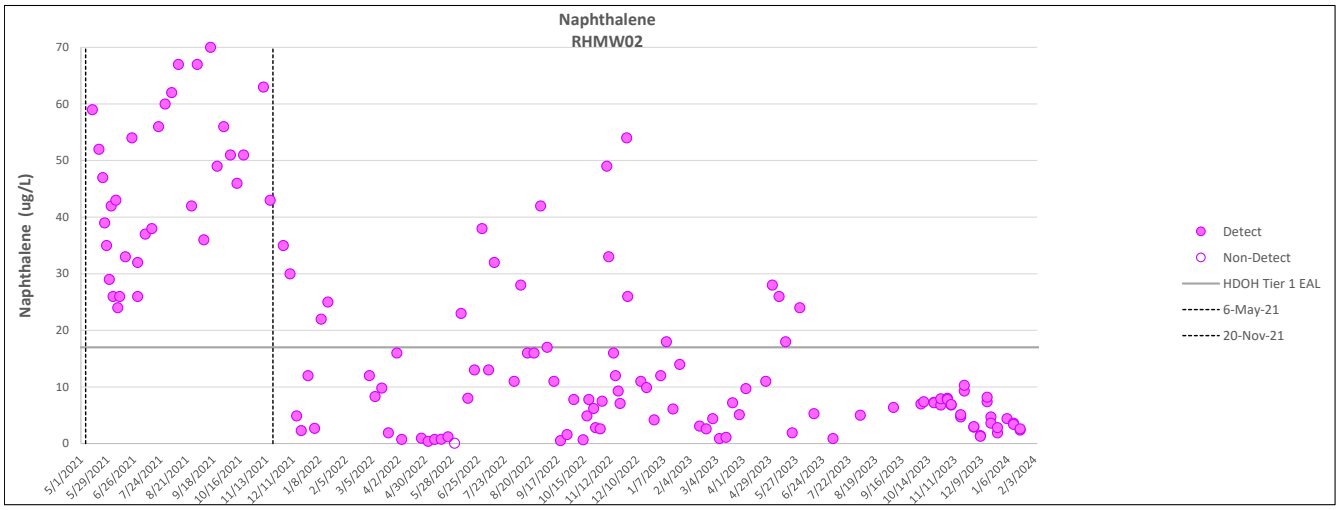

1-Methylnaphthalene
RHMW01R
1-Methylnaphthalene (ug/L)
Detect
Non-Detect
HDOH Tier 1 EAL: 27 µg
6-May-21
20-Nov-21


2-Methylnaphthalene
RHMW01R
2-Methylnaphthalene (ug/L)
Detect
Non-Detect
HDOH Tier 1 EAL: 24 µg
6-May-21
20-Nov-21

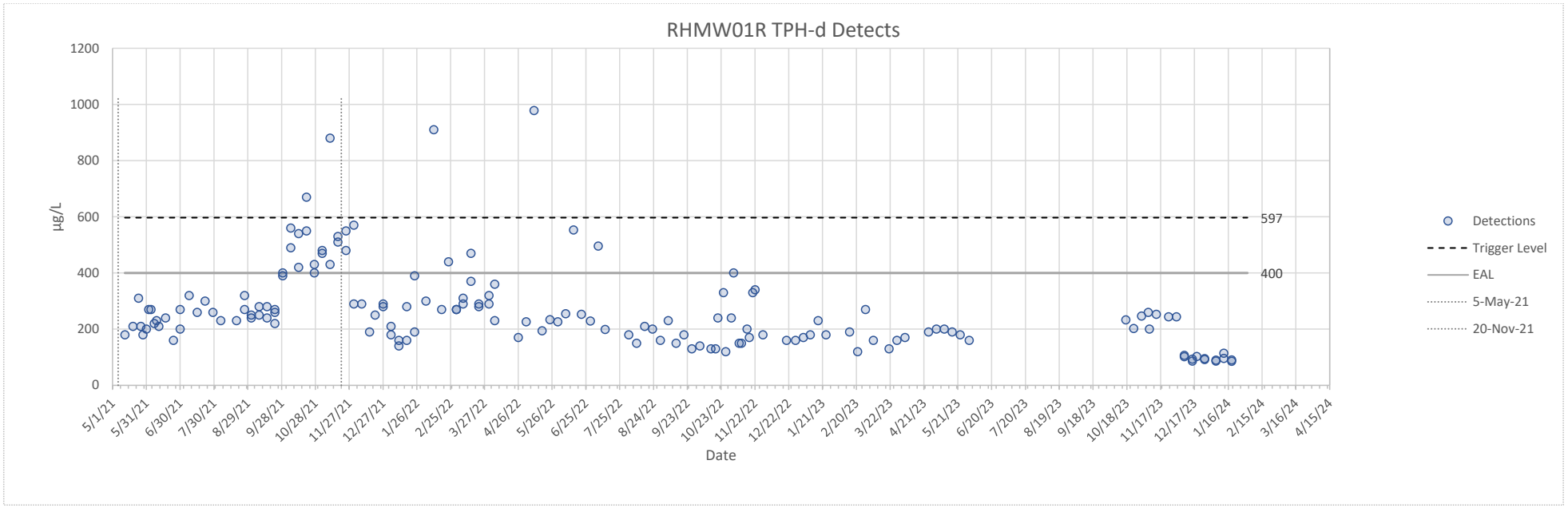

Naphthalene
RHMW01R
Naphthalene (ug/L)
Detect
Non-Detect
HDOH Tier 1 EAL: 17 µg
6-May-21
20-Nov-21

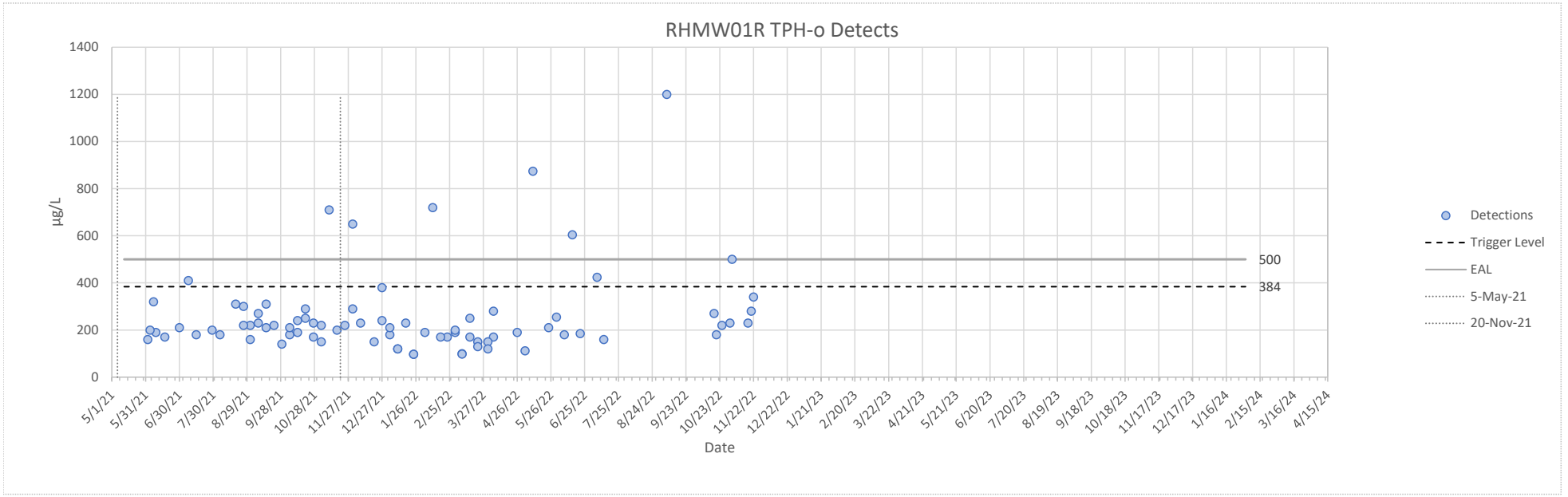

1-Methylnaphthalene
RHMW02
1-Methylnaphthalene (ug/L)
Detect
HDOH Tier 1 EAL
6-May-21
20-Nov-21

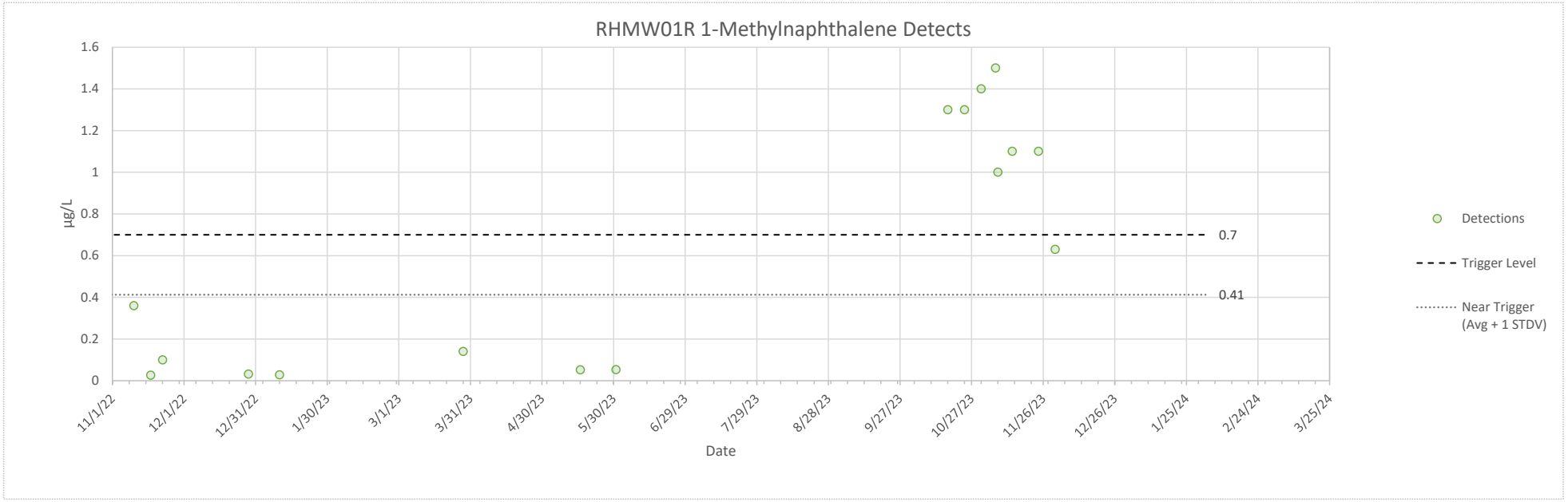

2-Methylnaphthalene
RHMW02
2-Methylnaphthalene (ug/L)
Detect
Non-Detect
HDOH Tier 1 EAL
6-May-21
20-Nov-21

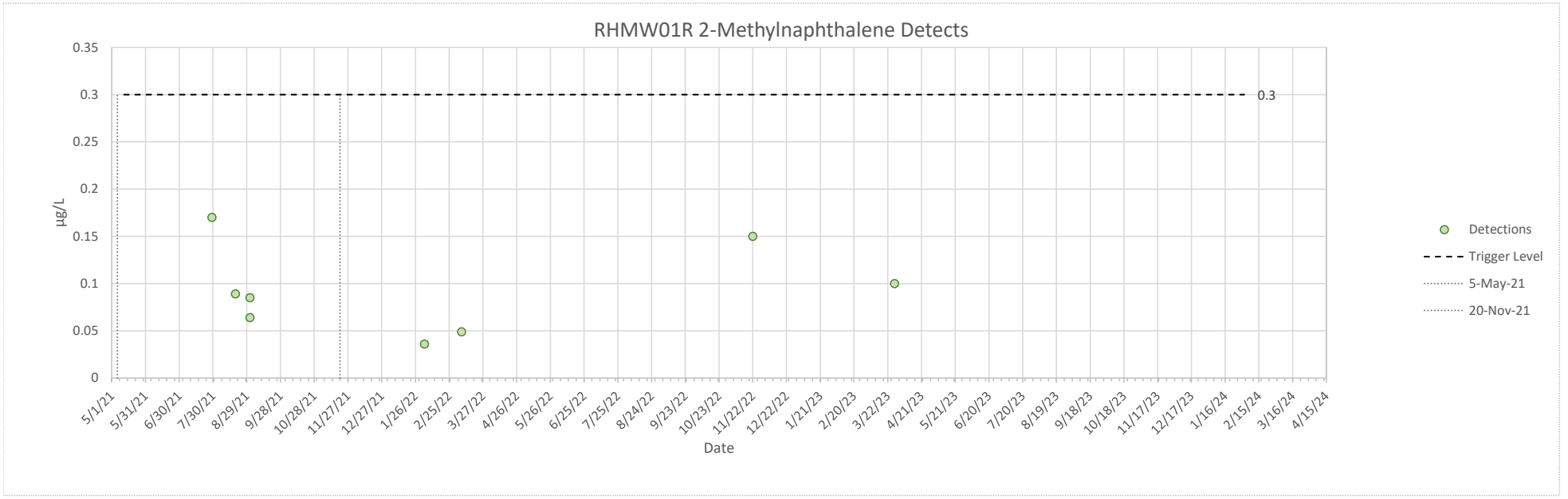

Naphthalene
RHMW02
Naphthalene (ug/L)
Detect
Non-Detect
HDOH Tier 1 EAL
6-May-21
20-Nov-21

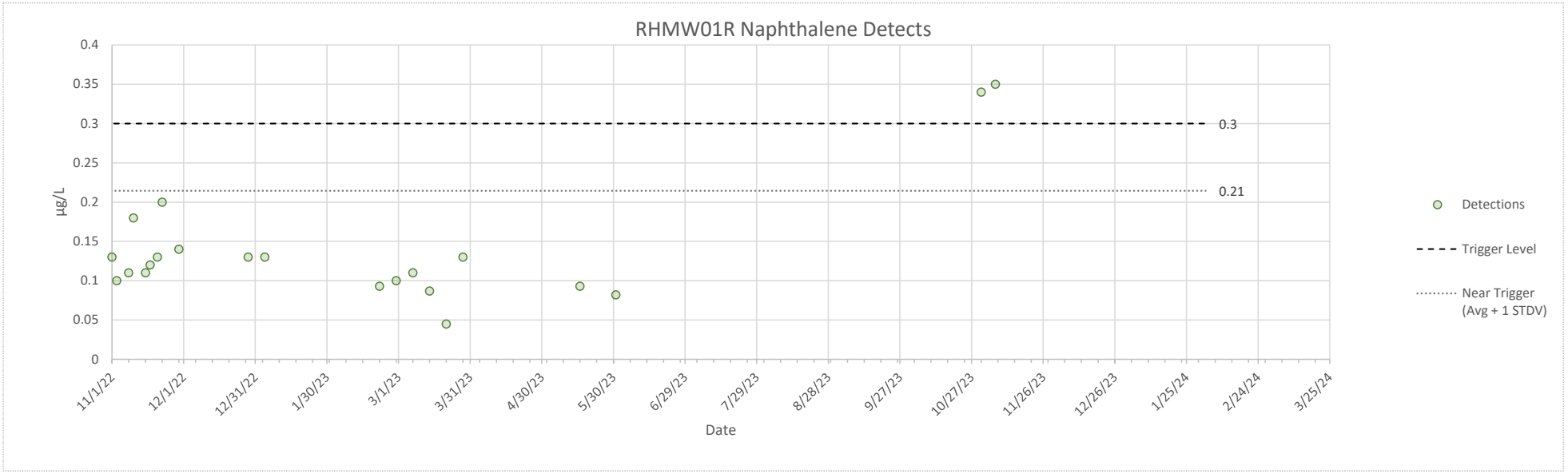
Appendix B.4.2.3 – Defueling Charts

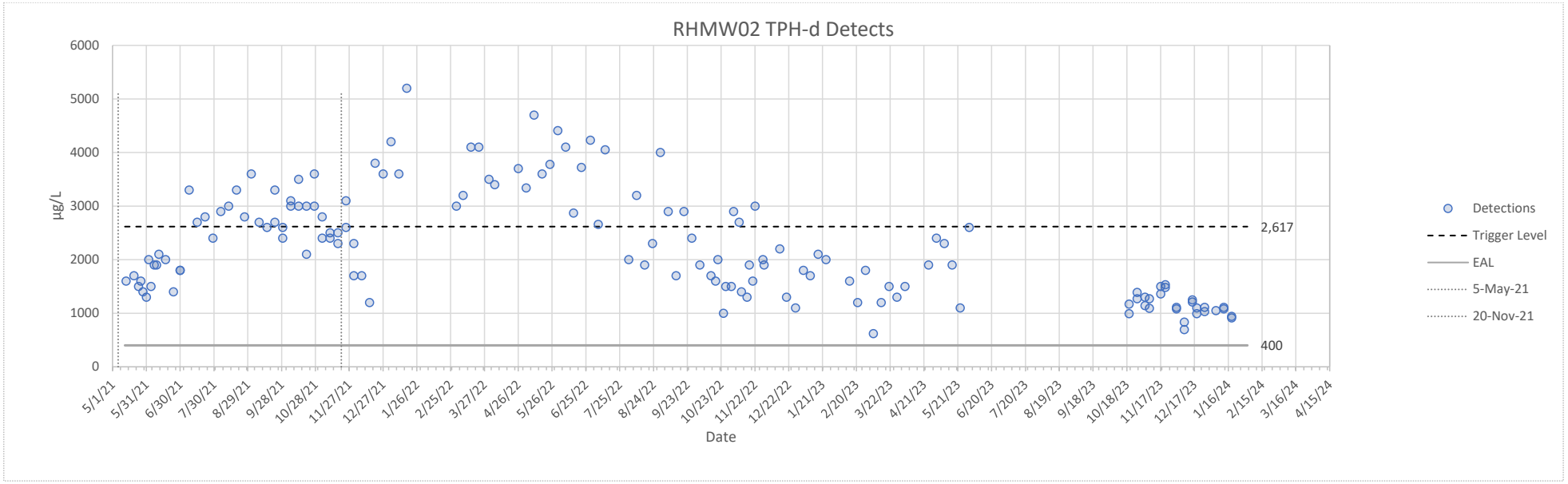

RHMW01R TPH-d Detects
µg/L
1200
1000
800
600
400
200
0
597
400
Detections
Trigger Level
EAL
5-May-21
20-Nov-21
5/1/21
5/31/21
6/30/21
7/30/21
8/29/21
9/28/21
10/28/21
11/27/21
12/27/21
1/26/22
2/25/22
3/27/22
4/26/22
5/26/22
6/25/22
7/25/22
8/24/22
9/23/22
10/23/22
11/22/22
12/22/22
1/21/23
2/20/23
3/22/23
4/21/23
5/21/23
6/20/23
7/20/23
8/19/23
9/18/23
10/18/23
11/17/23
12/17/23
1/16/24
2/15/24
3/16/24
4/15/24
Date

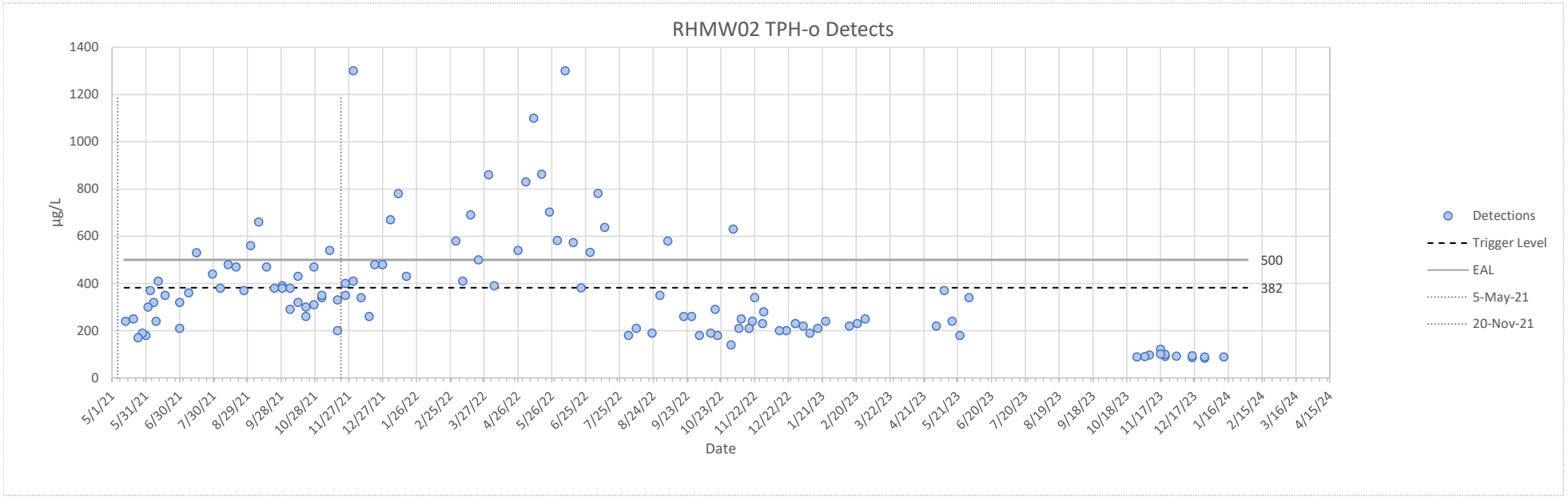

RHMW01R TPH-o Detects
µg/L
1400
1200
1000
800
600
400
200
0
500
384
Detections
Trigger Level
EAL
5-May-21
20-Nov-21
5/1/21
5/31/21
6/30/21
7/30/21
8/29/21
9/28/21
10/28/21
11/27/21
12/27/21
1/26/22
2/25/22
3/27/22
4/26/22
5/26/22
6/25/22
7/25/22
8/24/22
9/23/22
10/23/22
11/22/22
12/22/22
1/21/23
2/20/23
3/22/23
4/21/23
5/21/23
6/20/23
7/20/23
8/19/23
9/18/23
10/18/23
11/17/23
12/17/23
1/16/24
2/15/24
3/16/24
4/15/24
Date

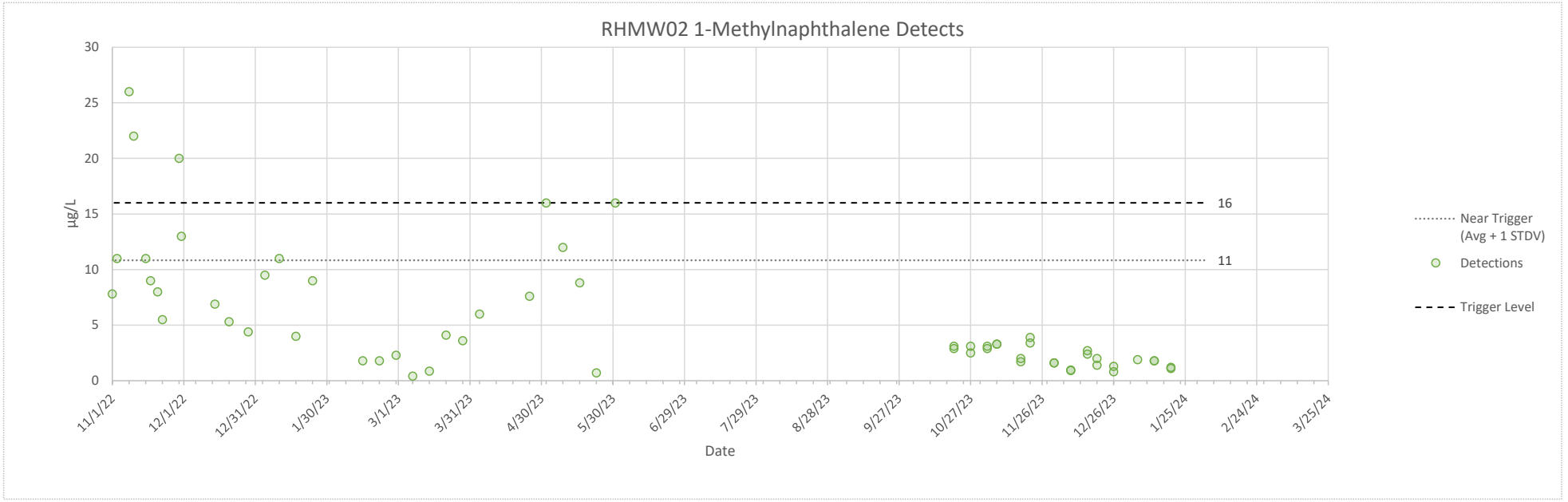

RHMW01R 1-Methylnaphthalene Detects
µg/L
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
0.7
0.41
11/1/22
12/1/22
12/31/22
1/30/23
3/1/23
3/31/23
4/30/23
5/30/23
6/29/23
7/29/23
8/28/23
9/27/23
10/27/23
11/26/23
12/26/23
1/25/24
2/24/24
3/25/24
Date
Detections
Trigger Level
Near Trigger (Avg + 1 STDV)

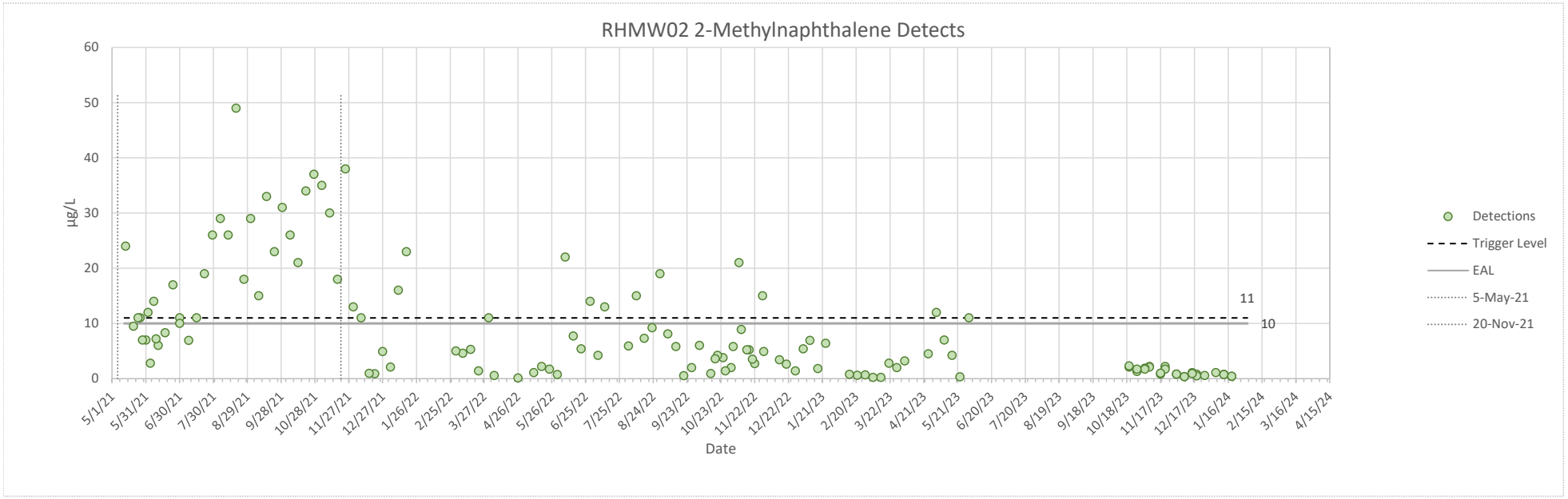

RHMW01R 2-Methylnaphthalene Detects
µg/L
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
0.3
5/1/21
5/31/21
6/30/21
7/30/21
8/29/21
9/28/21
10/28/21
11/27/21
12/27/21
1/26/22
2/25/22
3/27/22
4/26/22
5/26/22
6/25/22
7/25/22
8/24/22
9/23/22
10/23/22
11/22/22
12/22/22
1/21/23
2/20/23
3/22/23
4/21/23
5/21/23
6/20/23
7/20/23
8/19/23
9/18/23
10/18/23
11/17/23
12/17/23
1/16/24
2/15/24
3/16/24
4/15/24
Date
Detections
Trigger Level
5-May-21
20-Nov-21

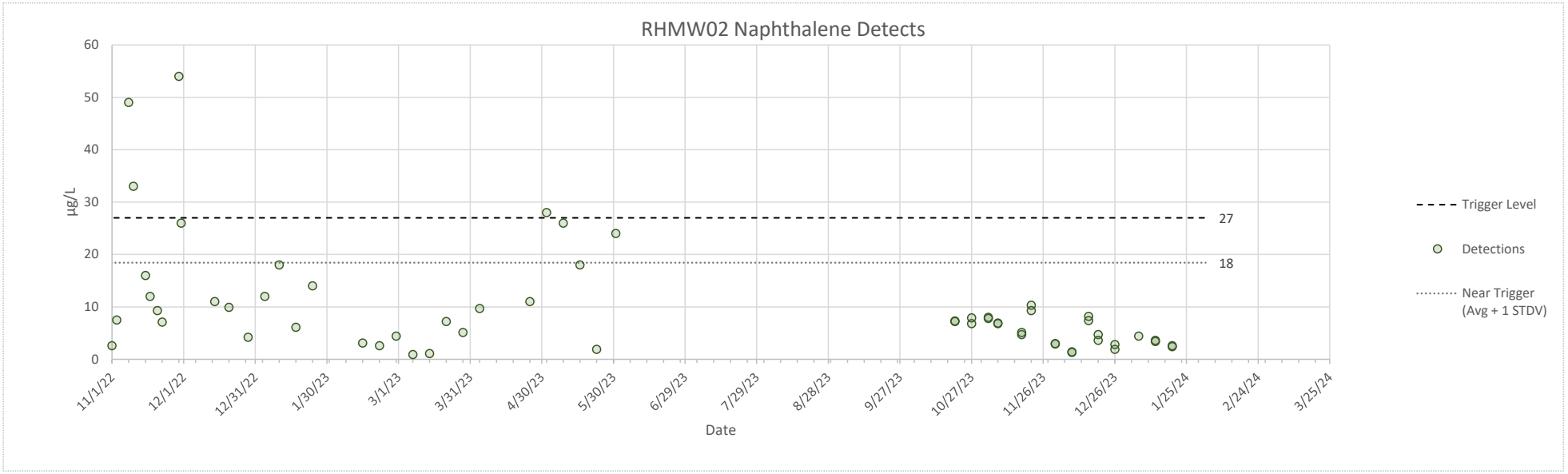

RHMW01R Naphthalene Detects
µg/L
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
0.3
0.21
11/1/22
12/1/22
12/31/22
1/30/23
3/1/23
3/31/23
4/30/23
5/30/23
6/29/23
7/29/23
8/28/23
9/27/23
10/27/23
11/26/23
12/26/23
1/25/24
2/24/24
3/25/24
Date
Detections
Trigger Level
Near Trigger
(Avg + 1 STDV)

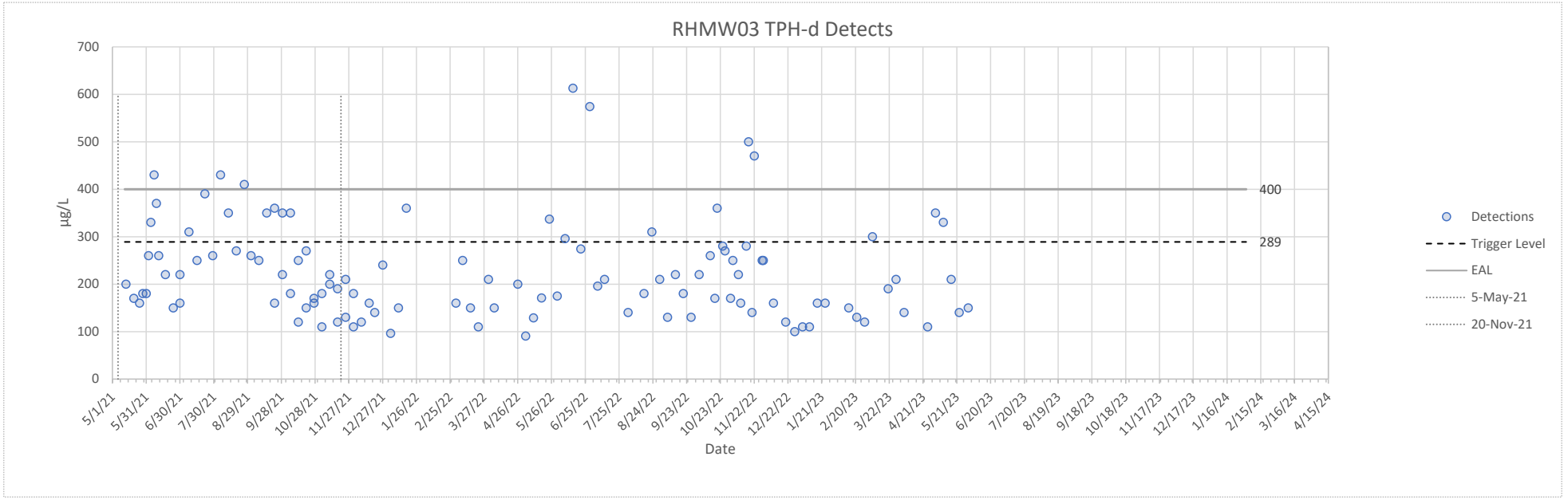

RHMW02 TPH-d Detects
µg/l
Date
2,617
400
Detections
Trigger Level
EAL
5-May-21
20-Nov-21

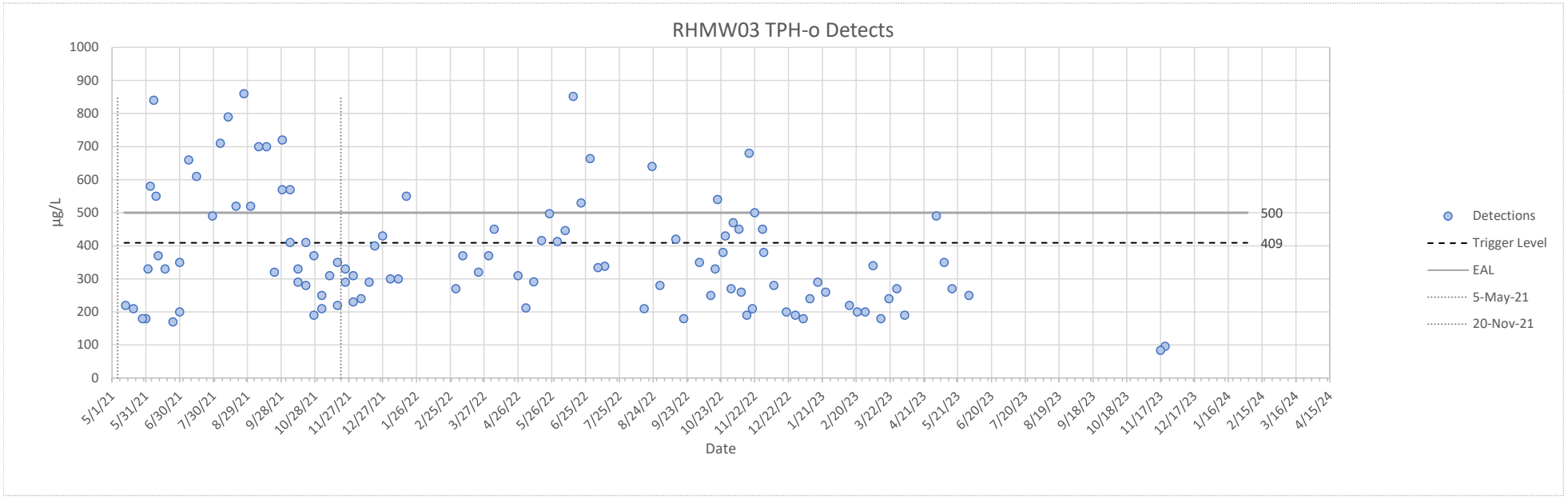

RHMW02 TPH-o Detects
µg/l
Date
500
382
Detections
Trigger Level
EAL
5-May-21
20-Nov-21

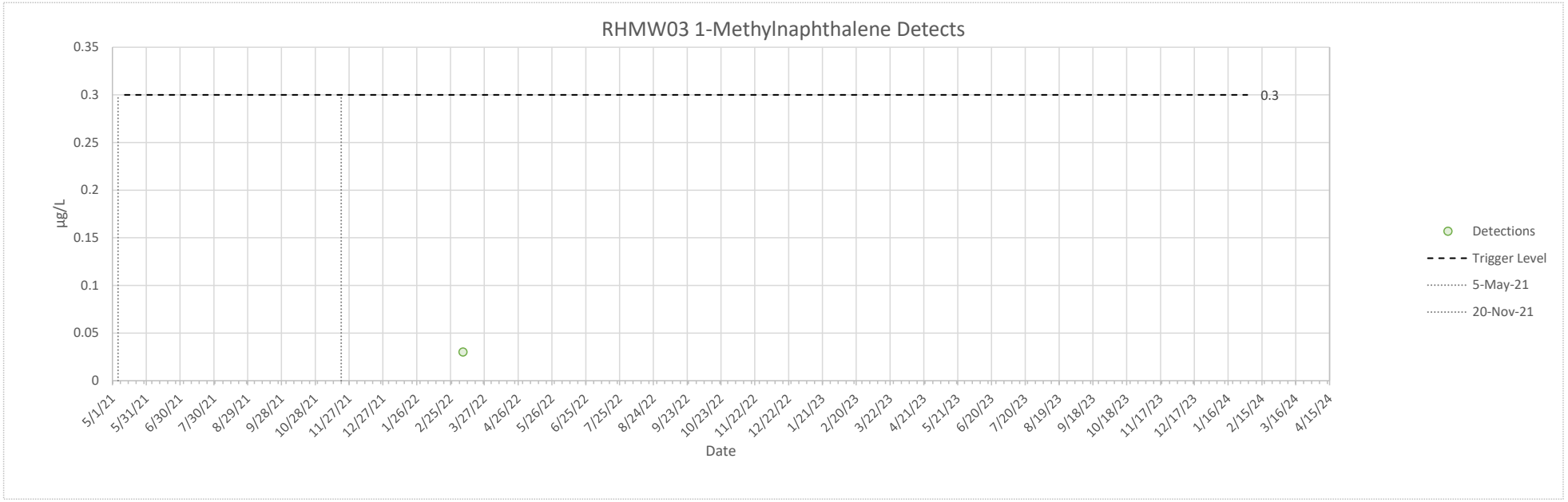

RHMW02 1-Methylnaphthalene Detects
µg/L
Date
16
11
Near Trigger (Avg + 1 STDV)
Detections
Trigger Level

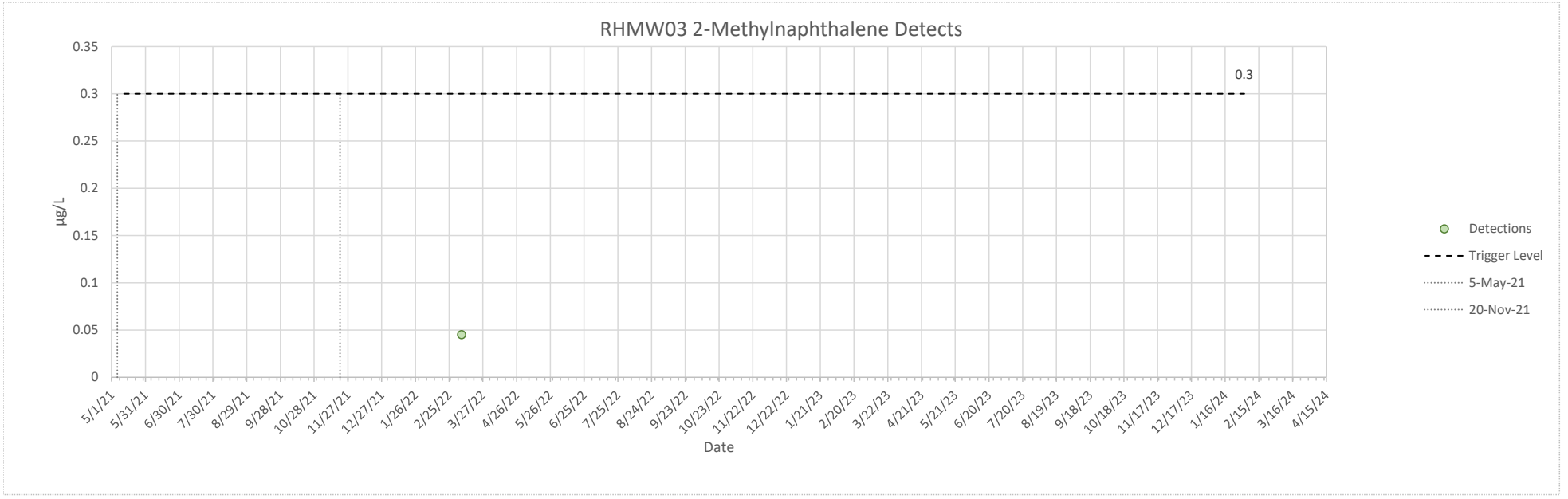

RHMW02 2-Methylnaphthalene Detects
µg/L
Date
11
10
Detections
Trigger Level
EAL
5-May-21
20-Nov-21

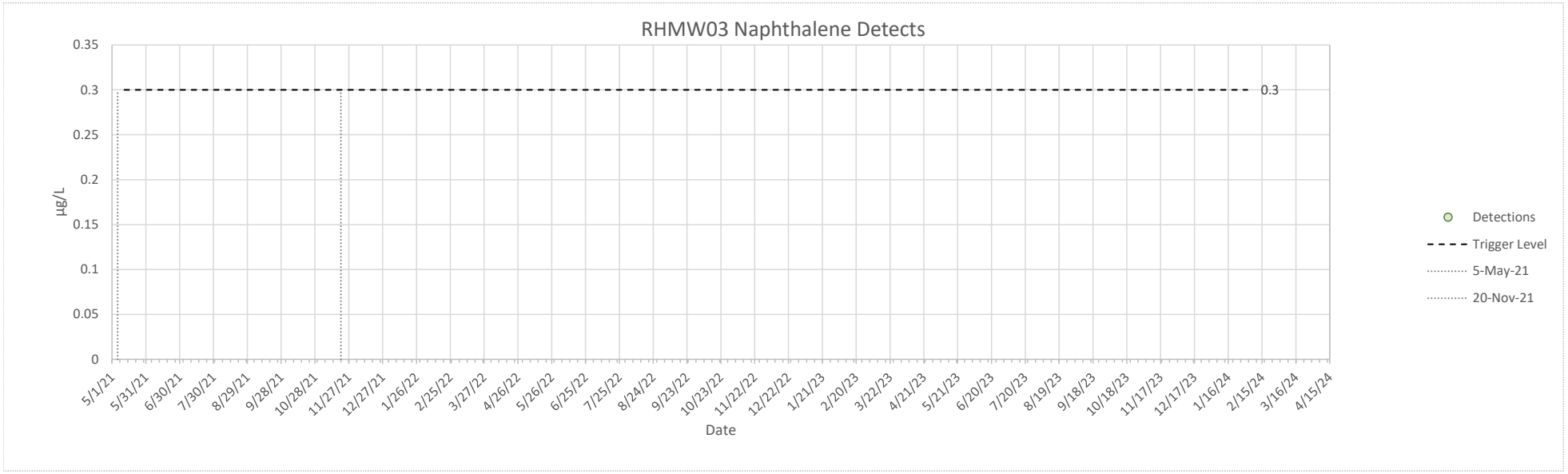

RHMW02 Naphthalene Detects
µg/L
60
50
40
30
20
10
0
27
18
11/1/22
12/1/22
12/31/22
1/30/23
3/1/23
3/31/23
4/30/23
5/30/23
6/29/23
7/29/23
8/28/23
9/27/23
10/27/23
11/26/23
12/26/23
1/25/24
2/24/24
3/25/24
Date
Trigger Level
Detections
Near Trigger
(Avg + 1 STDV)

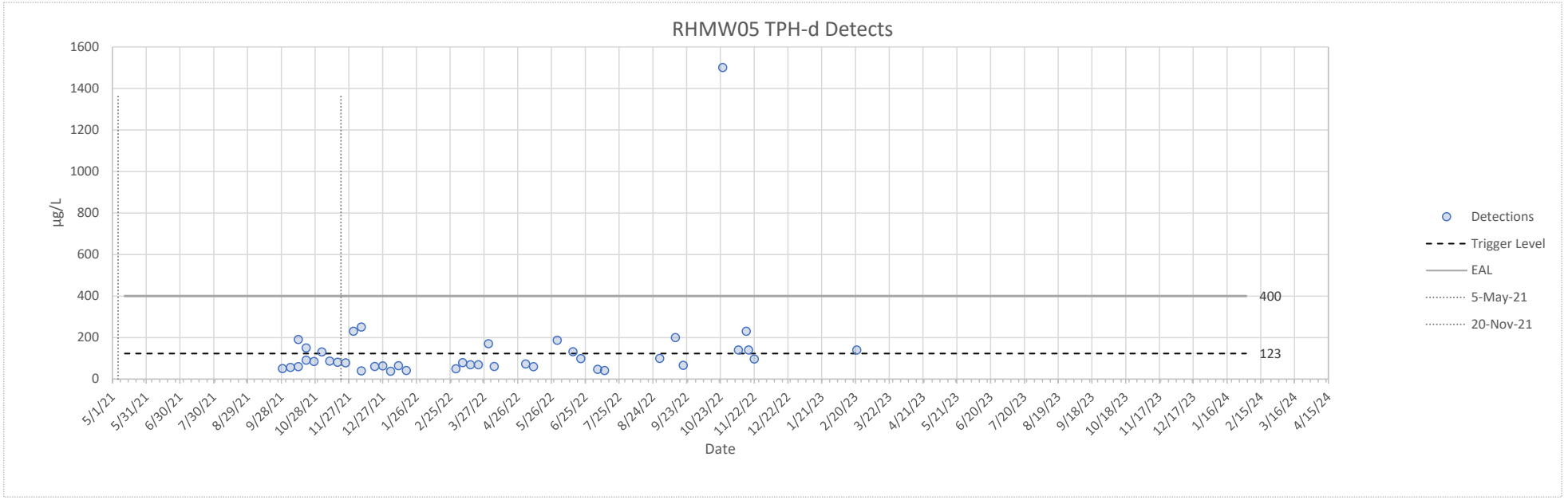

RHMW03 TPH-d Detects
µg/l
Date
400
289
Detections
Trigger Level
EAL
5-May-21
20-Nov-21

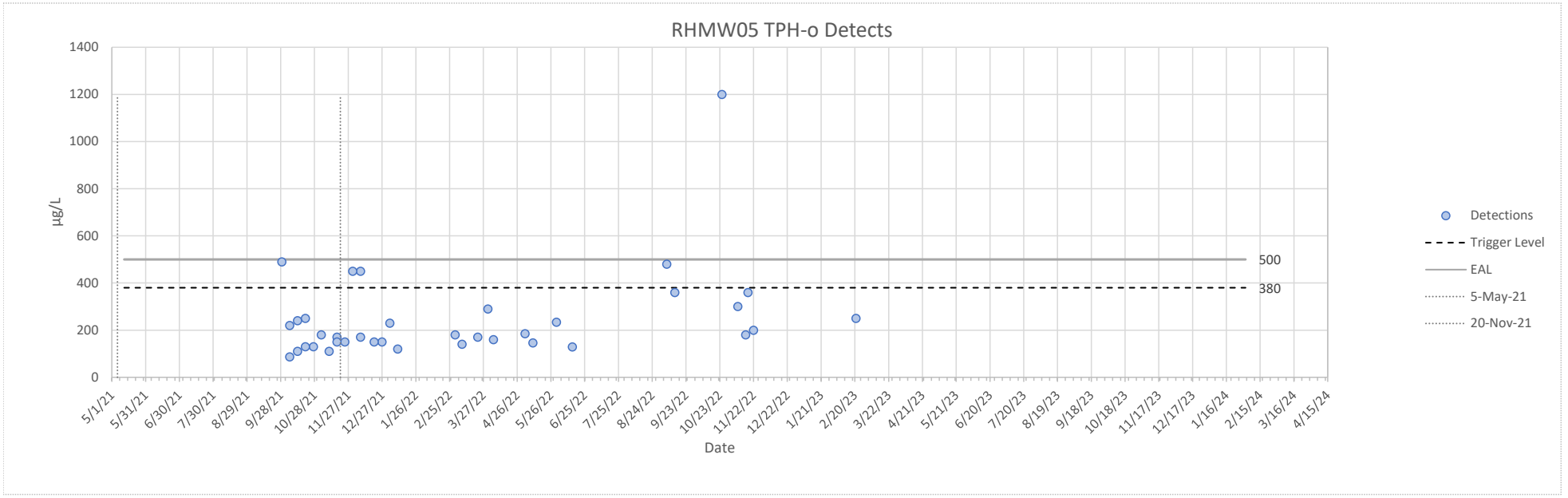

RHMW03 TPH-o Detects
µg/l
Date
500
409
Detections
Trigger Level
EAL
5-May-21
20-Nov-21

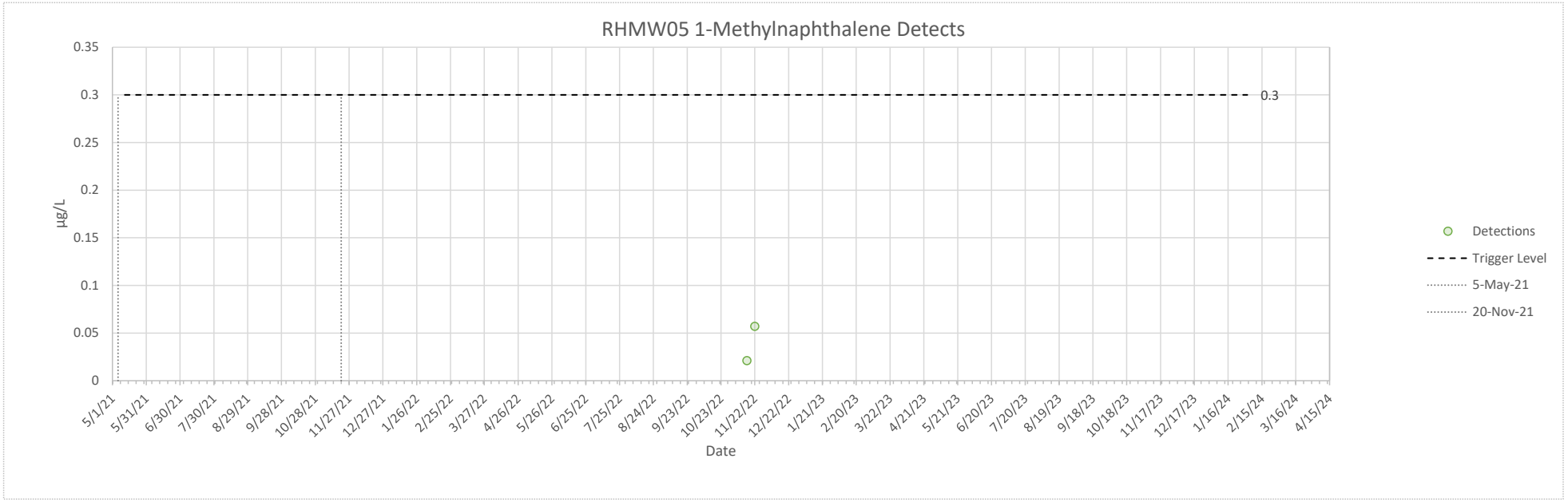

RHMW03 1-Methylnaphthalene Detects
µg/L
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
0.3
Date
5/1/21
5/31/21
6/30/21
7/30/21
8/29/21
9/28/21
10/28/21
11/27/21
12/27/21
1/26/22
2/25/22
3/27/22
4/26/22
5/26/22
6/25/22
7/25/22
8/24/22
9/23/22
10/23/22
11/22/22
12/22/22
1/21/23
2/20/23
3/22/23
4/21/23
5/21/23
6/20/23
7/20/23
8/19/23
9/18/23
10/18/23
11/17/23
12/17/23
1/16/24
2/15/24
3/16/24
4/15/24
Detections
Trigger Level
5-May-21
20-Nov-21

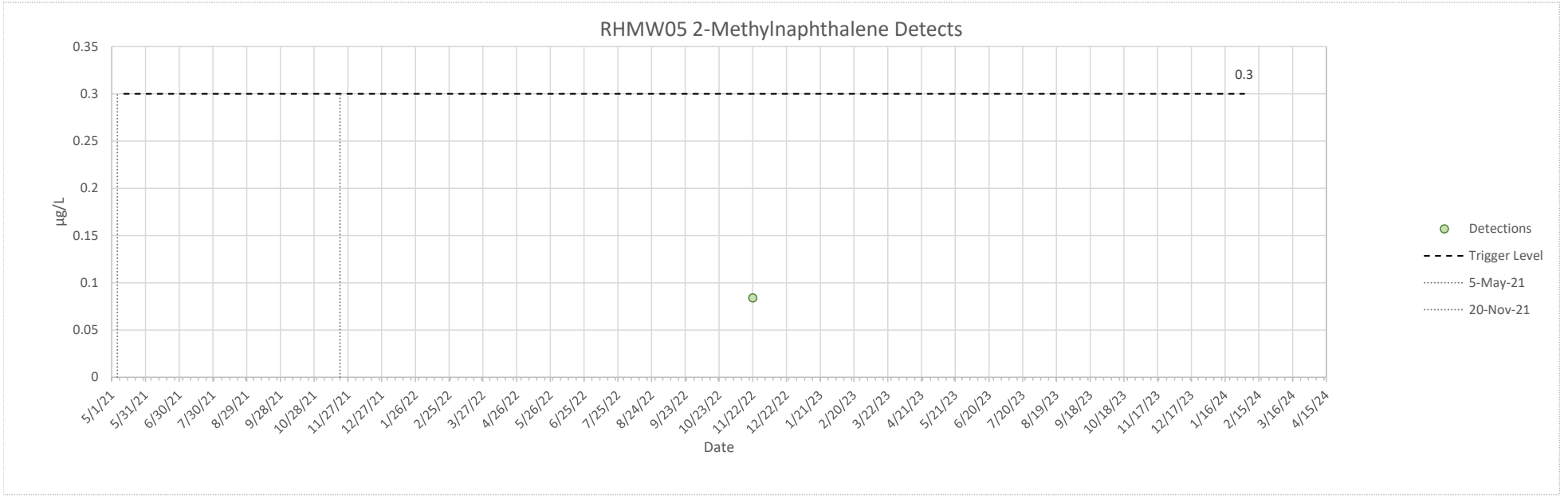

RHMW03 2-Methylnaphthalene Detects
µg/L
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
0.3
Date
5/1/21
5/31/21
6/30/21
7/30/21
8/29/21
9/28/21
10/28/21
11/27/21
12/27/21
1/26/22
2/25/22
3/27/22
4/26/22
5/26/22
6/25/22
7/25/22
8/24/22
9/23/22
10/23/22
11/22/22
12/22/22
1/21/23
2/20/23
3/22/23
4/21/23
5/21/23
6/20/23
7/20/23
8/19/23
9/18/23
10/18/23
11/17/23
12/17/23
1/16/24
2/15/24
3/16/24
4/15/24
Detections
Trigger Level
5-May-21
20-Nov-21

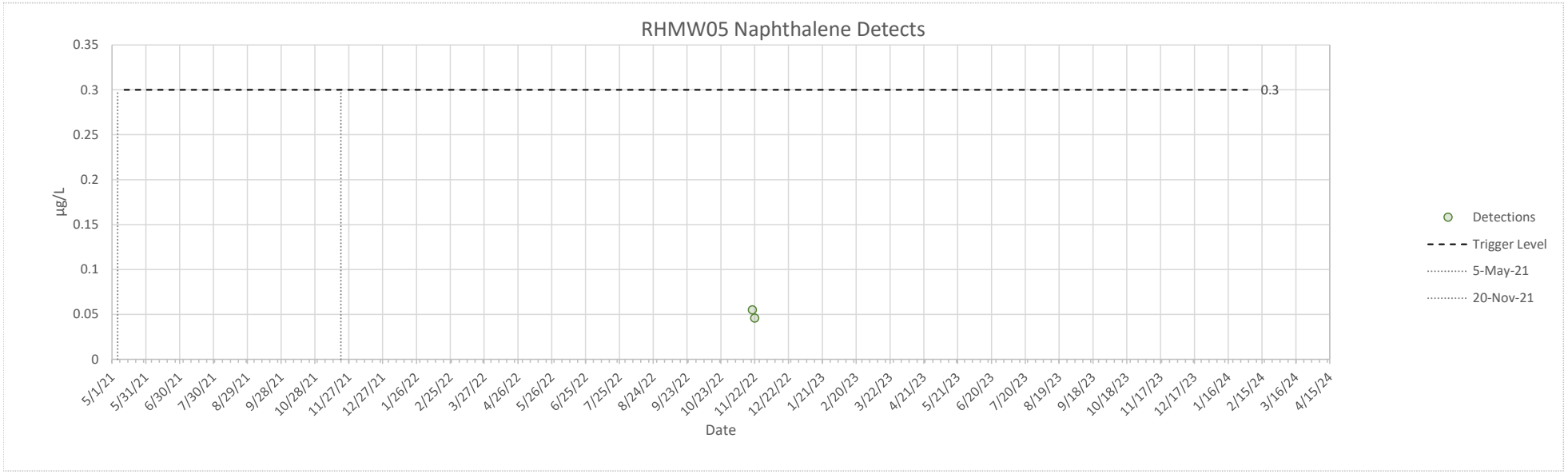

RHMW03 Naphthalene Detects
µg/L
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
0.3
5/1/21
5/31/21
6/30/21
7/30/21
8/29/21
9/28/21
10/28/21
11/27/21
12/27/21
1/26/22
2/25/22
3/27/22
4/26/22
5/26/22
6/25/22
7/25/22
8/24/22
9/23/22
10/23/22
11/22/22
12/22/22
1/21/23
2/20/23
3/22/23
4/21/23
5/21/23
6/20/23
7/20/23
8/19/23
9/18/23
10/18/23
11/17/23
12/17/23
1/16/24
2/15/24
3/16/24
4/15/24
Date
Detections
Trigger Level
5-May-21
20-Nov-21

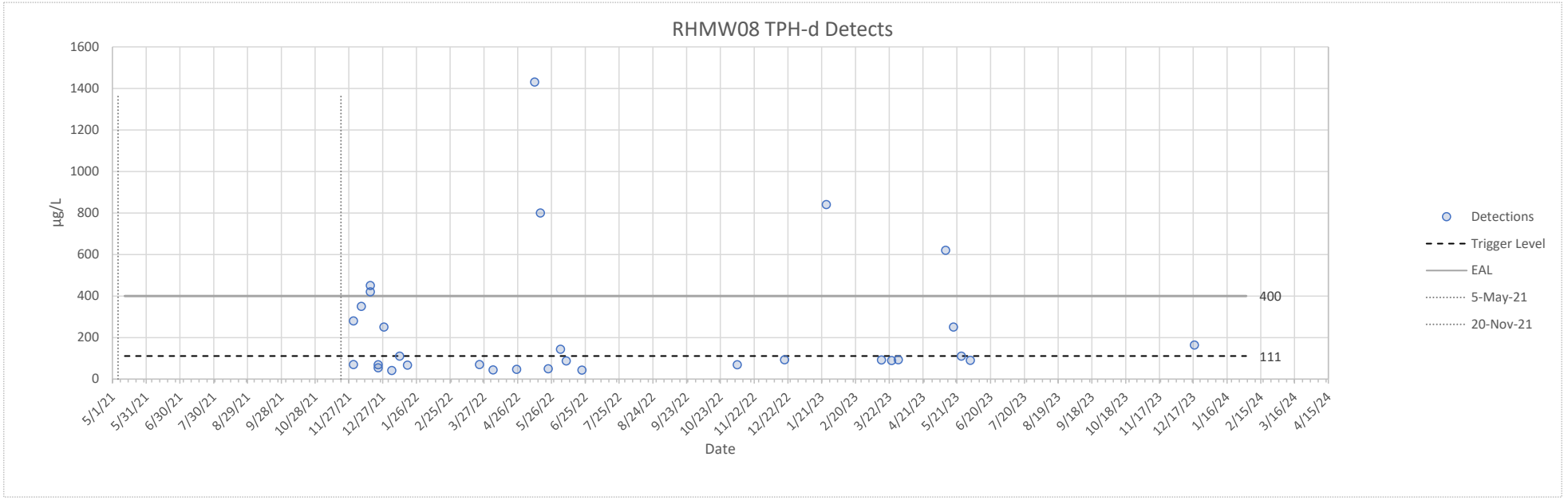

RHMW05 TPH-d Detects
µg/L
Date
400
123
Detections
Trigger Level
EAL
5-May-21
20-Nov-21

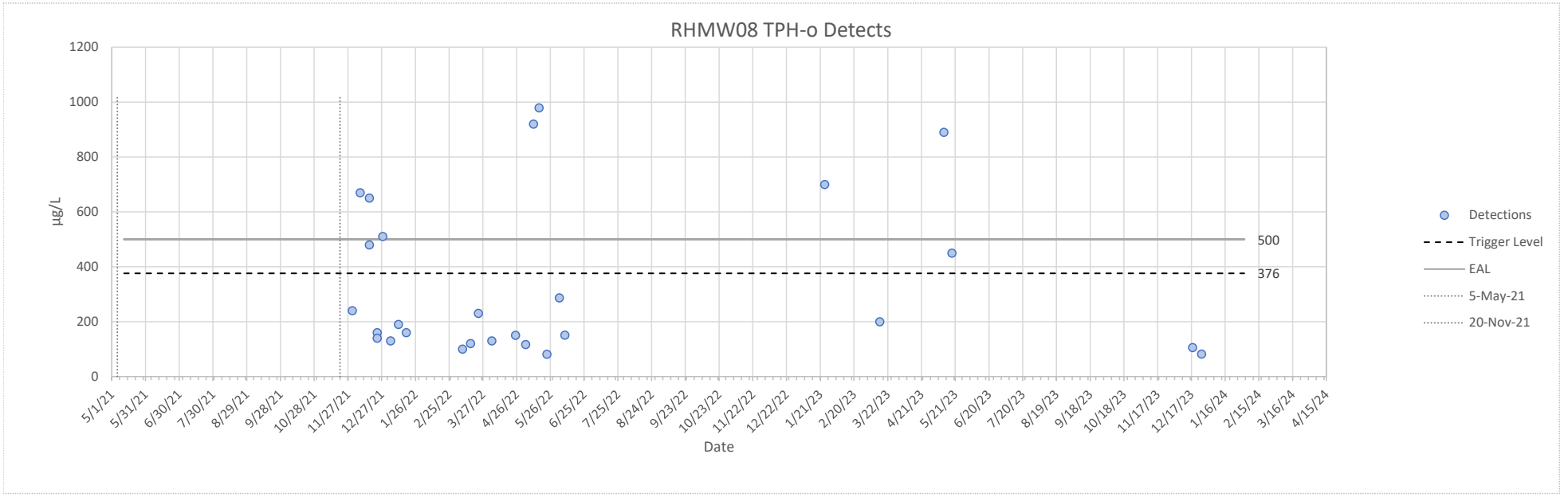

RHMW05 TPH-o Detects
µg/L
Date
500
380
Detections
Trigger Level
EAL
5-May-21
20-Nov-21


RHMW05 1-Methylnaphthalene Detects
µg/L
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
0.3
Date
5/1/21
5/31/21
6/30/21
7/30/21
8/29/21
9/28/21
10/28/21
11/27/21
12/27/21
1/26/22
2/25/22
3/27/22
4/26/22
5/26/22
6/25/22
7/25/22
8/24/22
9/23/22
10/23/22
11/22/22
12/22/22
1/21/23
2/20/23
3/22/23
4/21/23
5/21/23
6/20/23
7/20/23
8/19/23
9/18/23
10/18/23
11/17/23
12/17/23
1/16/24
2/15/24
3/16/24
4/15/24
Detections
Trigger Level
5-May-21
20-Nov-21

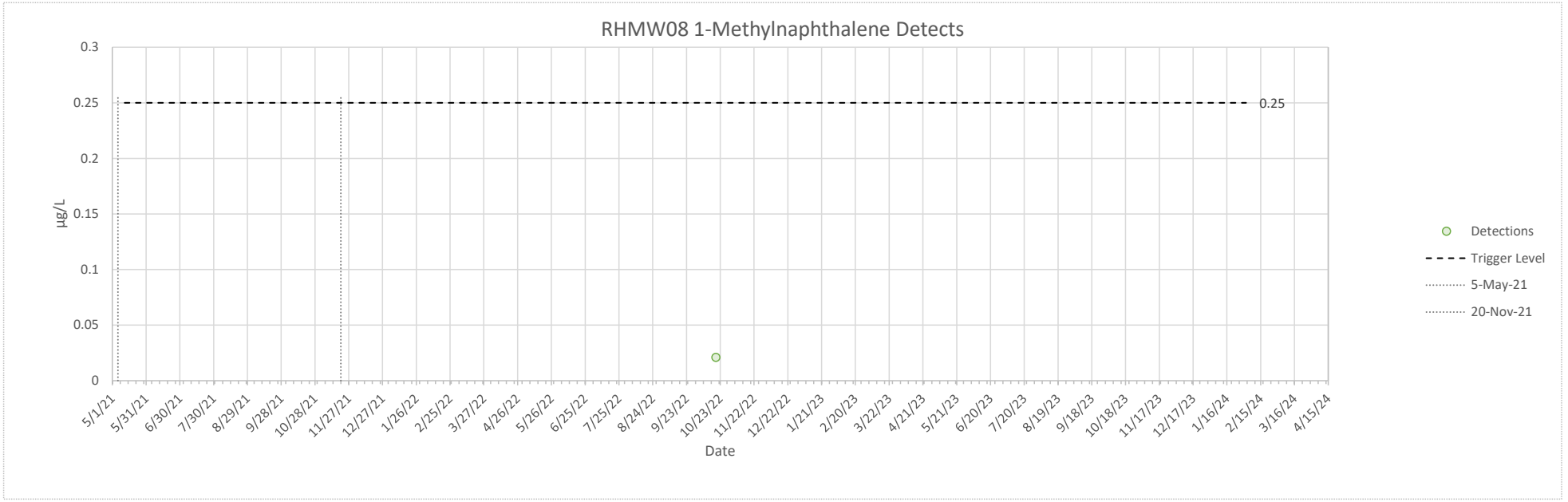

RHMW05 2-Methylnaphthalene Detects
µg/L
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
0.3
Date
5/1/21
5/31/21
6/30/21
7/30/21
8/29/21
9/28/21
10/28/21
11/27/21
12/27/21
1/26/22
2/25/22
3/27/22
4/26/22
5/26/22
6/25/22
7/25/22
8/24/22
9/23/22
10/23/22
11/22/22
12/22/22
1/21/23
2/20/23
3/22/23
4/21/23
5/21/23
6/20/23
7/20/23
8/19/23
9/18/23
10/18/23
11/17/23
12/17/23
1/16/24
2/15/24
3/16/24
4/15/24
Detections
Trigger Level
5-May-21
20-Nov-21

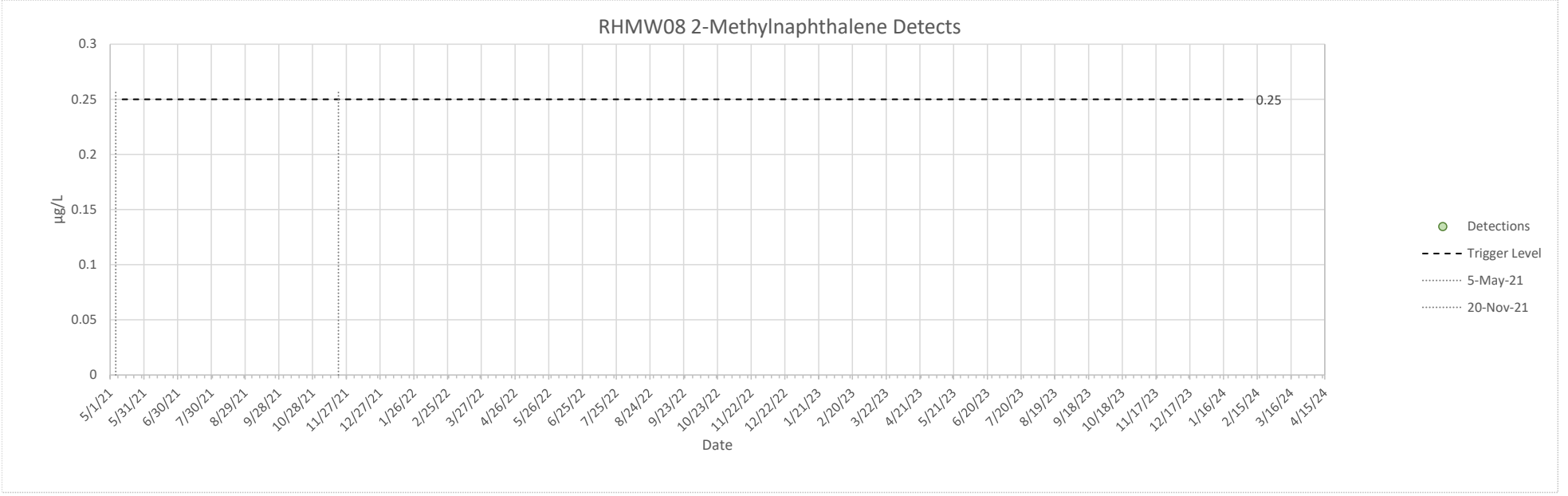

RHMW05 Naphthalene Detects
µg/L
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
0.3
5/1/21
5/31/21
6/30/21
7/30/21
8/29/21
9/28/21
10/28/21
11/27/21
12/27/21
1/26/22
2/25/22
3/27/22
4/26/22
5/26/22
6/25/22
7/25/22
8/24/22
9/23/22
10/23/22
11/22/22
12/22/22
1/21/23
2/20/23
3/22/23
4/21/23
5/21/23
6/20/23
7/20/23
8/19/23
9/18/23
10/18/23
11/17/23
12/17/23
1/16/24
2/15/24
3/16/24
4/15/24
Date
Detections
Trigger Level
5-May-21
20-Nov-21

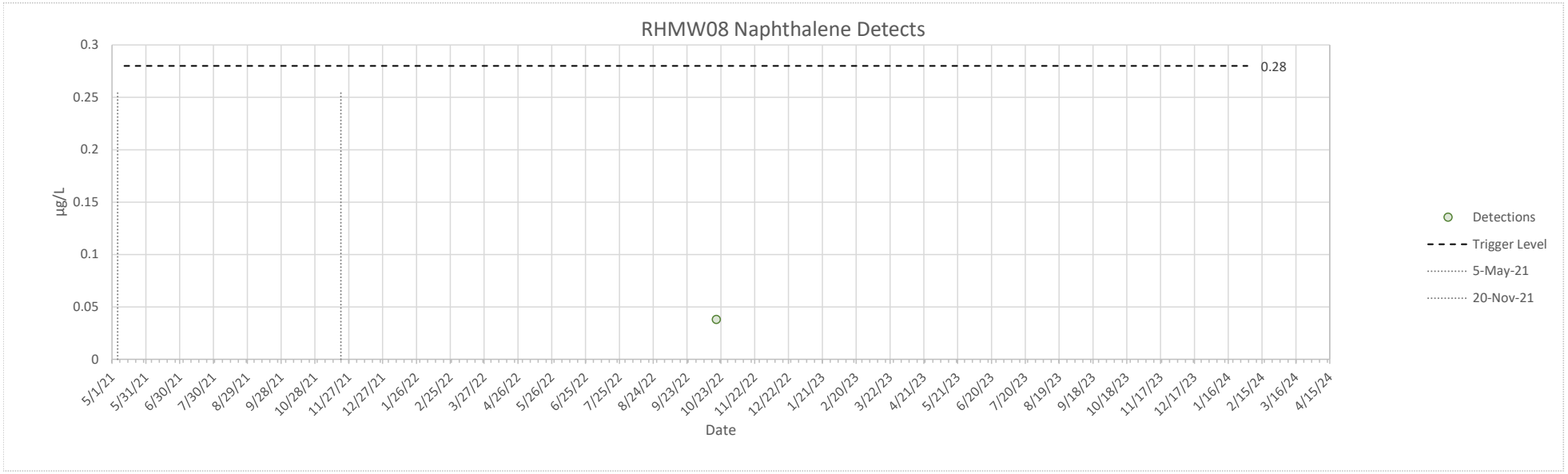


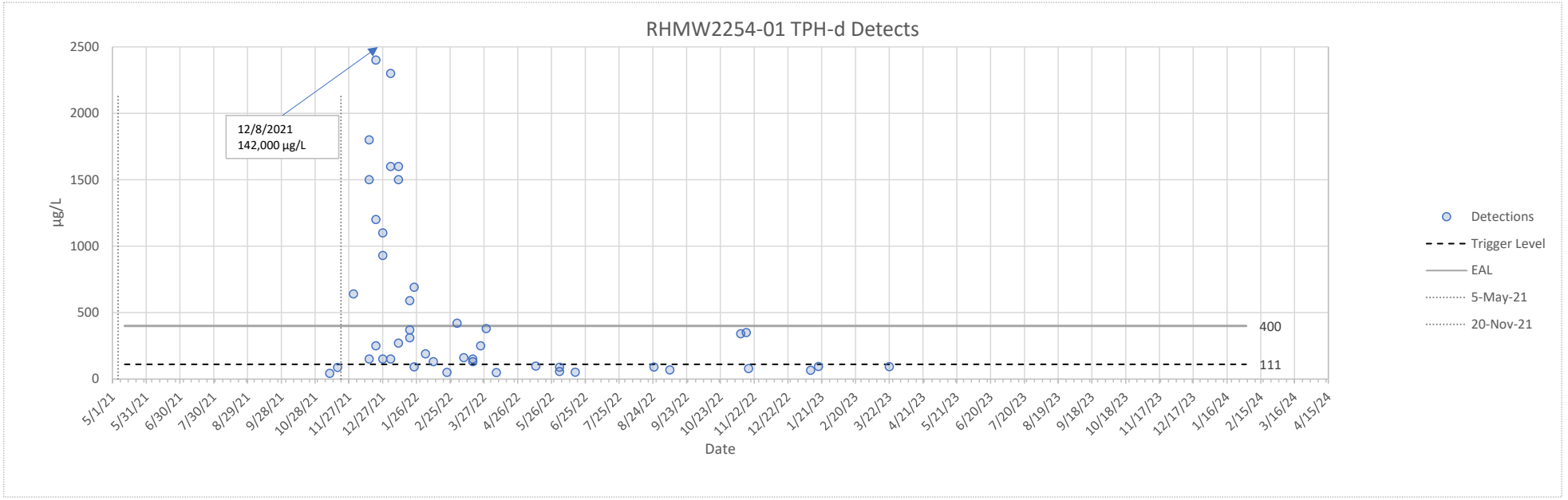


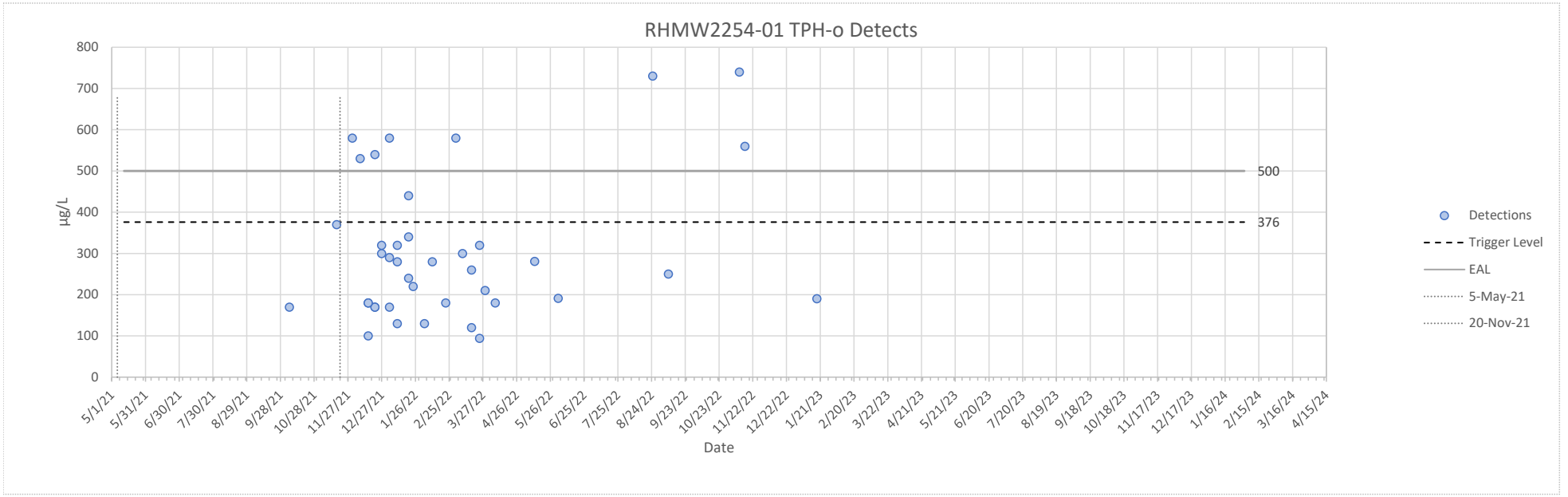
Appendix B.4.2.3 – Groundwater Dections Charts of NOI Defueling COPCs

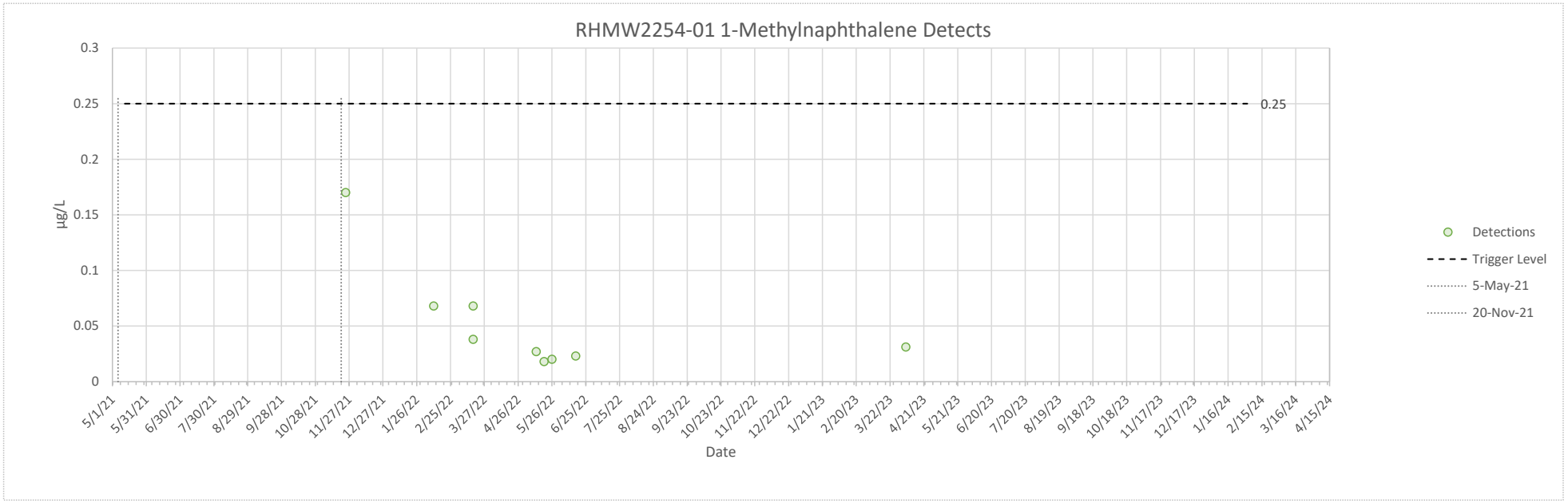

RHMW08 1-Methylnaphthalene Detects
µg/L
0.3
0.25
0.2
0.15
0.1
0.05
0
0.25
5/1/21
5/31/21
6/30/21
7/30/21
8/29/21
9/28/21
10/28/21
11/27/21
12/27/21
1/26/22
2/25/22
3/27/22
4/26/22
5/26/22
6/25/22
7/25/22
8/24/22
9/23/22
10/23/22
11/22/22
12/22/22
1/21/23
2/20/23
3/22/23
4/21/23
5/21/23
6/20/23
7/20/23
8/19/23
9/18/23
10/18/23
11/17/23
12/17/23
1/16/24
2/15/24
3/16/24
4/15/24
Date
Detections
Trigger Level
5-May-21
20-Nov-21

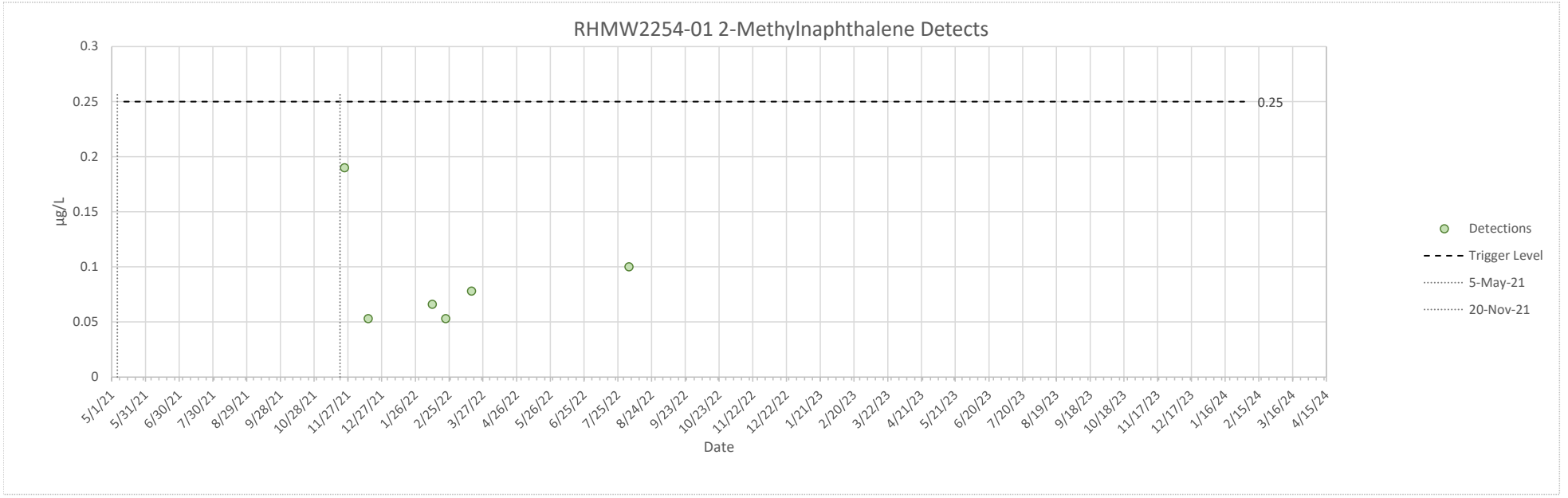

RHMW08 2-Methylnaphthalene Detects
µg/L
0.3
0.25
0.2
0.15
0.1
0.05
0
0.25
5/1/21
5/31/21
6/30/21
7/30/21
8/29/21
9/28/21
10/28/21
11/27/21
12/27/21
1/26/22
2/25/22
3/27/22
4/26/22
5/26/22
6/25/22
7/25/22
8/24/22
9/23/22
10/23/22
11/22/22
12/22/22
1/21/23
2/20/23
3/22/23
4/21/23
5/21/23
6/20/23
7/20/23
8/19/23
9/18/23
10/18/23
11/17/23
12/17/23
1/16/24
2/15/24
3/16/24
4/15/24
Date
Detections
Trigger Level
5-May-21
20-Nov-21

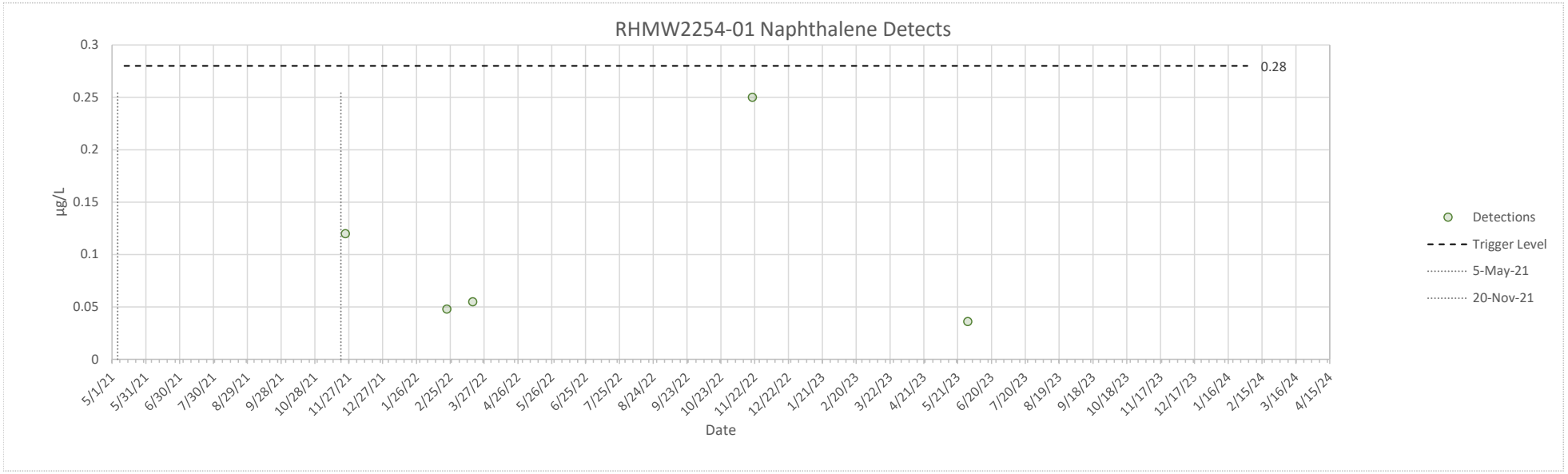

RHMW08 Naphthalene Detects
0.3
0.25
0.2
0.15
0.1
0.05
0
µg/L
0.28
5/1/21
5/31/21
6/30/21
7/30/21
8/29/21
9/28/21
10/28/21
11/27/21
12/27/21
1/26/22
2/25/22
3/27/22
4/26/22
5/26/22
6/25/22
7/25/22
8/24/22
9/23/22
10/23/22
11/22/22
12/22/22
1/21/23
2/20/23
3/22/23
4/21/23
5/21/23
6/20/23
7/20/23
8/19/23
9/18/23
10/18/23
11/17/23
12/17/23
1/16/24
2/15/24
3/16/24
4/15/24
Date
Detections
Trigger Level
5-May-21
20-Nov-21

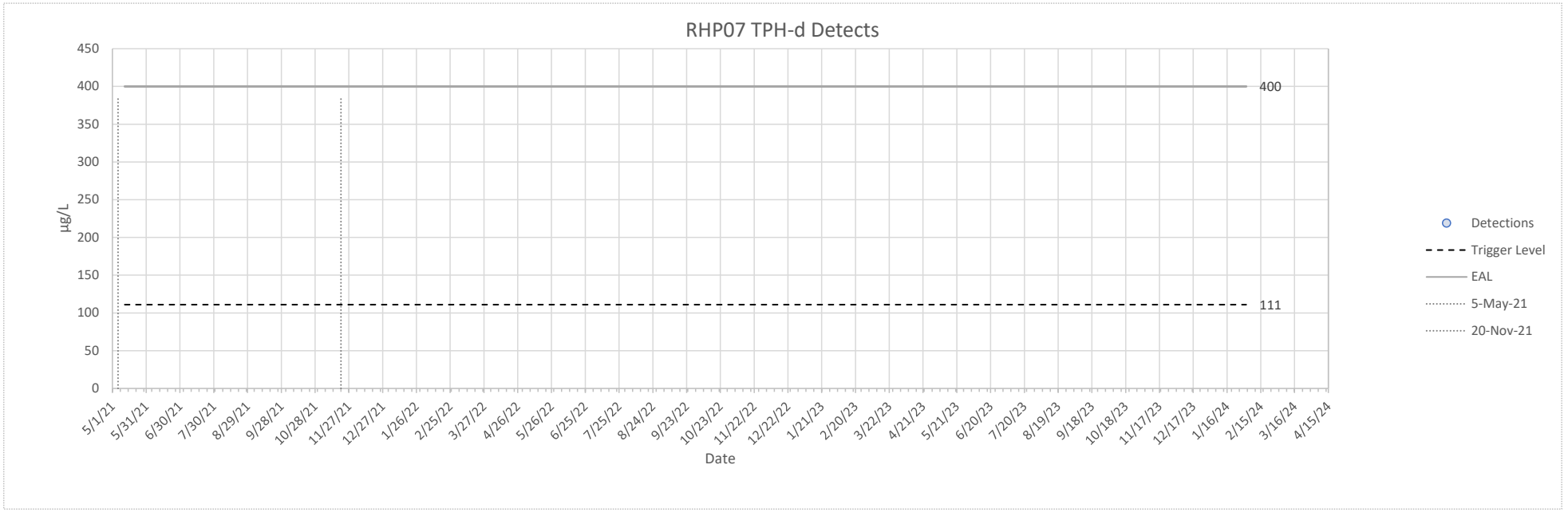

RHMW2254-01 TPH-d Detects
µg/L
Date
12/8/2021
142,000 µg/L
400
111
Detections
Trigger Level
EAL
5-May-21
20-Nov-21

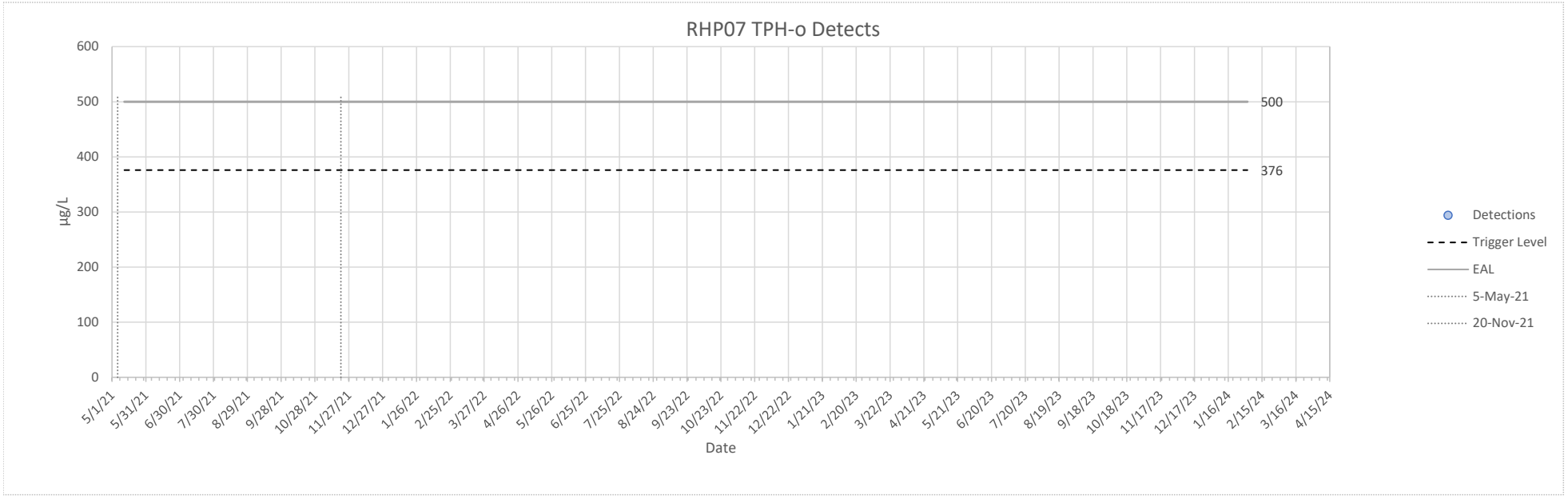

RHMW2254-01 TPH-o Detects
µg/L
Date
500
376
Detections
Trigger Level
EAL
5-May-21
20-Nov-21

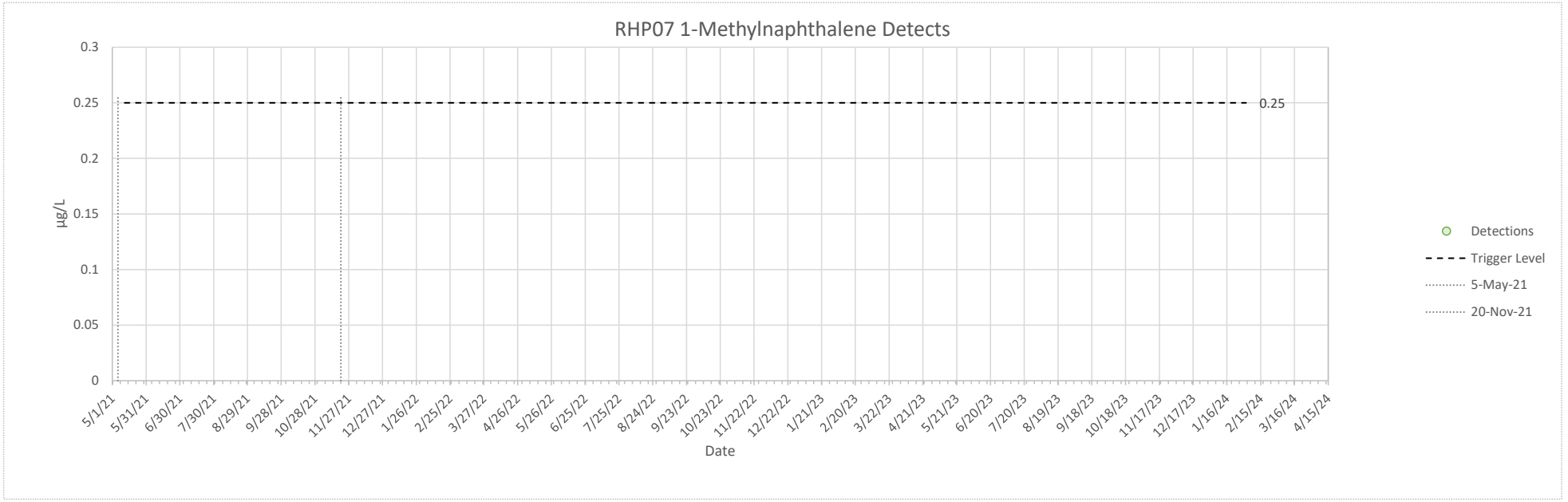

RHMW2254-01 1-Methylnaphthalene Detects
µg/L
0.3
0.25
0.2
0.15
0.1
0.05
0
0.25
Date
5/1/21
5/31/21
6/30/21
7/30/21
8/29/21
9/28/21
10/28/21
11/27/21
12/27/21
1/26/22
2/25/22
3/27/22
4/26/22
5/26/22
6/25/22
7/25/22
8/24/22
9/23/22
10/23/22
11/22/22
12/22/22
1/21/23
2/20/23
3/22/23
4/21/23
5/21/23
6/20/23
7/20/23
8/19/23
9/18/23
10/18/23
11/17/23
12/17/23
1/16/24
2/15/24
3/16/24
4/15/24
Detections
Trigger Level
5-May-21
20-Nov-21

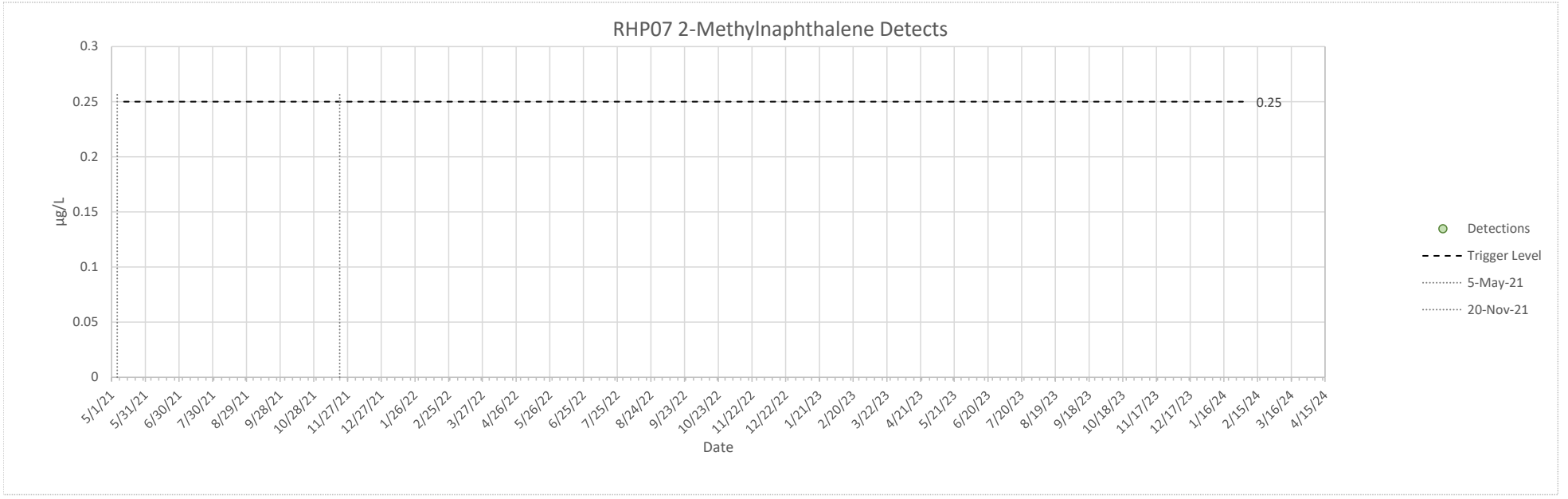

RHMW2254-01 2-Methylnaphthalene Detects
µg/L
0.3
0.25
0.2
0.15
0.1
0.05
0
0.25
Date
5/1/21
5/31/21
6/30/21
7/30/21
8/29/21
9/28/21
10/28/21
11/27/21
12/27/21
1/26/22
2/25/22
3/27/22
4/26/22
5/26/22
6/25/22
7/25/22
8/24/22
9/23/22
10/23/22
11/22/22
12/22/22
1/21/23
2/20/23
3/22/23
4/21/23
5/21/23
6/20/23
7/20/23
8/19/23
9/18/23
10/18/23
11/17/23
12/17/23
1/16/24
2/15/24
3/16/24
4/15/24
Detections
Trigger Level
5-May-21
20-Nov-21

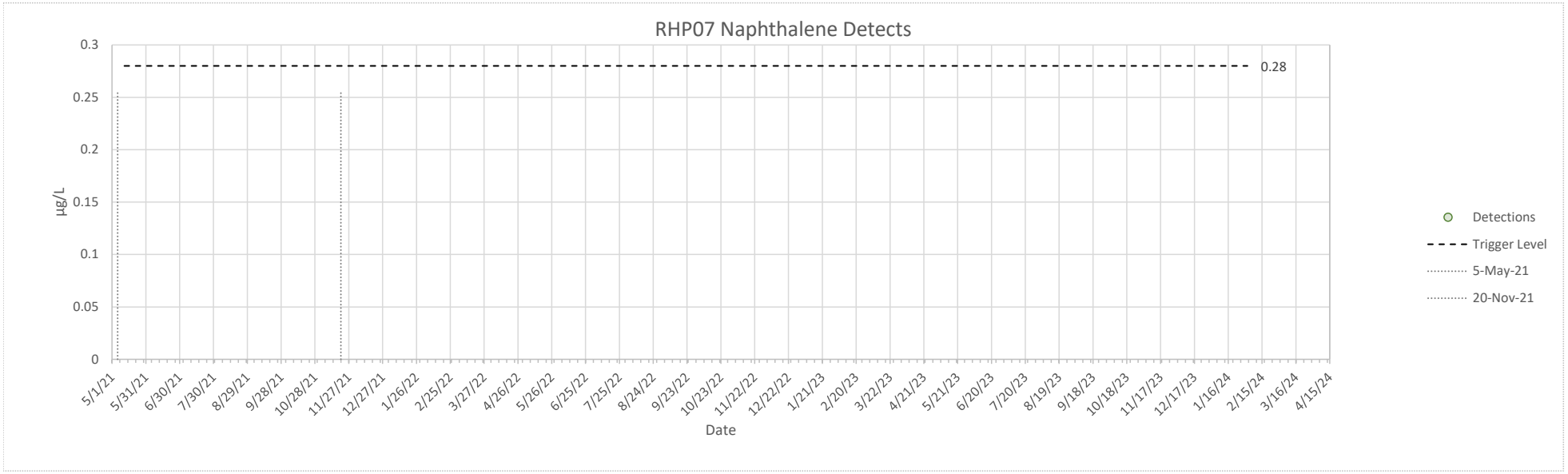

RHMW2254-01 Naphthalene Detects
0.3
0.25
0.2
0.15
0.1
0.05
0
µg/L
0.28
5/1/21
5/31/21
6/30/21
7/30/21
8/29/21
9/28/21
10/28/21
11/27/21
12/27/21
1/26/22
2/25/22
3/27/22
4/26/22
5/26/22
6/25/22
7/25/22
8/24/22
9/23/22
10/23/22
11/22/22
12/22/22
1/21/23
2/20/23
3/22/23
4/21/23
5/21/23
6/20/23
7/20/23
8/19/23
9/18/23
10/18/23
11/17/23
12/17/23
1/16/24
2/15/24
3/16/24
4/15/24
Date
Detections
Trigger Level
5-May-21
20-Nov-21

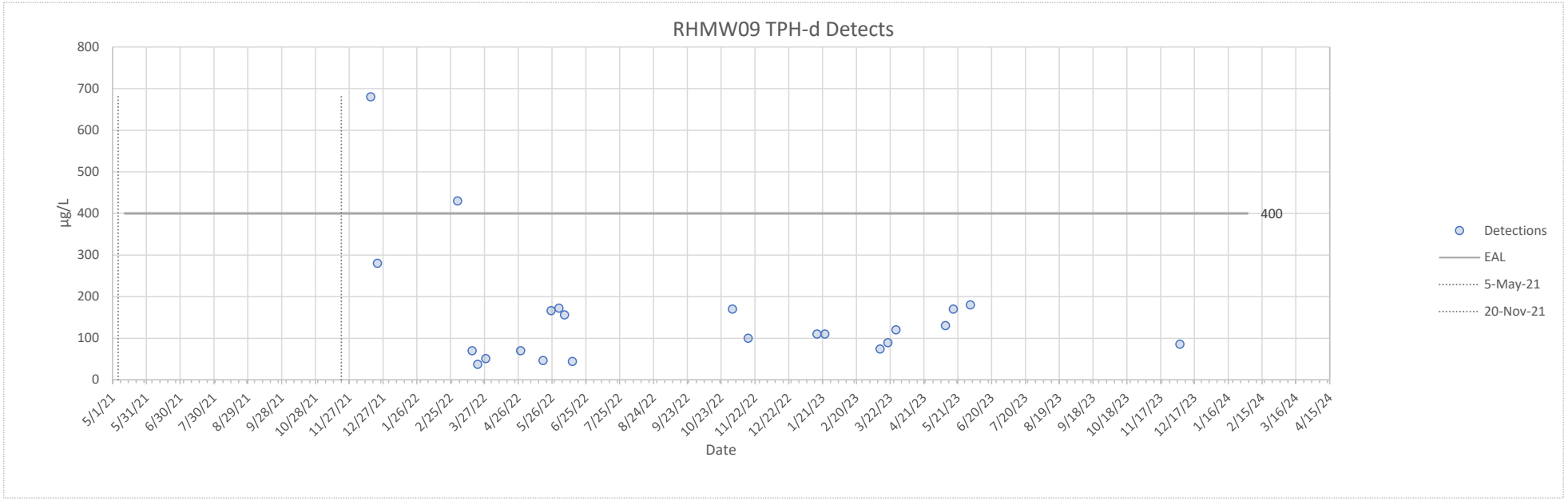

RHP07 TPH-d Detects
µg/L
Date
400
111
Detections
Trigger Level
EAL
5-May-21
20-Nov-21


RHP07 TPH-o Detects
µg/L
Date
500
376
Detections
Trigger Level
EAL
5-May-21
20-Nov-21


RHP07 1-Methylnaphthalene Detects
0.3
0.25
0.2
0.15
0.1
0.05
0
µg/L
0.25
5/1/21
5/31/21
6/30/21
7/30/21
8/29/21
9/28/21
10/28/21
11/27/21
12/27/21
1/26/22
2/25/22
3/27/22
4/26/22
5/26/22
6/25/22
7/25/22
8/24/22
9/23/22
10/23/22
11/22/22
12/22/22
1/21/23
2/20/23
3/22/23
4/21/23
5/21/23
6/20/23
7/20/23
8/19/23
9/18/23
10/18/23
11/17/23
12/17/23
1/16/24
2/15/24
3/16/24
4/15/24
Date
Detections
Trigger Level
5-May-21
20-Nov-21


RHP07 2-Methylnaphthalene Detects
0.3
0.25
0.2
0.15
0.1
0.05
0
µg/L
0.25
5/1/21
5/31/21
6/30/21
7/30/21
8/29/21
9/28/21
10/28/21
11/27/21
12/27/21
1/26/22
2/25/22
3/27/22
4/26/22
5/26/22
6/25/22
7/25/22
8/24/22
9/23/22
10/23/22
11/22/22
12/22/22
1/21/23
2/20/23
3/22/23
4/21/23
5/21/23
6/20/23
7/20/23
8/19/23
9/18/23
10/18/23
11/17/23
12/17/23
1/16/24
2/15/24
3/16/24
4/15/24
Date
Detections
Trigger Level
5-May-21
20-Nov-21


RHP07 Naphthalene Detects
µg/L
0.3
0.25
0.2
0.15
0.1
0.05
0
0.28
5/1/21
5/31/21
6/30/21
7/30/21
8/29/21
9/28/21
10/28/21
11/27/21
12/27/21
1/26/22
2/25/22
3/27/22
4/26/22
5/26/22
6/25/22
7/25/22
8/24/22
9/23/22
10/23/22
11/22/22
12/22/22
1/21/23
2/20/23
3/22/23
4/21/23
5/21/23
6/20/23
7/20/23
8/19/23
9/18/23
10/18/23
11/17/23
12/17/23
1/16/24
2/15/24
3/16/24
4/15/24
Date
Detections
Trigger Level
5-May-21
20-Nov-21


RHMW09 TPH-d Detects
µg/l
800
700
600
500
400
300
200
100
0
400
5/1/21
5/31/21
6/30/21
7/30/21
8/29/21
9/28/21
10/28/21
11/27/21
12/27/21
1/26/22
2/25/22
3/27/22
4/26/22
5/26/22
6/25/22
7/25/22
8/24/22
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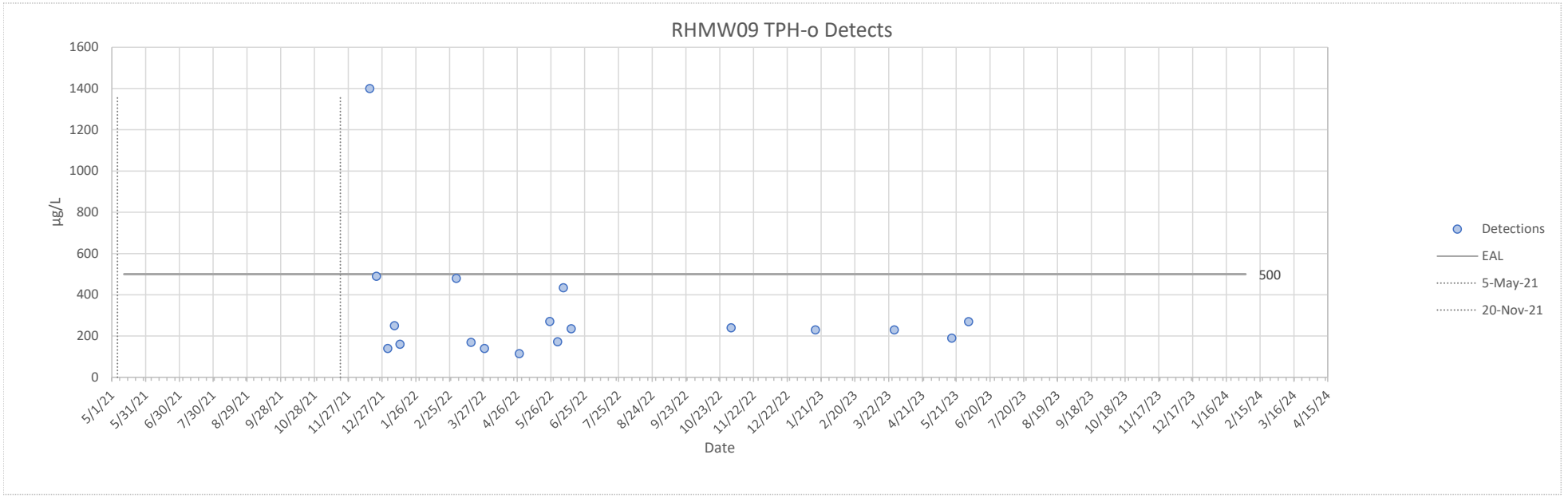
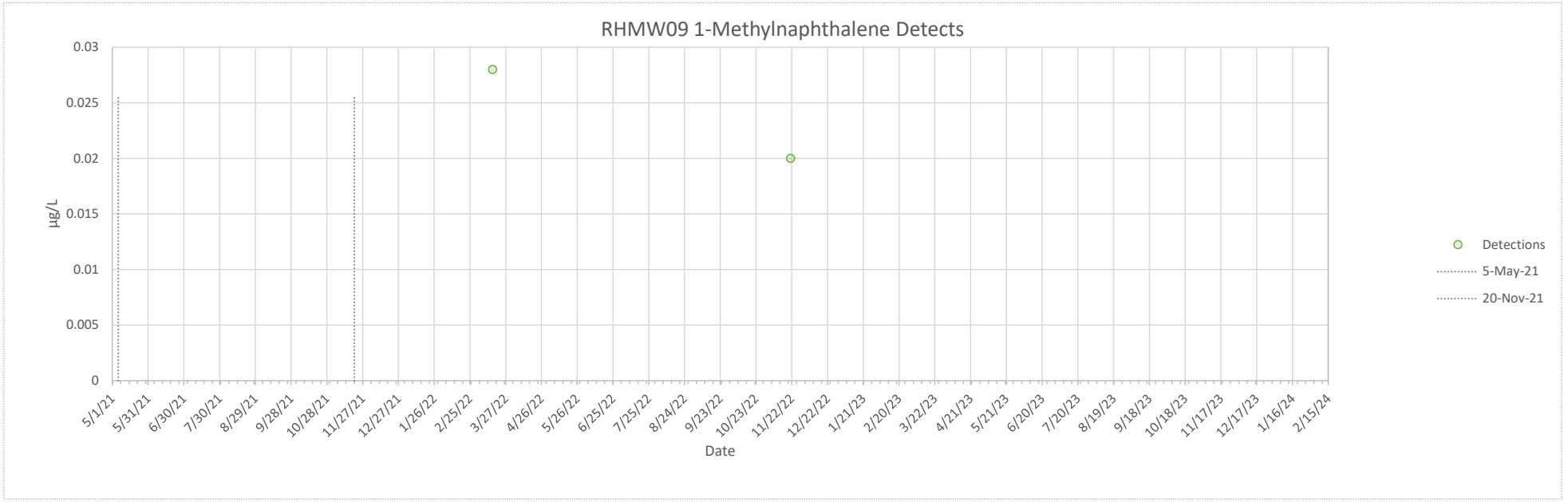
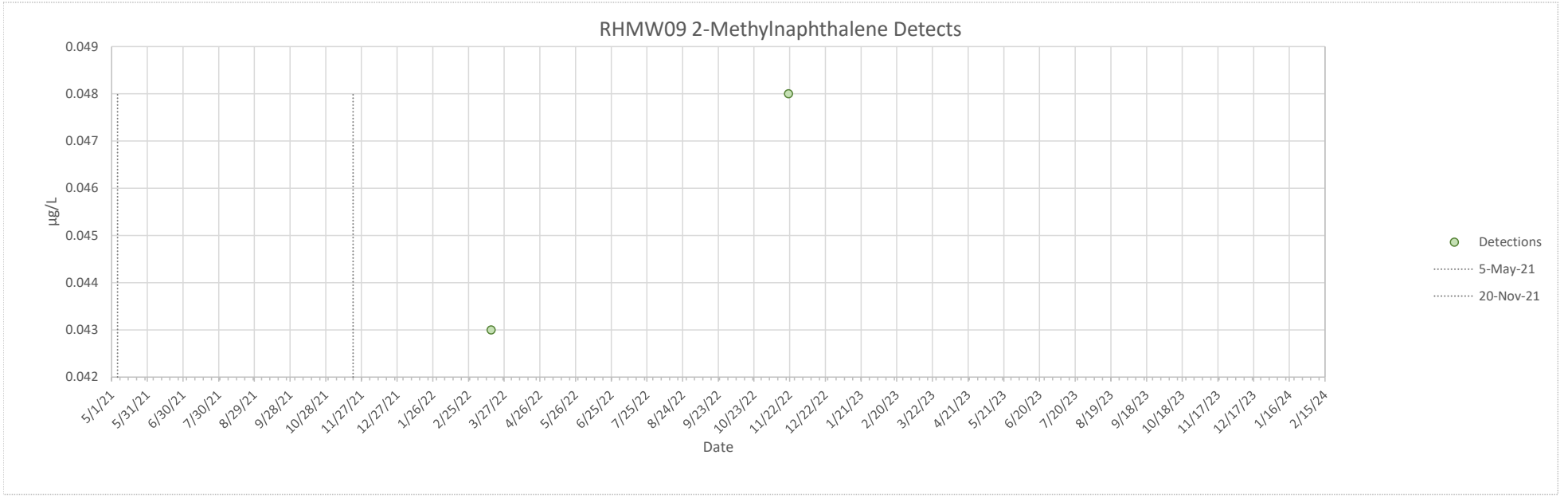
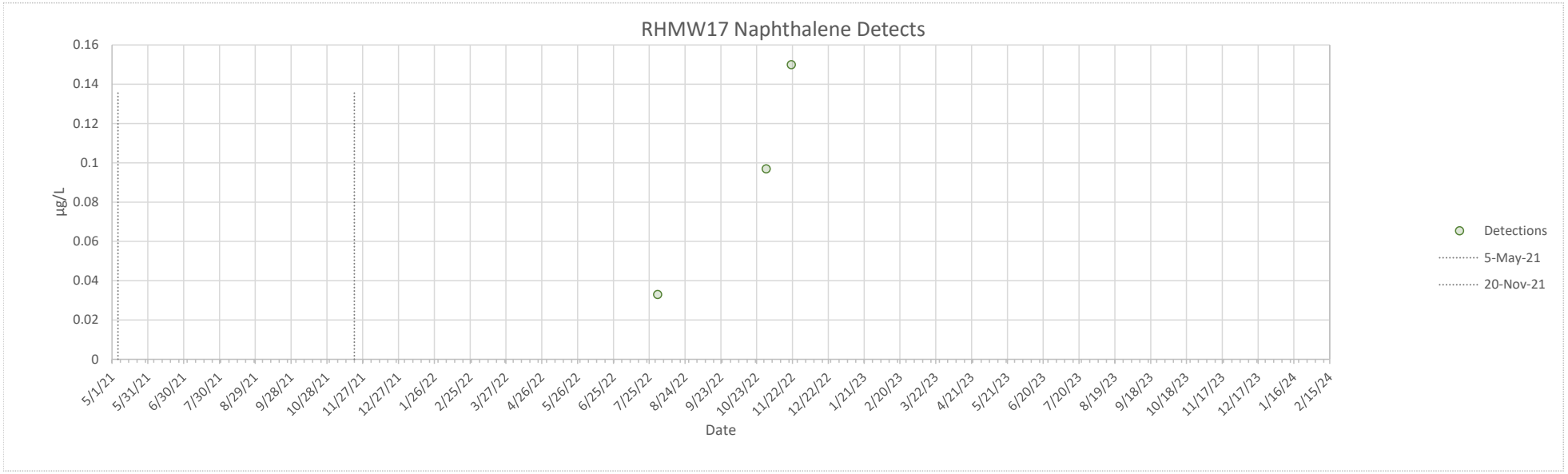
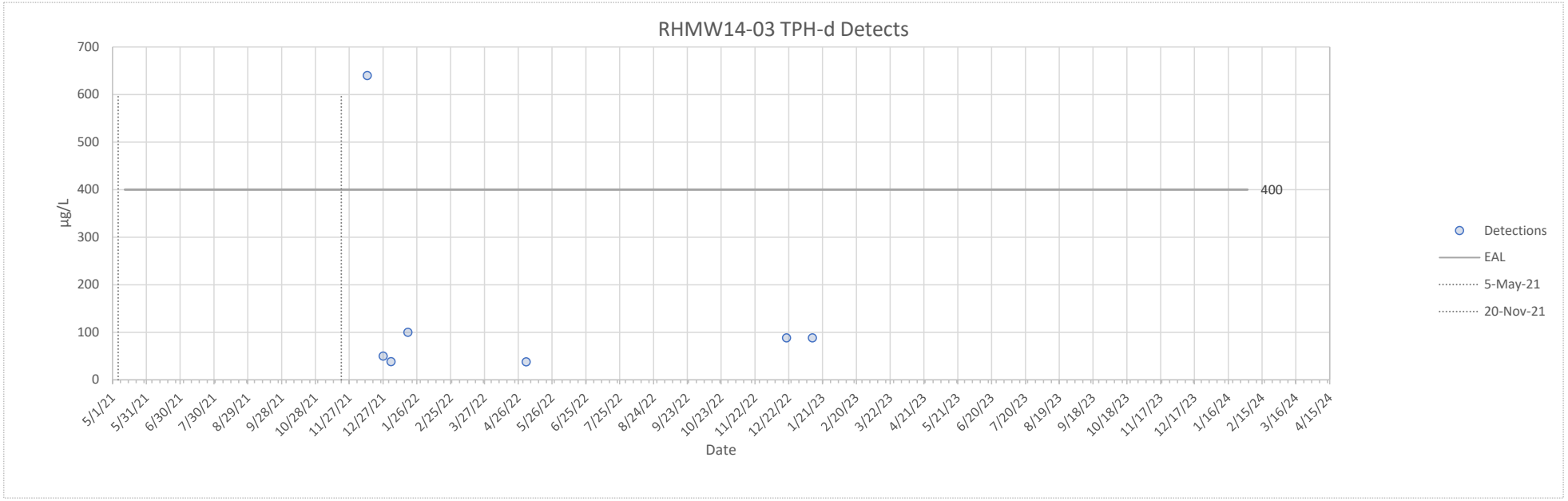
5/21/23
6/20/23
7/20/23
8/19/23
9/18/23
10/18/23
11/17/23
12/17/23
1/16/24
2/15/24
3/16/24
4/15/24
Date
Detections
EAL
5-May-21
20-Nov-21

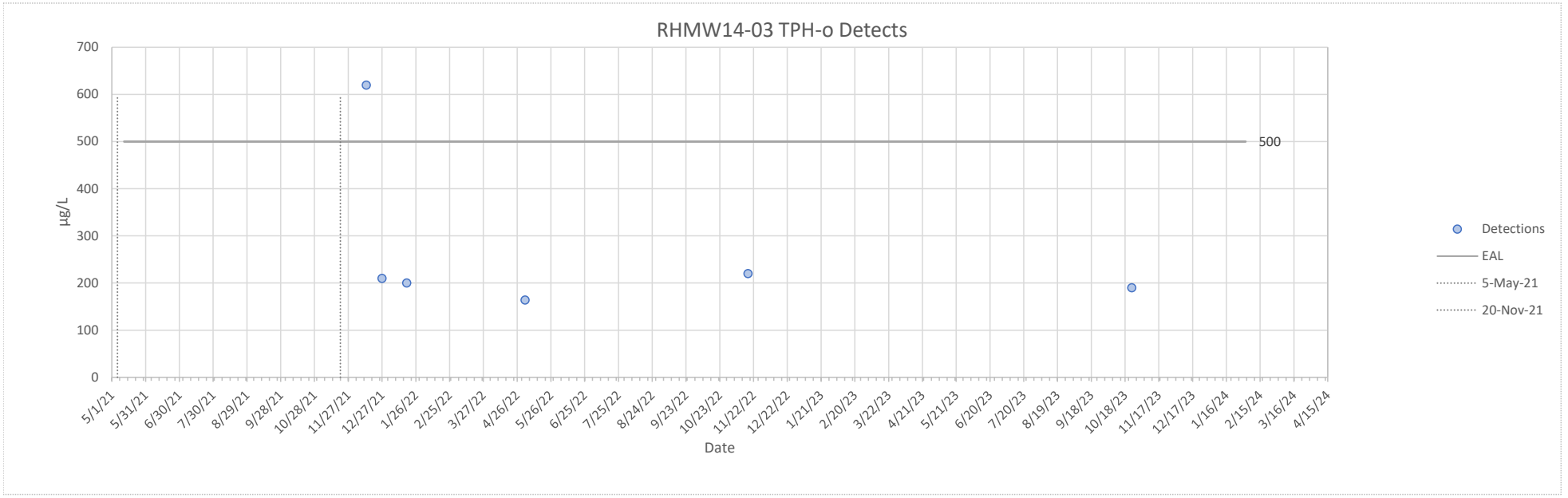

RHMW09 TPH-o Detects
µg/l
1600
1400
1200
1000
800
600
400
200
0
500
5/1/21
5/31/21
6/30/21
7/30/21
8/29/21
9/28/21
10/28/21
11/27/21
12/27/21
1/26/22
2/25/22
3/27/22
4/26/22
5/26/22
6/25/22
7/25/22
8/24/22
9/23/22
10/23/22
11/22/22
12/22/22
1/21/23
2/20/23
3/22/23
4/21/23
5/21/23
6/20/23
7/20/23
8/19/23
9/18/23
10/18/23
11/17/23
12/17/23
1/16/24
2/15/24
3/16/24
4/15/24
Date
Detections
EAL
5-May-21
20-Nov-21

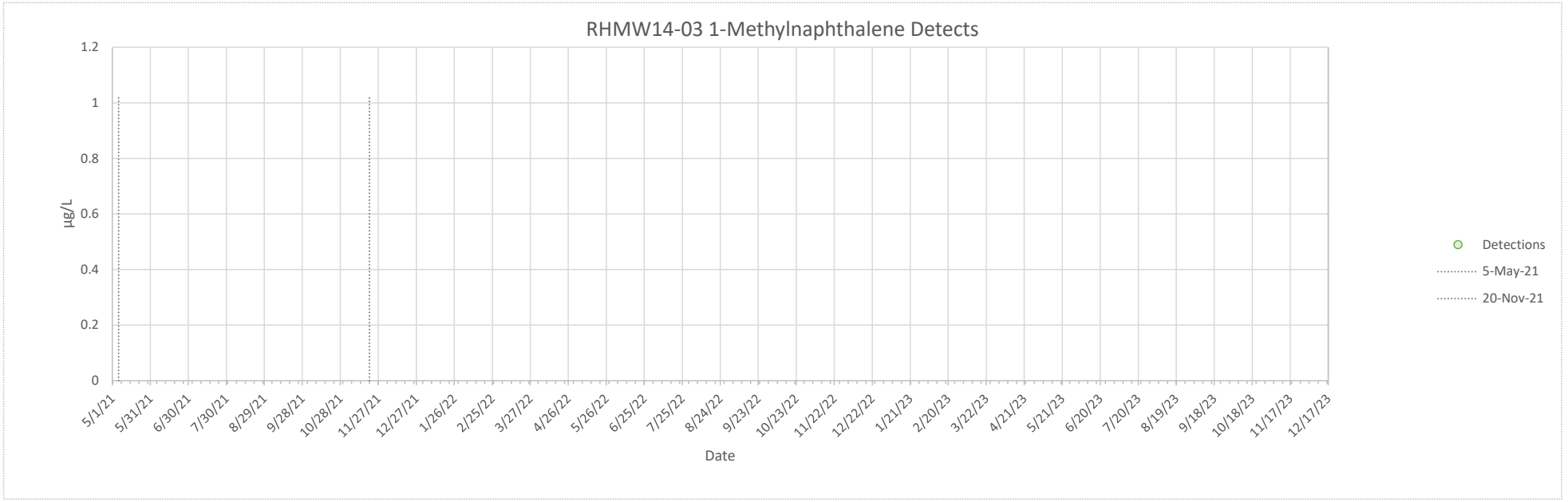

RHMW09 1-Methylnaphthalene Detects
µg/L
0.03
0.025
0.02
0.015
0.01
0.005
0
5/1/21
5/31/21
6/30/21
7/30/21
8/29/21
9/28/21
10/28/21
11/27/21
12/27/21
1/26/22
2/25/22
3/27/22
4/26/22
5/26/22
6/25/22
7/25/22
8/24/22
9/23/22
10/23/22
11/22/22
12/22/22
1/21/23
2/20/23
3/22/23
4/21/23
5/21/23
6/20/23
7/20/23
8/19/23
9/18/23
10/18/23
11/17/23
12/17/23
1/16/24
2/15/24
Date
Detections
5-May-21
20-Nov-21

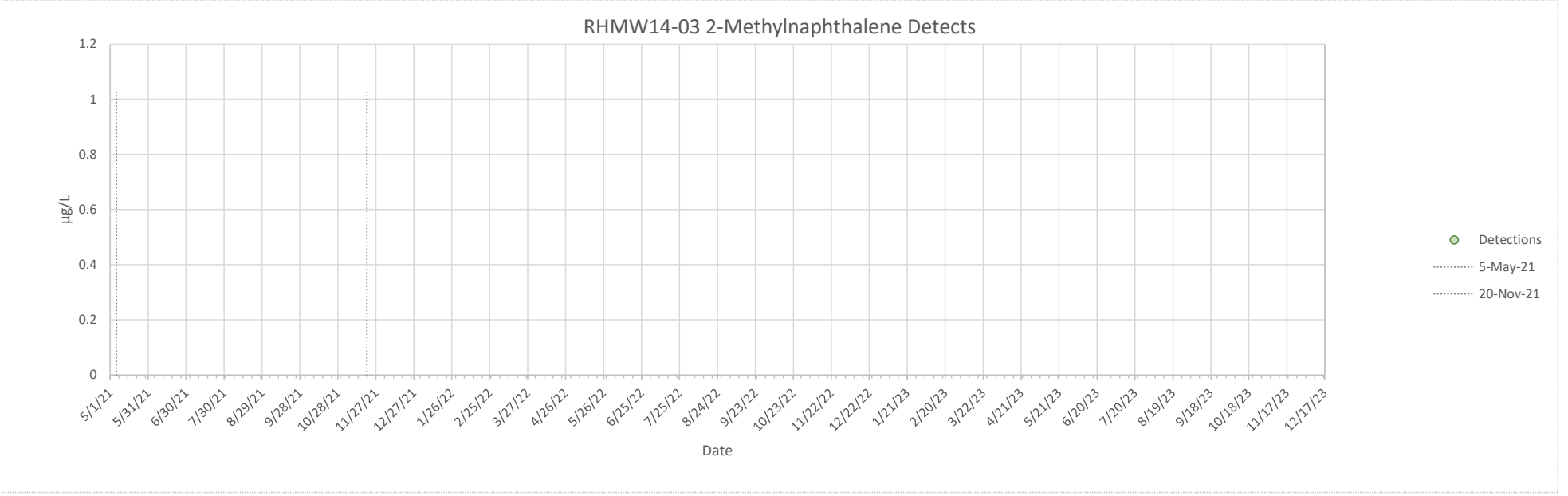

RHMW09 2-Methylnaphthalene Detects
µg/L
0.049
0.048
0.047
0.046
0.045
0.044
0.043
0.042
5/1/21
5/31/21
6/30/21
7/30/21
8/29/21
9/28/21
10/28/21
11/27/21
12/27/21
1/26/22
2/25/22
3/27/22
4/26/22
5/26/22
6/25/22
7/25/22
8/24/22
9/23/22
10/23/22
11/22/22
12/22/22
1/21/23
2/20/23
3/22/23
4/21/23
5/21/23
6/20/23
7/20/23
8/19/23
9/18/23
10/18/23
11/17/23
12/17/23
1/16/24
2/15/24
Date
Detections
5-May-21
20-Nov-21

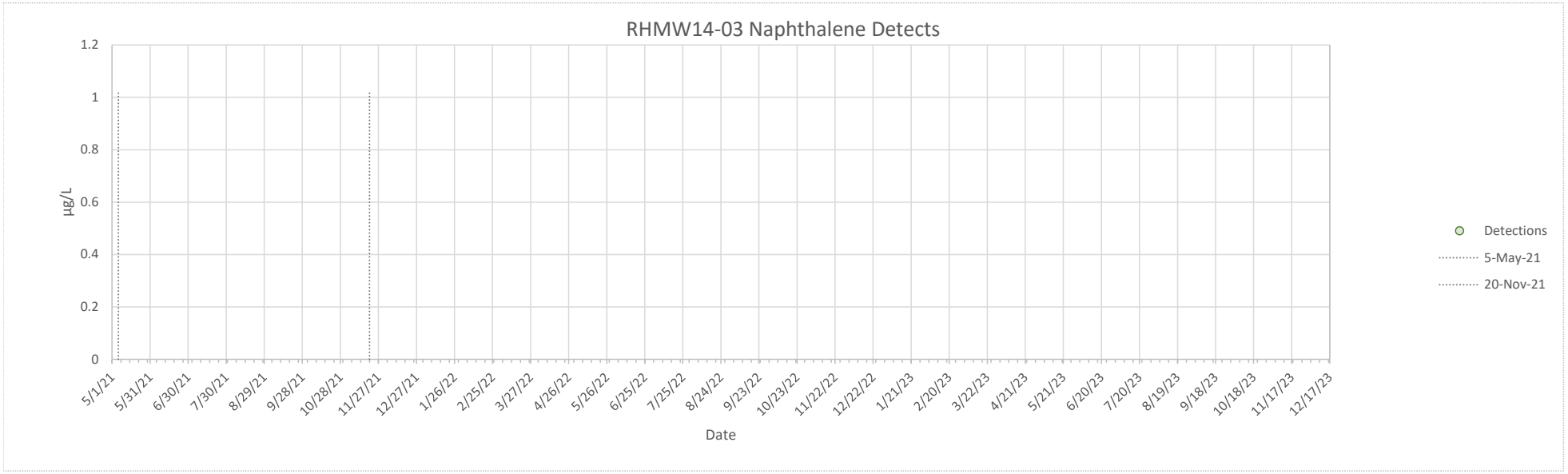

RHMW17 Naphthalene Detects
µg/L
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
5/1/21
5/31/21
6/30/21
7/30/21
8/29/21
9/28/21
10/28/21
11/27/21
12/27/21
1/26/22
2/25/22
3/27/22
4/26/22
5/26/22
6/25/22
7/25/22
8/24/22
9/23/22
10/23/22
11/22/22
12/22/22
1/21/23
2/20/23
3/22/23
4/21/23
5/21/23
6/20/23
7/20/23
8/19/23
9/18/23
10/18/23
11/17/23
12/17/23
1/16/24
2/15/24
Date
Detections
5-May-21
20-Nov-21

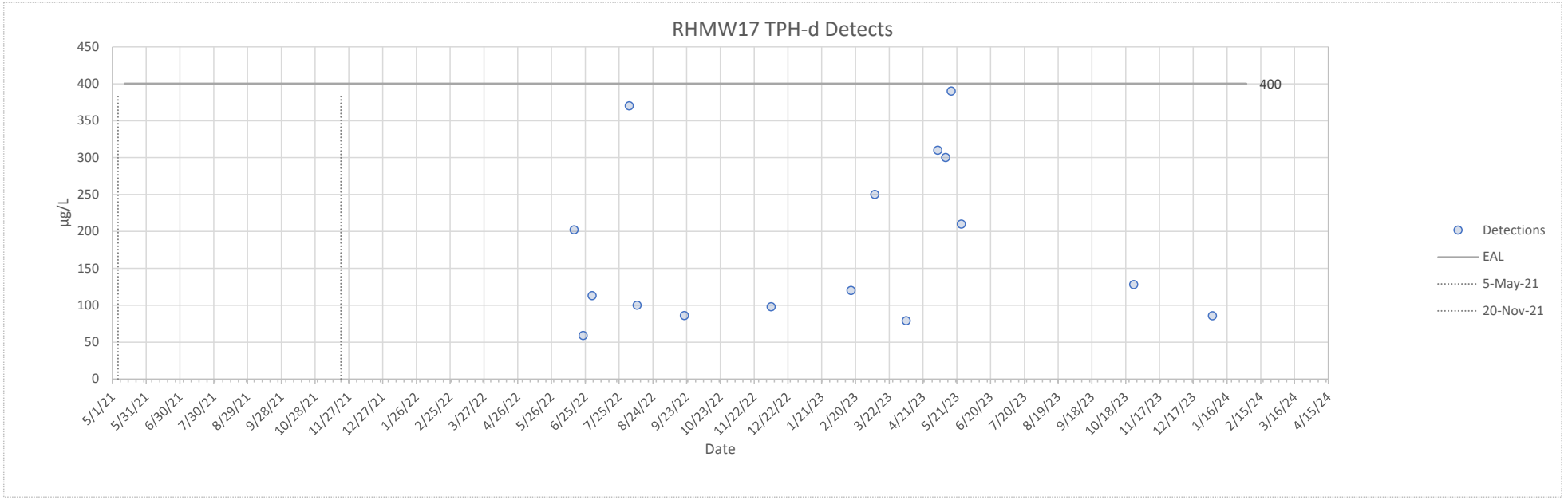

RHMW14-03 TPH-d Detects
µg/L
700
600
500
400
300
200
100
0
400
Date
5/1/21
5/31/21
6/30/21
7/30/21
8/29/21
9/28/21
10/28/21
11/27/21
12/27/21
1/26/22
2/25/22
3/27/22
4/26/22
5/26/22
6/25/22
7/25/22
8/24/22
9/23/22
10/23/22
11/22/22
12/22/22
1/21/23
2/20/23
3/22/23
4/21/23
5/21/23
6/20/23
7/20/23
8/19/23
9/18/23
10/18/23
11/17/23
12/17/23
1/16/24
2/15/24
3/16/24
4/15/24
Detections
EAL
5-May-21
20-Nov-21

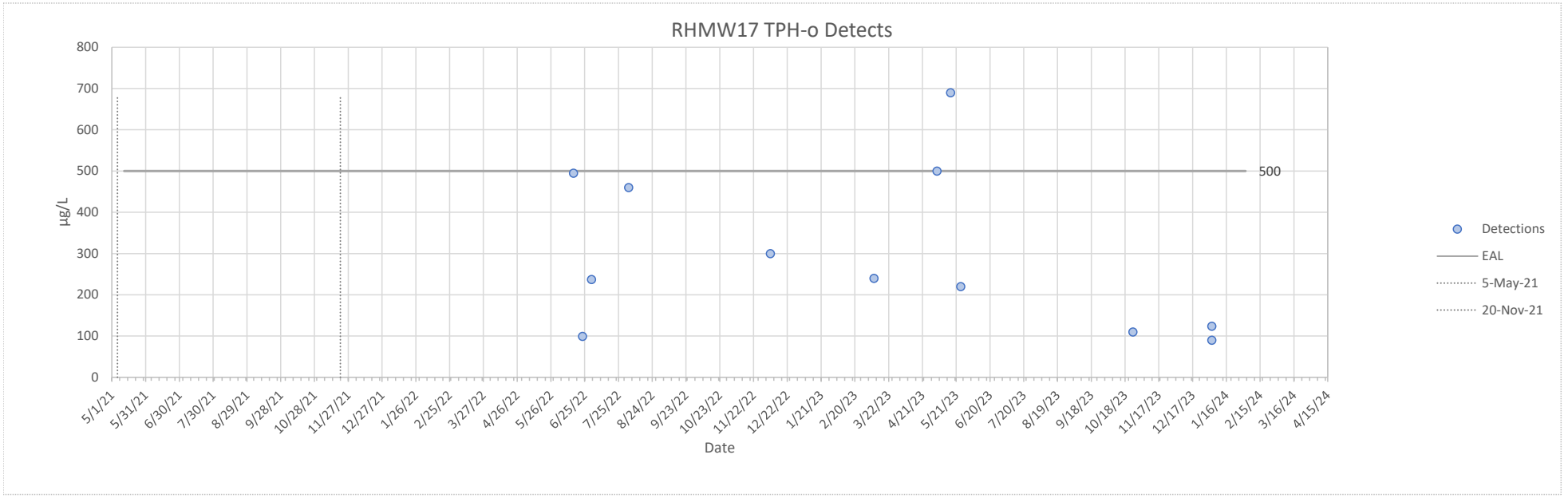

RHMW14-03 TPH-o Detects
µg/L
700
600
500
400
300
200
100
0
500
Date
5/1/21
5/31/21
6/30/21
7/30/21
8/29/21
9/28/21
10/28/21
11/27/21
12/27/21
1/26/22
2/25/22
3/27/22
4/26/22
5/26/22
6/25/22
7/25/22
8/24/22
9/23/22
10/23/22
11/22/22
12/22/22
1/21/23
2/20/23
3/22/23
4/21/23
5/21/23
6/20/23
7/20/23
8/19/23
9/18/23
10/18/23
11/17/23
12/17/23
1/16/24
2/15/24
3/16/24
4/15/24
Detections
EAL
5-May-21
20-Nov-21

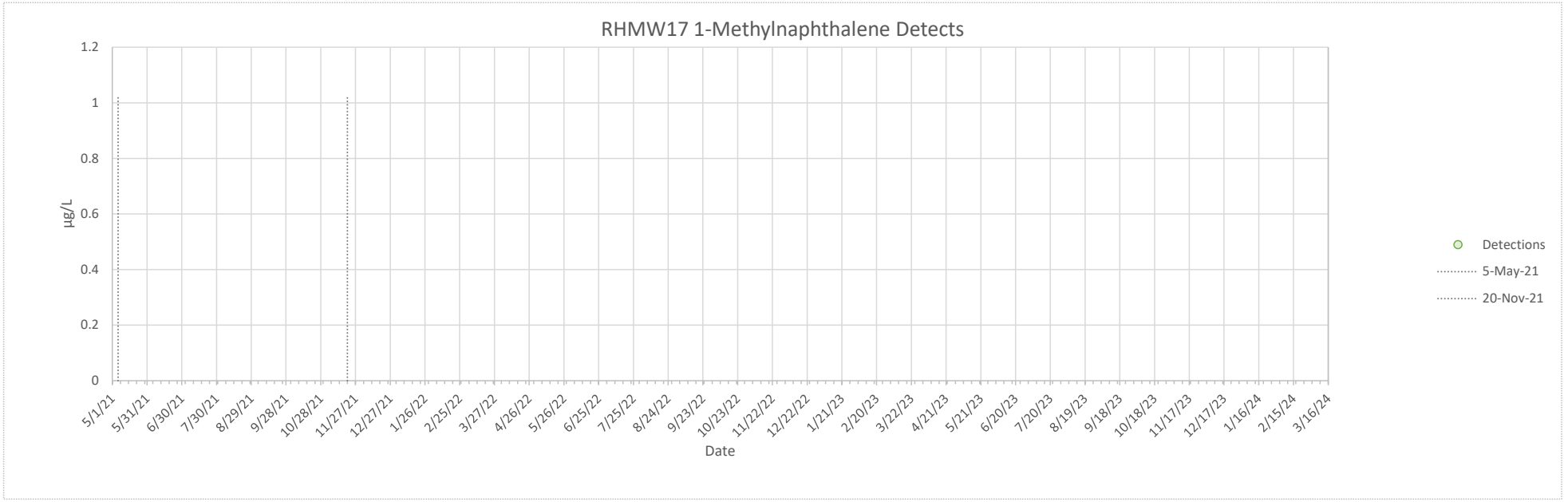

RHMW14-03 1-Methylnaphthalene Detects
µg/L
1.2
1
0.8
0.6
0.4
0.2
0
5/1/21
5/31/21
6/30/21
7/30/21
8/29/21
9/28/21
10/28/21
11/27/21
12/27/21
1/26/22
2/25/22
3/27/22
4/26/22
5/26/22
6/25/22
7/25/22
8/24/22
9/23/22
10/23/22
11/22/22
12/22/22
1/21/23
2/20/23
3/22/23
4/21/23
5/21/23
6/20/23
7/20/23
8/19/23
9/18/23
10/18/23
11/17/23
12/17/23
Date
Detections
5-May-21
20-Nov-21

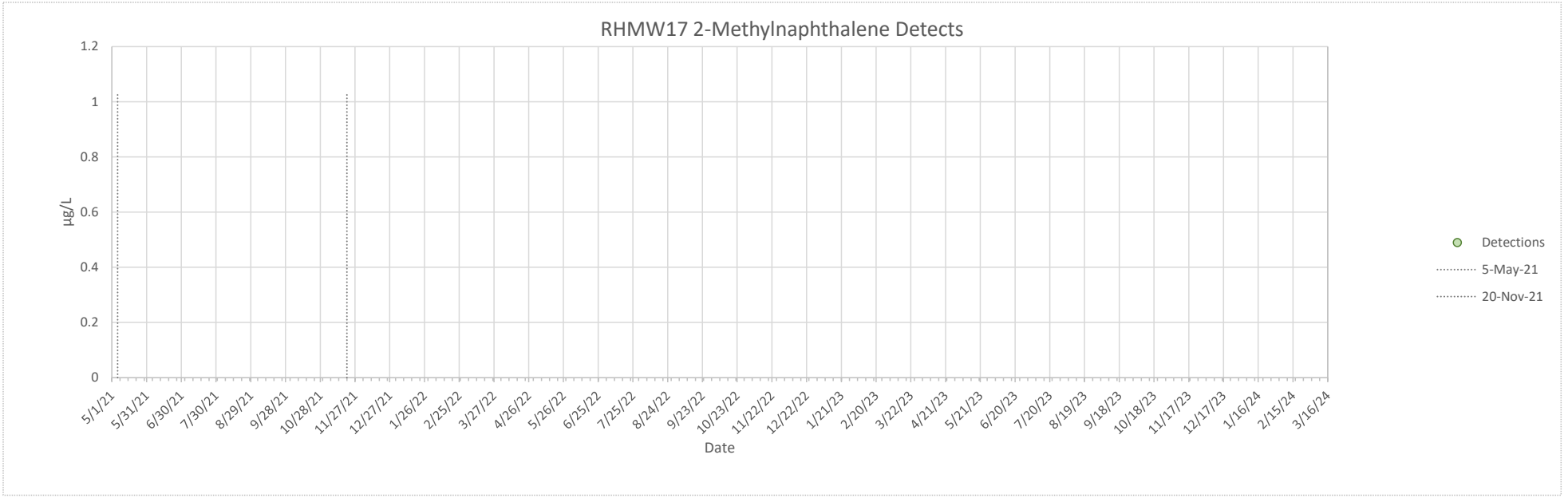

RHMW14-03 2-Methylnaphthalene Detects
µg/L
1.2
1
0.8
0.6
0.4
0.2
0
5/1/21
5/31/21
6/30/21
7/30/21
8/29/21
9/28/21
10/28/21
11/27/21
12/27/21
1/26/22
2/25/22
3/27/22
4/26/22
5/26/22
6/25/22
7/25/22
8/24/22
9/23/22
10/23/22
11/22/22
12/22/22
1/21/23
2/20/23
3/22/23
4/21/23
5/21/23
6/20/23
7/20/23
8/19/23
9/18/23
10/18/23
11/17/23
12/17/23
Date
Detections
5-May-21
20-Nov-21

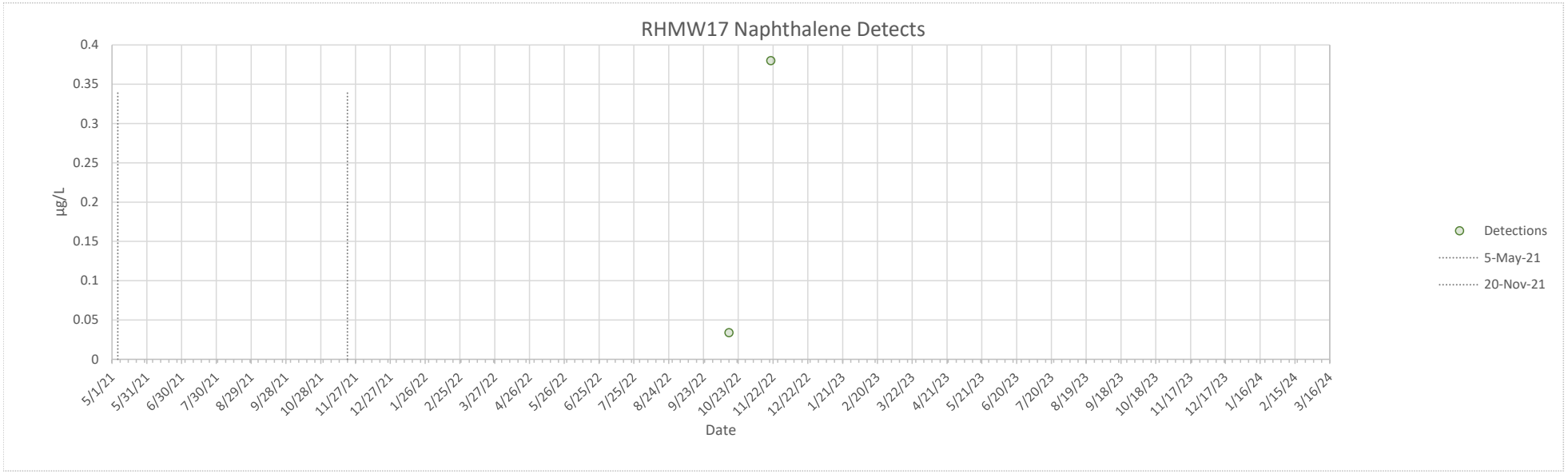

RHMW14-03 Naphthalene Detects
µg/L
1.2
1
0.8
0.6
0.4
0.2
0
5/1/21
5/31/21
6/30/21
7/30/21
8/29/21
9/28/21
10/28/21
11/27/21
12/27/21
1/26/22
2/25/22
3/27/22
4/26/22
5/26/22
6/25/22
7/25/22
8/24/22
9/23/22
10/23/22
11/22/22
12/22/22
1/21/23
2/20/23
3/22/23
4/21/23
5/21/23
6/20/23
7/20/23
8/19/23
9/18/23
10/18/23
11/17/23
12/17/23
Date
Detections
5-May-21
20-Nov-21

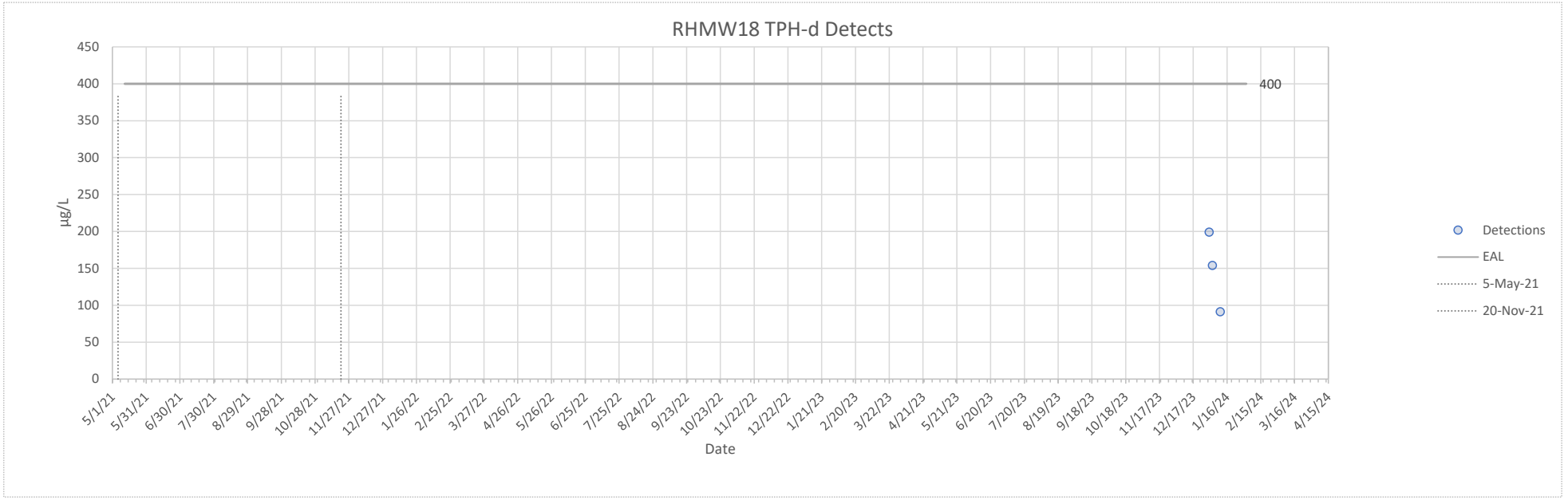

RHMW17 TPH-d Detects
µg/L
Date
400
Detections
EAL
5-May-21
20-Nov-21

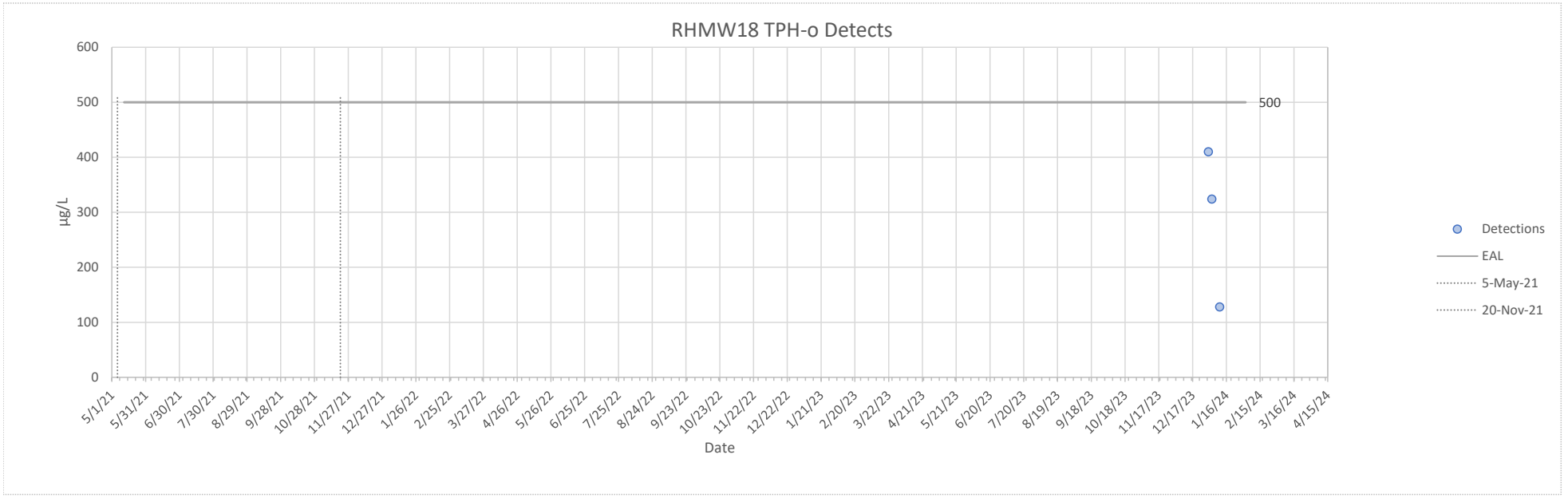

RHMW17 TPH-o Detects
µg/L
Date
500
Detections
EAL
5-May-21
20-Nov-21


RHMW17 1-Methylnaphthalene Detects
µg/L
1.2
1
0.8
0.6
0.4
0.2
0
5/1/21
5/31/21
6/30/21
7/30/21
8/29/21
9/28/21
10/28/21
11/27/21
12/27/21
1/26/22
2/25/22
3/27/22
4/26/22
5/26/22
6/25/22
7/25/22
8/24/22
9/23/22
10/23/22
11/22/22
12/22/22
1/21/23
2/20/23
3/22/23
4/21/23
5/21/23
6/20/23
7/20/23
8/19/23
9/18/23
10/18/23
11/17/23
12/17/23
1/16/24
2/15/24
3/16/24
Date
Detections
5-May-21
20-Nov-21

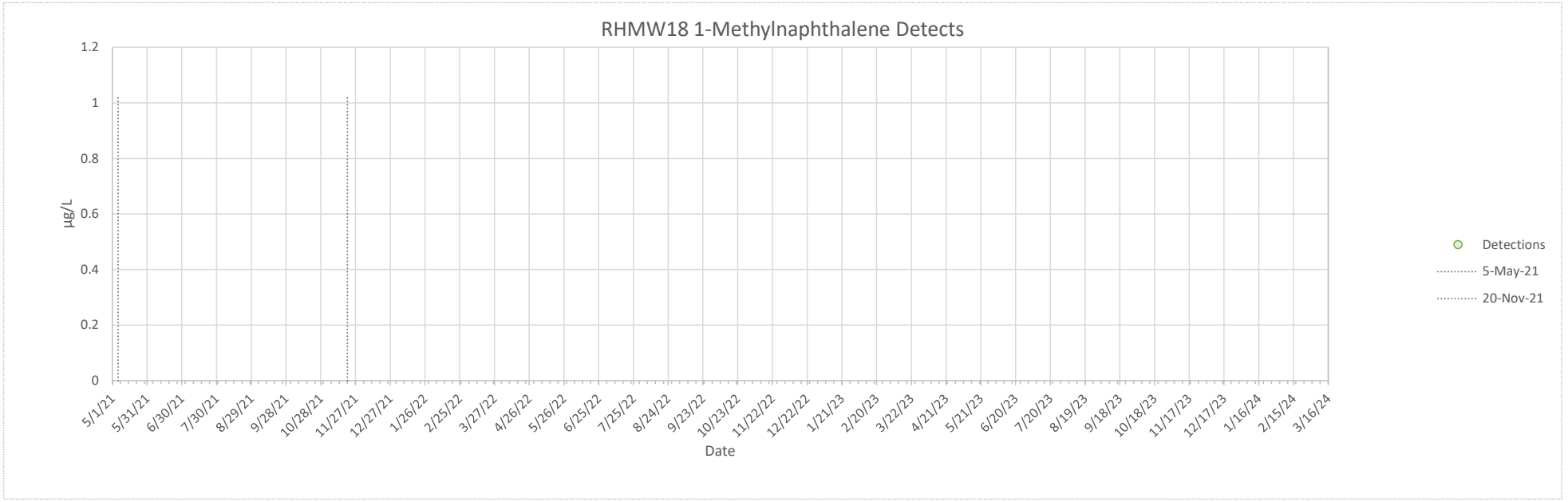

RHMW17 2-Methylnaphthalene Detects
µg/L
1.2
1
0.8
0.6
0.4
0.2
0
5/1/21
5/31/21
6/30/21
7/30/21
8/29/21
9/28/21
10/28/21
11/27/21
12/27/21
1/26/22
2/25/22
3/27/22
4/26/22
5/26/22
6/25/22
7/25/22
8/24/22
9/23/22
10/23/22
11/22/22
12/22/22
1/21/23
2/20/23
3/22/23
4/21/23
5/21/23
6/20/23
7/20/23
8/19/23
9/18/23
10/18/23
11/17/23
12/17/23
1/16/24
2/15/24
3/16/24
Date
Detections
5-May-21
20-Nov-21

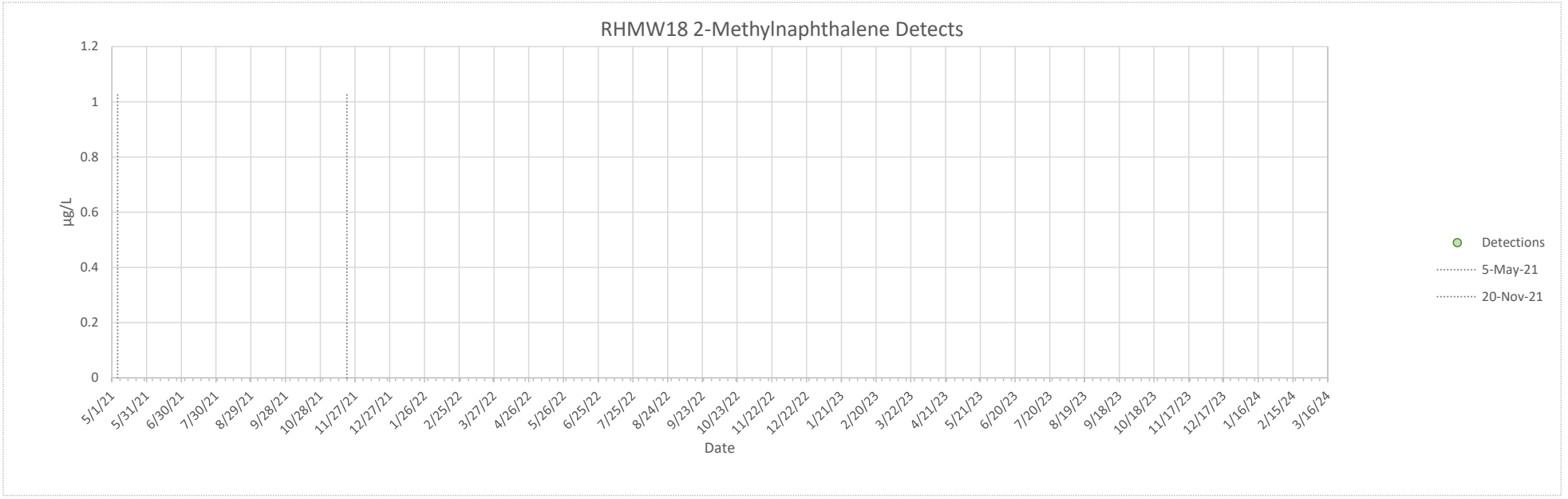

RHMW17 Naphthalene Detects
µg/L
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
5/1/21
5/31/21
6/30/21
7/30/21
8/29/21
9/28/21
10/28/21
11/27/21
12/27/21
1/26/22
2/25/22
3/27/22
4/26/22
5/26/22
6/25/22
7/25/22
8/24/22
9/23/22
10/23/22
11/22/22
12/22/22
1/21/23
2/20/23
3/22/23
4/21/23
5/21/23
6/20/23
7/20/23
8/19/23
9/18/23
10/18/23
11/17/23
12/17/23
1/16/24
2/15/24
3/16/24
Date
Detections
5-May-21
20-Nov-21

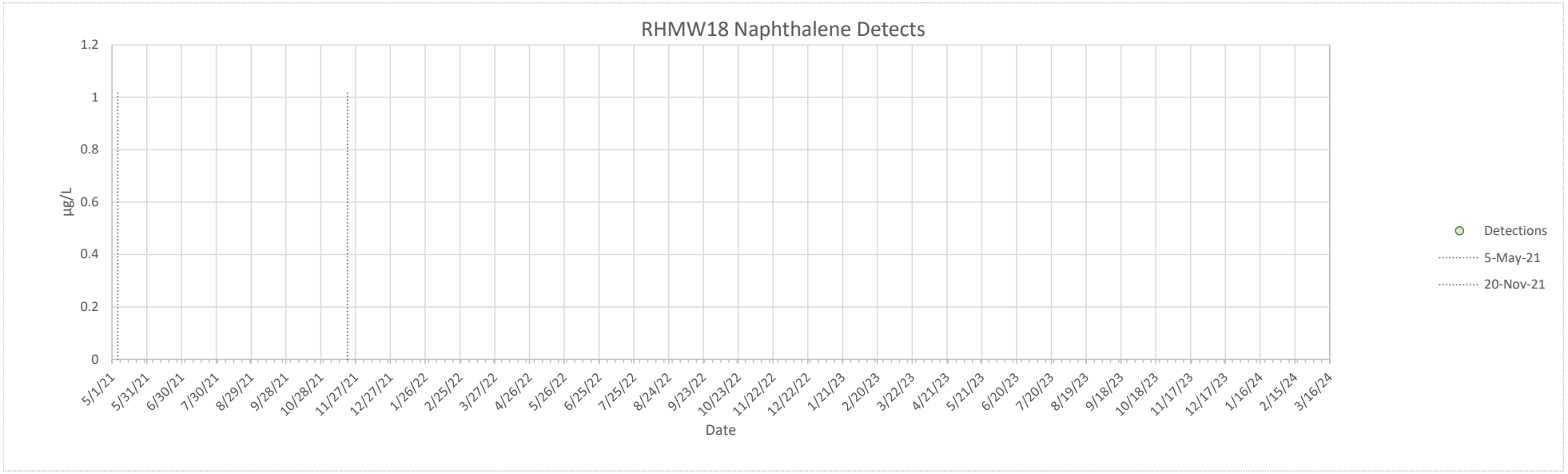


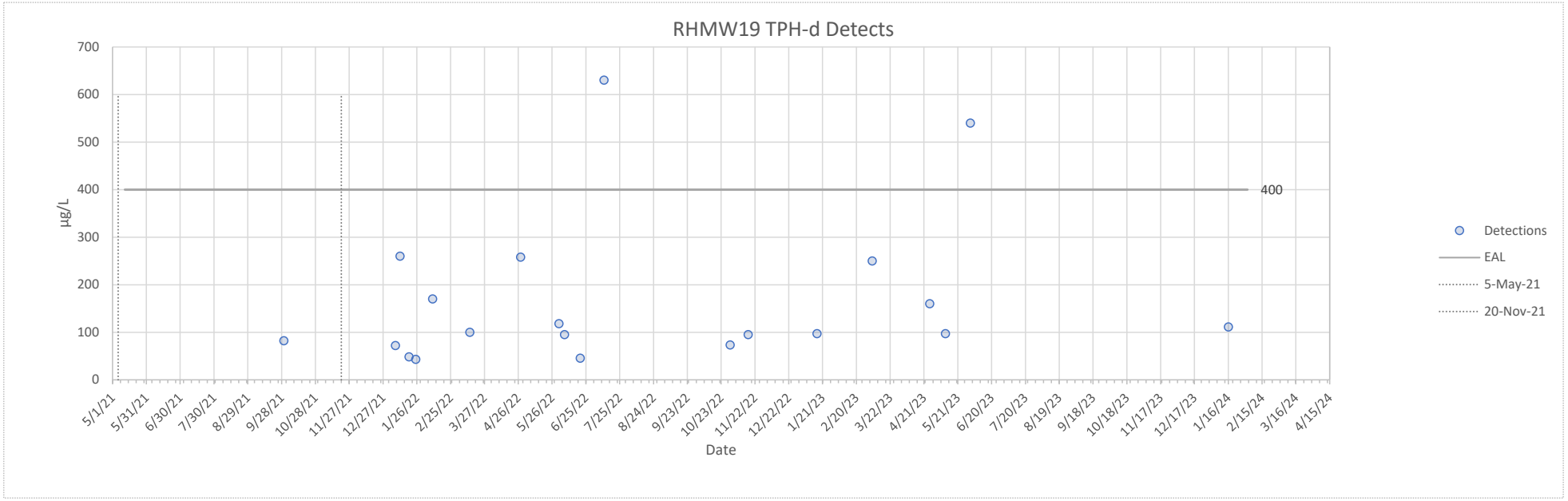


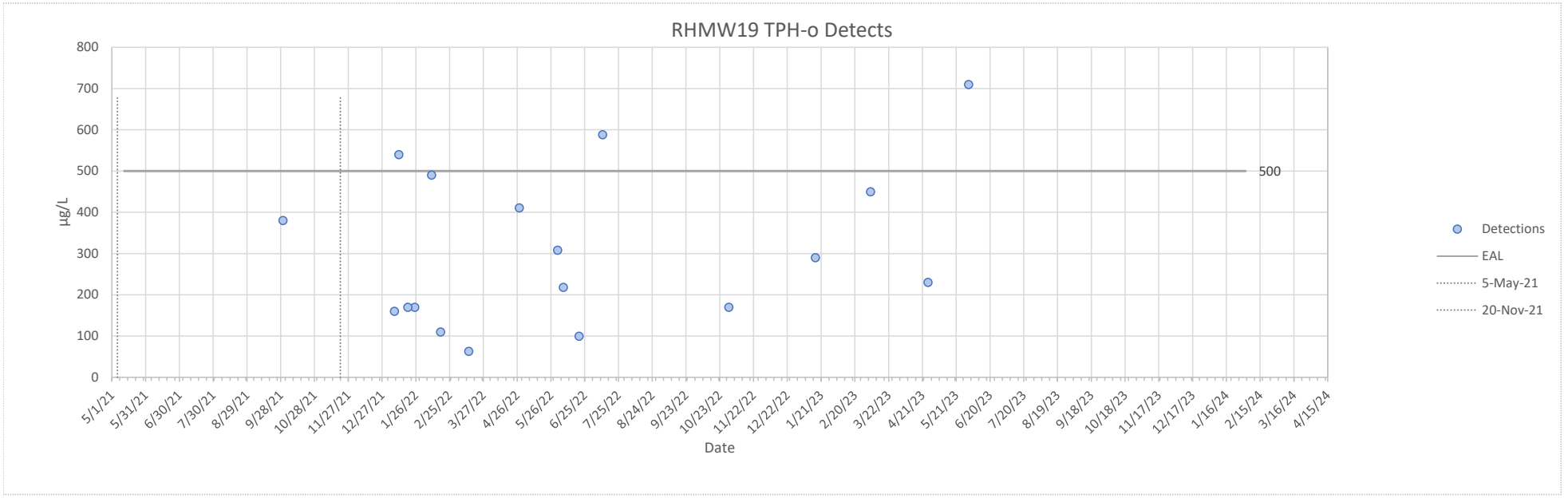
Appendix B.4.2.3 – Groundwater Dections Charts of NOI Defueling COPCs

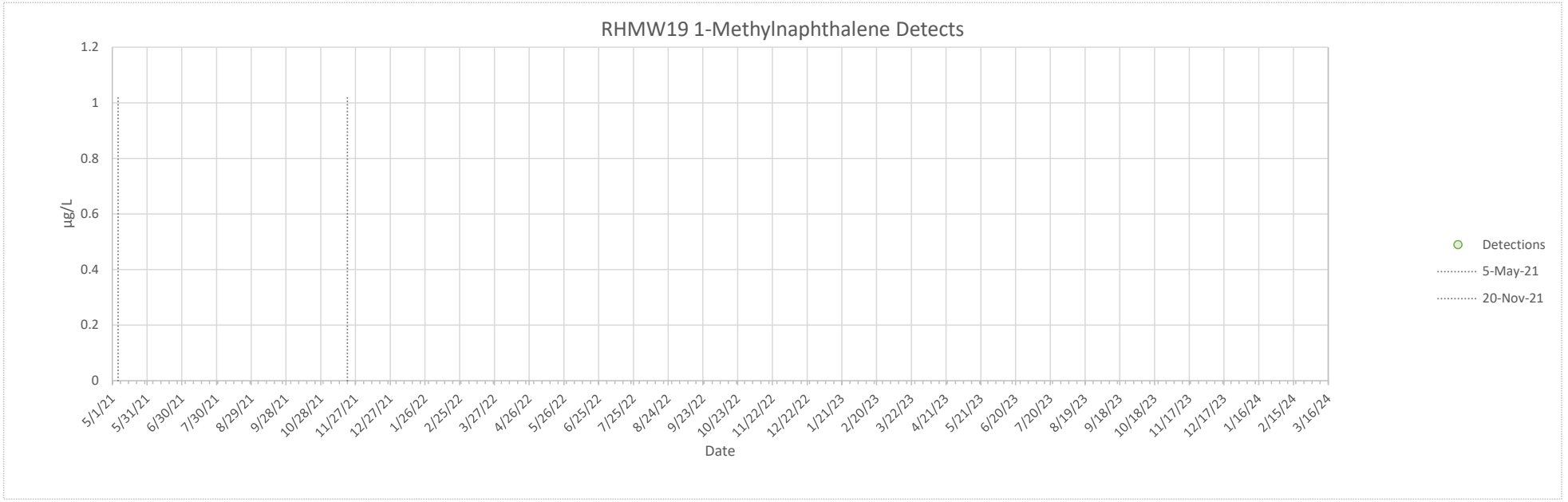

RHMW18 1-Methylnaphthalene Detects
µg/L
1.2
1
0.8
0.6
0.4
0.2
0
5/1/21
5/31/21
6/30/21
7/30/21
8/29/21
9/28/21
10/28/21
11/27/21
12/27/21
1/26/22
2/25/22
3/27/22
4/26/22
5/26/22
6/25/22
7/25/22
8/24/22
9/23/22
10/23/22
11/22/22
12/22/22
1/21/23
2/20/23
3/22/23
4/21/23
5/21/23
6/20/23
7/20/23
8/19/23
9/18/23
10/18/23
11/17/23
12/17/23
1/16/24
2/15/24
3/16/24
Date
Detections
5-May-21
20-Nov-21

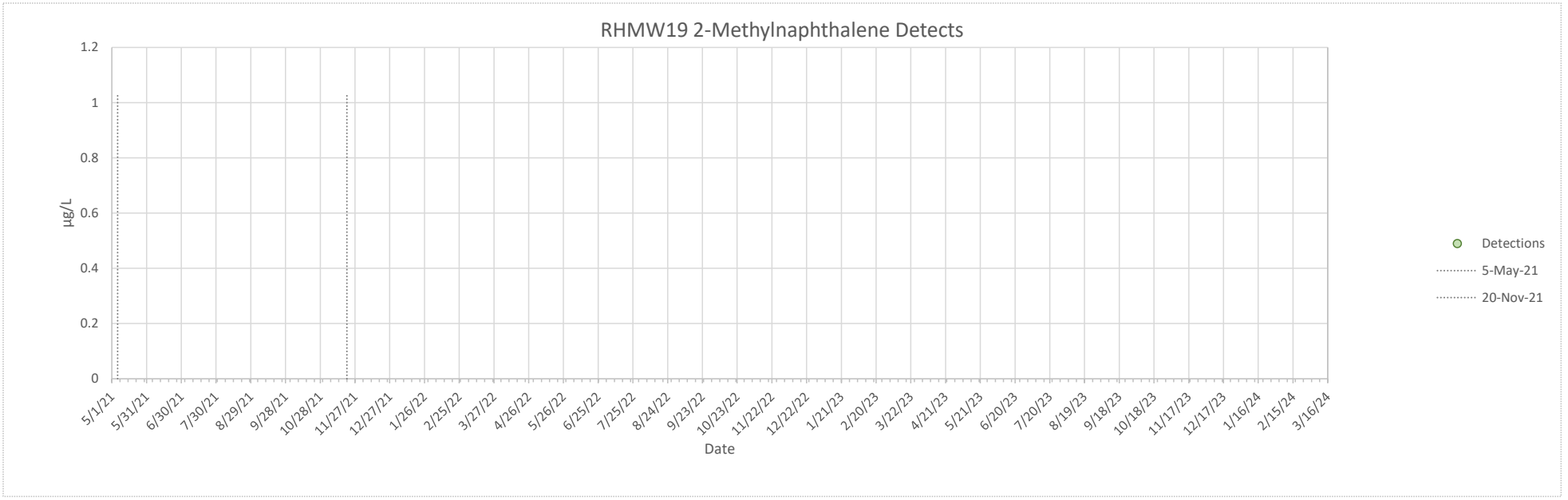

RHMW18 2-Methylnaphthalene Detects
µg/L
1.2
1
0.8
0.6
0.4
0.2
0
5/1/21
5/31/21
6/30/21
7/30/21
8/29/21
9/28/21
10/28/21
11/27/21
12/27/21
1/26/22
2/25/22
3/27/22
4/26/22
5/26/22
6/25/22
7/25/22
8/24/22
9/23/22
10/23/22
11/22/22
12/22/22
1/21/23
2/20/23
3/22/23
4/21/23
5/21/23
6/20/23
7/20/23
8/19/23
9/18/23
10/18/23
11/17/23
12/17/23
1/16/24
2/15/24
3/16/24
Date
Detections
5-May-21
20-Nov-21

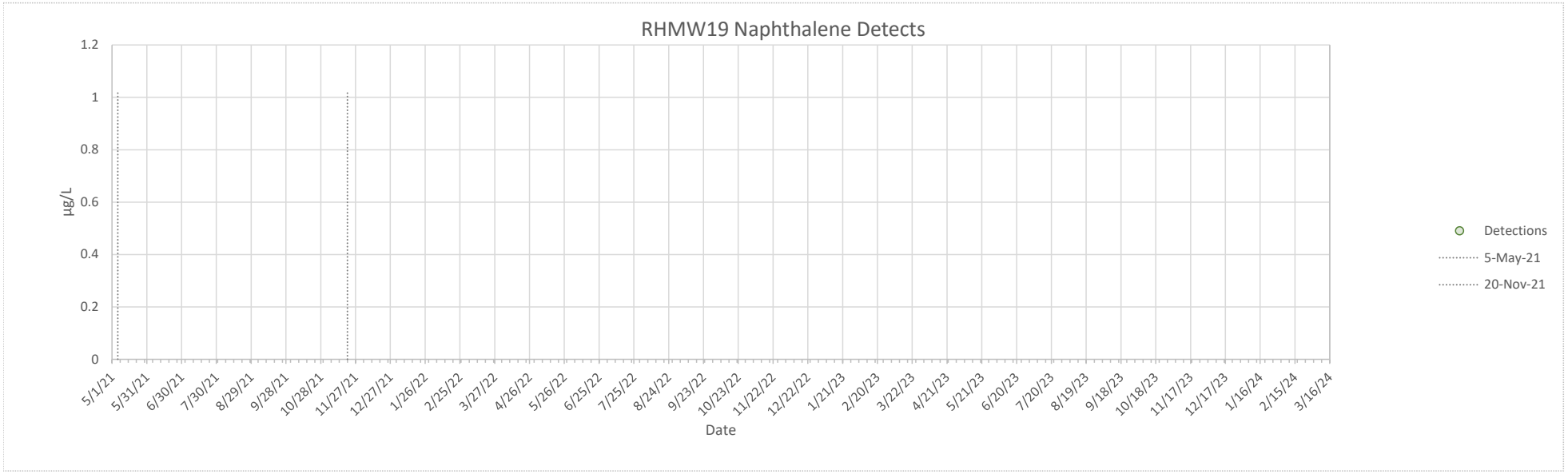

RHMW18 Naphthalene Detects
µg/L
1.2
1
0.8
0.6
0.4
0.2
0
5/1/21
5/31/21
6/30/21
7/30/21
8/29/21
9/28/21
10/28/21
11/27/21
12/27/21
1/26/22
2/25/22
3/27/22
4/26/22
5/26/22
6/25/22
7/25/22
8/24/22
9/23/22
10/23/22
11/22/22
12/22/22
1/21/23
2/20/23
3/22/23
4/21/23
5/21/23
6/20/23
7/20/23
8/19/23
9/18/23
10/18/23
11/17/23
12/17/23
1/16/24
2/15/24
3/16/24
Date
Detections
5-May-21
20-Nov-21

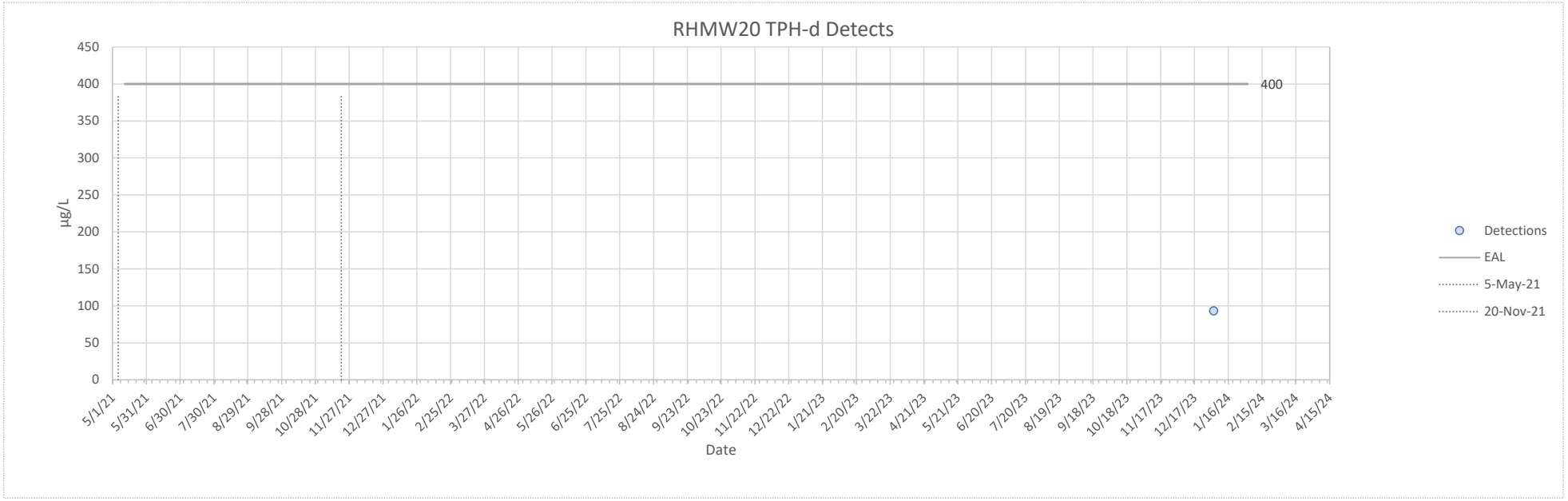

RHMW19 TPH-d Detects
µg/L
700
600
500
400
300
200
100
0
400
5/1/21
5/31/21
6/30/21
7/30/21
8/29/21
9/28/21
10/28/21
11/27/21
12/27/21
1/26/22
2/25/22
3/27/22
4/26/22
5/26/22
6/25/22
7/25/22
8/24/22
9/23/22
10/23/22
11/22/22
12/22/22
1/21/23
2/20/23
3/22/23
4/21/23
5/21/23
6/20/23
7/20/23
8/19/23
9/18/23
10/18/23
11/17/23
12/17/23
1/16/24
2/15/24
3/16/24
4/15/24
Date
Detections
EAL
5-May-21
20-Nov-21

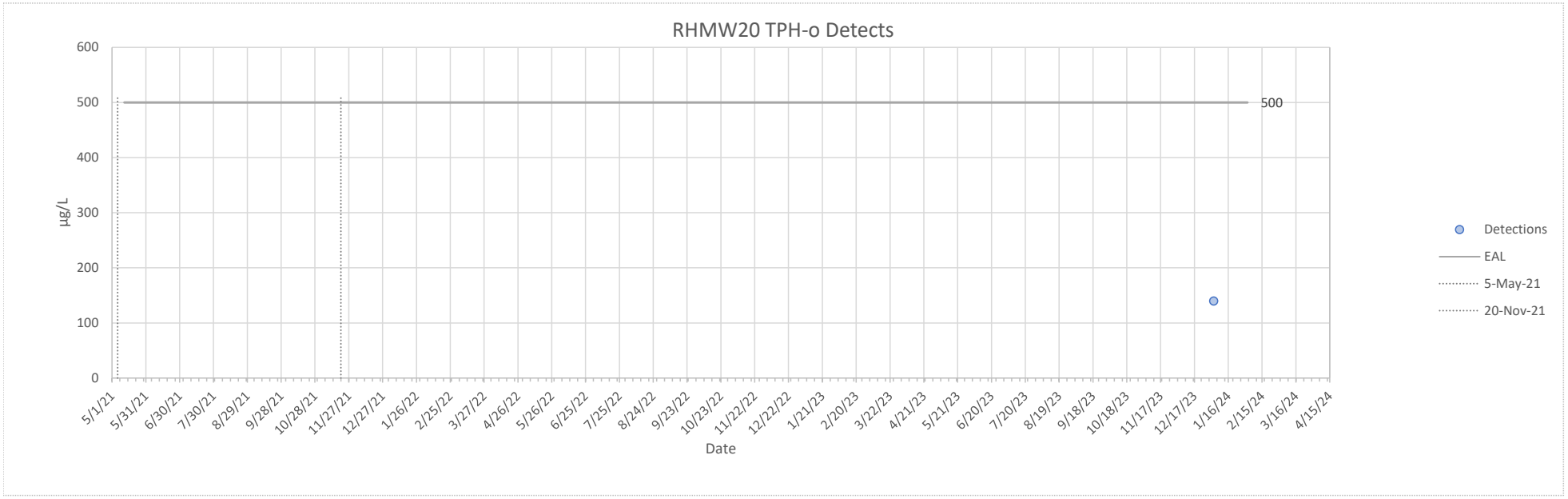

RHMW19 TPH-o Detects
µg/L
800
700
600
500
400
300
200
100
0
500
5/1/21
5/31/21
6/30/21
7/30/21
8/29/21
9/28/21
10/28/21
11/27/21
12/27/21
1/26/22
2/25/22
3/27/22
4/26/22
5/26/22
6/25/22
7/25/22
8/24/22
9/23/22
10/23/22
11/22/22
12/22/22
1/21/23
2/20/23
3/22/23
4/21/23
5/21/23
6/20/23
7/20/23
8/19/23
9/18/23
10/18/23
11/17/23
12/17/23
1/16/24
2/15/24
3/16/24
4/15/24
Date
Detections
EAL
5-May-21
20-Nov-21


RHMW19 1-Methylnaphthalene Detects
µg/L
1.2
1
0.8
0.6
0.4
0.2
0
5/1/21
5/31/21
6/30/21
7/30/21
8/29/21
9/28/21
10/28/21
11/27/21
12/27/21
1/26/22
2/25/22
3/27/22
4/26/22
5/26/22
6/25/22
7/25/22
8/24/22
9/23/22
10/23/22
11/22/22
12/22/22
1/21/23
2/20/23
3/22/23
4/21/23
5/21/23
6/20/23
7/20/23
8/19/23
9/18/23
10/18/23
11/17/23
12/17/23
1/16/24
2/15/24
3/16/24
Date
Detections
5-May-21
20-Nov-21

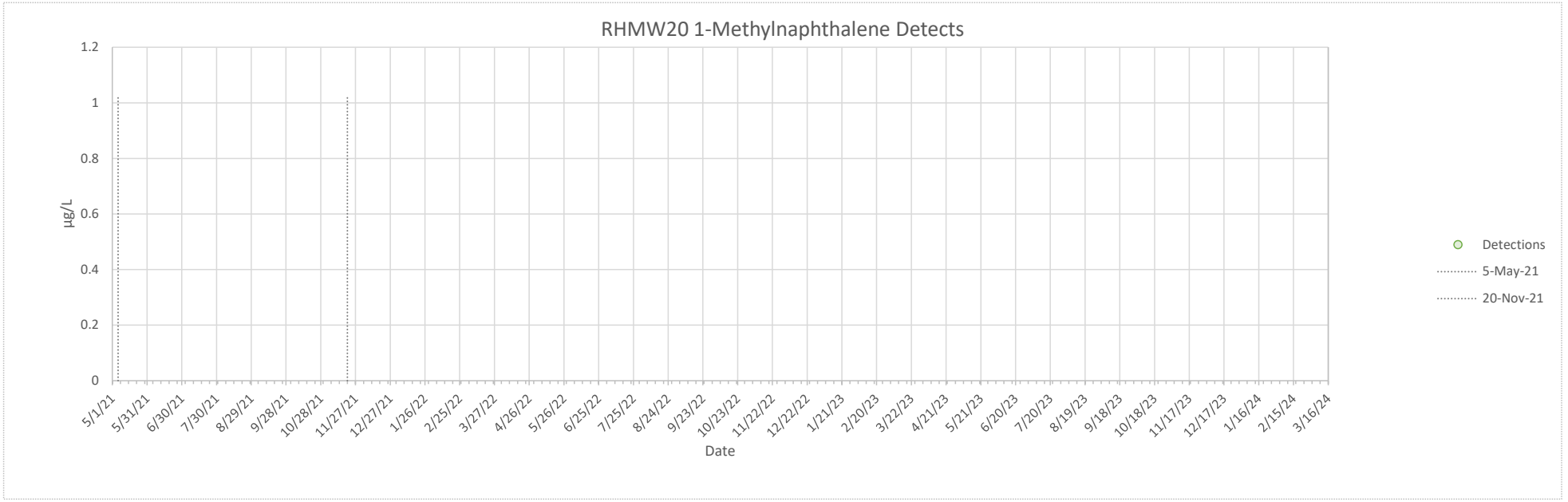

RHMW19 2-Methylnaphthalene Detects
µg/L
1.2
1
0.8
0.6
0.4
0.2
0
5/1/21
5/31/21
6/30/21
7/30/21
8/29/21
9/28/21
10/28/21
11/27/21
12/27/21
1/26/22
2/25/22
3/27/22
4/26/22
5/26/22
6/25/22
7/25/22
8/24/22
9/23/22
10/23/22
11/22/22
12/22/22
1/21/23
2/20/23
3/22/23
4/21/23
5/21/23
6/20/23
7/20/23
8/19/23
9/18/23
10/18/23
11/17/23
12/17/23
1/16/24
2/15/24
3/16/24
Date
Detections
5-May-21
20-Nov-21

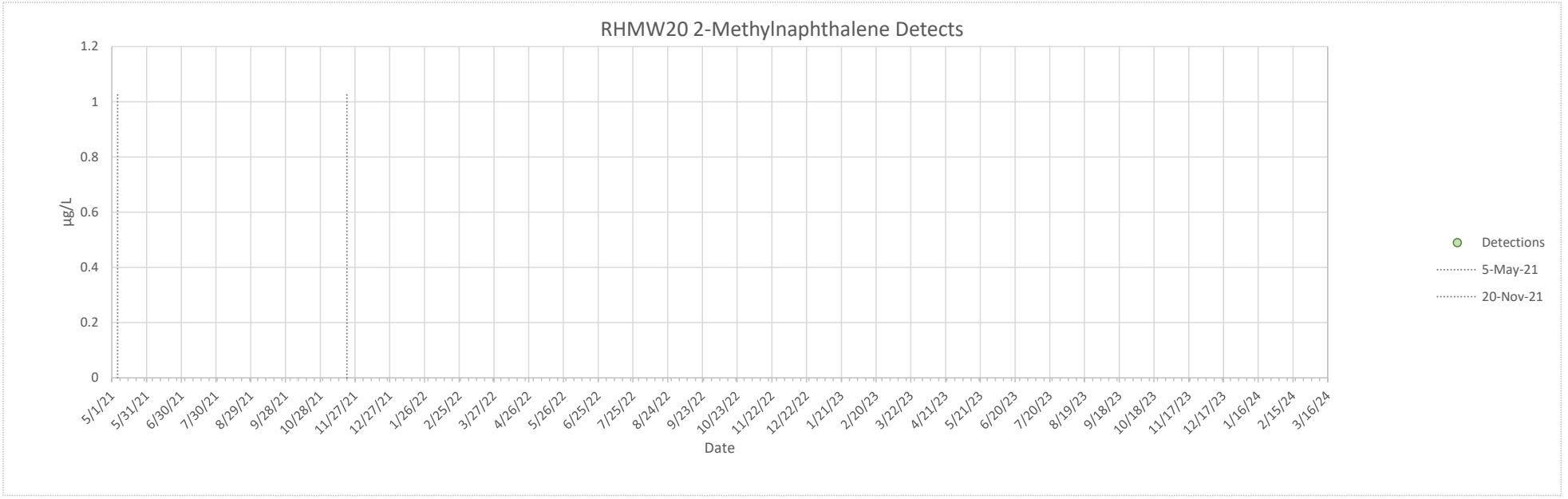

RHMW19 Naphthalene Detects
µg/L
1.2
1
0.8
0.6
0.4
0.2
0
5/1/21
5/31/21
6/30/21
7/30/21
8/29/21
9/28/21
10/28/21
11/27/21
12/27/21
1/26/22
2/25/22
3/27/22
4/26/22
5/26/22
6/25/22
7/25/22
8/24/22
9/23/22
10/23/22
11/22/22
12/22/22
1/21/23
2/20/23
3/22/23
4/21/23
5/21/23
6/20/23
7/20/23
8/19/23
9/18/23
10/18/23
11/17/23
12/17/23
1/16/24
2/15/24
3/16/24
Date
Detections
5-May-21
20-Nov-21

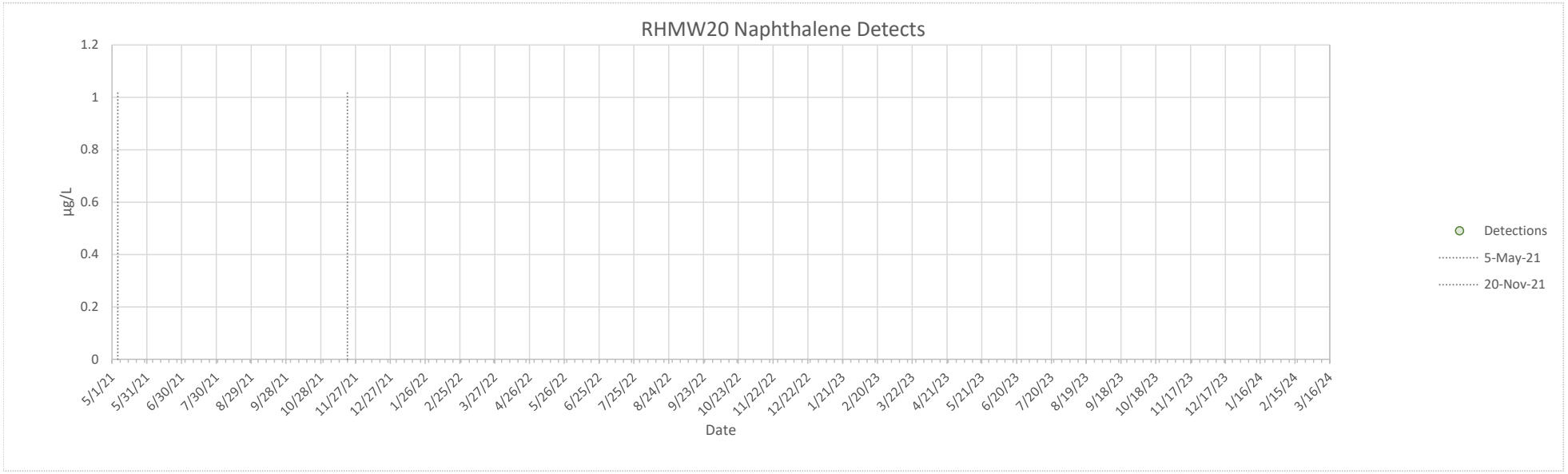


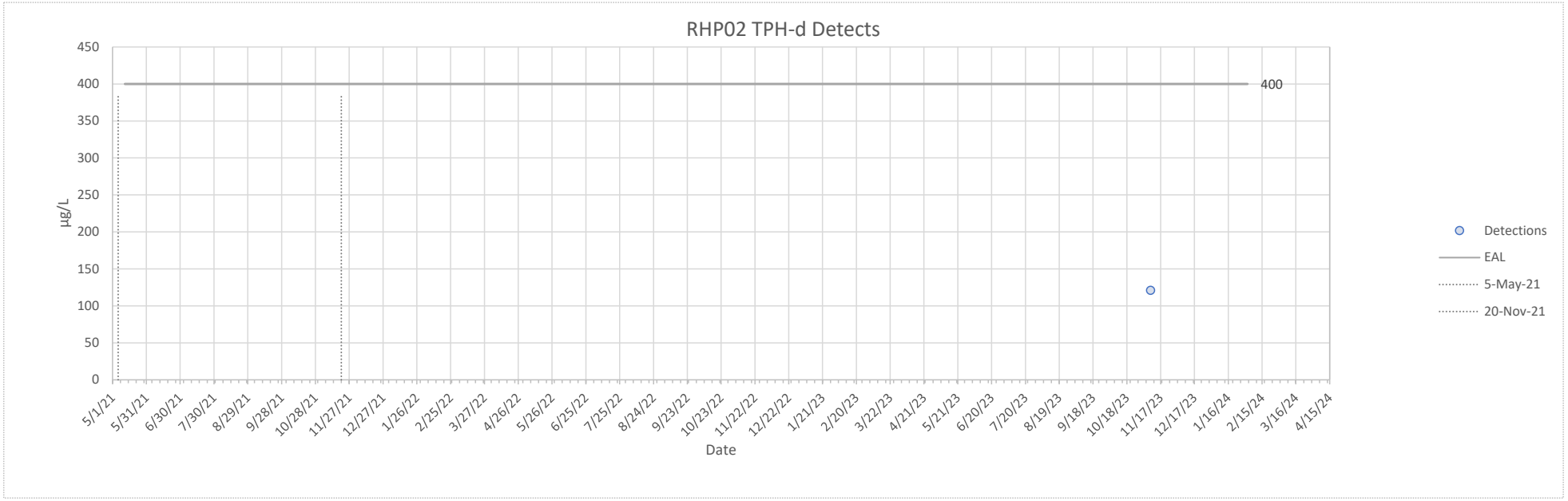


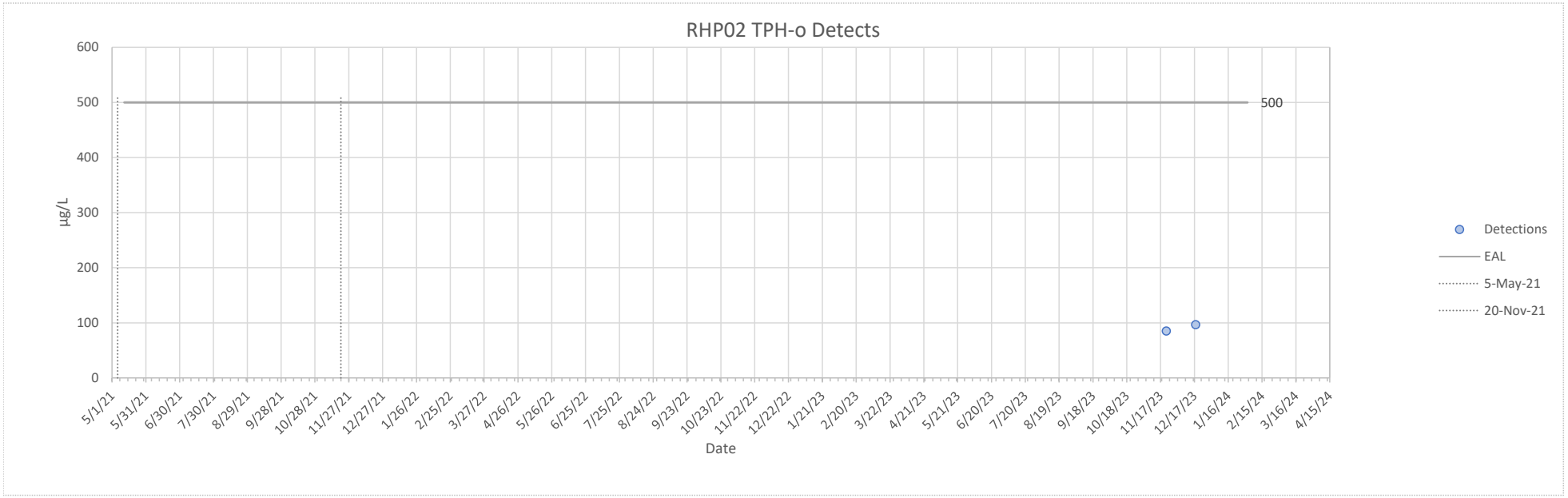
Appendix B.4.2.3 – Groundwater Dections Charts of NOI Defueling COPCs


RHMW20 1-Methylnaphthalene Detects
µg/L
1.2
1
0.8
0.6
0.4
0.2
0
5/1/21
5/31/21
6/30/21
7/30/21
8/29/21
9/28/21
10/28/21
11/27/21
12/27/21
1/26/22
2/25/22
3/27/22
4/26/22
5/26/22
6/25/22
7/25/22
8/24/22
9/23/22
10/23/22
11/22/22
12/22/22
1/21/23
2/20/23
3/22/23
4/21/23
5/21/23
6/20/23
7/20/23
8/19/23
9/18/23
10/18/23
11/17/23
12/17/23
1/16/24
2/15/24
3/16/24
Date
Detections
5-May-21
20-Nov-21

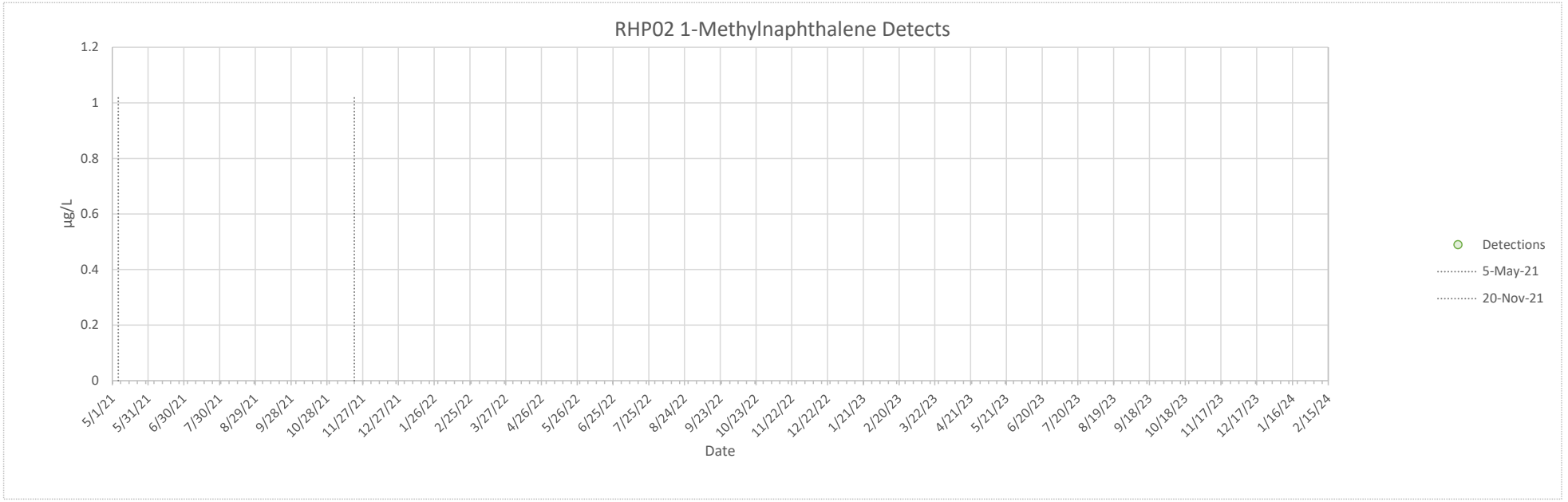

RHMW20 2-Methylnaphthalene Detects
µg/L
1.2
1
0.8
0.6
0.4
0.2
0
5/1/21
5/31/21
6/30/21
7/30/21
8/29/21
9/28/21
10/28/21
11/27/21
12/27/21
1/26/22
2/25/22
3/27/22
4/26/22
5/26/22
6/25/22
7/25/22
8/24/22
9/23/22
10/23/22
11/22/22
12/22/22
1/21/23
2/20/23
3/22/23
4/21/23
5/21/23
6/20/23
7/20/23
8/19/23
9/18/23
10/18/23
11/17/23
12/17/23
1/16/24
2/15/24
3/16/24
Date
Detections
5-May-21
20-Nov-21

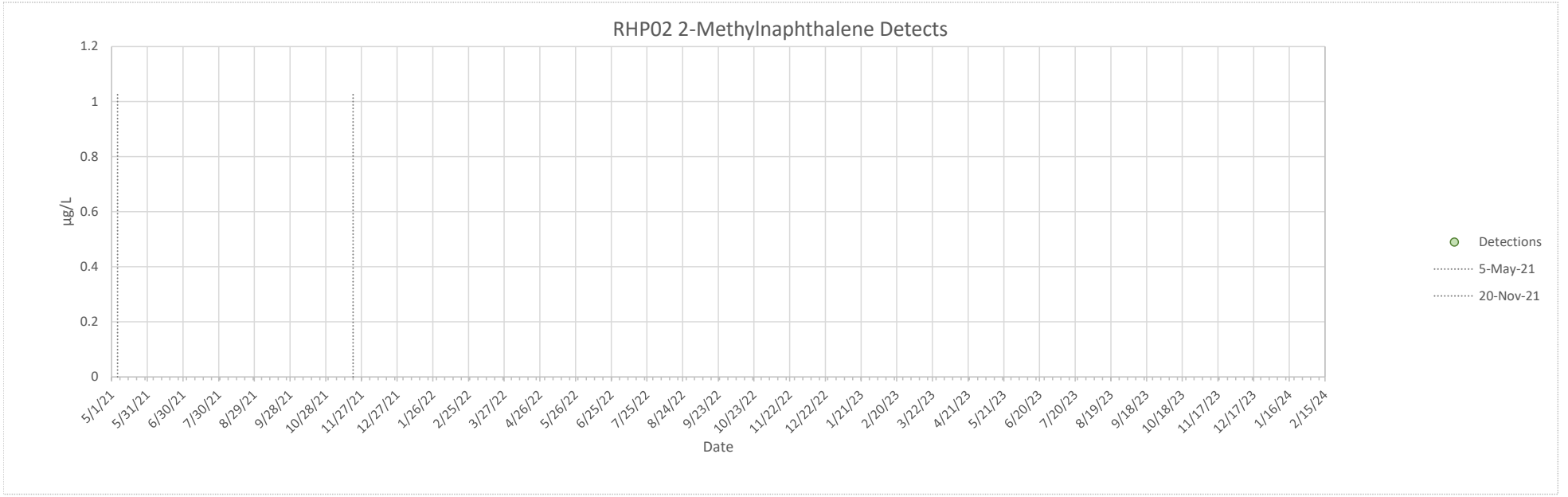

RHMW20 Naphthalene Detects
µg/L
1.2
1
0.8
0.6
0.4
0.2
0
5/1/21
5/31/21
6/30/21
7/30/21
8/29/21
9/28/21
10/28/21
11/27/21
12/27/21
1/26/22
2/25/22
3/27/22
4/26/22
5/26/22
6/25/22
7/25/22
8/24/22
9/23/22
10/23/22
11/22/22
12/22/22
1/21/23
2/20/23
3/22/23
4/21/23
5/21/23
6/20/23
7/20/23
8/19/23
9/18/23
10/18/23
11/17/23
12/17/23
1/16/24
2/15/24
3/16/24
Date
Detections
5-May-21
20-Nov-21

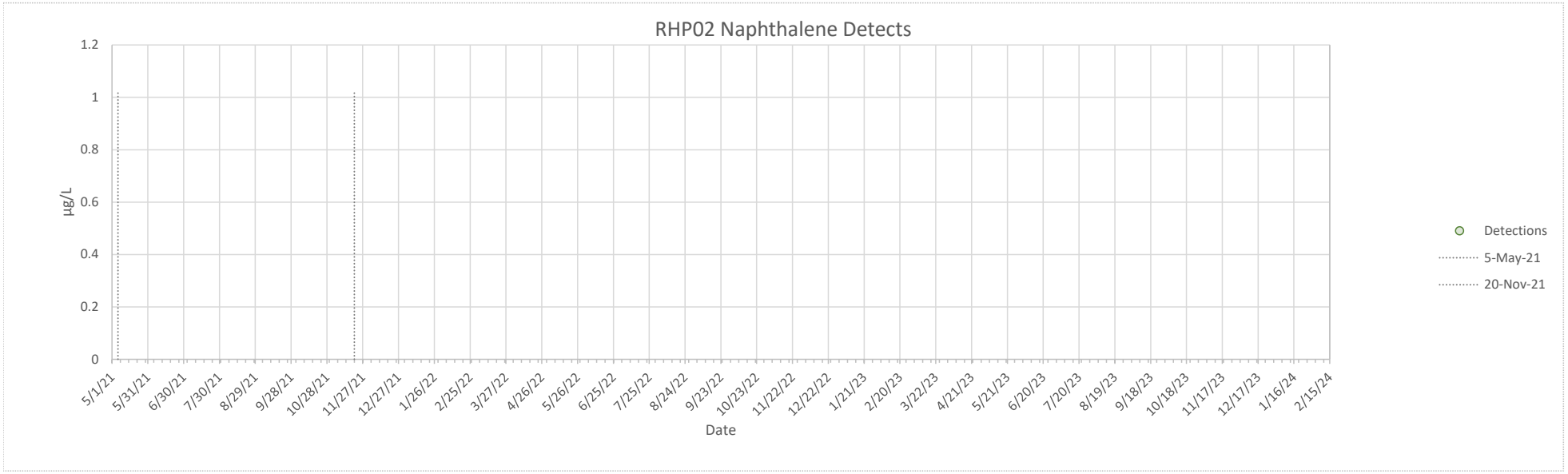


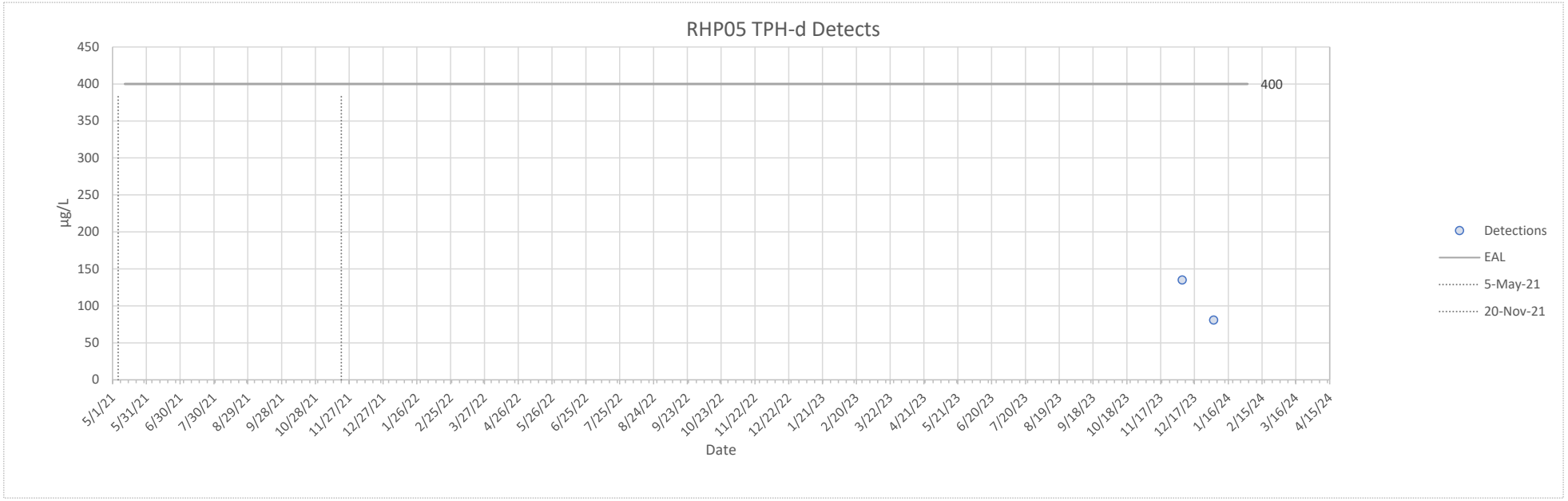


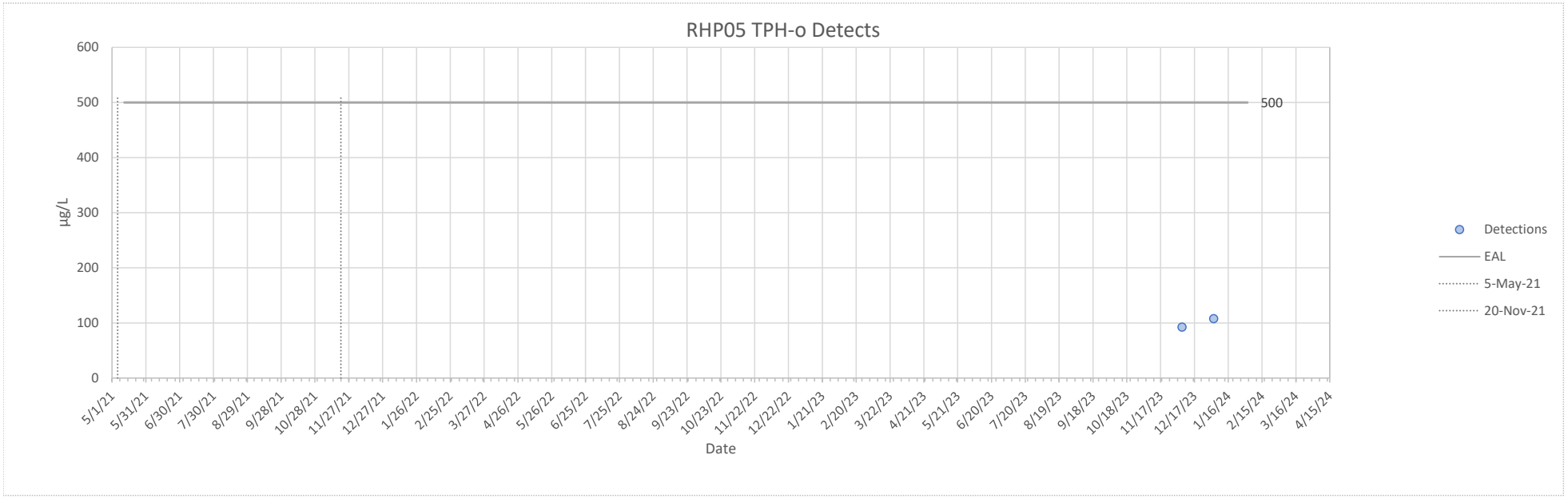
Appendix B.4.2.3 – Groundwater Dections Charts of NOI Defueling COPCs

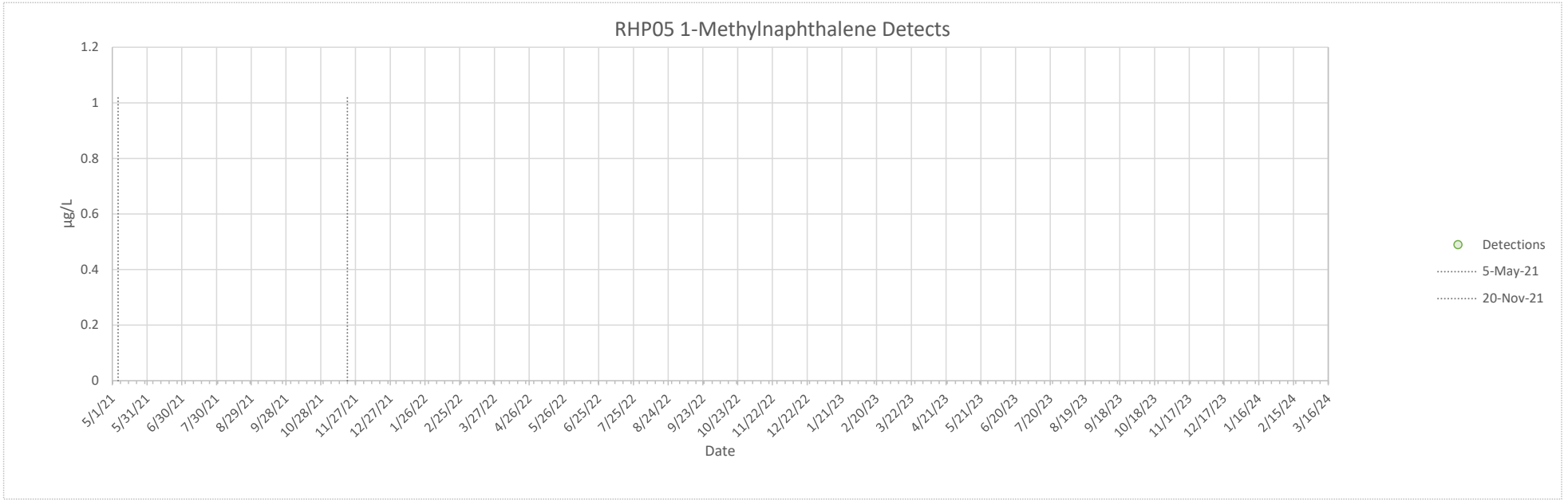

RHP02 1-Methylnaphthalene Detects
µg/L
1.2
1
0.8
0.6
0.4
0.2
0
5/1/21
5/31/21
6/30/21
7/30/21
8/29/21
9/28/21
10/28/21
11/27/21
12/27/21
1/26/22
2/25/22
3/27/22
4/26/22
5/26/22
6/25/22
7/25/22
8/24/22
9/23/22
10/23/22
11/22/22
12/22/22
1/21/23
2/20/23
3/22/23
4/21/23
5/21/23
6/20/23
7/20/23
8/19/23
9/18/23
10/18/23
11/17/23
12/17/23
1/16/24
2/15/24
Date
Detections
5-May-21
20-Nov-21

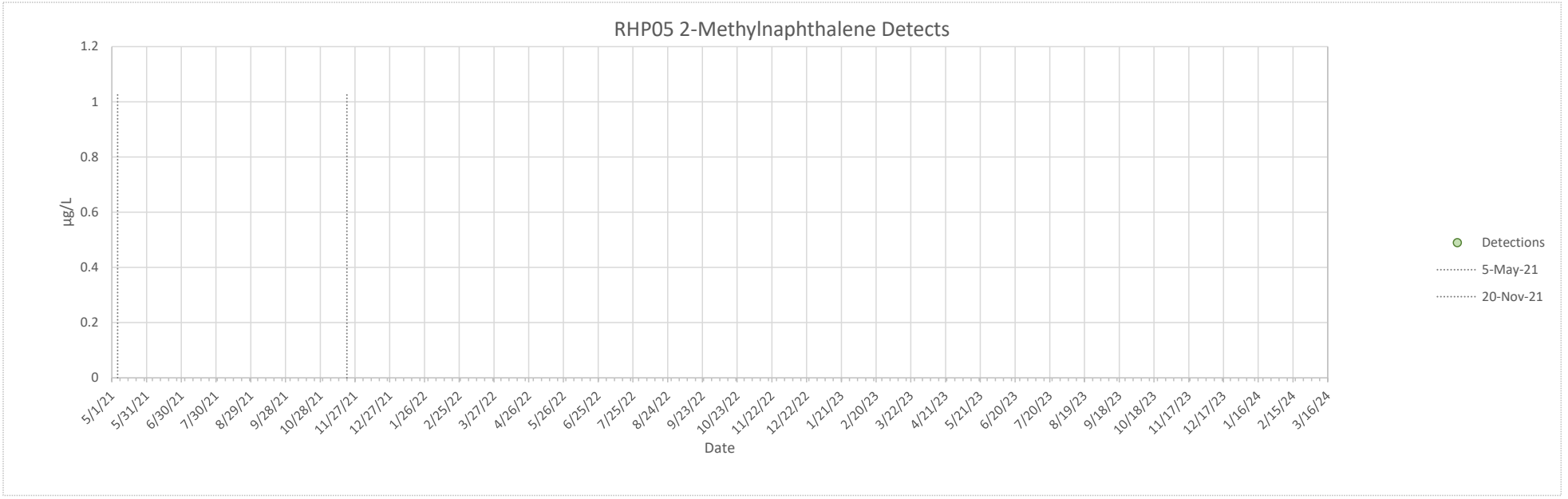

RHP02 2-Methylnaphthalene Detects
µg/L
1.2
1
0.8
0.6
0.4
0.2
0
5/1/21
5/31/21
6/30/21
7/30/21
8/29/21
9/28/21
10/28/21
11/27/21
12/27/21
1/26/22
2/25/22
3/27/22
4/26/22
5/26/22
6/25/22
7/25/22
8/24/22
9/23/22
10/23/22
11/22/22
12/22/22
1/21/23
2/20/23
3/22/23
4/21/23
5/21/23
6/20/23
7/20/23
8/19/23
9/18/23
10/18/23
11/17/23
12/17/23
1/16/24
2/15/24
Date
Detections
5-May-21
20-Nov-21

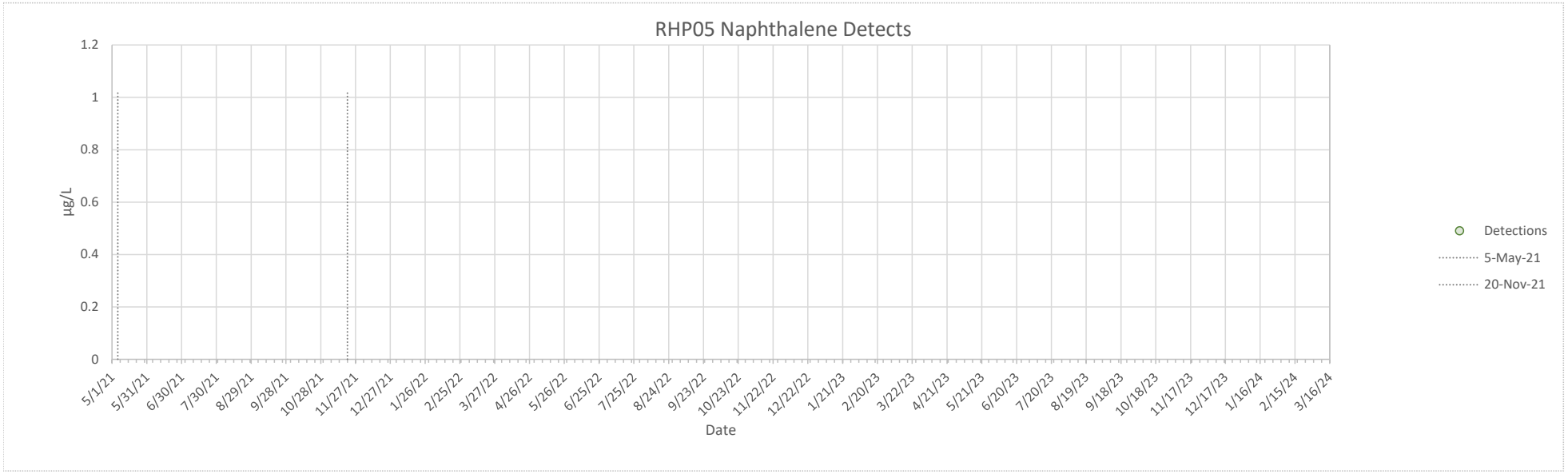

RHP02 Naphthalene Detects
µg/L
1.2
1
0.8
0.6
0.4
0.2
0
5/1/21
5/31/21
6/30/21
7/30/21
8/29/21
9/28/21
10/28/21
11/27/21
12/27/21
1/26/22
2/25/22
3/27/22
4/26/22
5/26/22
6/25/22
7/25/22
8/24/22
9/23/22
10/23/22
11/22/22
12/22/22
1/21/23
2/20/23
3/22/23
4/21/23
5/21/23
6/20/23
7/20/23
8/19/23
9/18/23
10/18/23
11/17/23
12/17/23
1/16/24
2/15/24
Date
Detections
5-May-21
20-Nov-21


RHP05 TPH-d Detects
µg/L
Date
400
Detections
EAL
5-May-21
20-Nov-21


RHP05 TPH-o Detects
µg/L
Date
500
Detections
EAL
5-May-21
20-Nov-21


RHP05 1-Methylnaphthalene Detects
µg/L
1.2
1
0.8
0.6
0.4
0.2
0
5/1/21
5/31/21
6/30/21
7/30/21
8/29/21
9/28/21
10/28/21
11/27/21
12/27/21
1/26/22
2/25/22
3/27/22
4/26/22
5/26/22
6/25/22
7/25/22
8/24/22
9/23/22
10/23/22
11/22/22
12/22/22
1/21/23
2/20/23
3/22/23
4/21/23
5/21/23
6/20/23
7/20/23
8/19/23
9/18/23
10/18/23
11/17/23
12/17/23
1/16/24
2/15/24
3/16/24
Date
Detections
5-May-21
20-Nov-21


RHP05 2-Methylnaphthalene Detects
µg/L
1.2
1
0.8
0.6
0.4
0.2
0
5/1/21
5/31/21
6/30/21
7/30/21
8/29/21
9/28/21
10/28/21
11/27/21
12/27/21
1/26/22
2/25/22
3/27/22
4/26/22
5/26/22
6/25/22
7/25/22
8/24/22
9/23/22
10/23/22
11/22/22
12/22/22
1/21/23
2/20/23
3/22/23
4/21/23
5/21/23
6/20/23
7/20/23
8/19/23
9/18/23
10/18/23
11/17/23
12/17/23
1/16/24
2/15/24
3/16/24
Date
Detections
5-May-21
20-Nov-21


RHP05 Naphthalene Detects
µg/L
1.2
1
0.8
0.6
0.4
0.2
0
5/1/21
5/31/21
6/30/21
7/30/21
8/29/21
9/28/21
10/28/21
11/27/21
12/27/21
1/26/22
2/25/22
3/27/22
4/26/22
5/26/22
6/25/22
7/25/22
8/24/22
9/23/22
10/23/22
11/22/22
12/22/22
1/21/23
2/20/23
3/22/23
4/21/23
5/21/23
6/20/23
7/20/23
8/19/23
9/18/23
10/18/23
11/17/23
12/17/23
1/16/24
2/15/24
3/16/24
Date
Detections
5-May-21
20-Nov-21

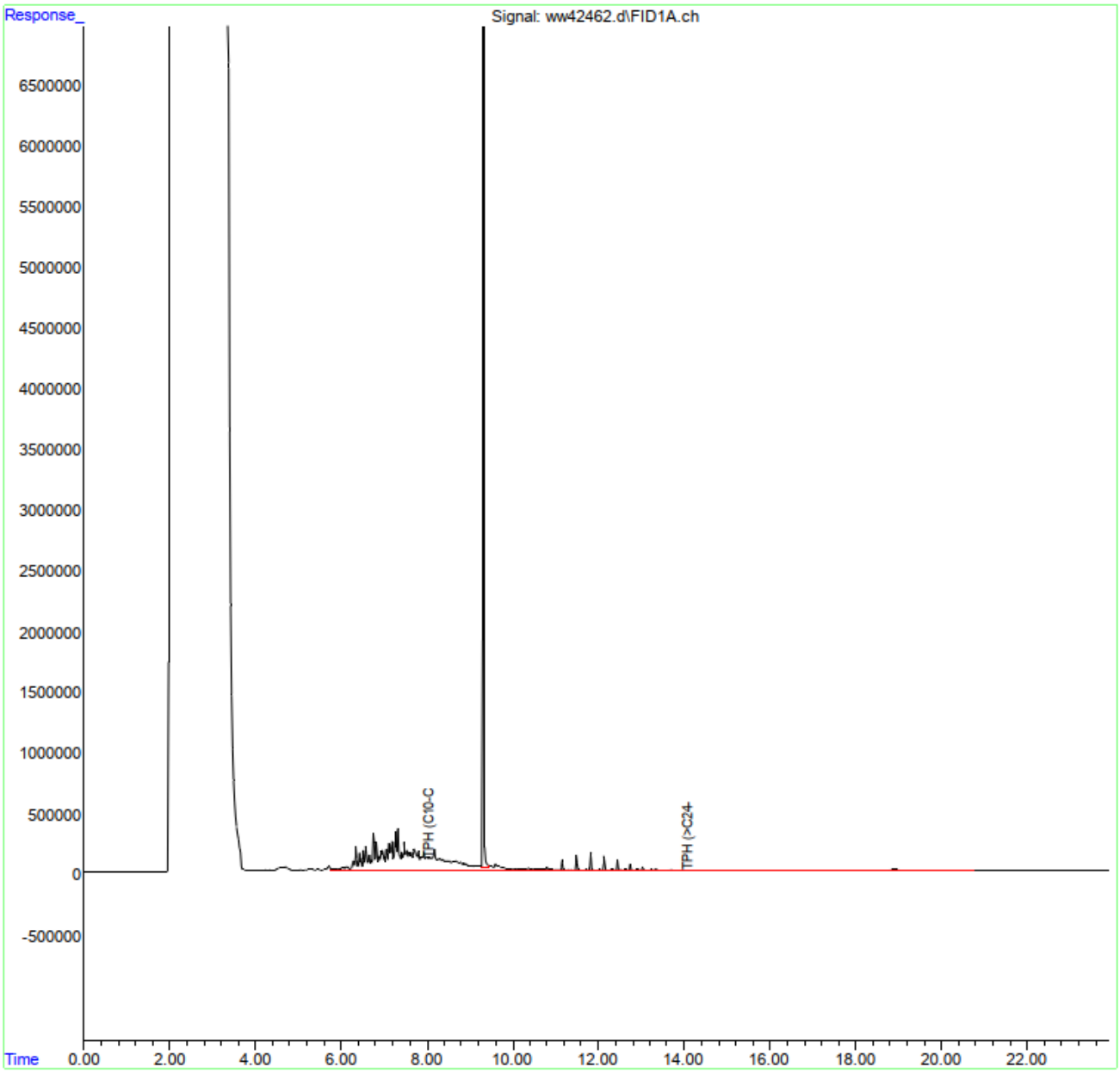
Appendix B.5 – Chromatograms for Groundwater Detections and Exceedances

Location: **RHMW01R** Sample ID: RHMW01R-WGN01LF-2309 Sample Date: 9/5/2023

Lab: SGS

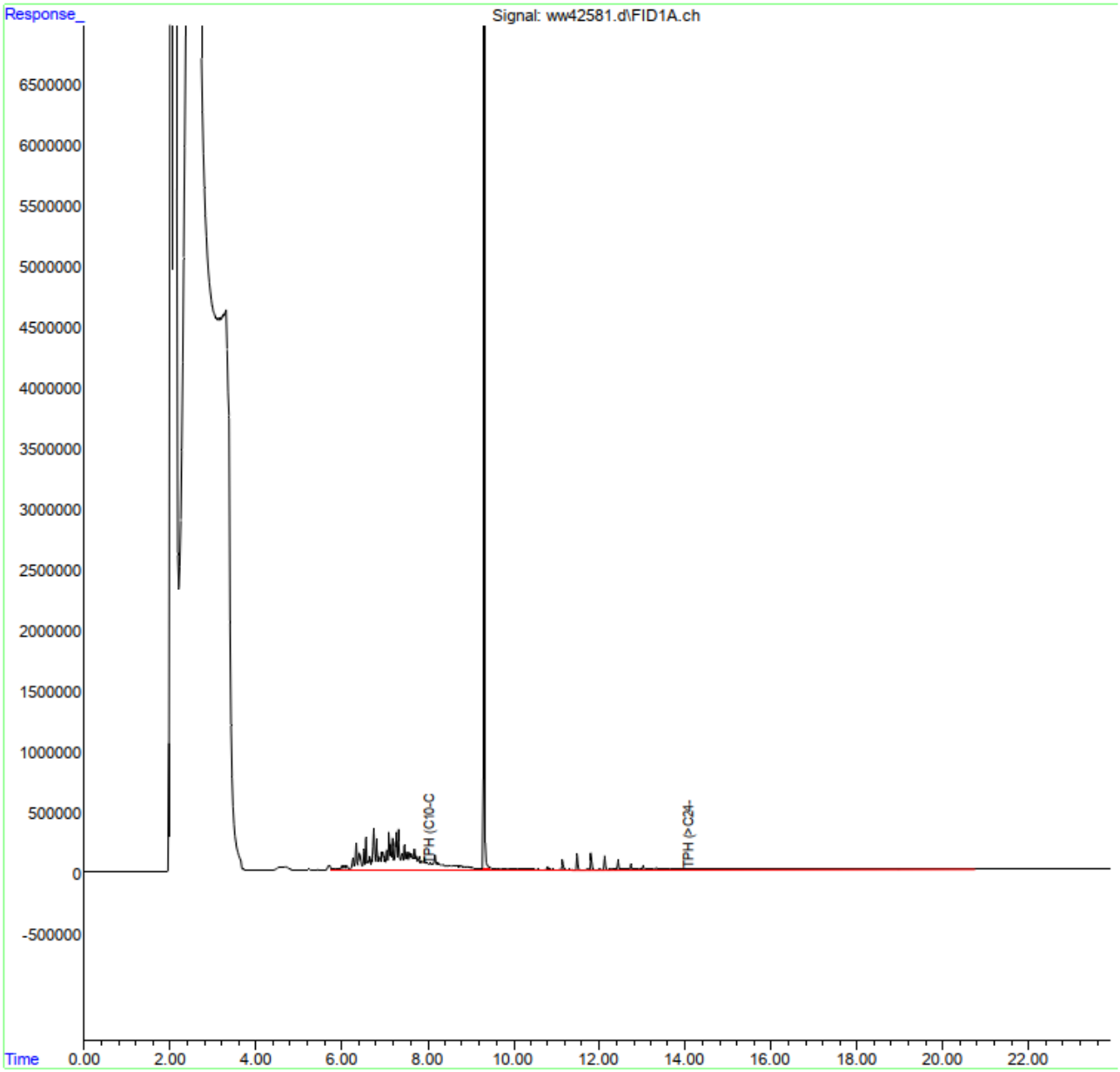
Results (ug/L): **TPH-d (C10 to C24) 158 J** **TPH-o (C24 to C40) <160 U**

```
Quant Time: Sep 15 11:13:31 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 125 J** **TPH-o SGC (C24 to C40) <160 U**

```
Quant Time: Sep 19 10:32:54 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

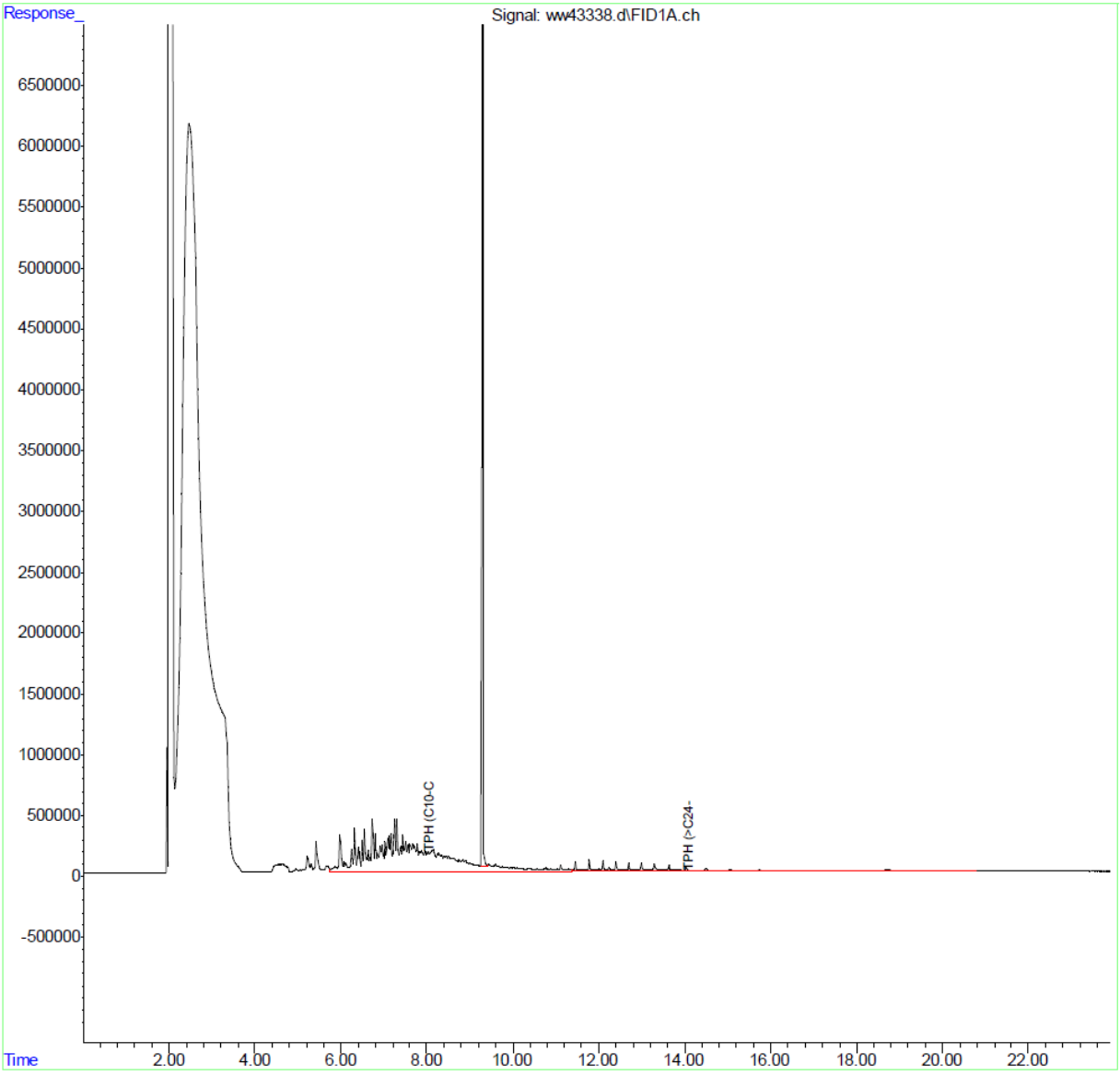


Location: **RHMW01R** Sample ID: RHMW01R-WGN01LF-2310 Sample Date: 10/4/2023

Lab: Energy

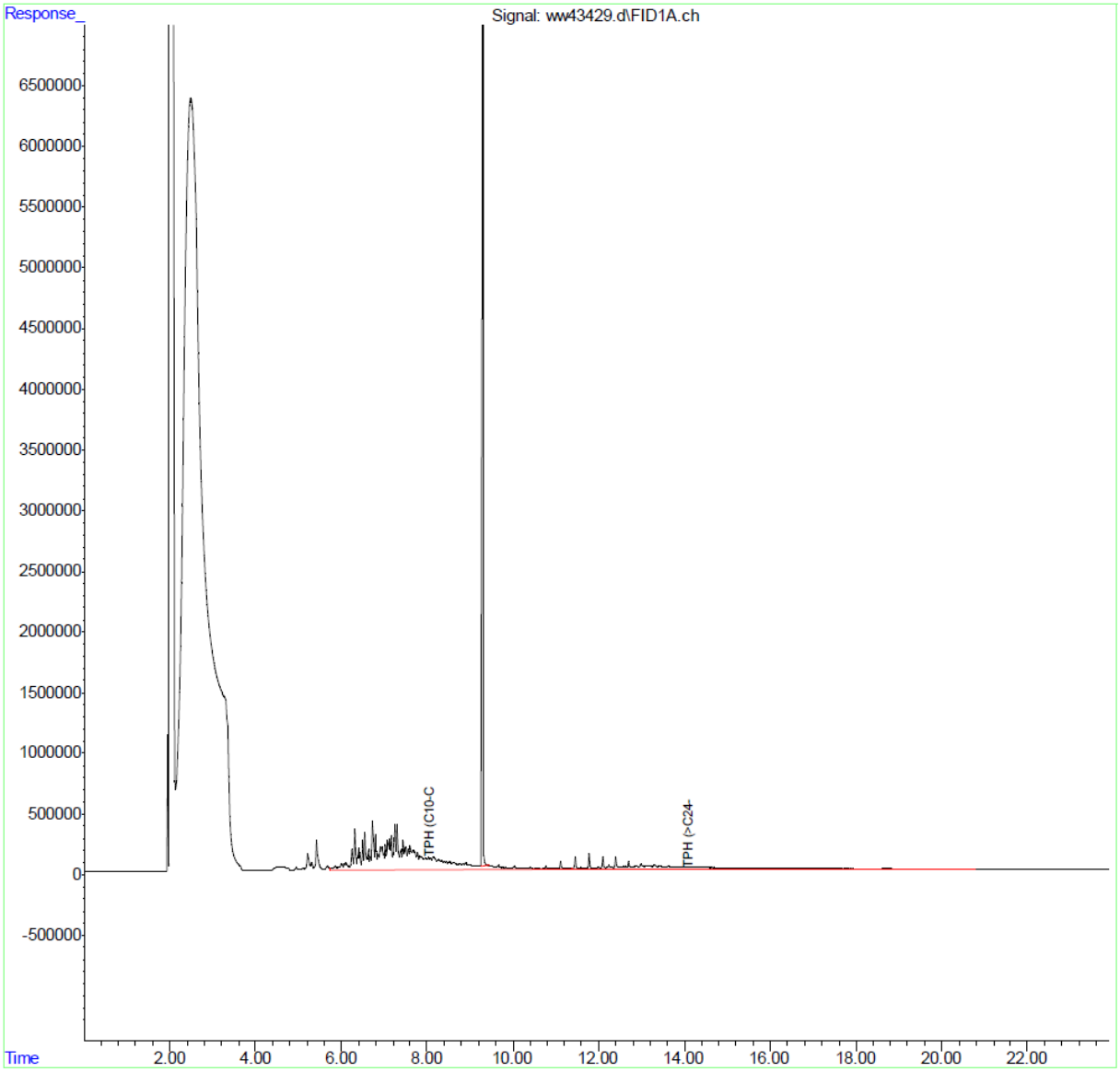
Results (ug/L): **TPH-d (C10 to C24) 242** **TPH-o (C24 to C40) <160 U**

```
Quant Time: Oct 16 11:41:44 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



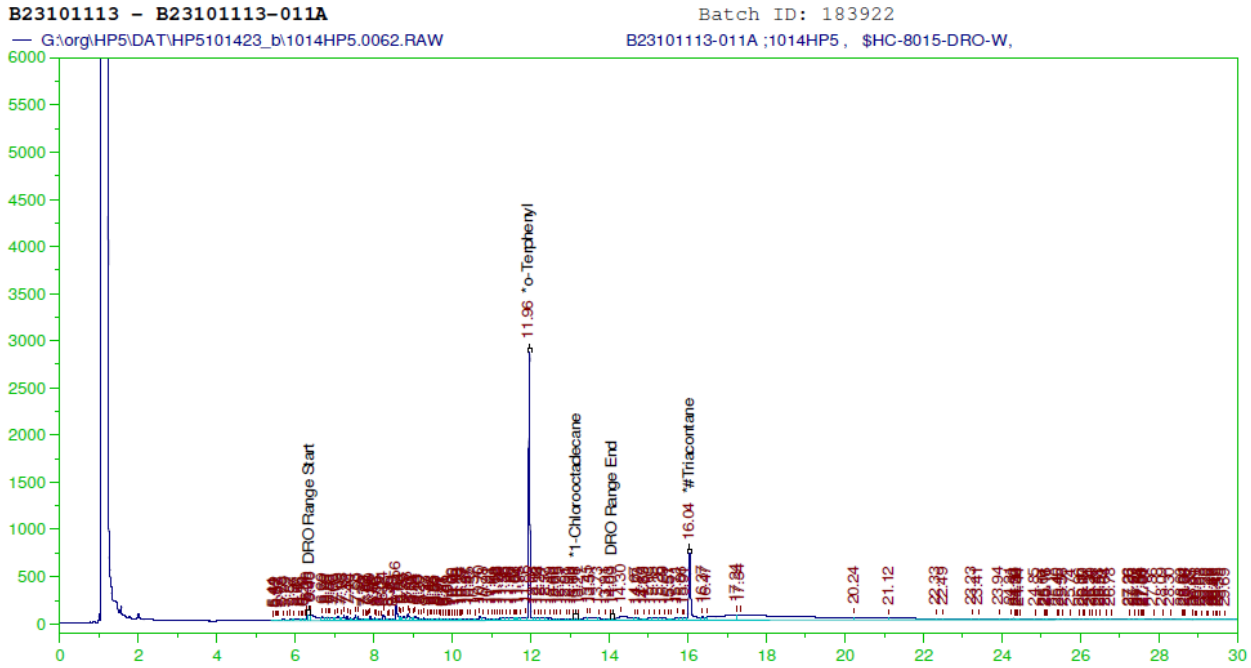
Results (ug/L): **TPH-d SGC (C10 to C24) 168 J** **TPH-o SGC (C24 to C40) <160 U**

```
Quant Time: Oct 17 14:12:06 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

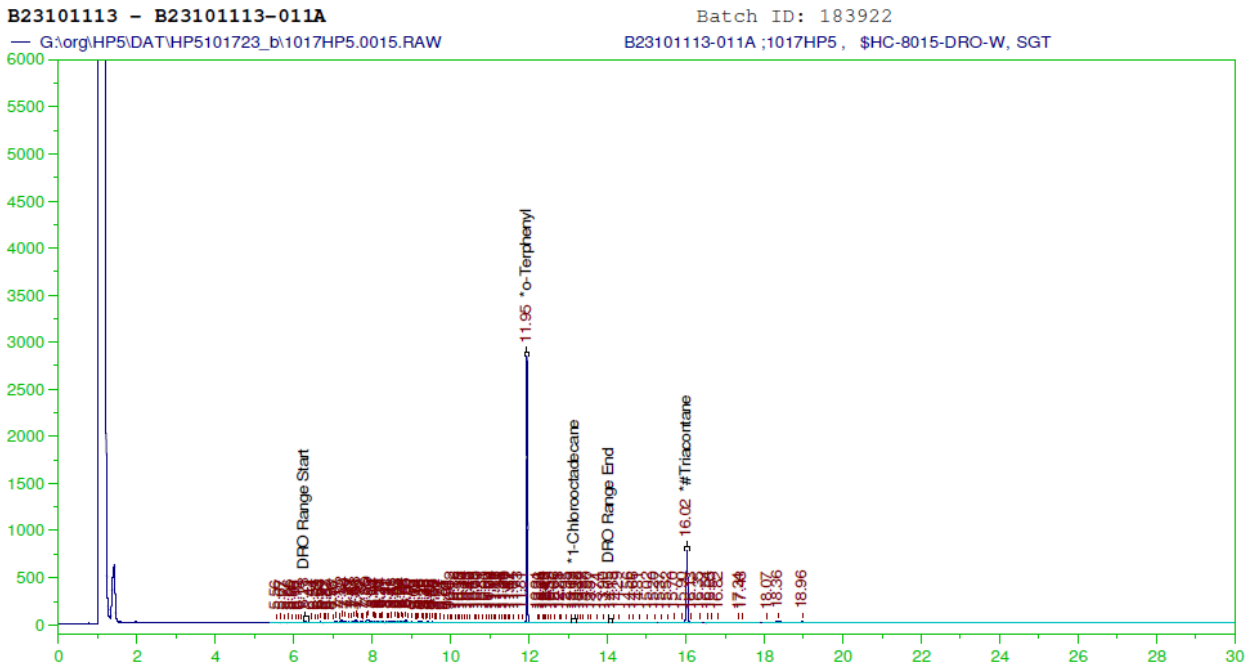


Location: **RHMW01R** Sample ID: RHMW01R-WGN01LF-23Q4 Sample Date: 10/12/2023
Lab: Energy

Results (ug/L): **TPH-d (C10 to C24) 385** **TPH-o (C24 to C40) 545**



Results (ug/L): **TPH-d SGC (C10 to C24) 85.3 J** **TPH-o SGC (C24 to C40) <141 U**

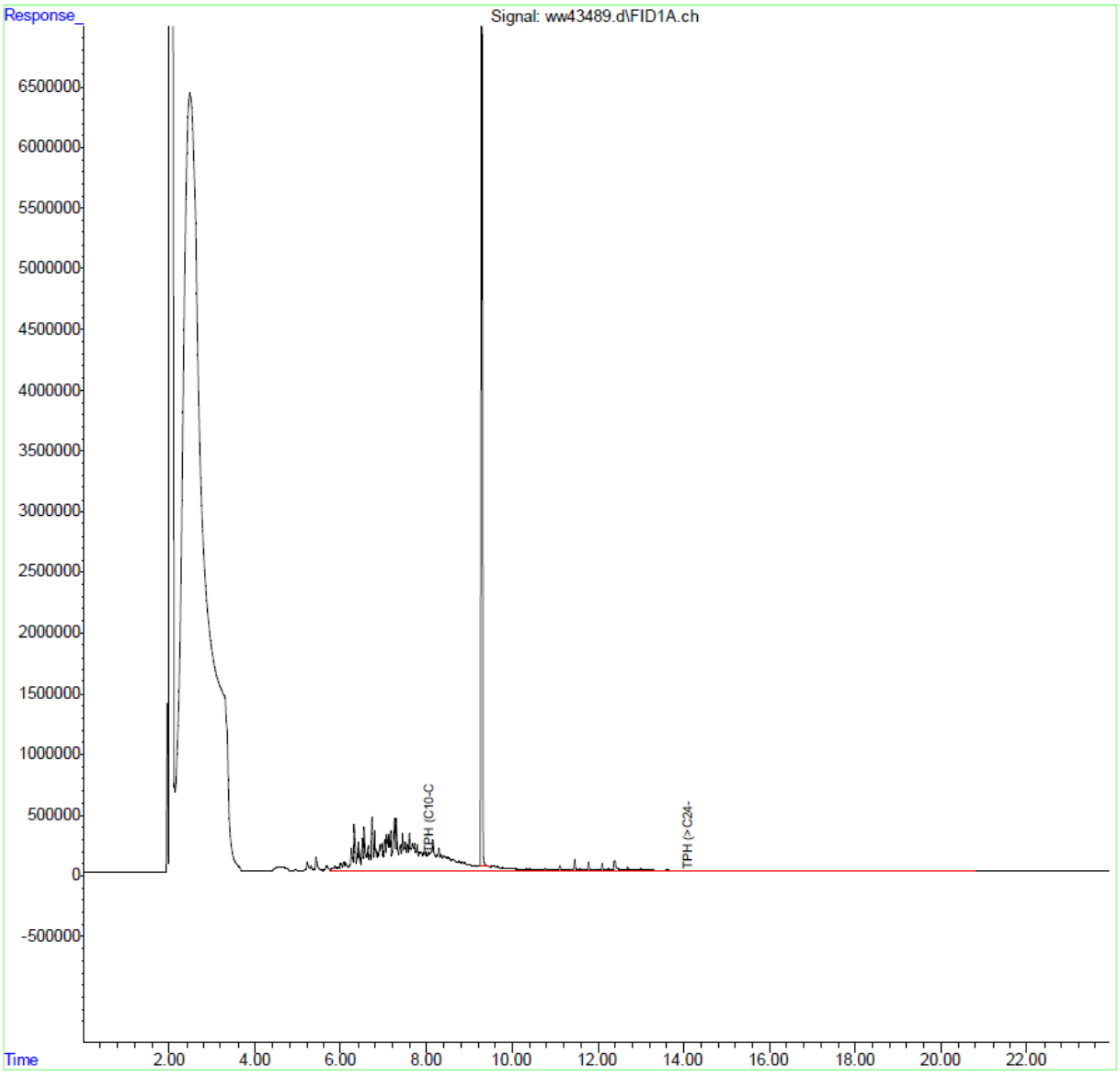


Location: **RHMW01R** Sample ID: RHMW01R-WGN01LF-2310WK3-DF Sample Date: 10/17/2023

Lab: SGS

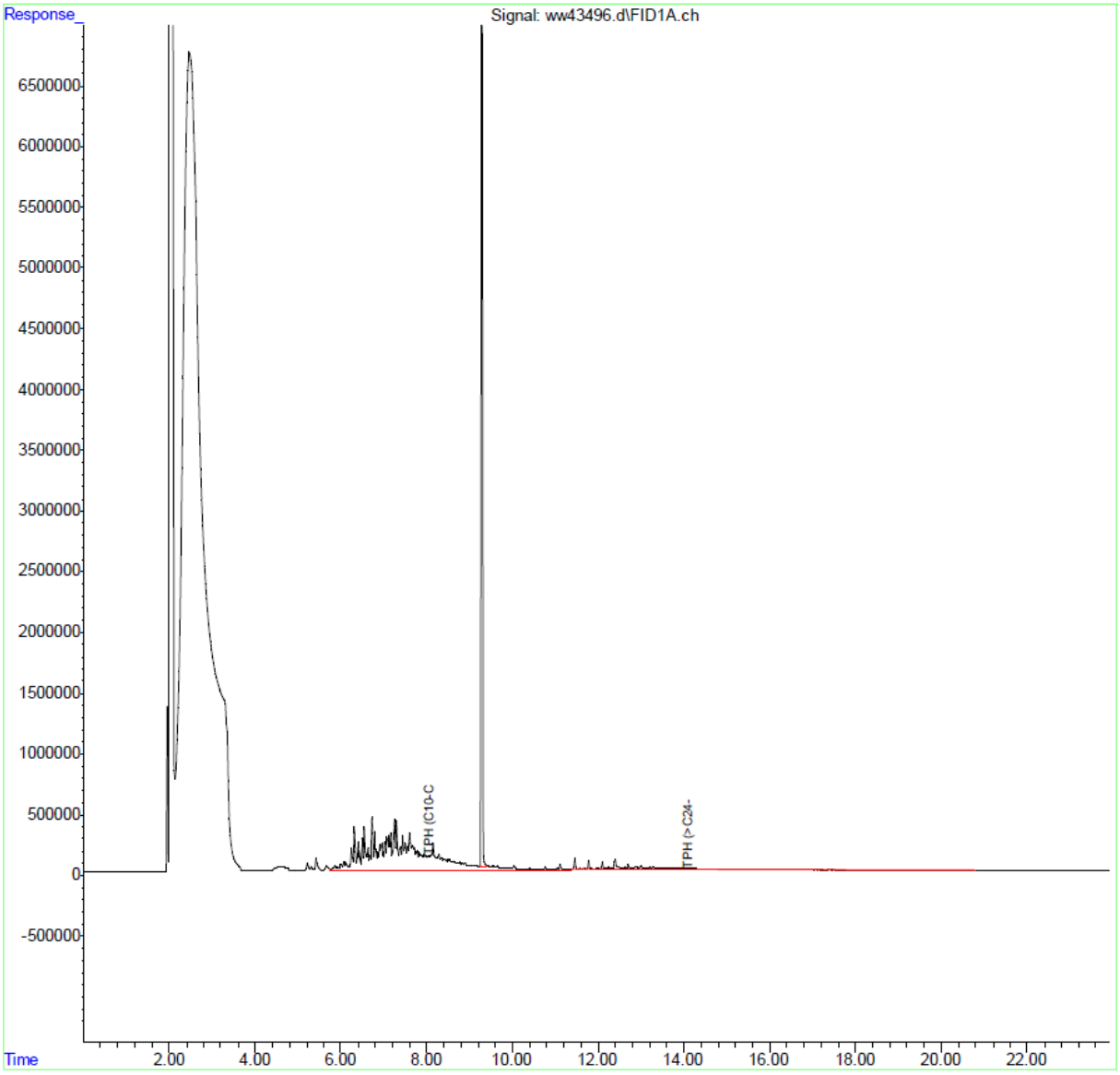
Results (ug/L): **TPH-d (C10 to C24) 233** **TPH-o (C24 to C40) <160 U**

```
Quant Time: Oct 19 14:50:44 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 220** **TPH-o SGC (C24 to C40) <160 U**

```
Quant Time: Oct 20 11:20:55 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

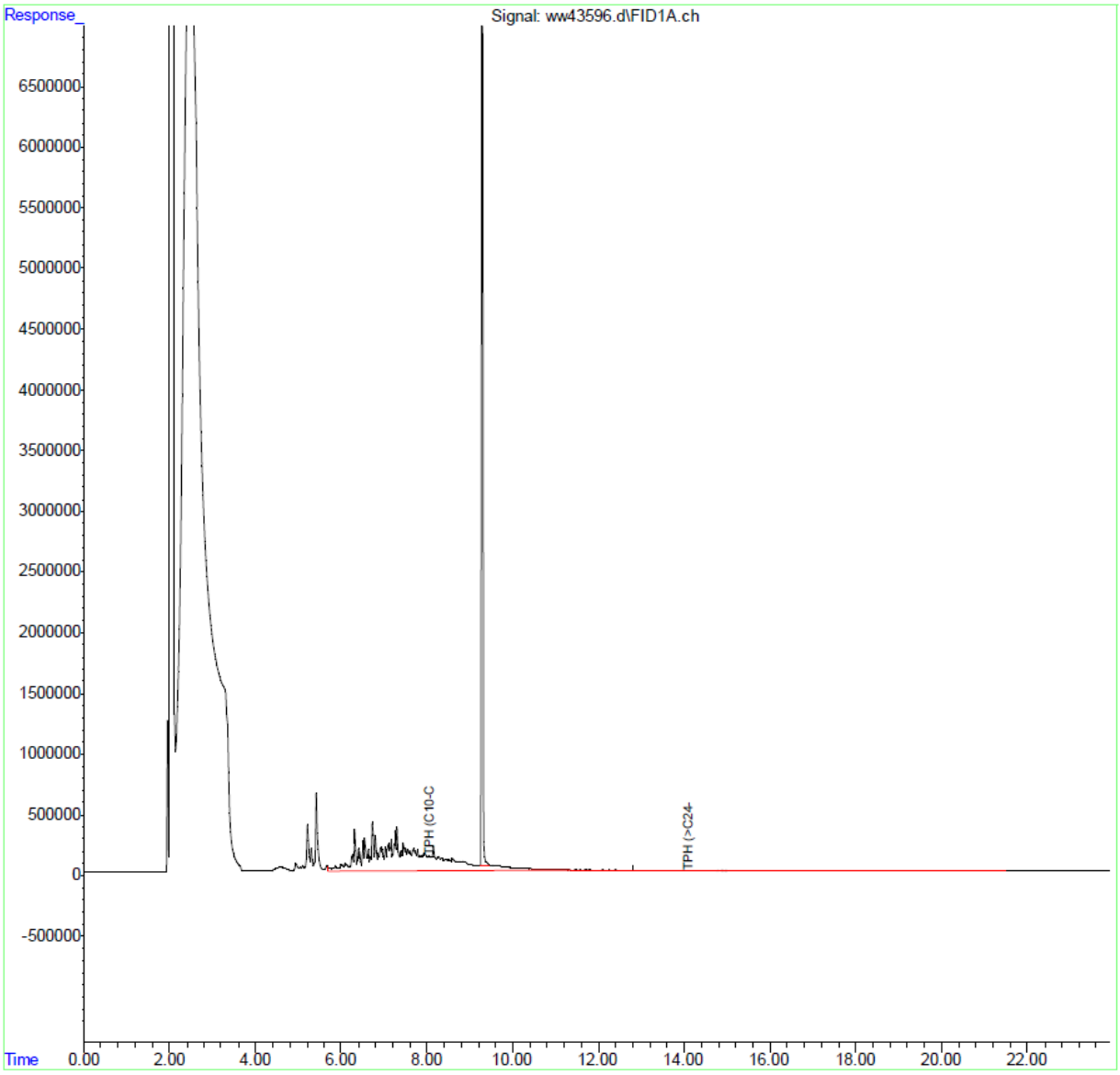


Location: **RHMW01R** Sample ID: RHMW01R-WGN01LF-2310WK4-DF Sample Date: 10/24/2023

Lab: SGS

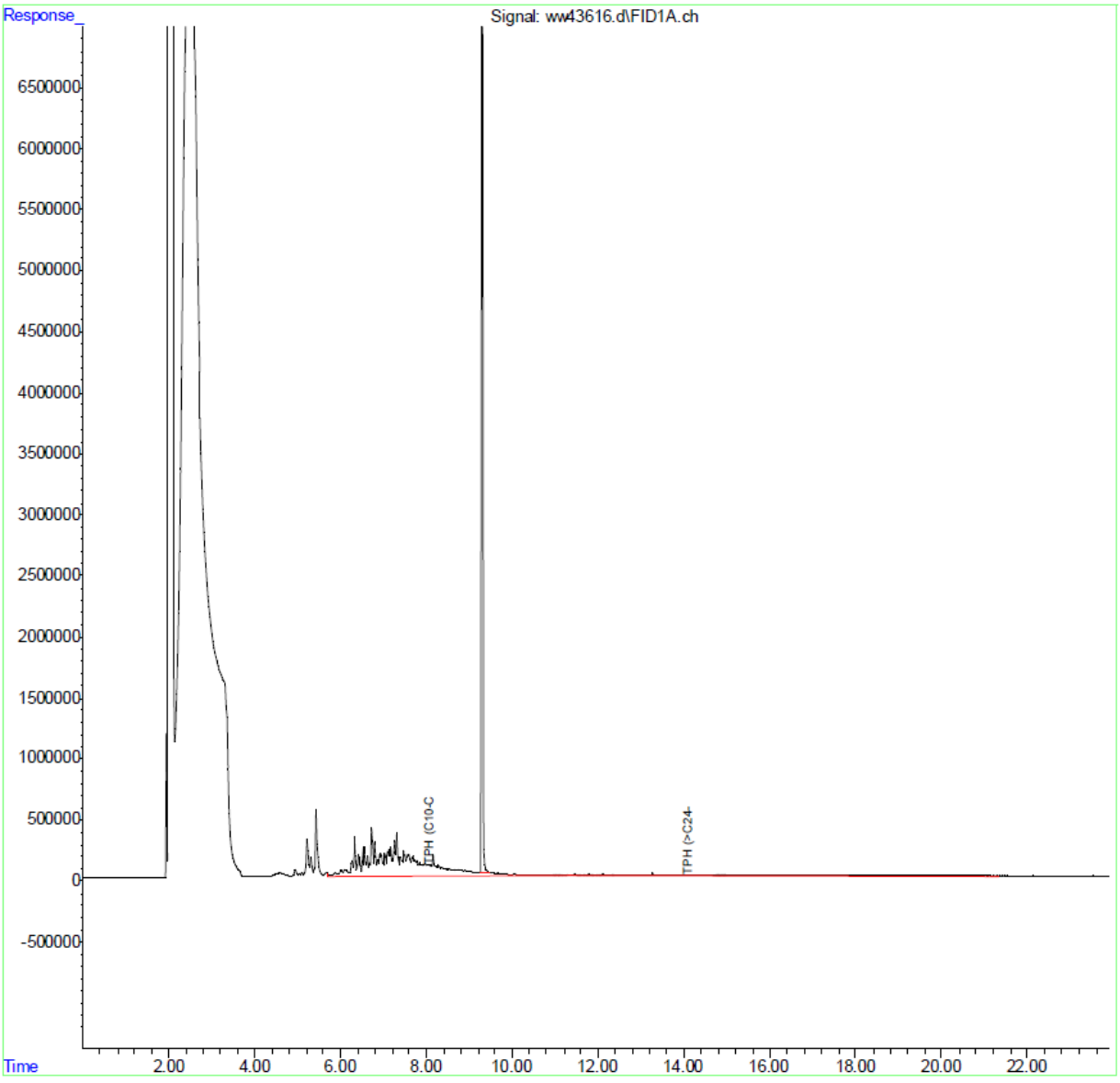
Results (ug/L): **TPH-d (C10 to C24) 202 J** **TPH-o (C24 to C40) <170 U**

```
Quant Time: Oct 27 10:09:03 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 167 J** **TPH-o SGC (C24 to C40) <170 U**

```
Quant Time: Oct 27 15:03:21 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

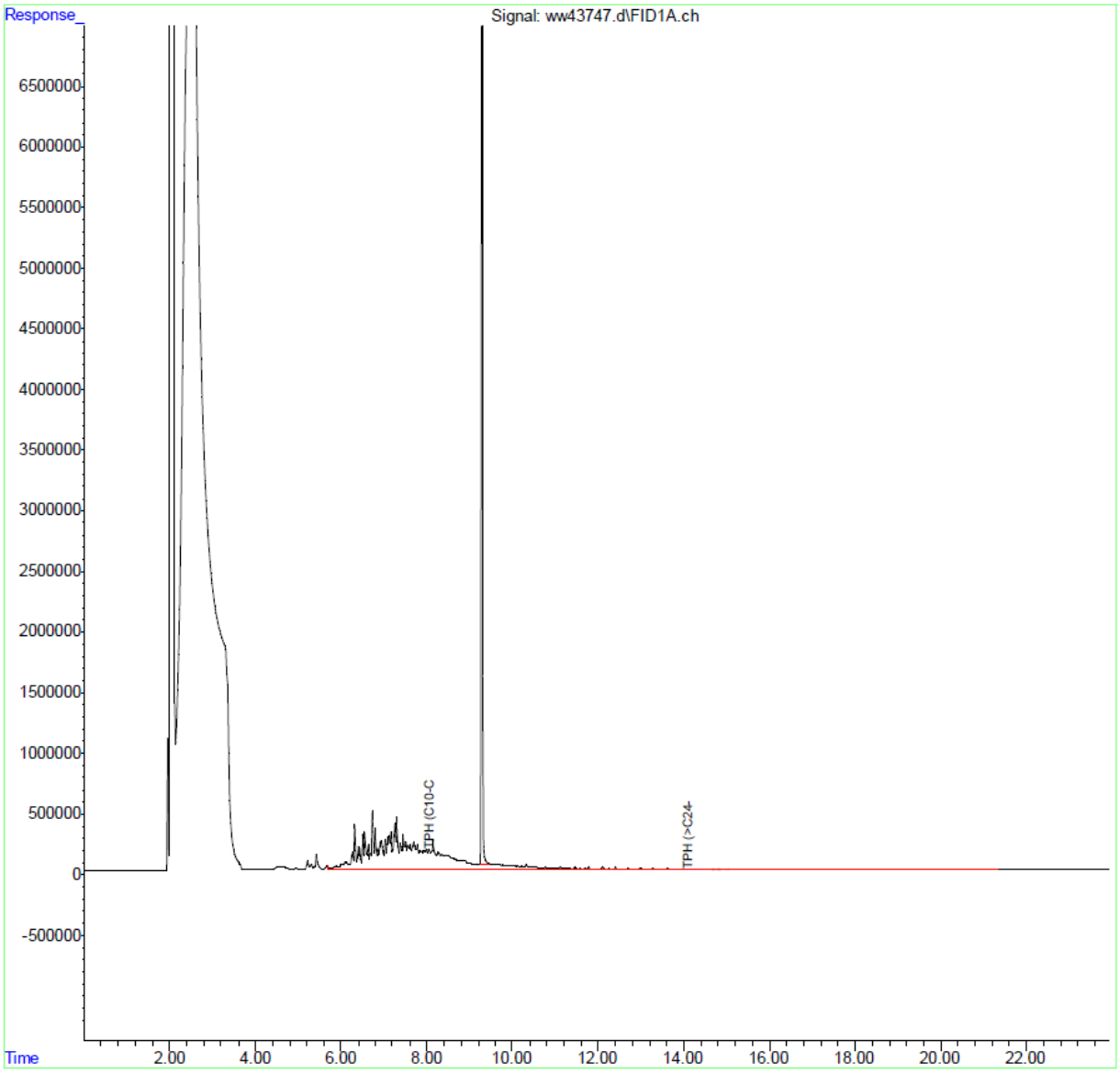


Location: **RHMW01R** Sample ID: RHMW01R-WGN01LF-2310WK5-DF Sample Date: 10/31/2023

Lab: SGS

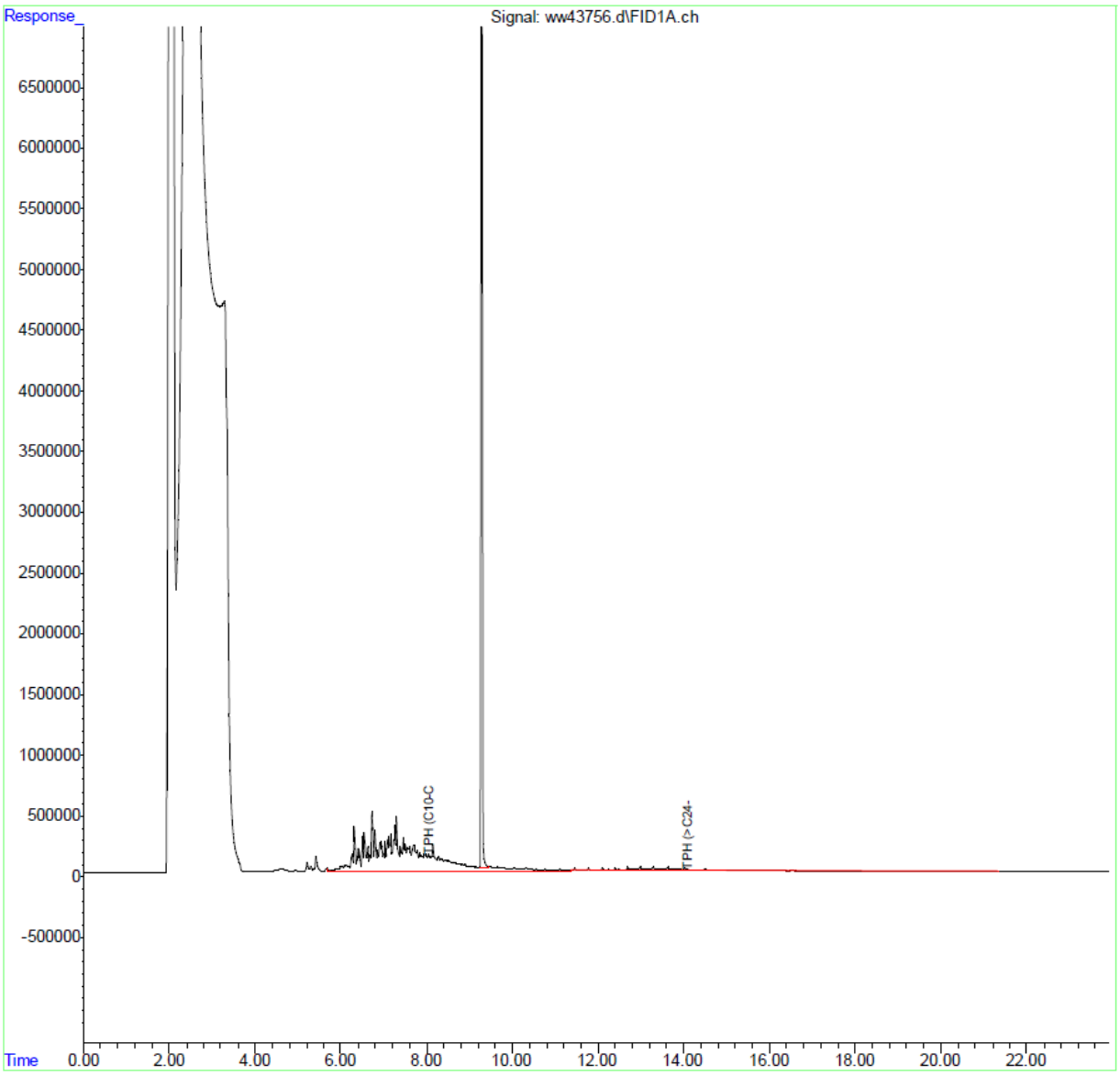
Results (ug/L): **TPH-d (C10 to C24) 247** **TPH-o (C24 to C40) <170 U**

```
Quant Time: Nov 03 09:58:02 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 233** **TPH-o SGC (C24 to C40) <170 U**

```
Quant Time: Nov 03 10:16:43 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

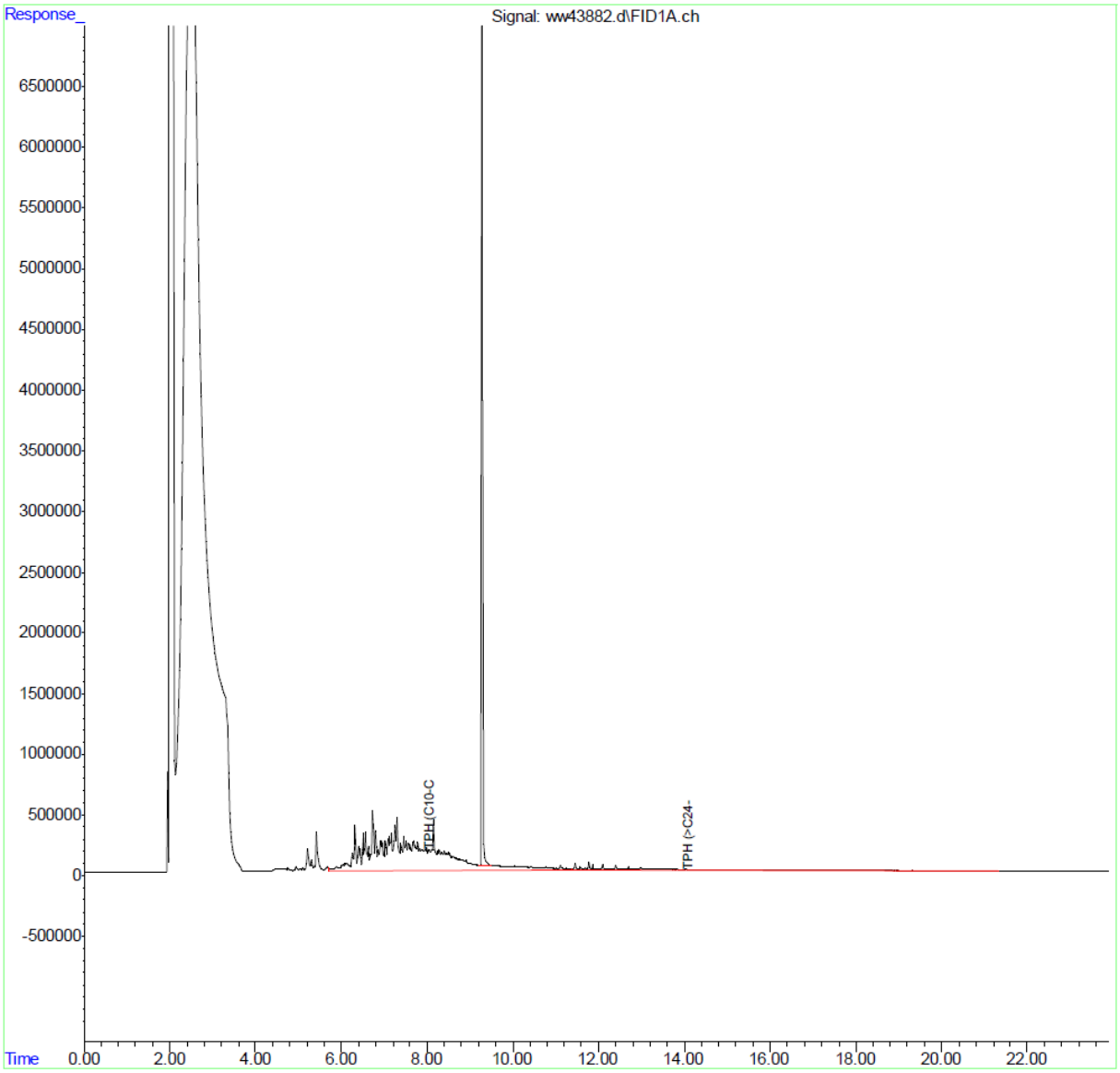


Location: **RHMW01R** Sample ID: RHMW01R-WGN01LF-2311-DF Sample Date: 11/6/2023

Lab: SGS

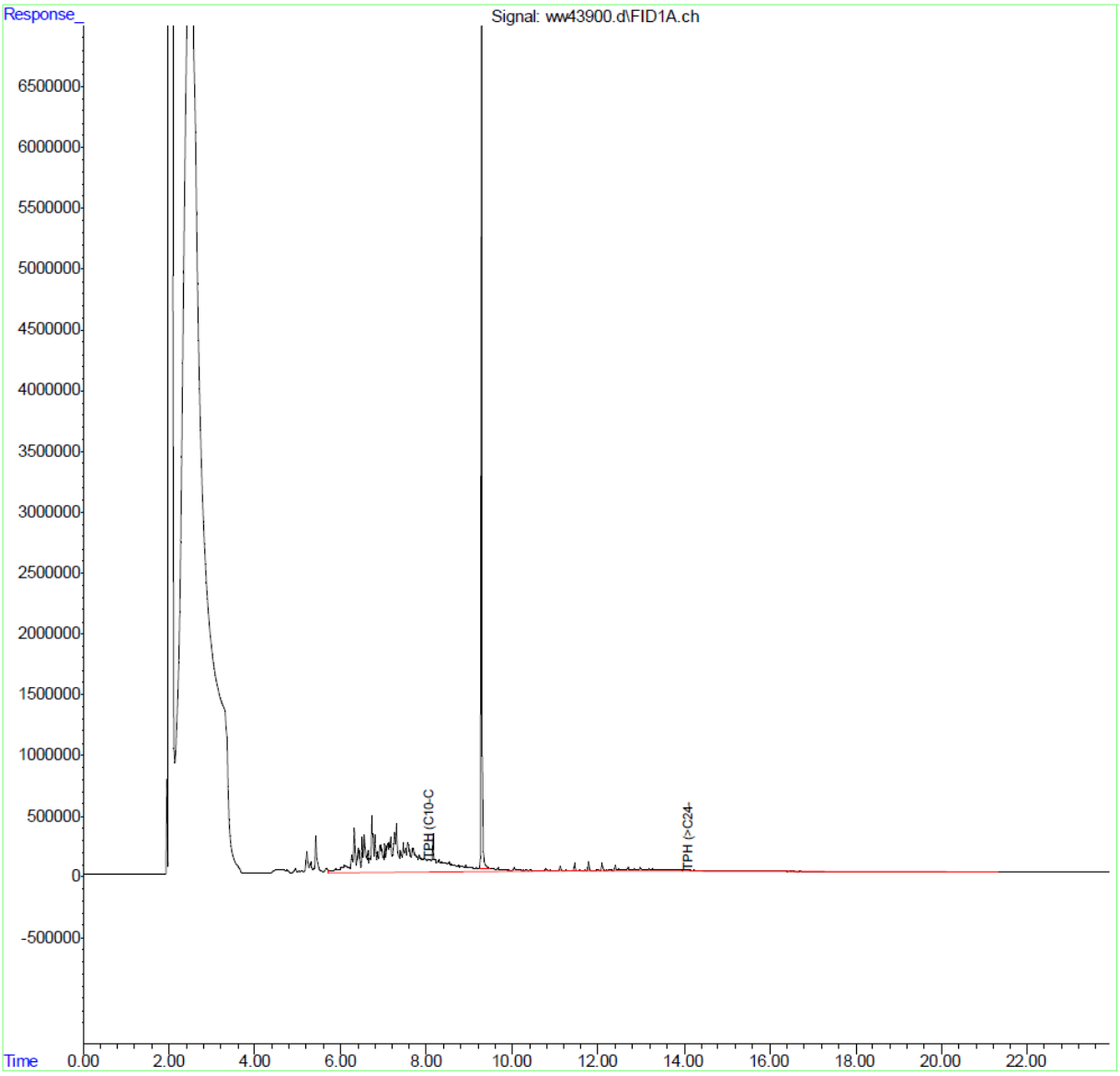
Results (ug/L): **TPH-d (C10 to C24) 260** **TPH-o (C24 to C40) <170 U**

```
Quant Time: Nov 09 10:00:55 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 194 J** **TPH-o SGC (C24 to C40) <170 U**

```
Quant Time: Nov 09 15:51:11 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

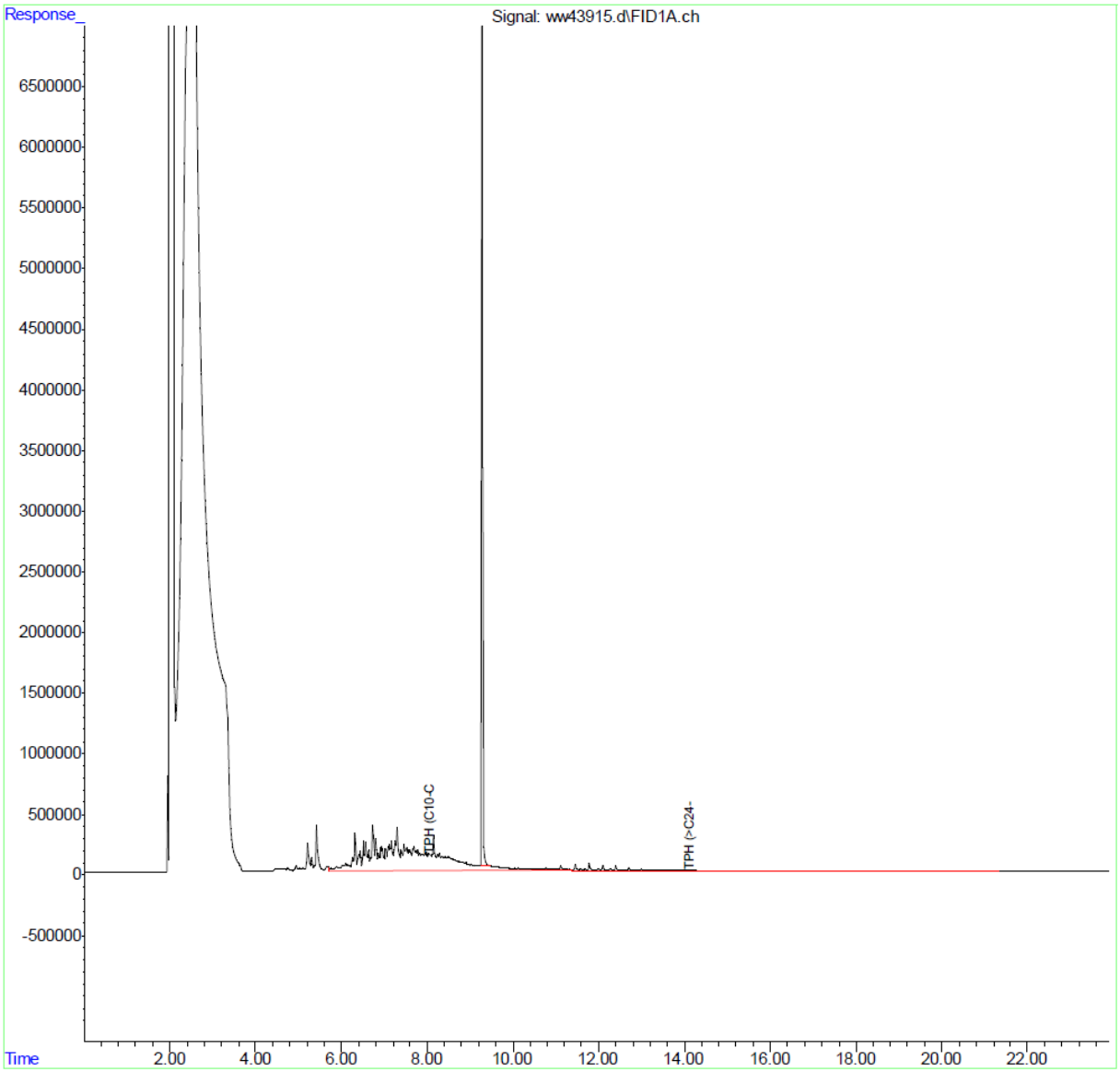


Location: **RHMW01R** Sample ID: RHMW01R-WGN01LF-2311 Sample Date: 11/7/2023

Lab: SGS

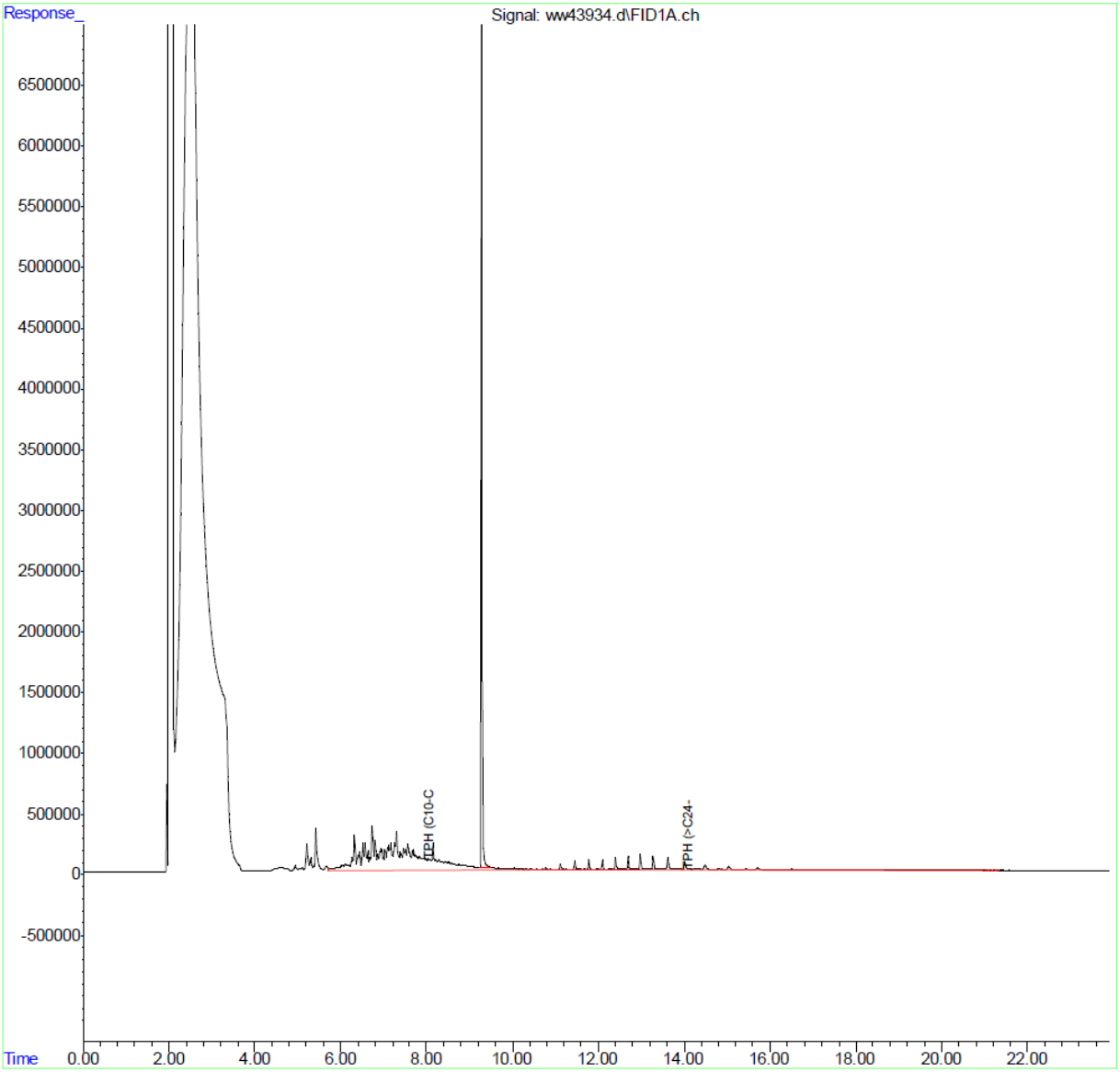
Results (ug/L): **TPH-d (C10 to C24) 200 J** **TPH-o (C24 to C40) <170 U**

```
Quant Time: Nov 10 09:42:04 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 161 J** **TPH-o SGC (C24 to C40) <170 U**

```
Quant Time: Nov 10 11:18:31 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

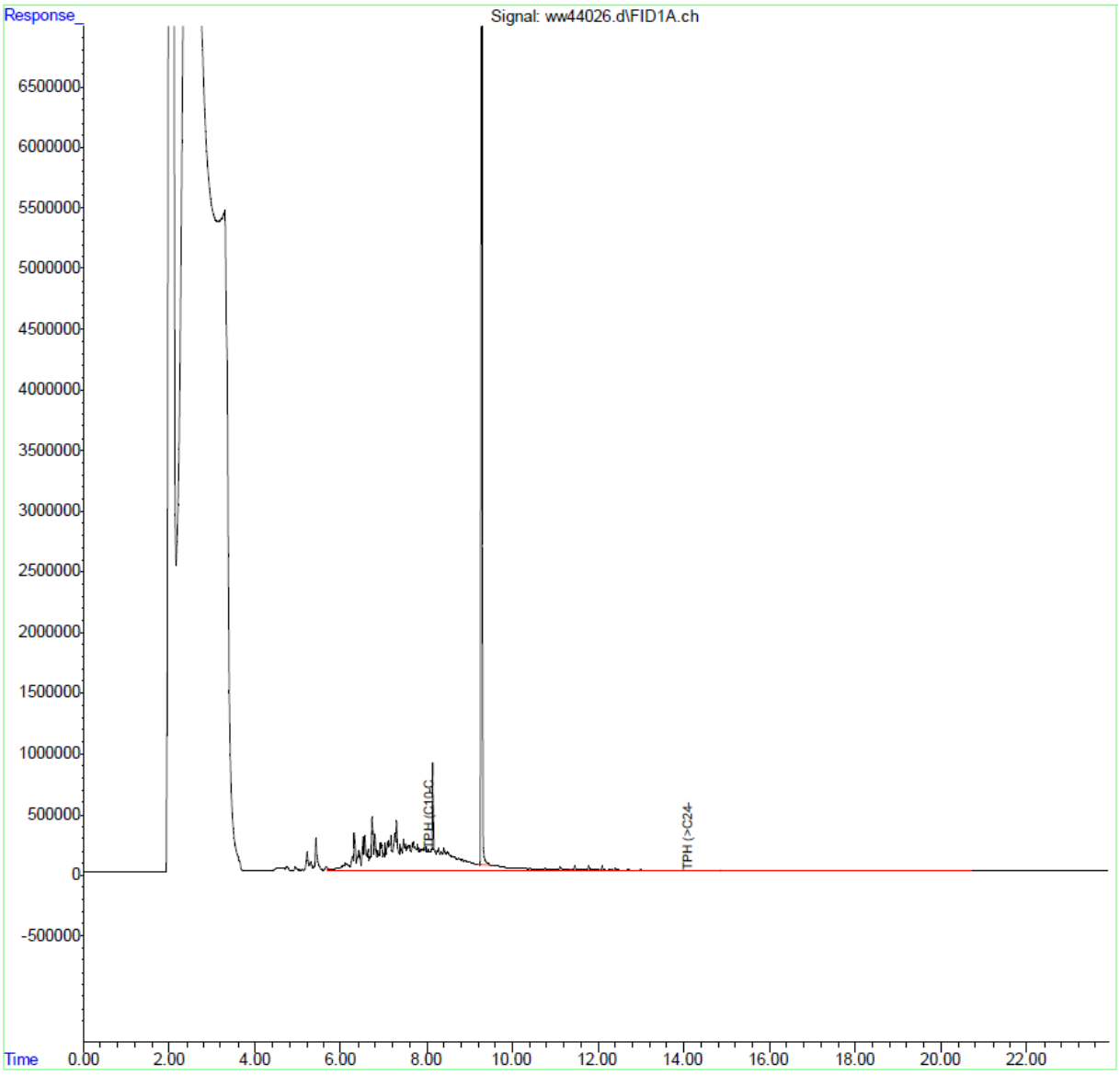


Location: **RHMW01R** Sample ID: RHMW01R-WGN01LF-2311WK2-DF Sample Date: 11/13/2023

Lab: SGS

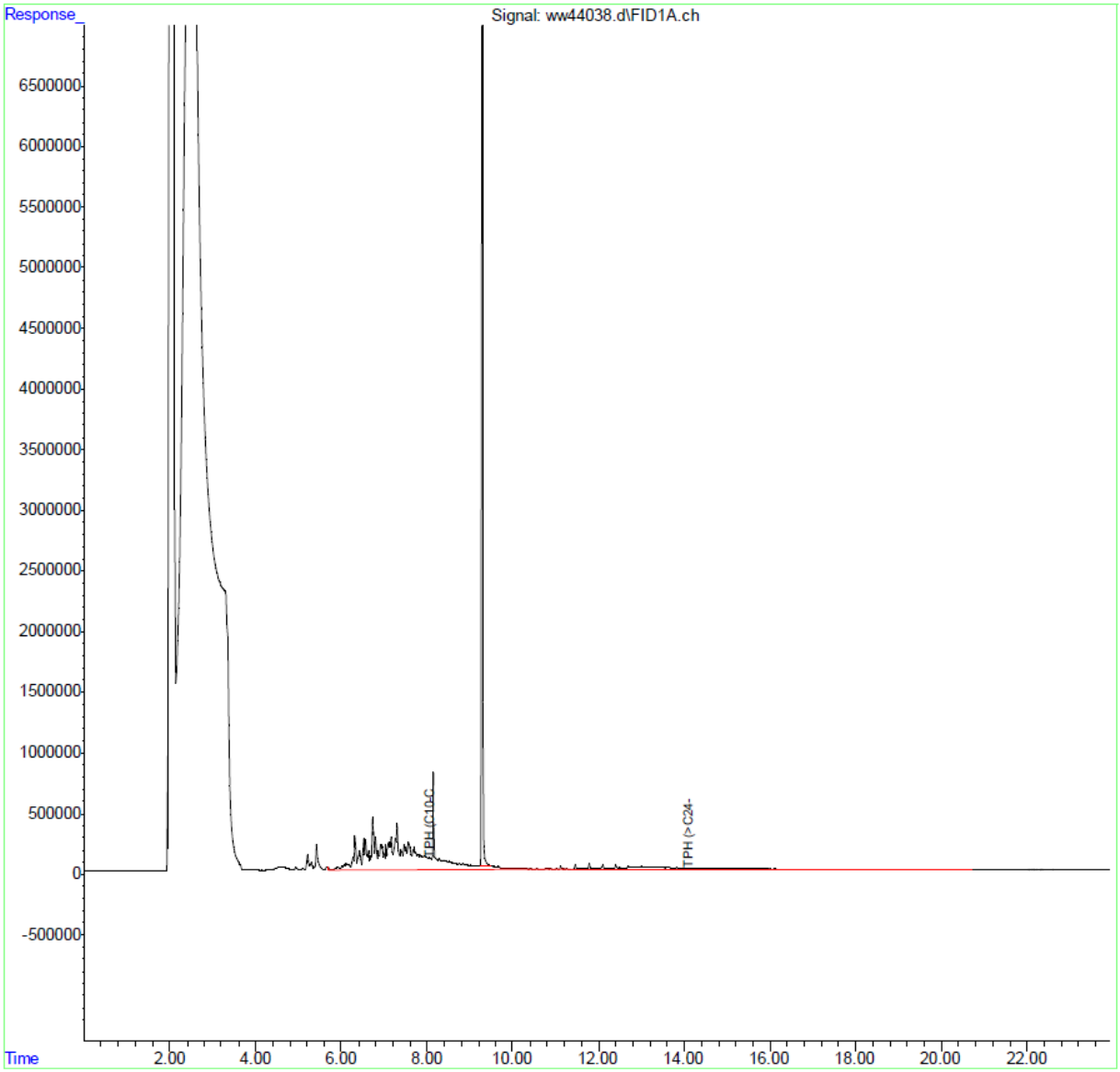
Results (ug/L): **TPH-d (C10 to C24) 253** **TPH-o (C24 to C40) <170 U**

```
Quant Time: Nov 15 15:55:56 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 180 J** **TPH-o SGC (C24 to C40) <170 U**

```
Quant Time: Nov 16 08:42:02 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

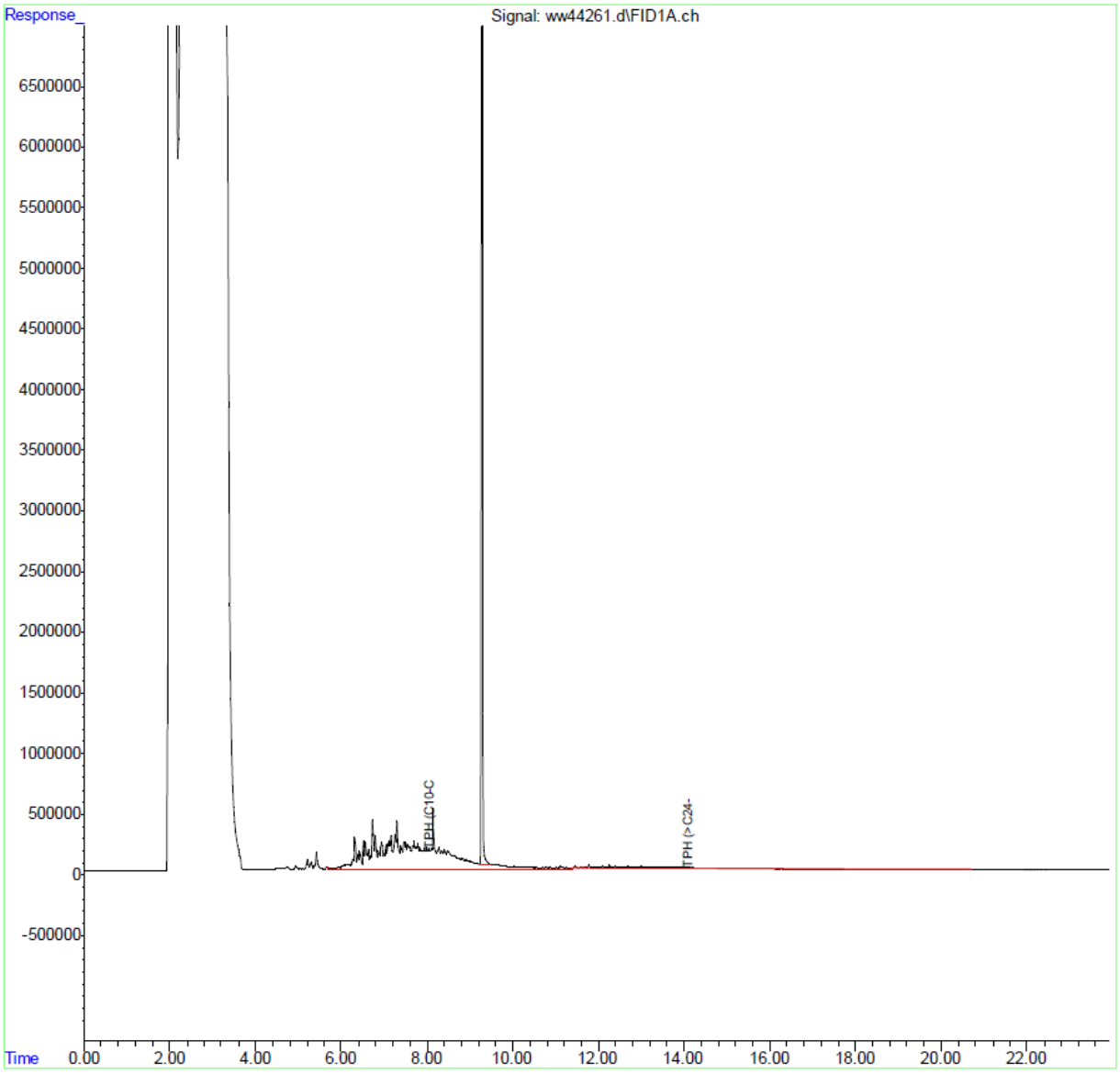


Location: **RHMW01R** Sample ID: RHMW01R-WGN01LF-2311WK3-DF Sample Date: 11/24/2023

Lab: SGS

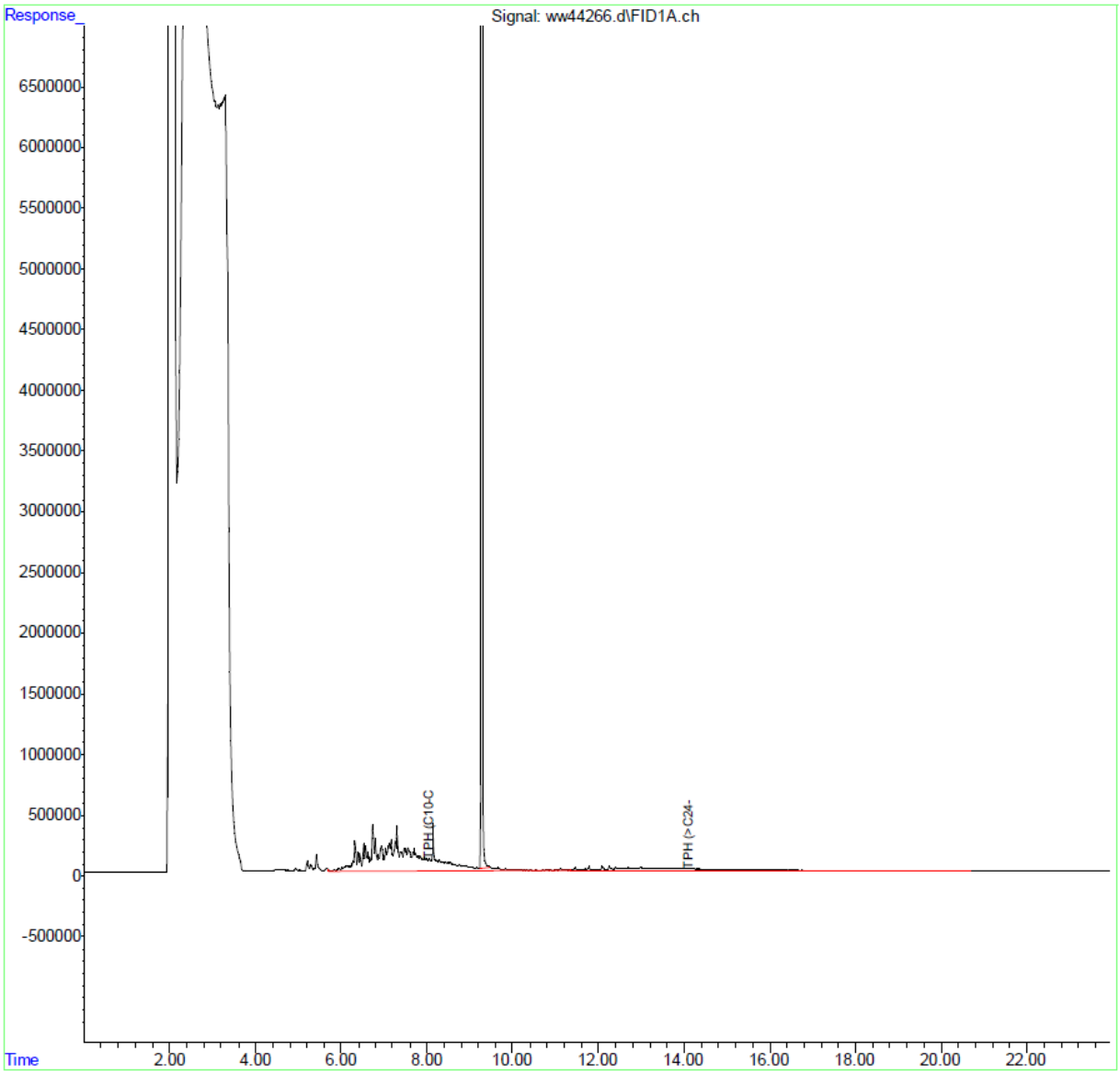
Results (ug/L): **TPH-d (C10 to C24) 244** **TPH-o (C24 to C40) <170 U**

```
Quant Time: Nov 27 13:20:24 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 168 J** **TPH-o SGC (C24 to C40) <170 U**

```
Quant Time: Nov 27 16:07:57 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

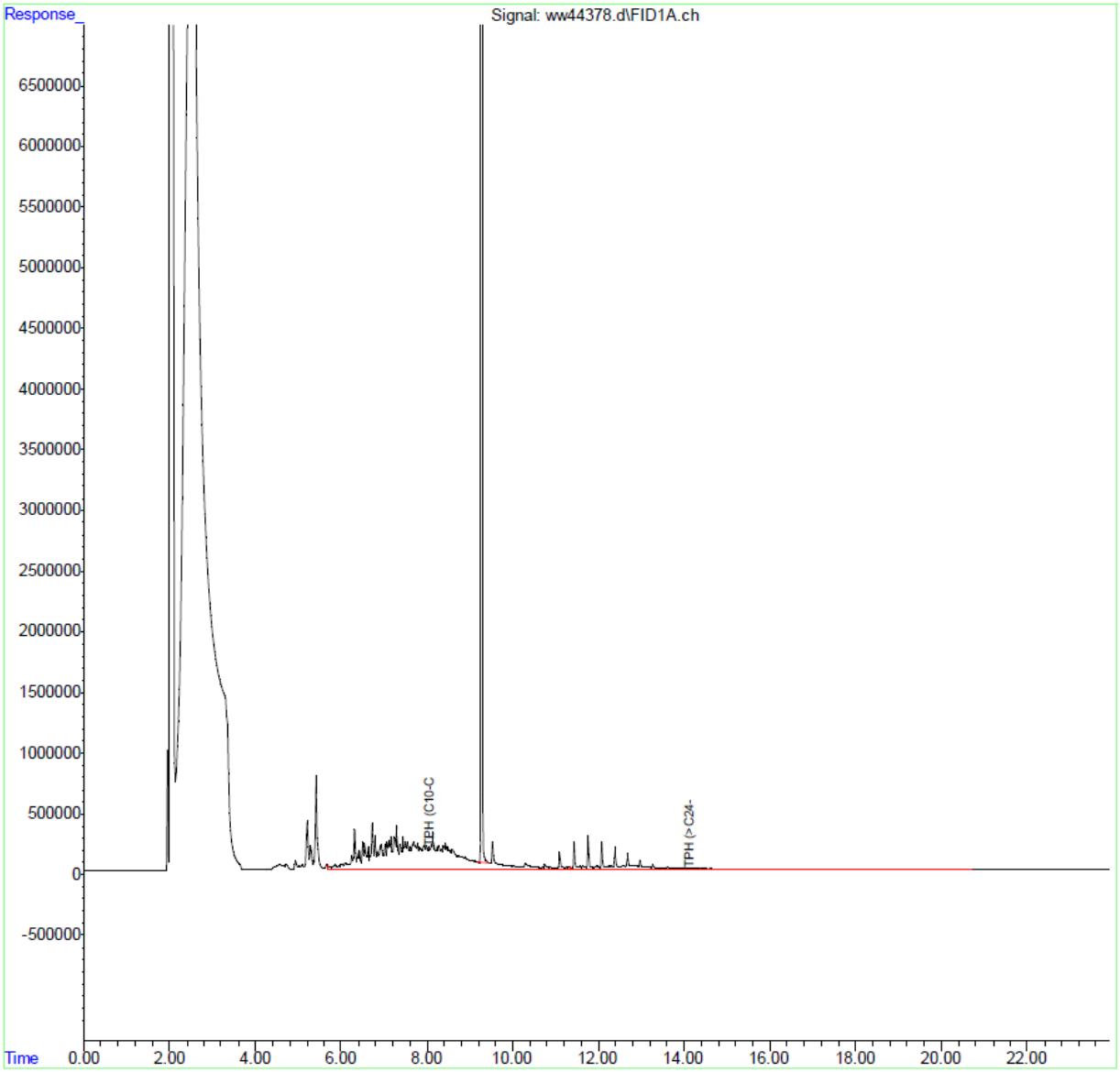


Location: **RHMW01R** Sample ID: RHMW01R-WGN01LF-2311WK4-DF Sample Date: 12/1/2023

Lab: SGS

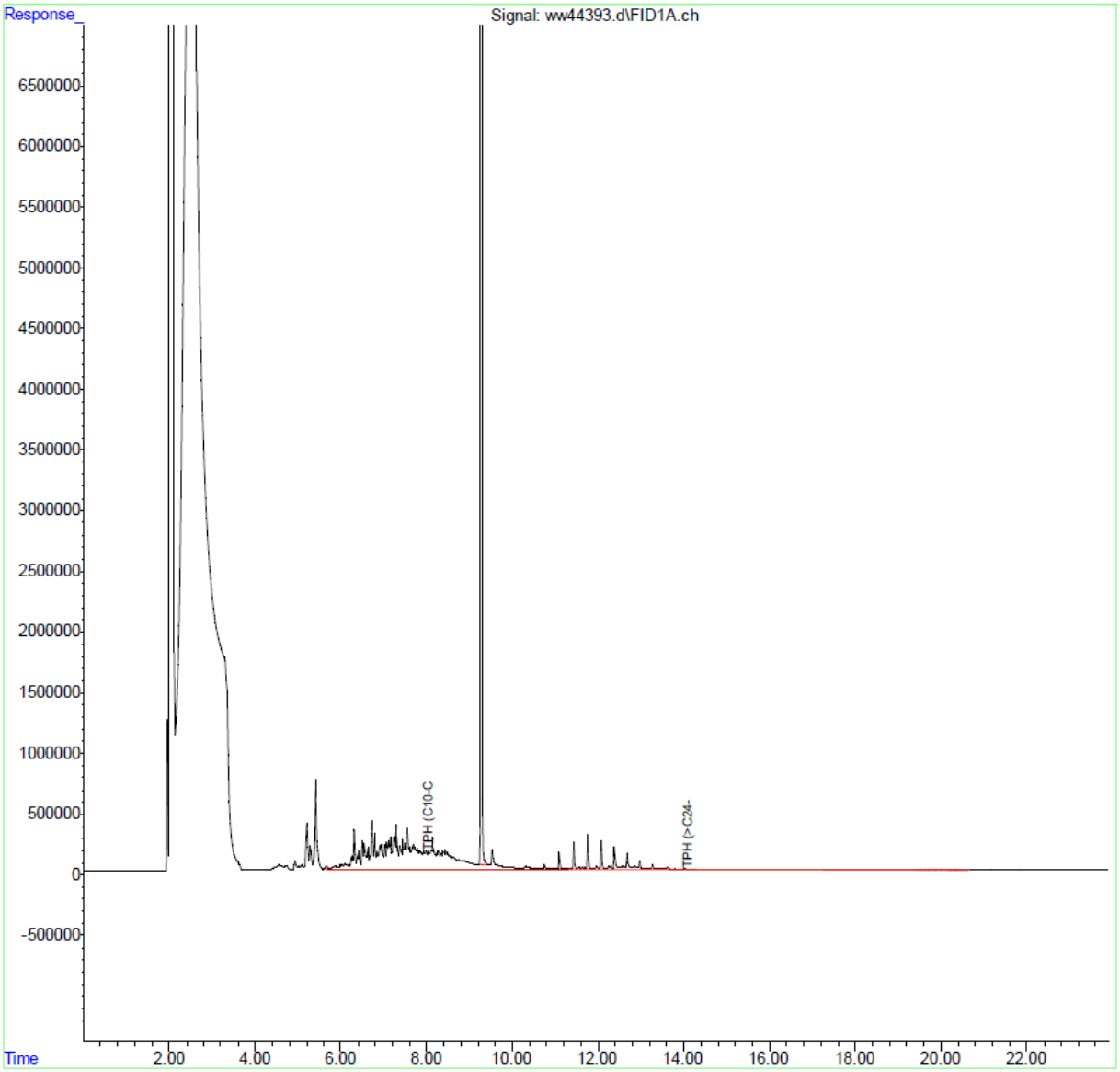
Results (ug/L): **TPH-d (C10 to C24) 244** **TPH-o (C24 to C40) <160 U**

```
Quant Time: Dec 04 09:46:01 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 217** **TPH-o SGC (C24 to C40) <160 U**

```
Quant Time: Dec 04 09:56:43 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

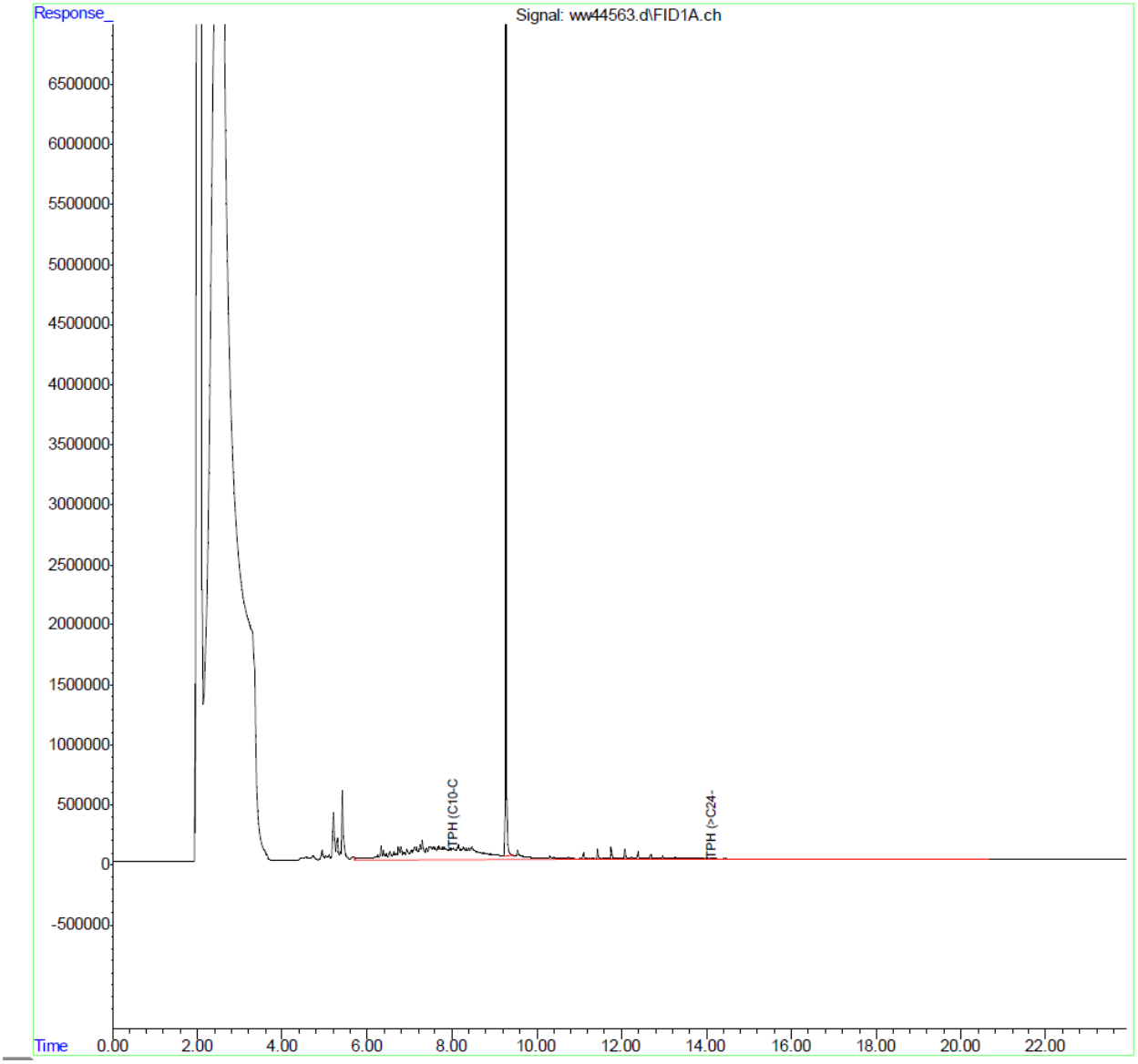


Location: **RHMW01R** Sample ID: RHMW01R-WGN01LF-2312-DF Sample Date: 12/8/2023

Lab: SGS

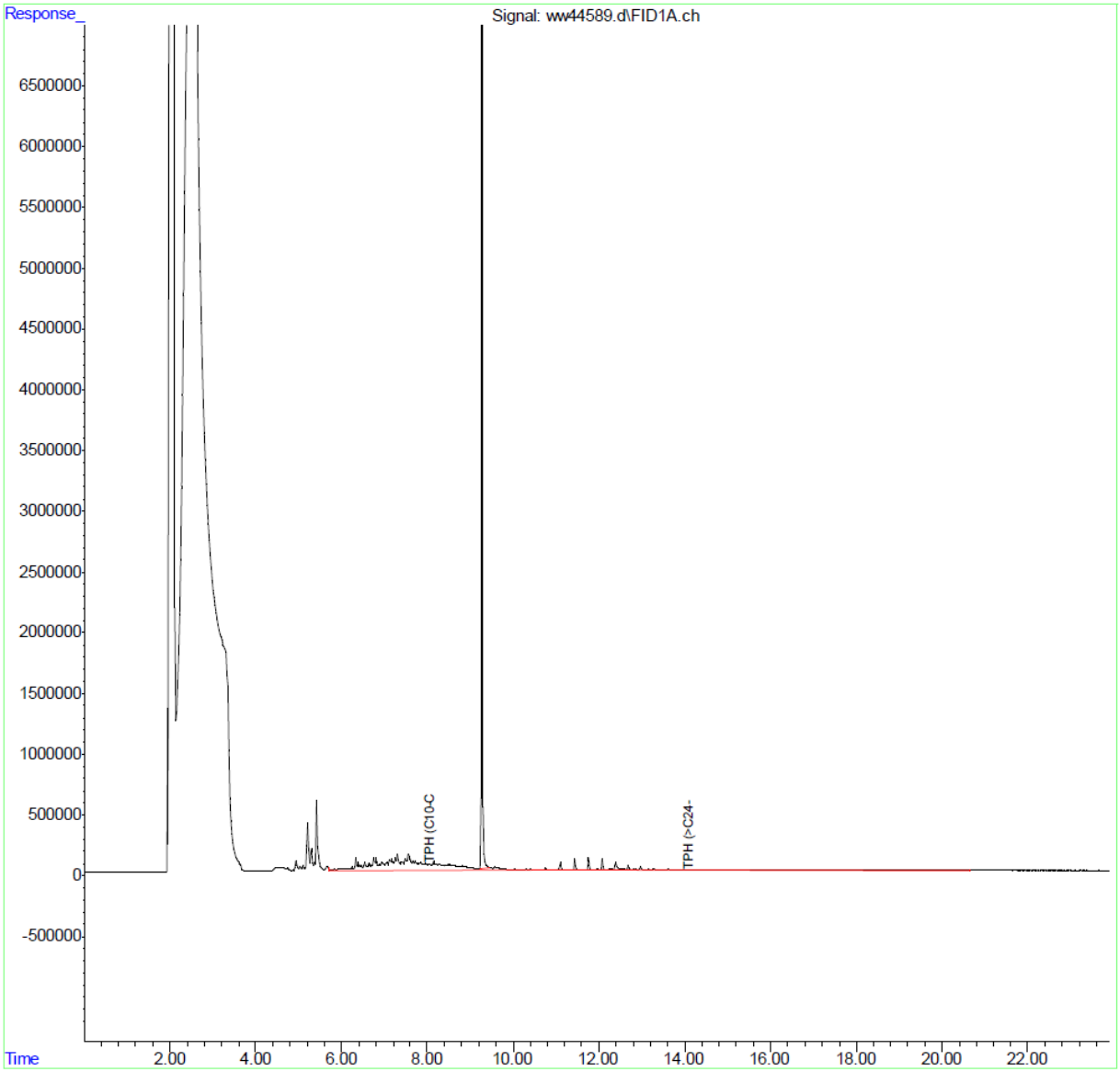
Results (ug/L): **TPH-d (C10 to C24) 107 J** **TPH-o (C24 to C40) <160 U**

```
Quant Time: Dec 11 16:49:35 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 80.3 J** **TPH-o SGC (C24 to C40) <160 U**

```
Quant Time: Dec 12 09:44:45 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

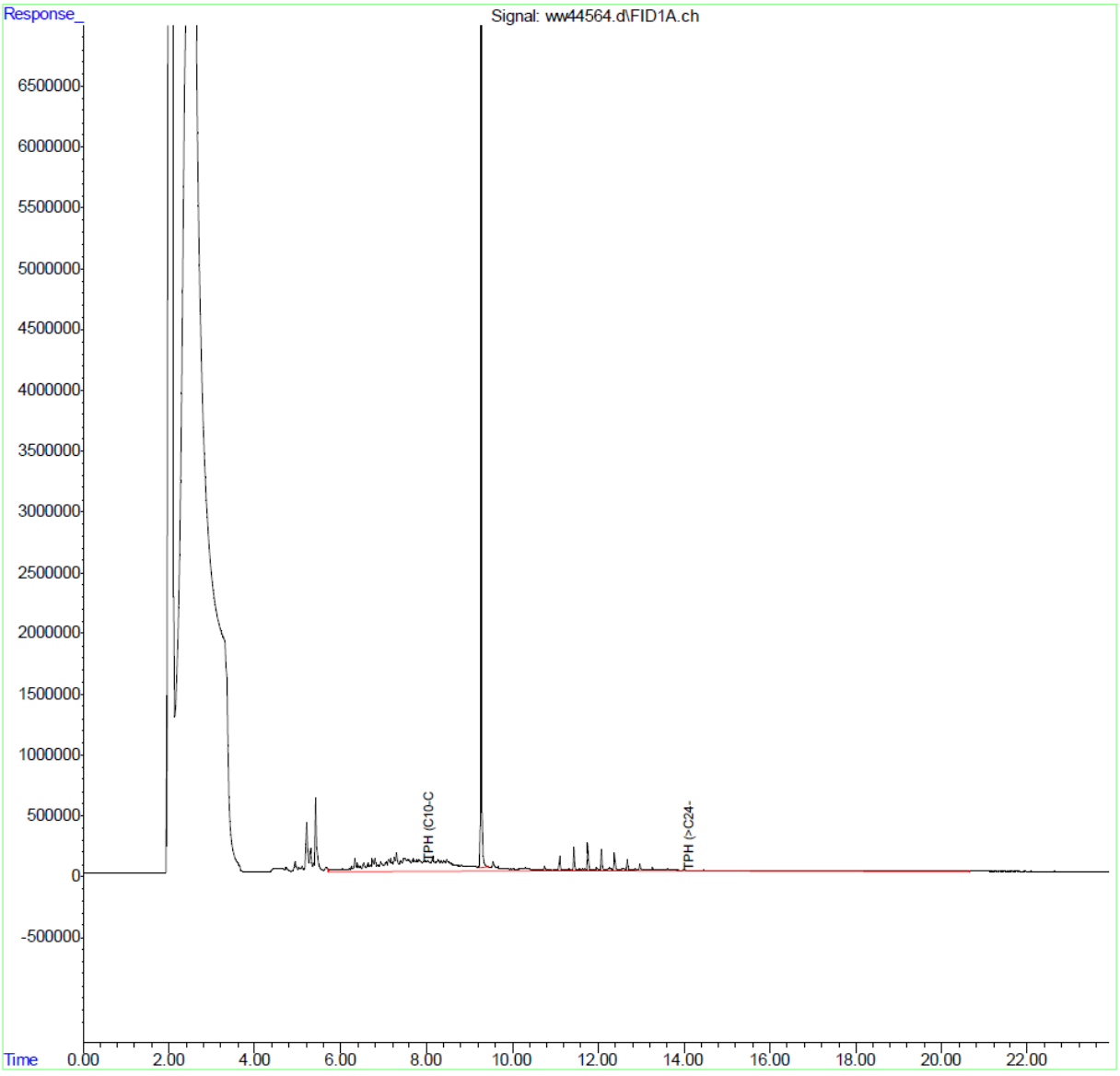


Location: **RHMW01R** Sample ID: RHMW01R-WGFD01LF-2312-DF Sample Date: 12/8/2023

Lab: SGS

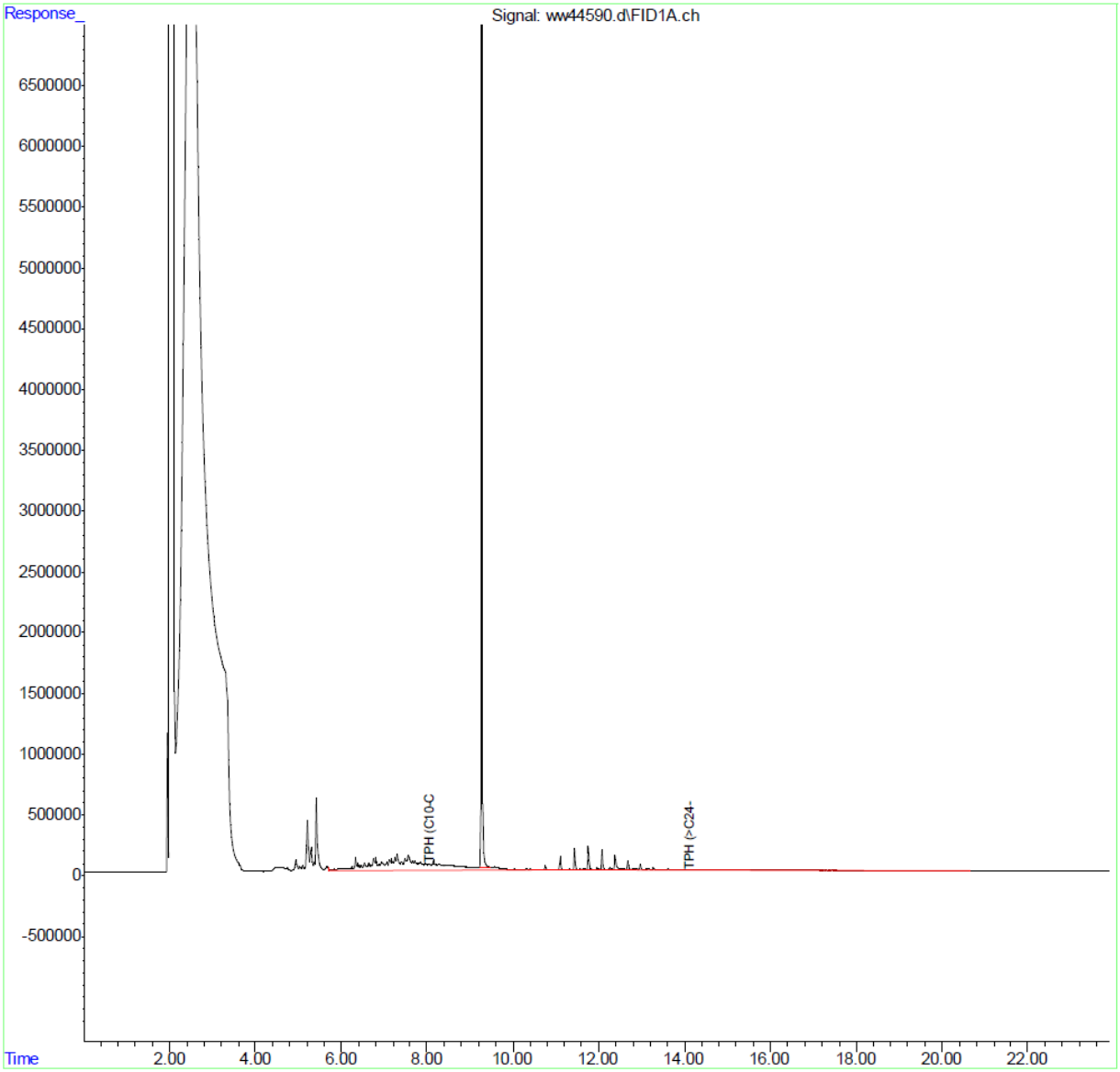
Results (ug/L): **TPH-d (C10 to C24) 102 J** **TPH-o (C24 to C40) <160 U**

```
Quant Time: Dec 11 17:14:48 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) <100 U** **TPH-o SGC (C24 to C40) <160 U**

```
Quant Time: Dec 12 09:44:47 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

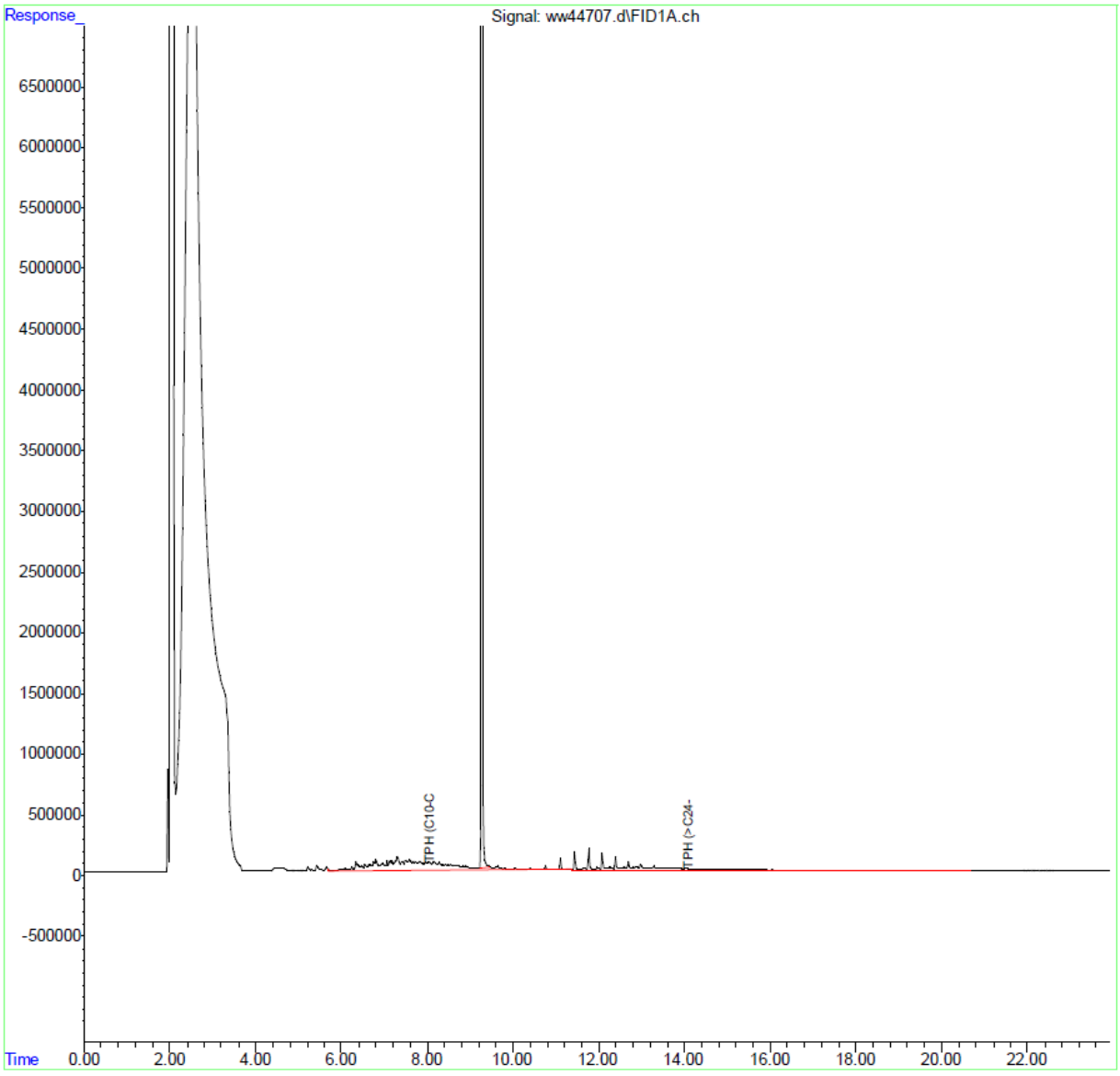


Location: **RHMW01R** Sample ID: RHMW01R-WGN01LF-2312WK2-DF Sample Date: 12/15/2023

Lab: SGS

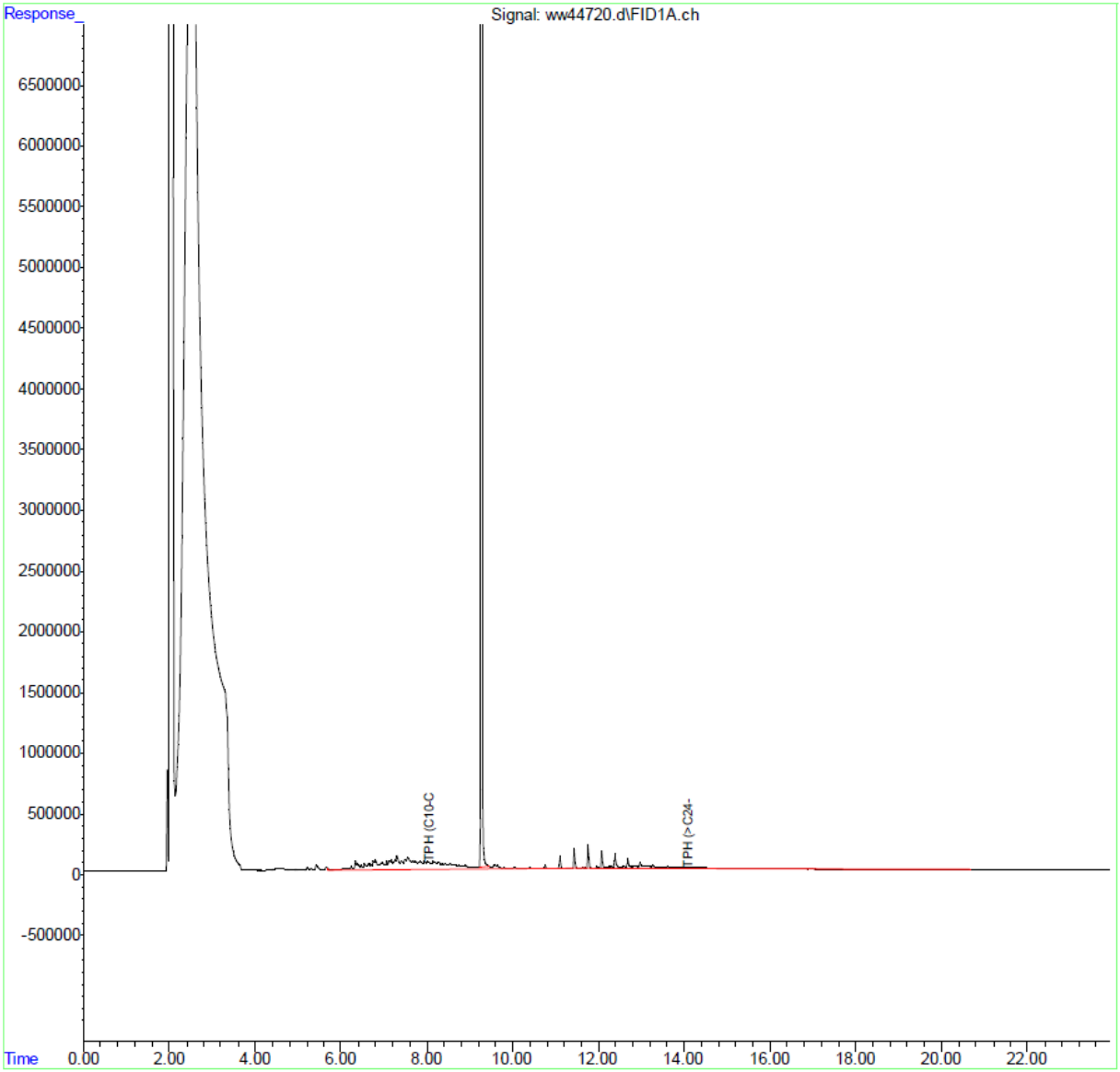
Results (ug/L): **TPH-d (C10 to C24) 86.2 J** **TPH-o (C24 to C40) <170 U**

```
Quant Time: Dec 18 10:04:16 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 85.6 J** **TPH-o SGC (C24 to C40) <170 U**

```
Quant Time: Dec 18 10:04:40 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

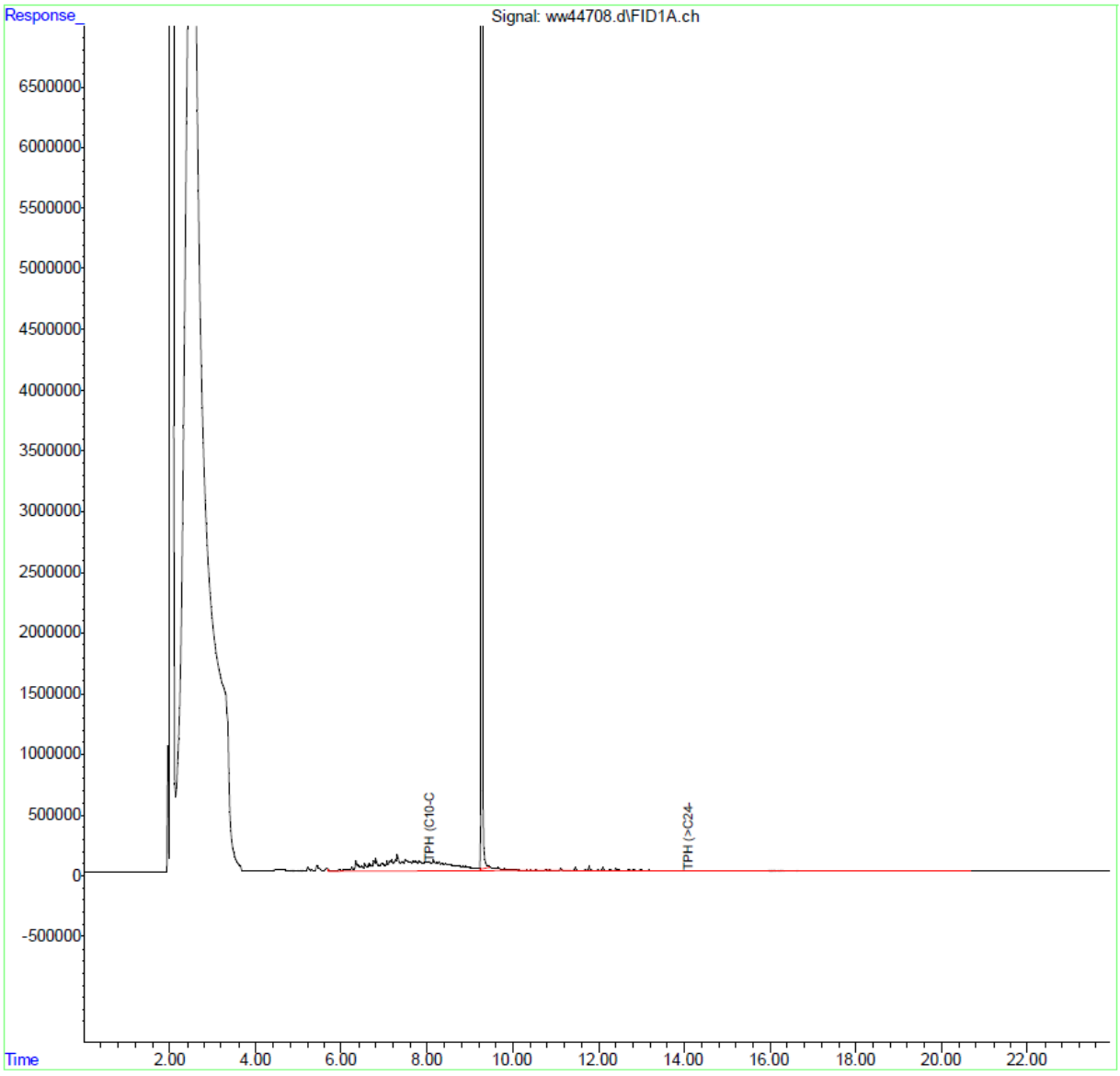


Location: **RHMW01R** Sample ID: RHMW01R-WGFD01LF-2312-DF Sample Date: 12/15/2023

Lab: SGS

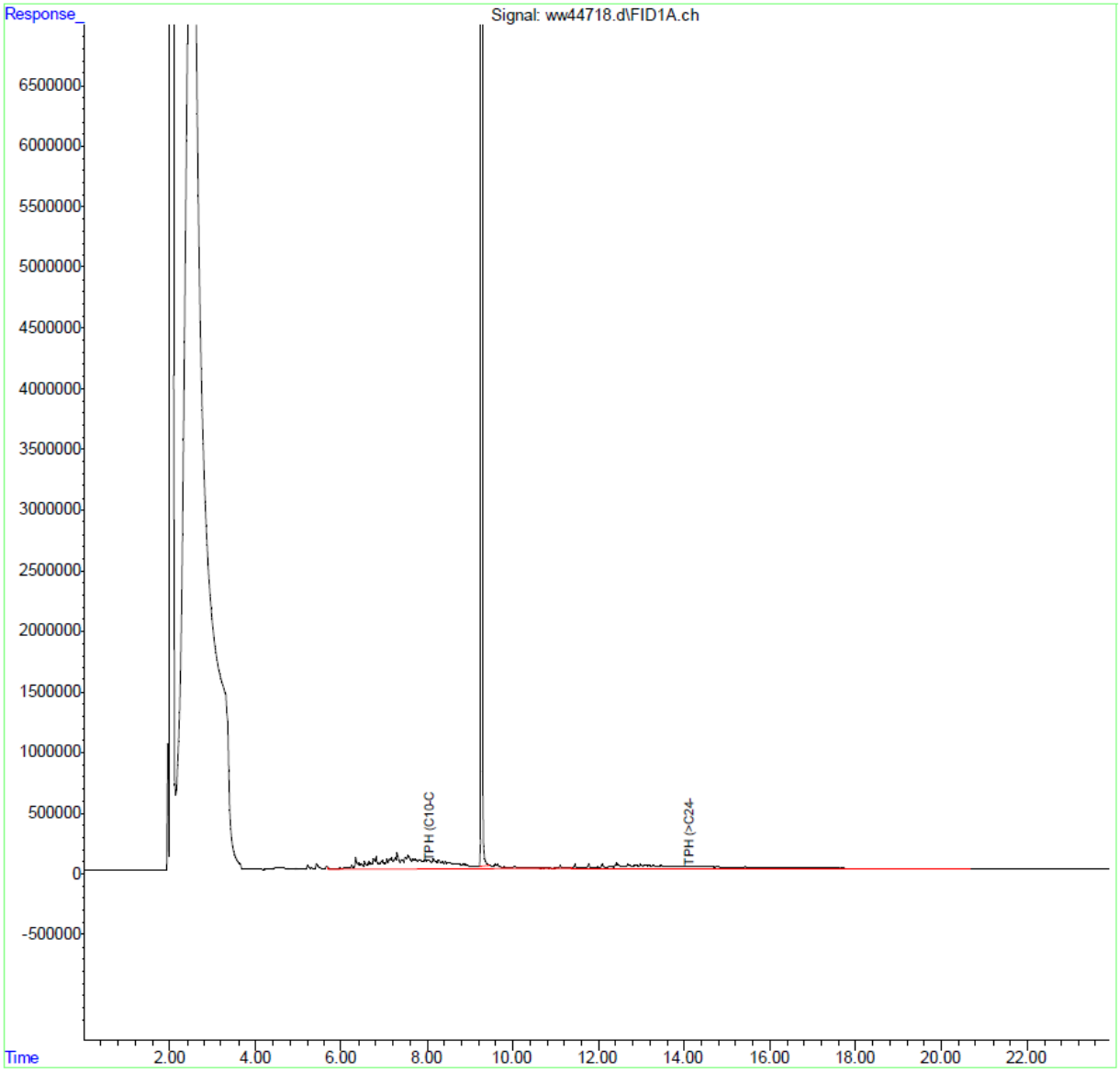
Results (ug/L): **TPH-d (C10 to C24) 93.1 J** **TPH-o (C24 to C40) <170 U**

```
Quant Time: Dec 18 10:04:18 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 90.7 J** **TPH-o SGC (C24 to C40) <170 U**

```
Quant Time: Dec 18 10:04:36 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

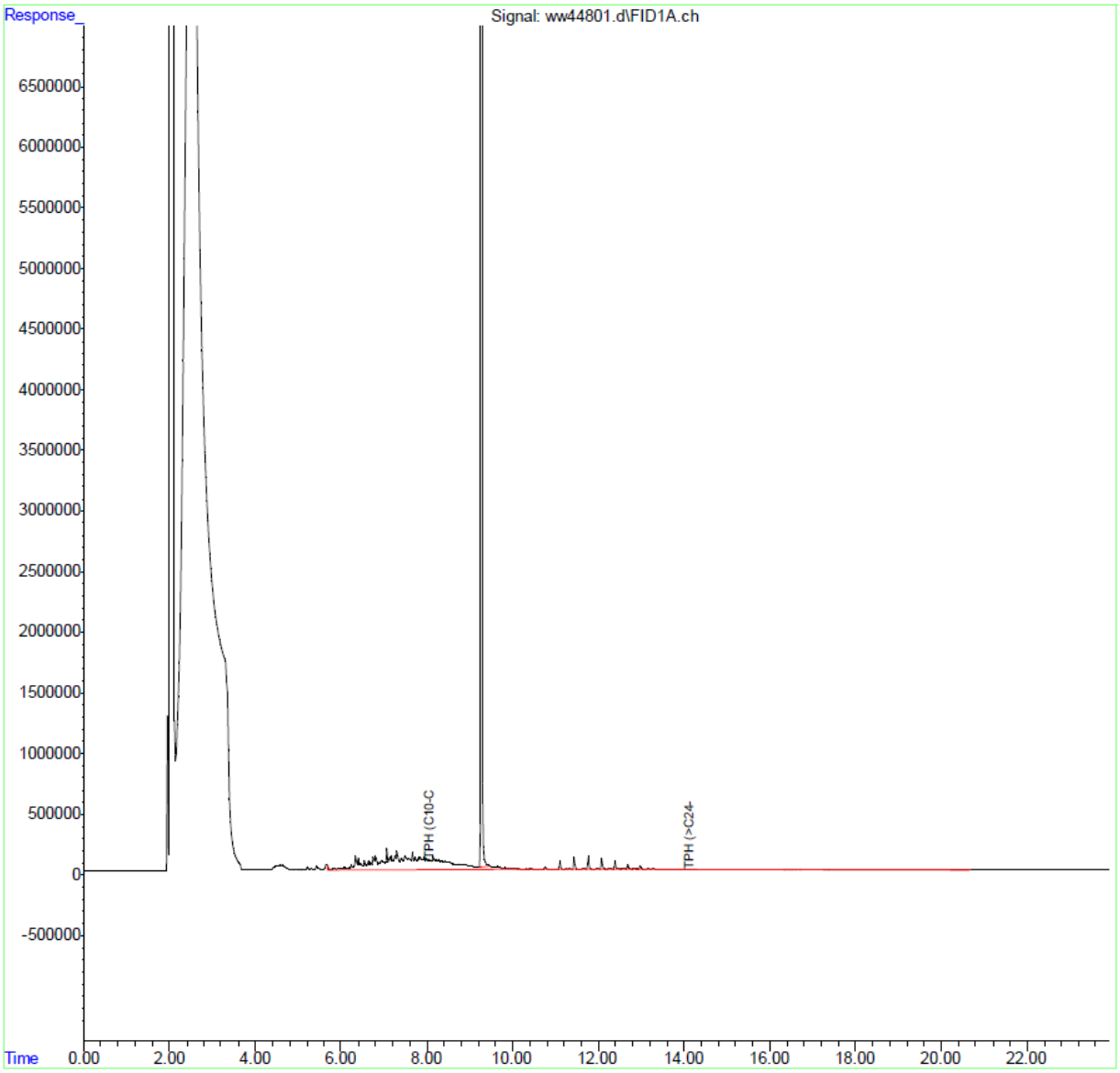


Location: **RHMW01R** Sample ID: RHMW01R-WGFD01LF-2312WK3-DF Sample Date: 12/19/2023

Lab: SGS

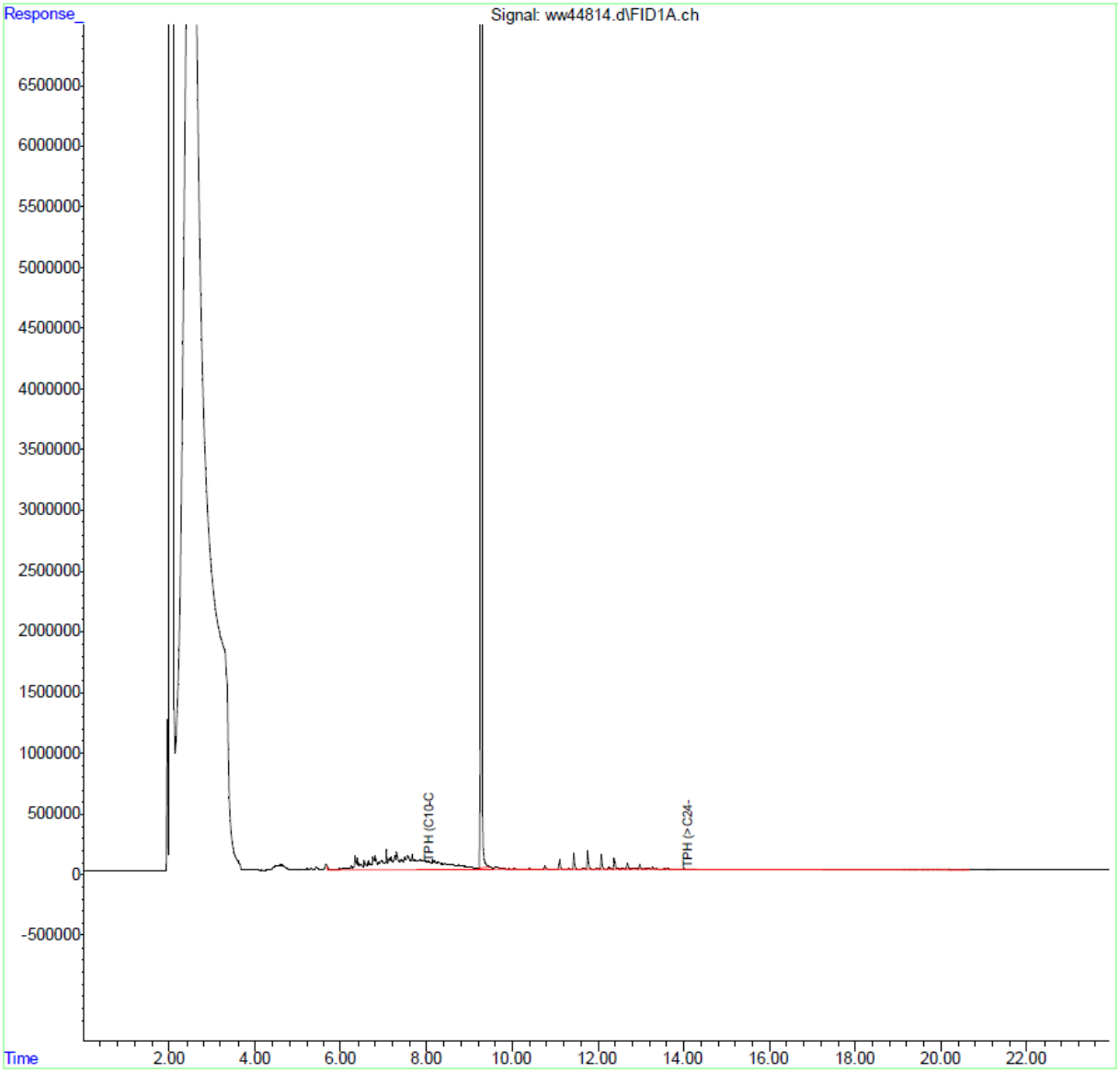
Results (ug/L): **TPH-d (C10 to C24) 103 J** **TPH-o (C24 to C40) <170 U**

```
Quant Time: Dec 22 08:42:35 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 92.0 J** **TPH-o SGC (C24 to C40) <170 U**

```
Quant Time: Dec 22 08:43:01 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

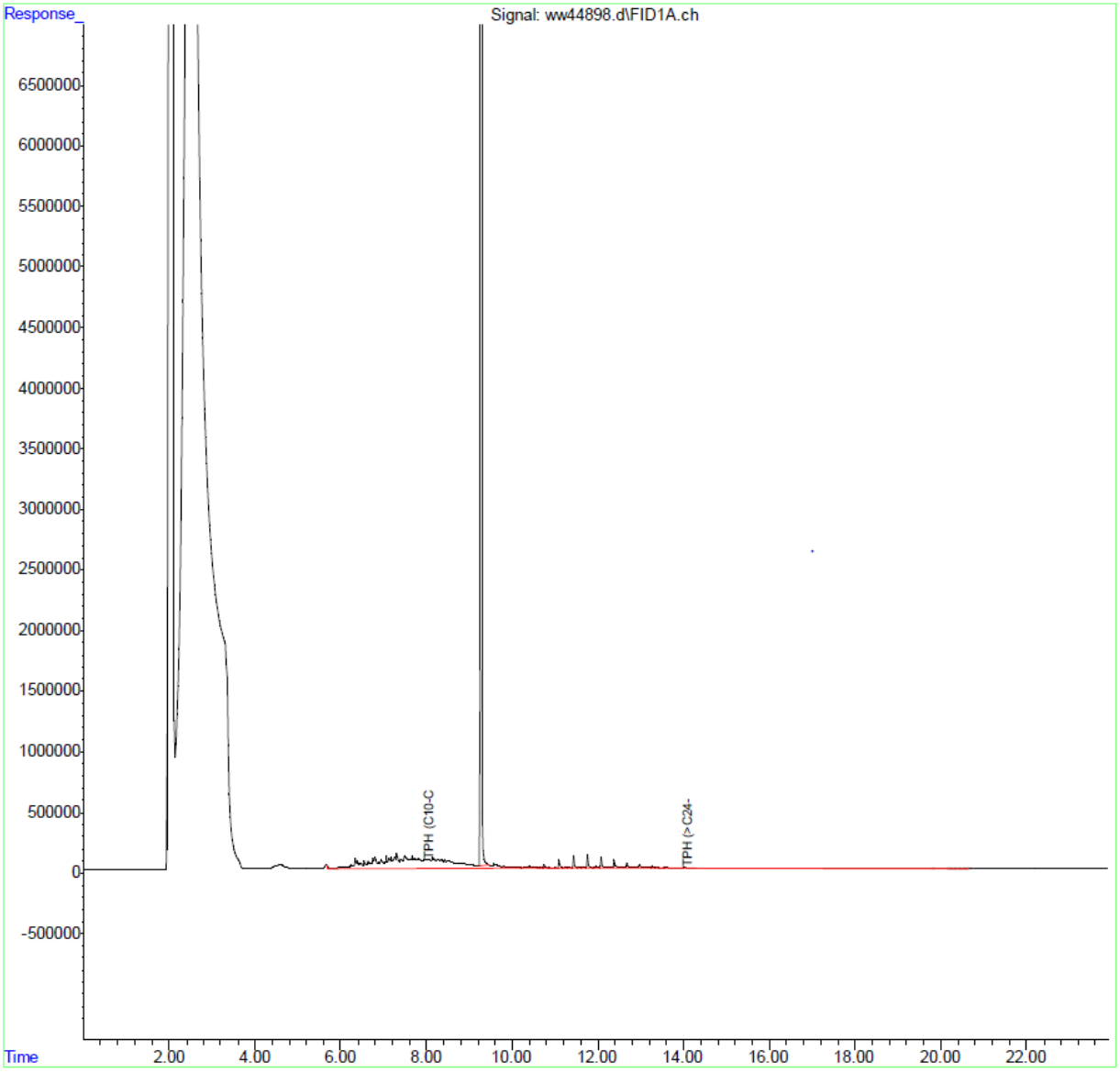


Location: **RHMW01R** Sample ID: RHMW01R-WGN01LF-2312WK4-DF Sample Date: 12/26/2023

Lab: SGS

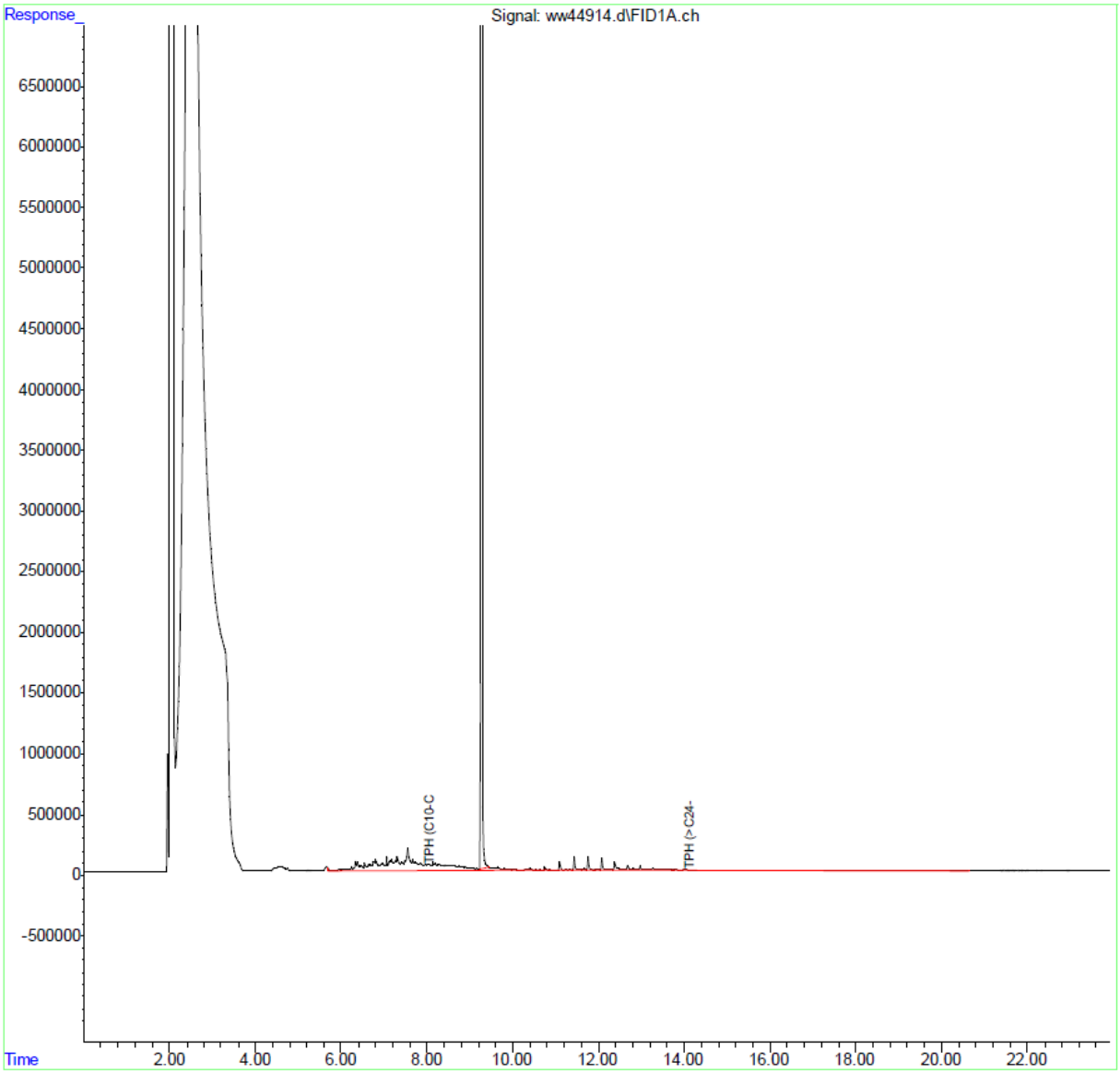
Results (ug/L): **TPH-d (C10 to C24) 92.1 J** **TPH-o (C24 to C40) <170 U**

```
Quant Time: Dec 29 09:18:22 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24)** **TPH-o SGC (C24 to C40) <170 U**

```
Quant Time: Dec 29 14:42:50 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

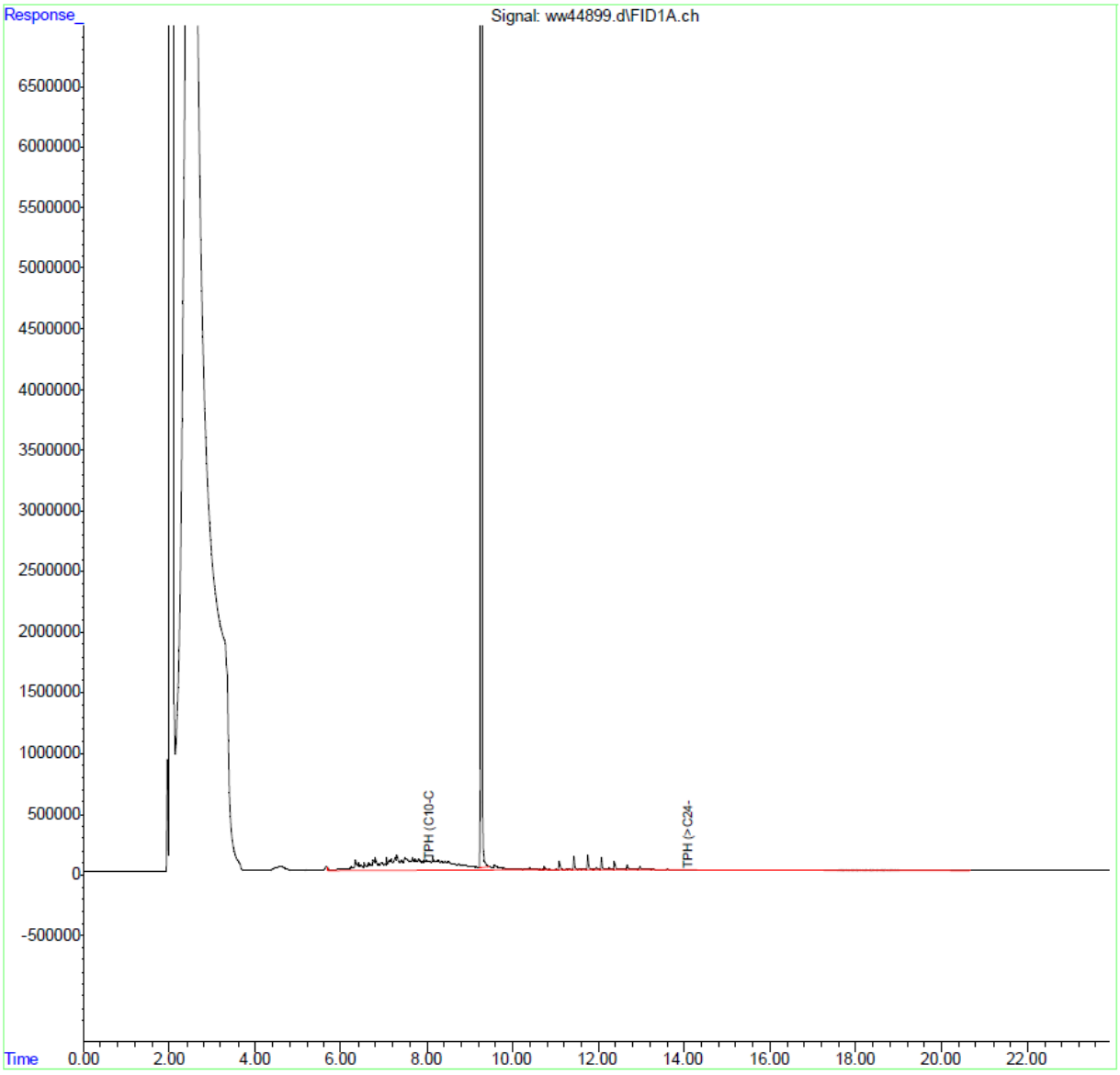


Location: **RHMW01R** Sample ID: RHMW01R-WGFD01LF-2312WK4-DF Sample Date: 12/26/2023

Lab: SGS

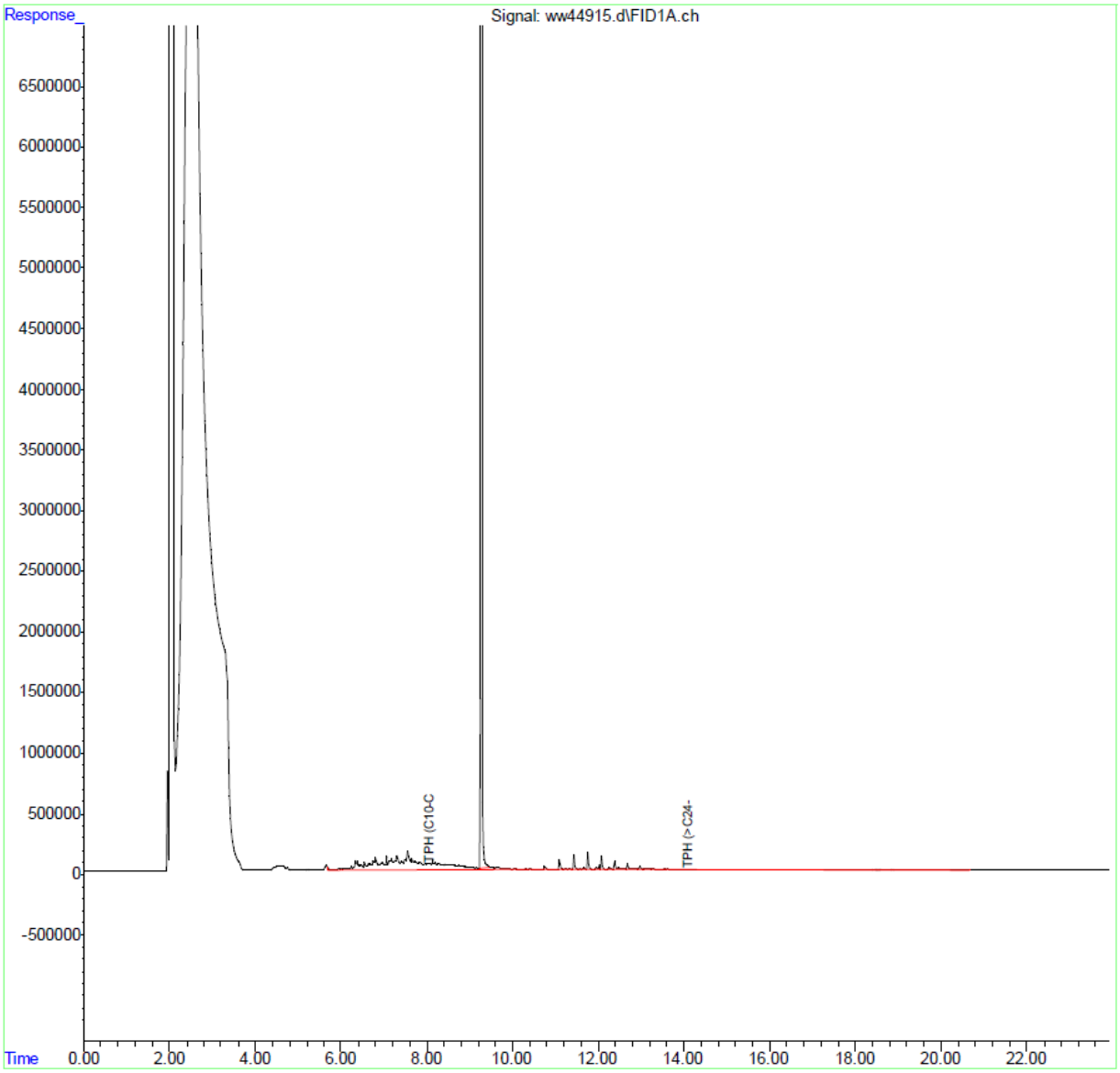
Results (ug/L): **TPH-d (C10 to C24) 95.5 J** **TPH-o (C24 to C40) <170 U**

```
Quant Time: Dec 29 09:18:24 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24)** **TPH-o SGC (C24 to C40) <170 U**

```
Quant Time: Dec 29 15:36:04 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

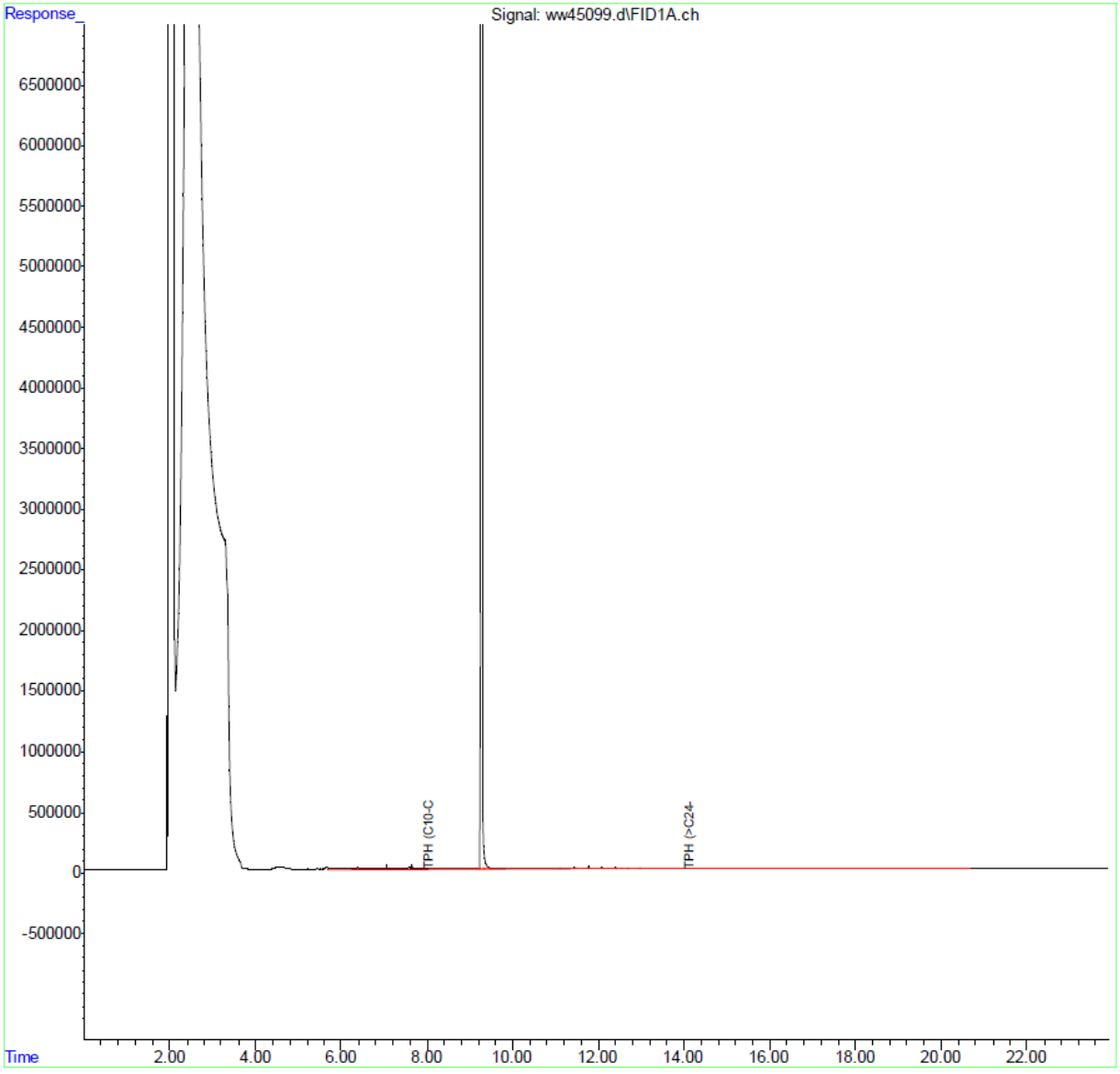


Location: **RHMW01R** Sample ID: RHMW01R-WGN01LF-2401-DF Sample Date: 1/5/2024

Lab: SGS

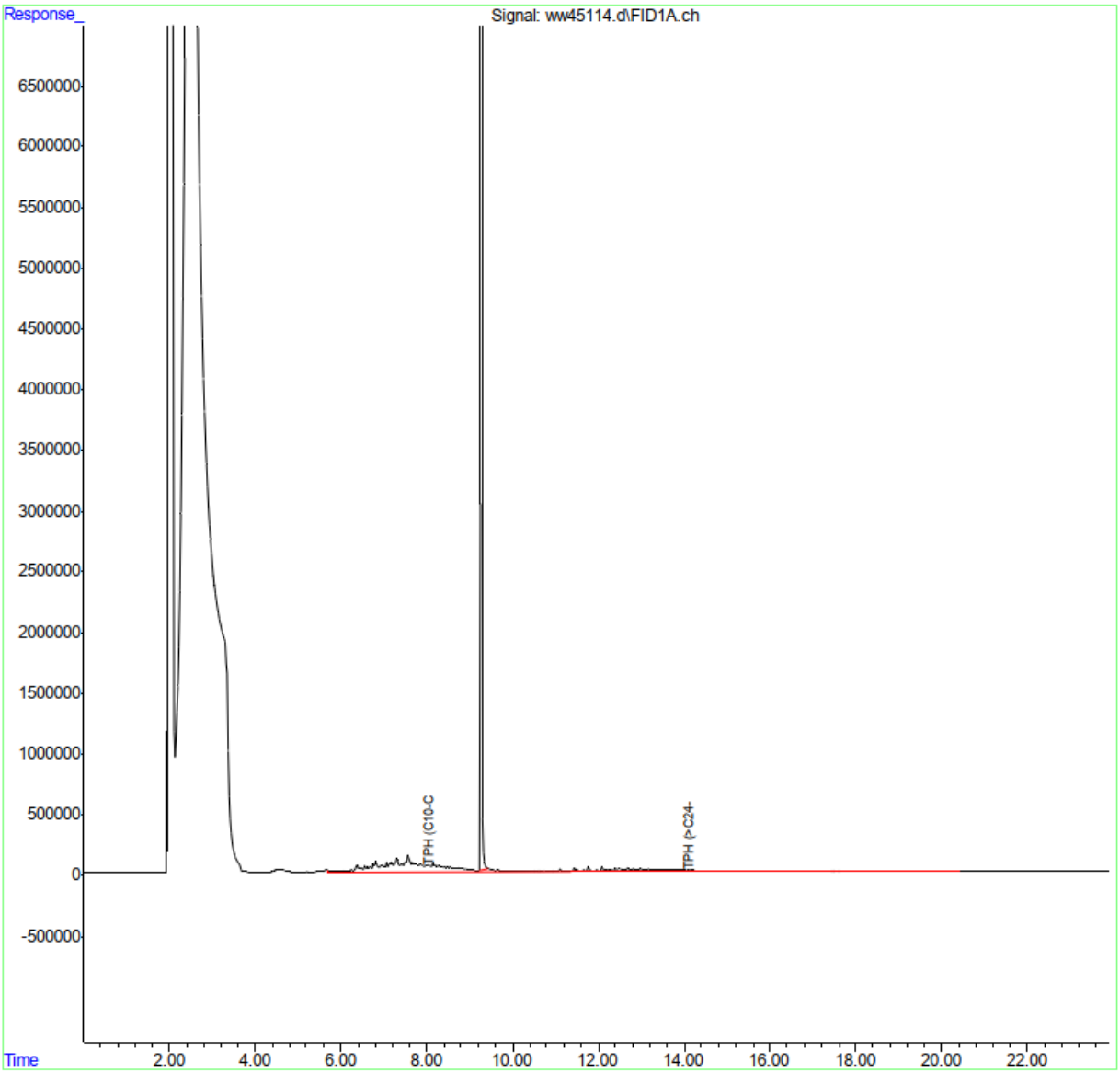
Results (ug/L): **TPH-d (C10 to C24) 89.8 J** **TPH-o (C24 to C40) <170 U**

```
Quant Time: Jan 08 09:59:49 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) <100 U** **TPH-o SGC (C24 to C40) <170 U**

```
Quant Time: Jan 08 15:35:24 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

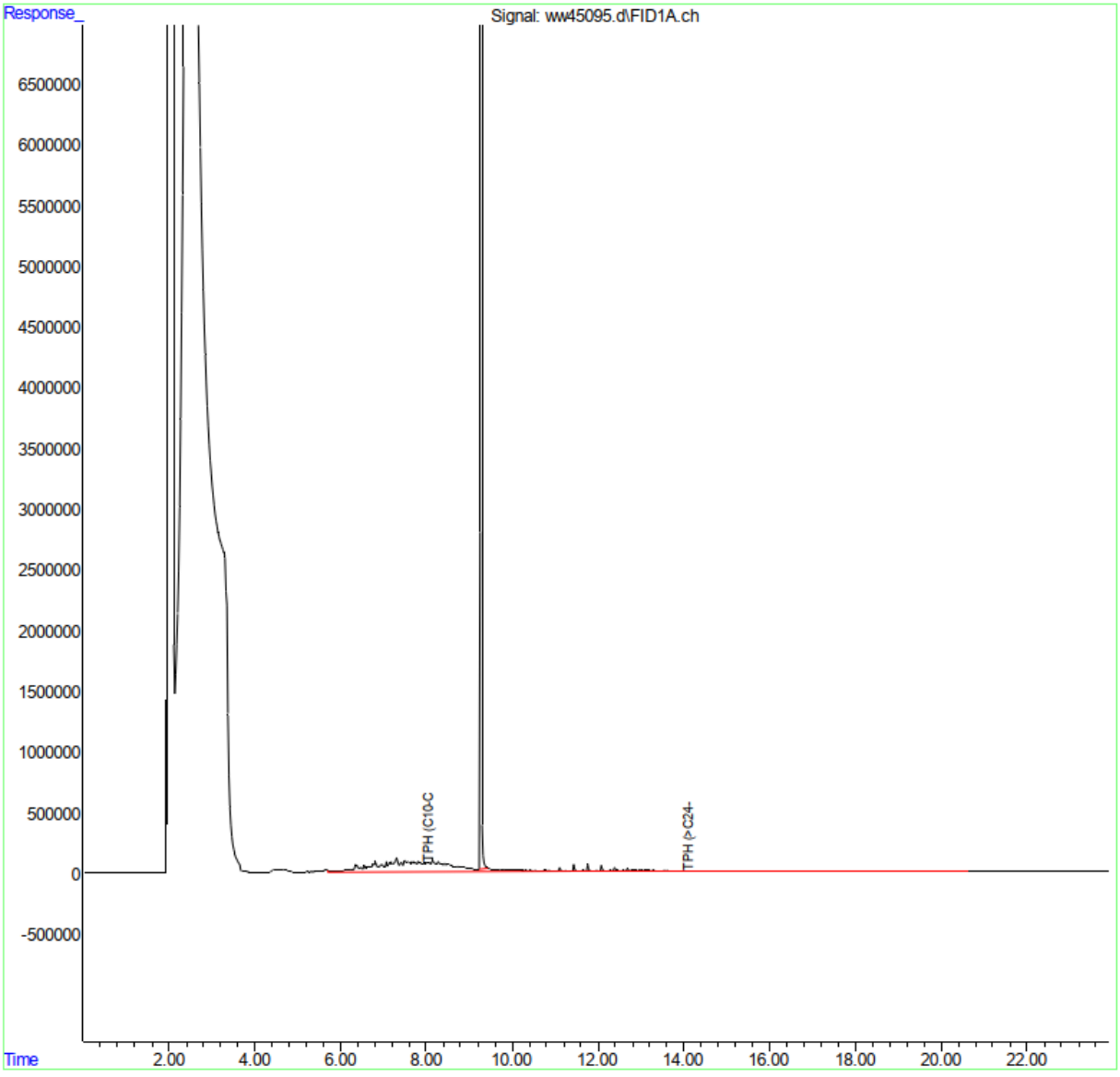


Location: **RHMW01R** Sample ID: RHMW01R-WGFD01LF-2401-DF Sample Date: 1/5/2024

Lab: SGS

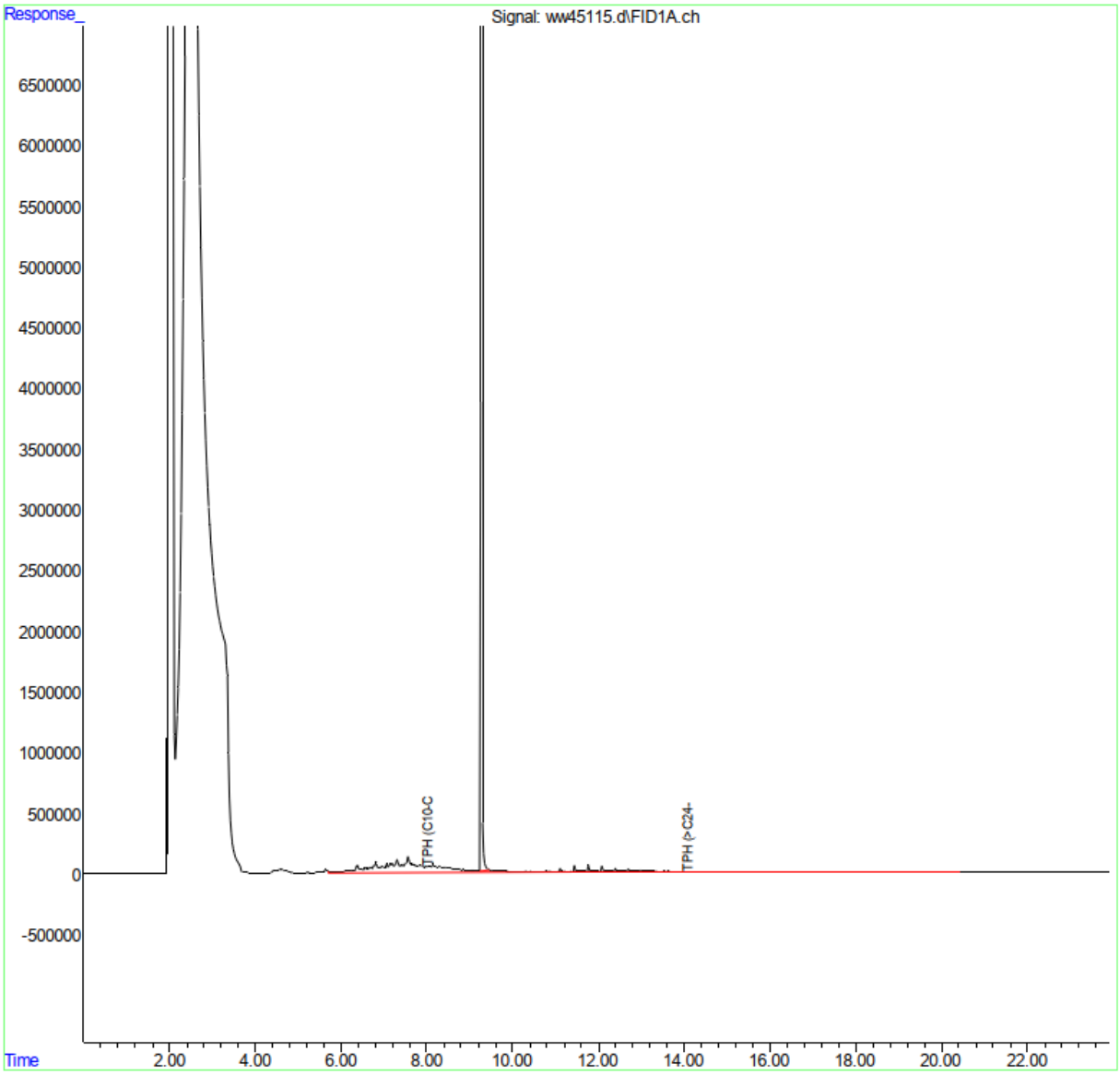
Results (ug/L): **TPH-d (C10 to C24) 86.6 J** **TPH-o (C24 to C40) <170 U**

```
Quant Time: Jan 08 09:59:40 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) <100 U** **TPH-o SGC (C24 to C40) <170 U**

```
Quant Time: Jan 08 16:22:04 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

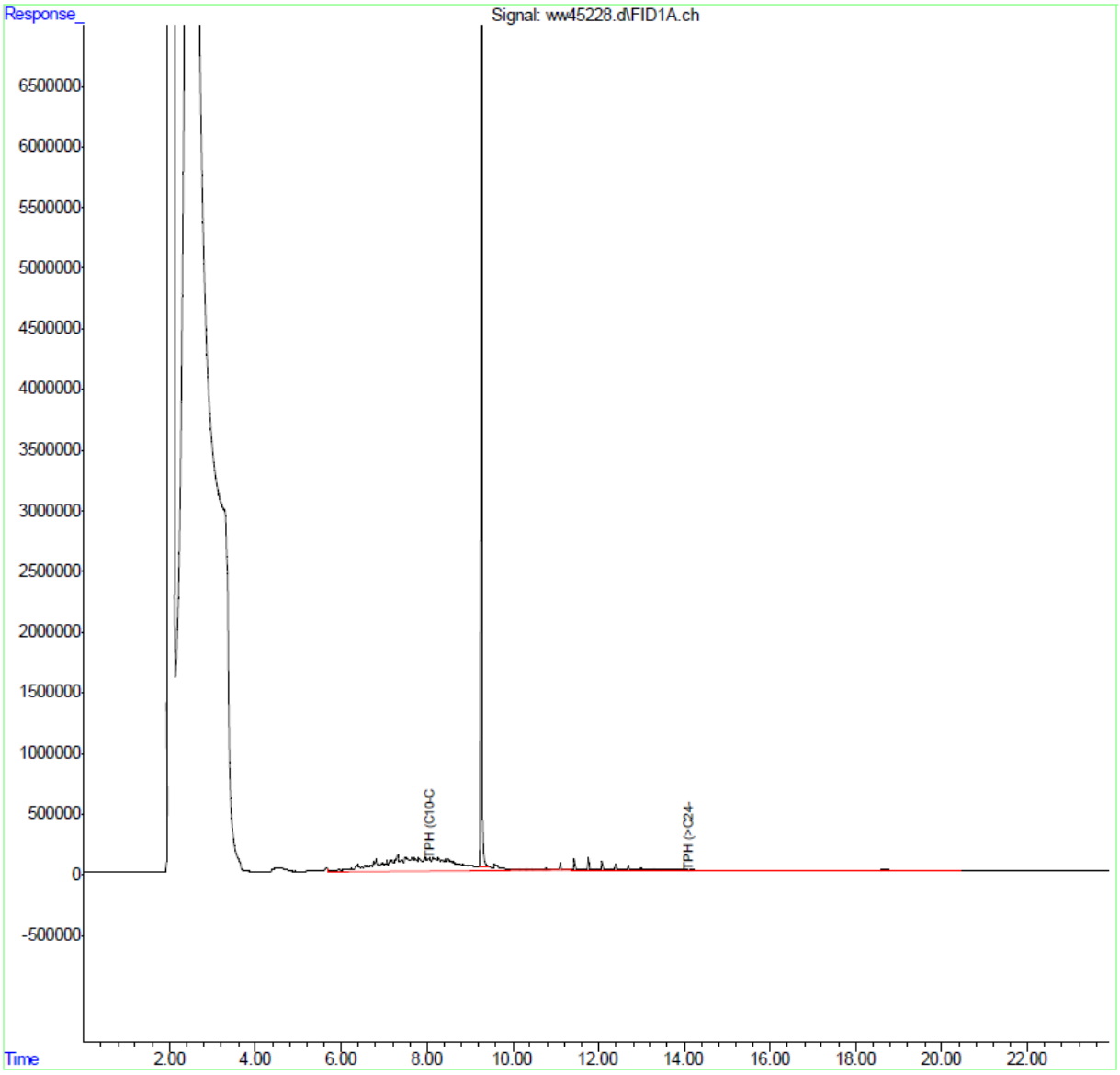


Location: **RHMW01R** Sample ID: RHMW01R-WGN01LF-2401WK2-DF Sample Date: 1/12/2024

Lab: SGS

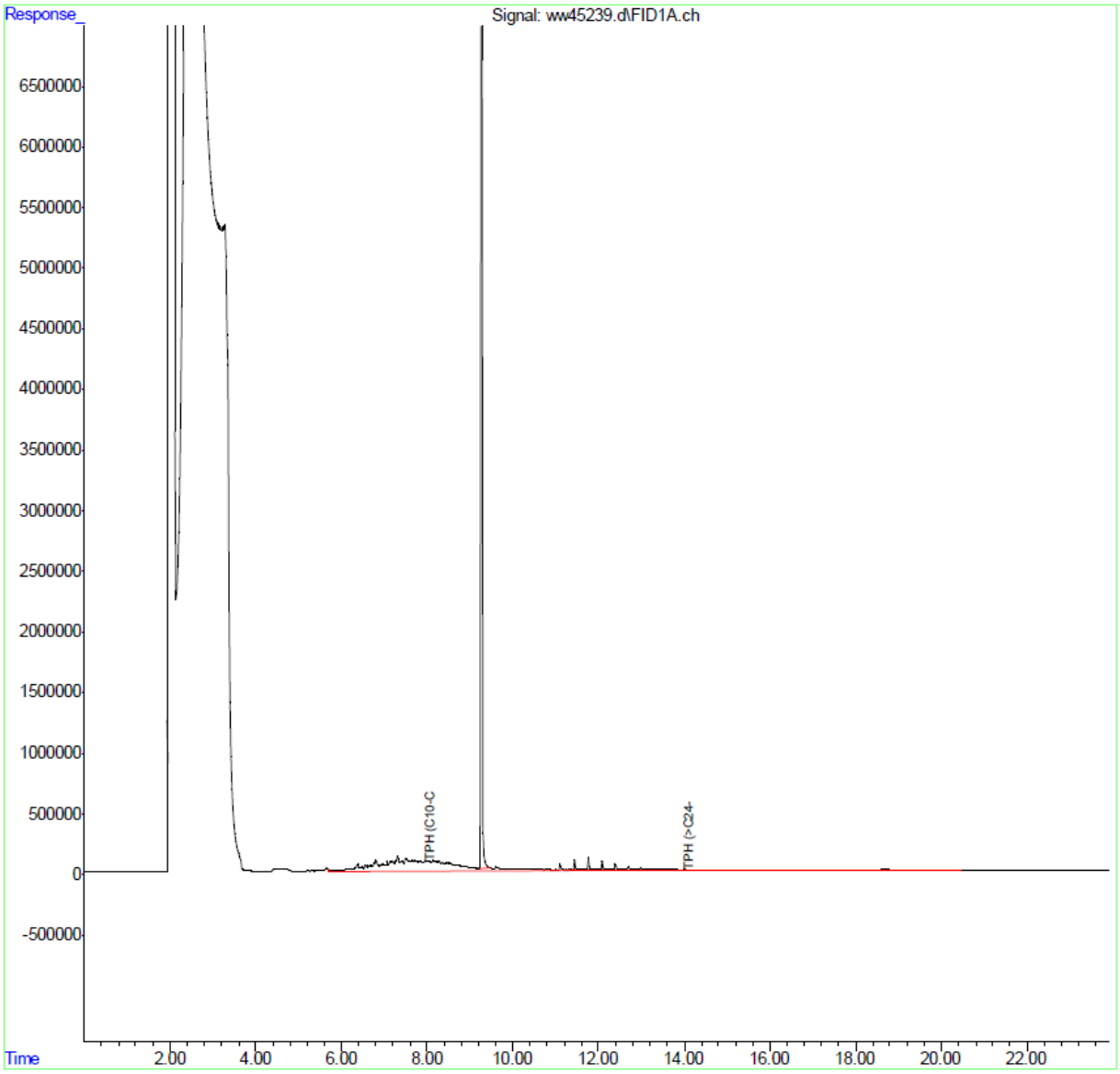
Results (ug/L): **TPH-d (C10 to C24) 114 J** **TPH-o (C24 to C40) <170 U**

```
Quant Time: Jan 15 10:08:39 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 92.3 J** **TPH-o SGC (C24 to C40) <170 U**

```
Quant Time: Jan 15 10:08:59 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

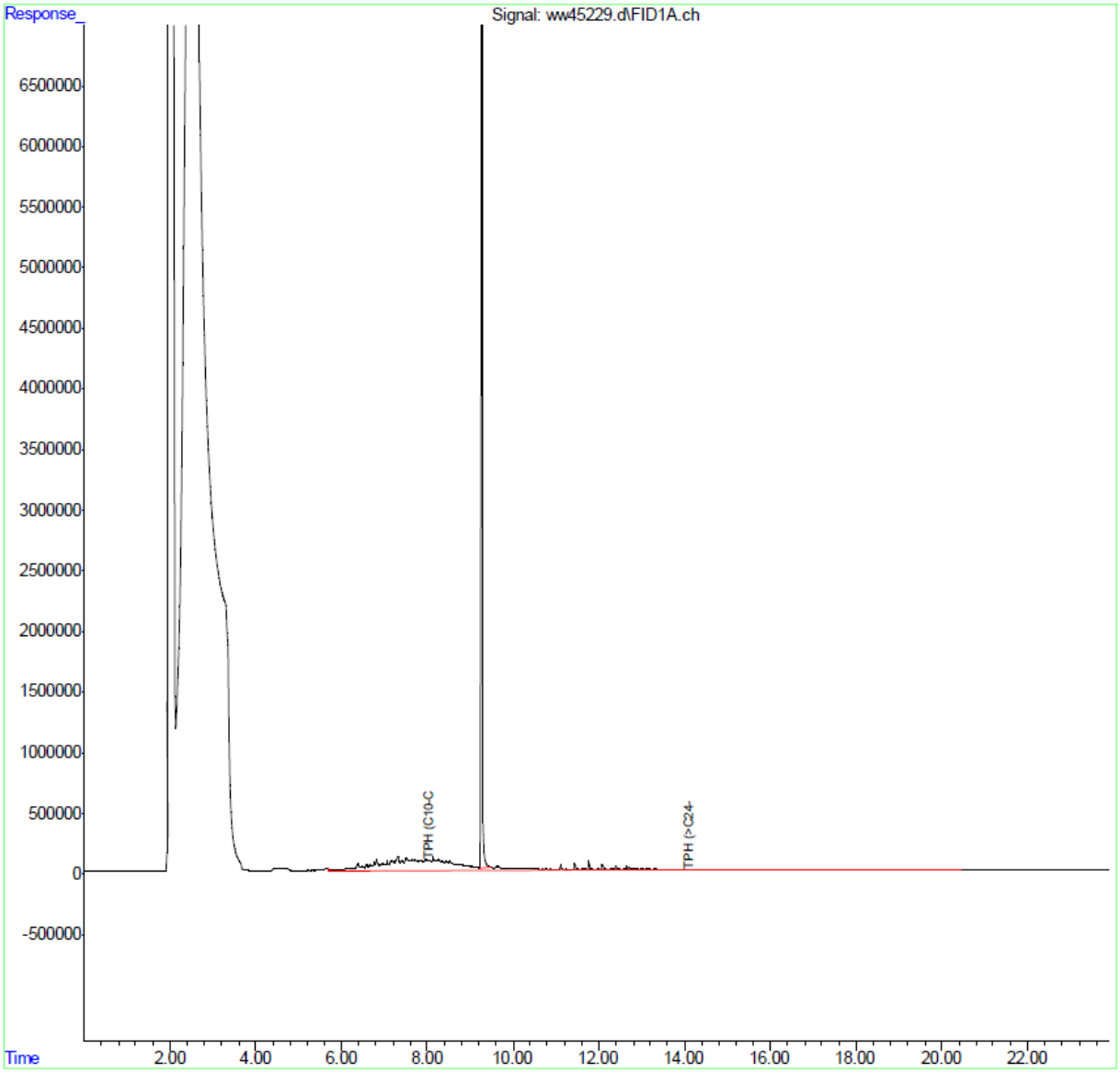


Location: **RHMW01R** Sample ID: RHMW01R-WGFD01LF-2401WK2-DF Sample Date: 1/12/2024

Lab: SGS

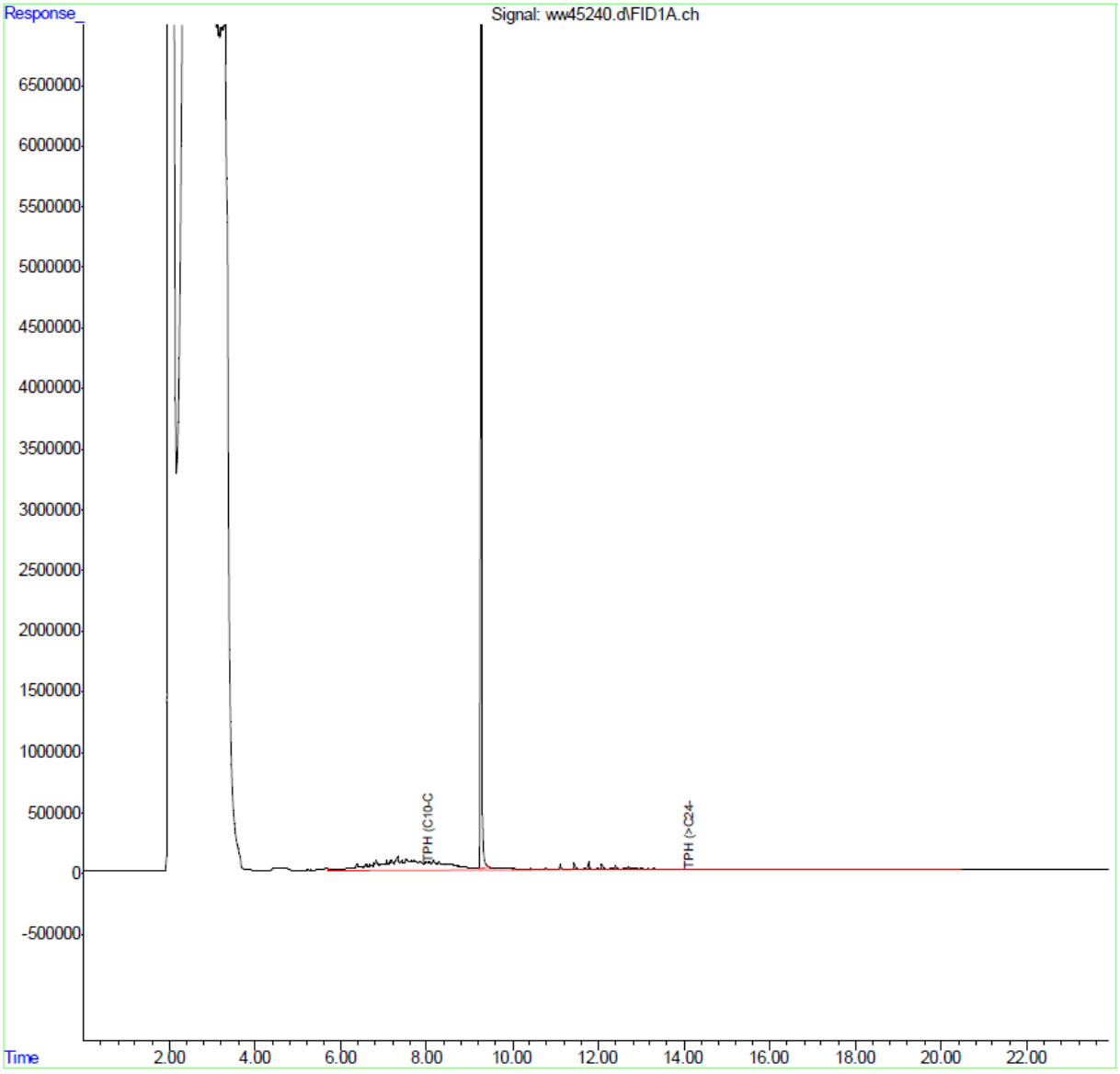
Results (ug/L): **TPH-d (C10 to C24) 95.9 J** **TPH-o (C24 to C40) <170 U**

```
Quant Time: Jan 15 10:08:41 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24)** **TPH-o SGC (C24 to C40) <170 U**

```
Quant Time: Jan 15 10:09:01 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

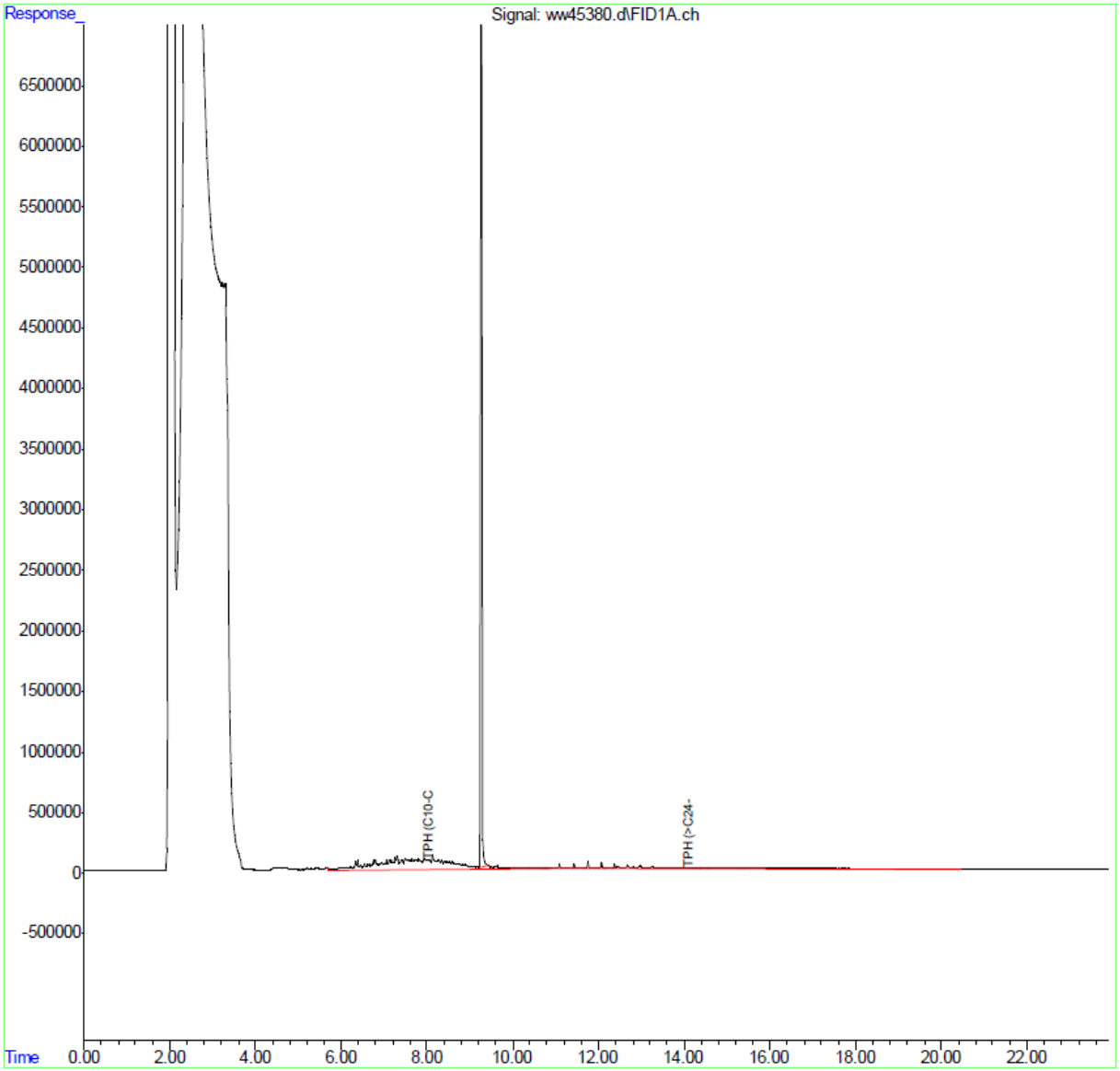


Location: **RHMW01R** Sample ID: RHMW01R-WGN01LF-2401WK3-DF Sample Date: 1/19/2024

Lab: SGS

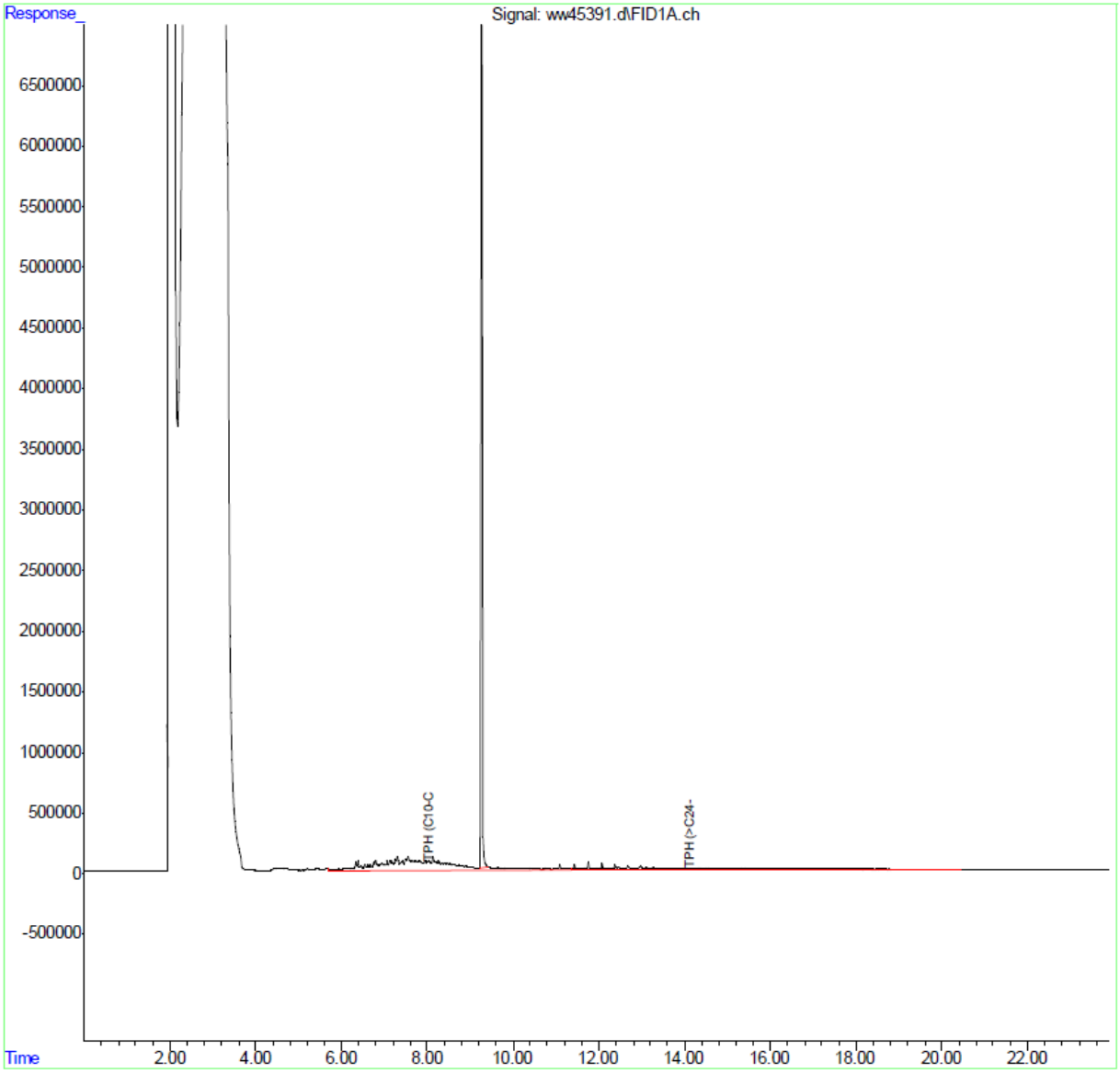
Results (ug/L): **TPH-d (C10 to C24) 85.5 J** **TPH-o (C24 to C40) <160 U**

```
Quant Time: Jan 22 09:47:23 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24)** **TPH-o SGC (C24 to C40) <160 U**

```
Quant Time: Jan 22 09:47:43 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

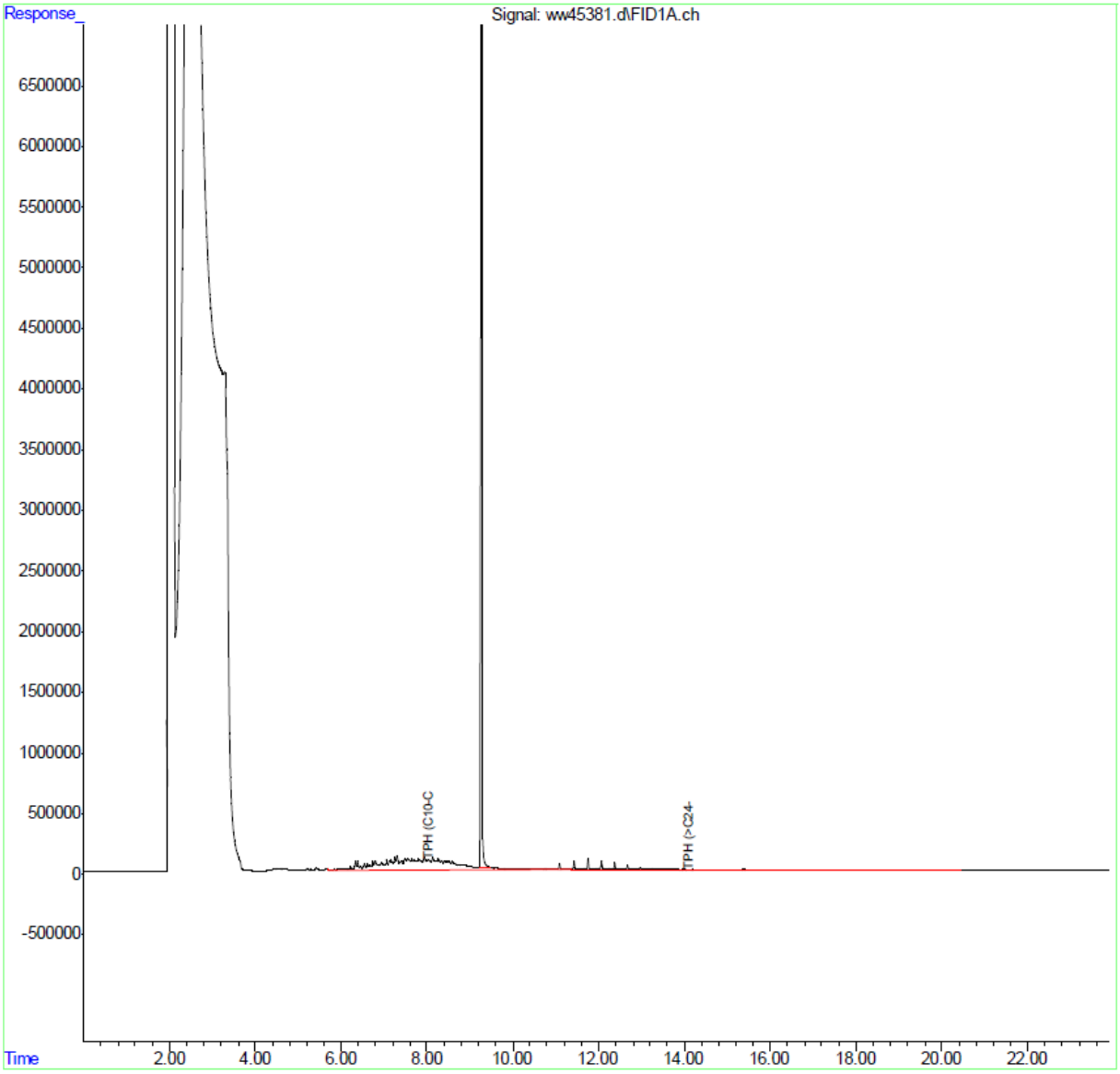


Location: **RHMW01R** Sample ID: RHMW01R-WGFD01LF-2401WK3-DF Sample Date: 1/19/2024

Lab: SGS

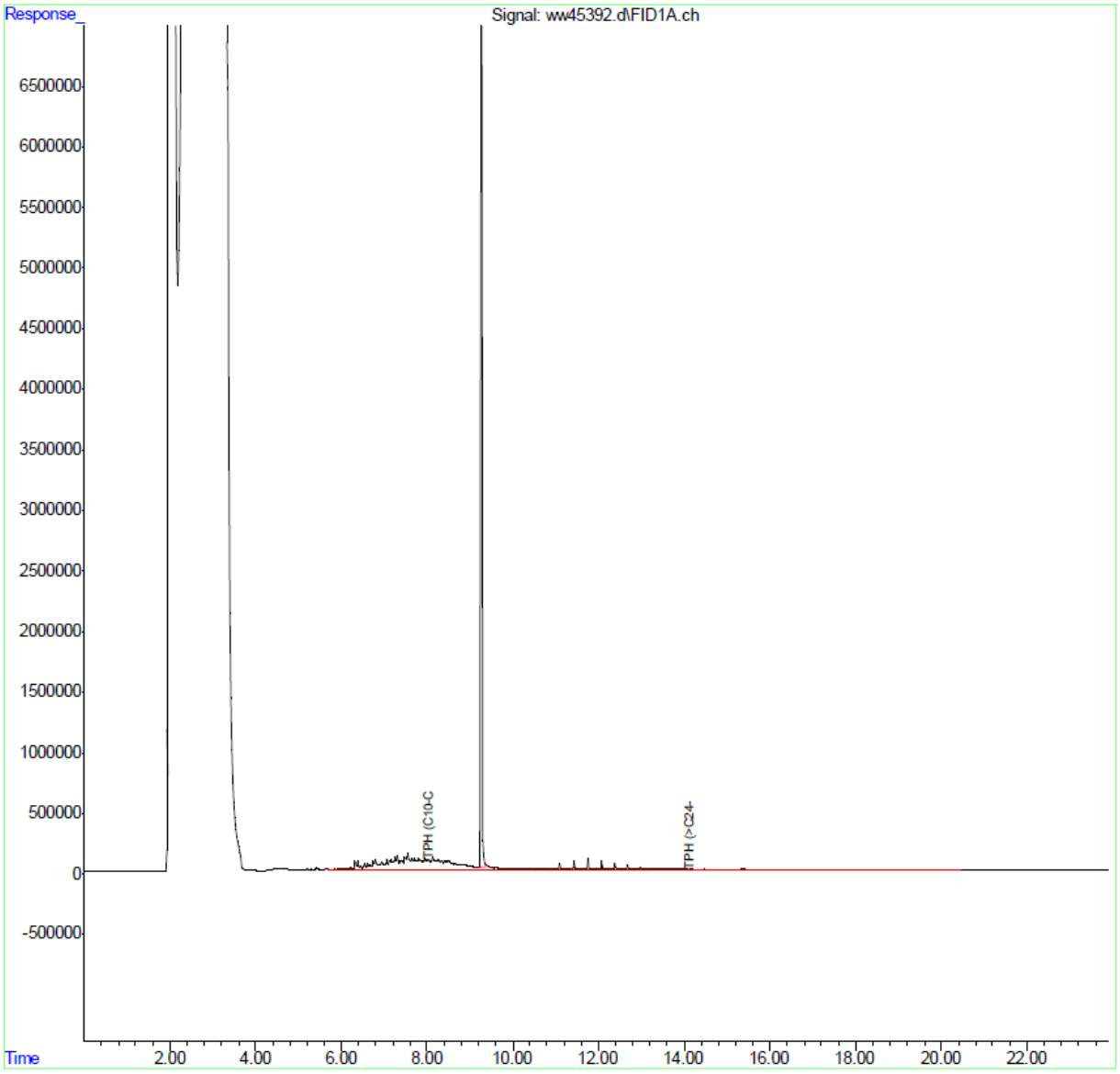
Results (ug/L): **TPH-d (C10 to C24) 90.4 J** **TPH-o (C24 to C40) <150 U**

```
Quant Time: Jan 22 09:47:25 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 91.0 J** **TPH-o SGC (C24 to C40) <150 U**

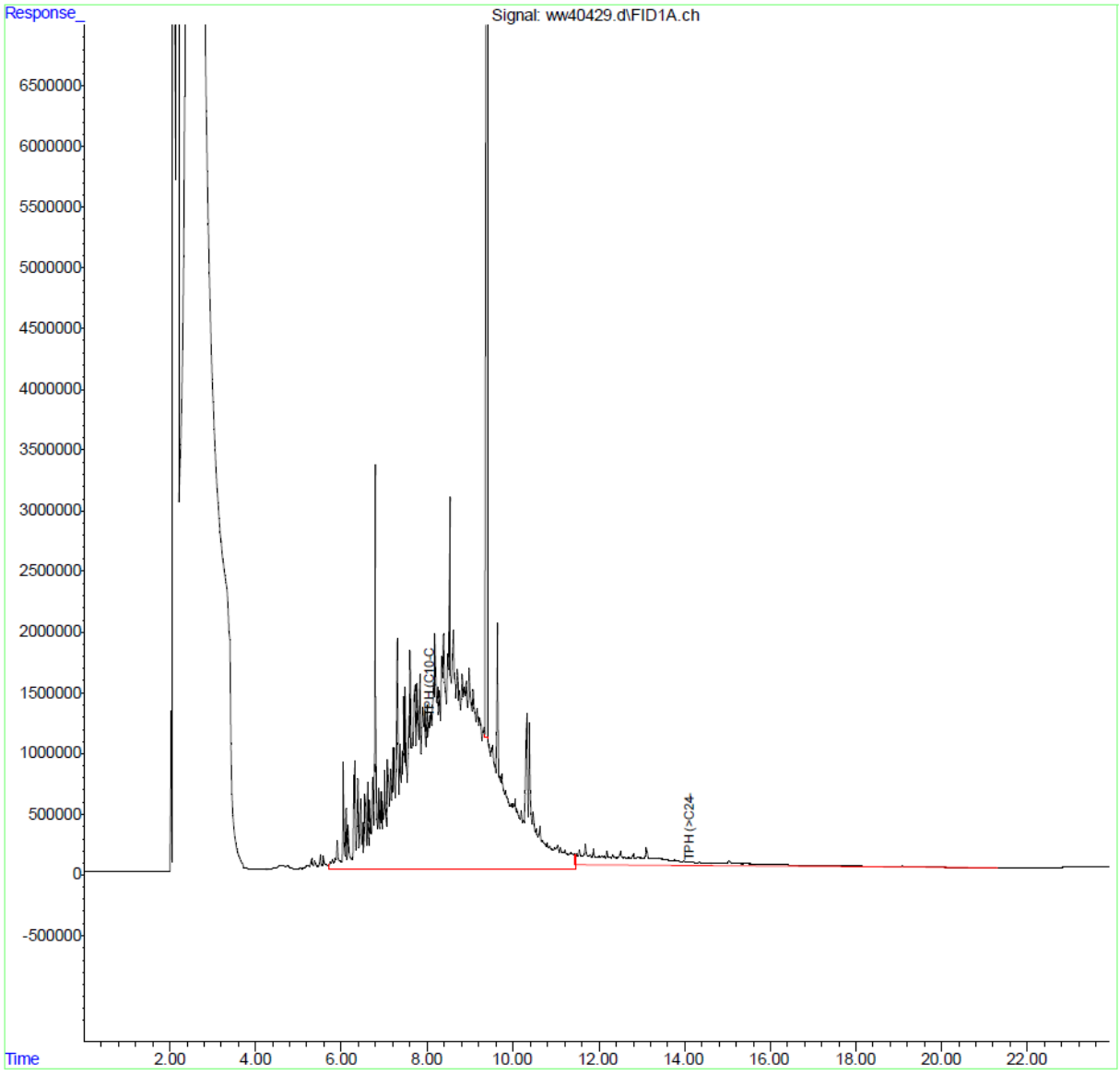
```
Quant Time: Jan 22 09:47:45 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Location: **RHMW02** Sample ID: RHMW02-WGN01LF-2306WK2 Sample Date: 6/15/2023
Lab: SGS

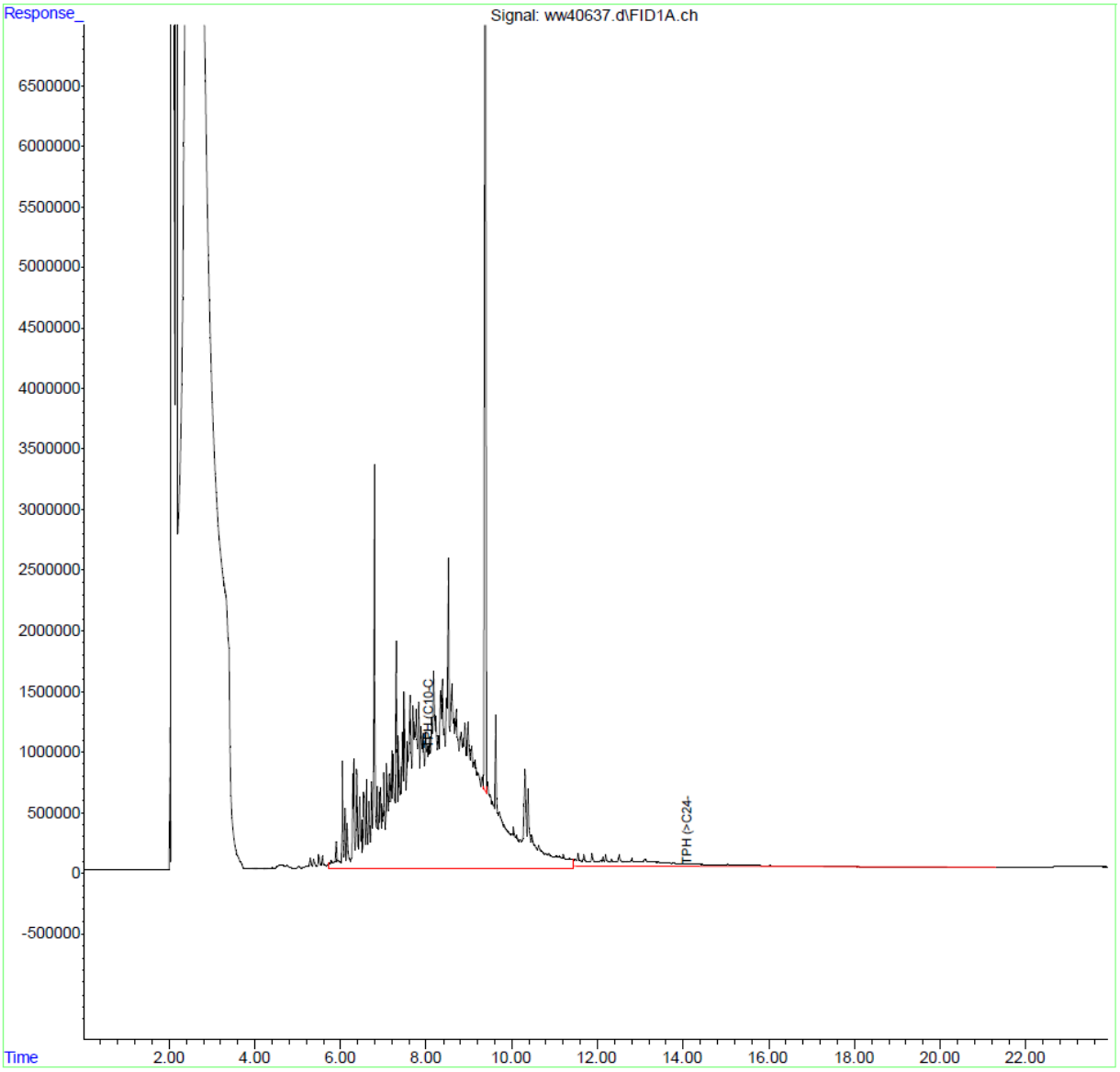
Results (ug/L): **TPH-d (C10 to C24) 2110** **TPH-o (C24 to C40) 131 J**

```
Quant Time: Jul 19 16:22:58 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_080922_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Wed Aug 10 09:31:47 2022
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 1620** **TPH-o SGC (C24 to C40) <160 U**

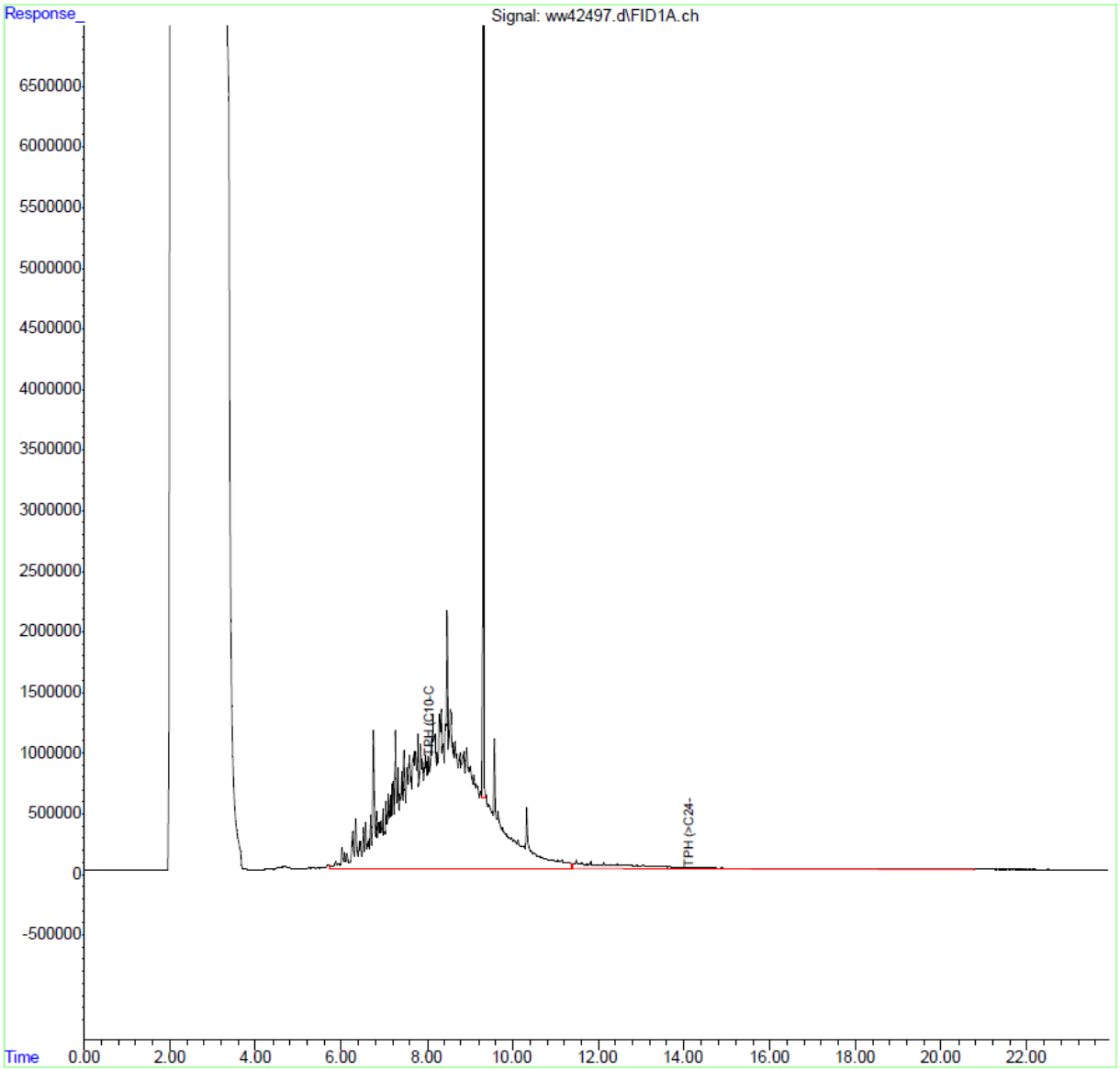
```
Quant Time: Sep 12 19:44:30 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_080922_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Wed Aug 10 09:31:47 2022
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Location: **RHMW02** Sample ID: RHMW02-WGN01LF-2309 Sample Date: 9/7/2023
Lab: SGS

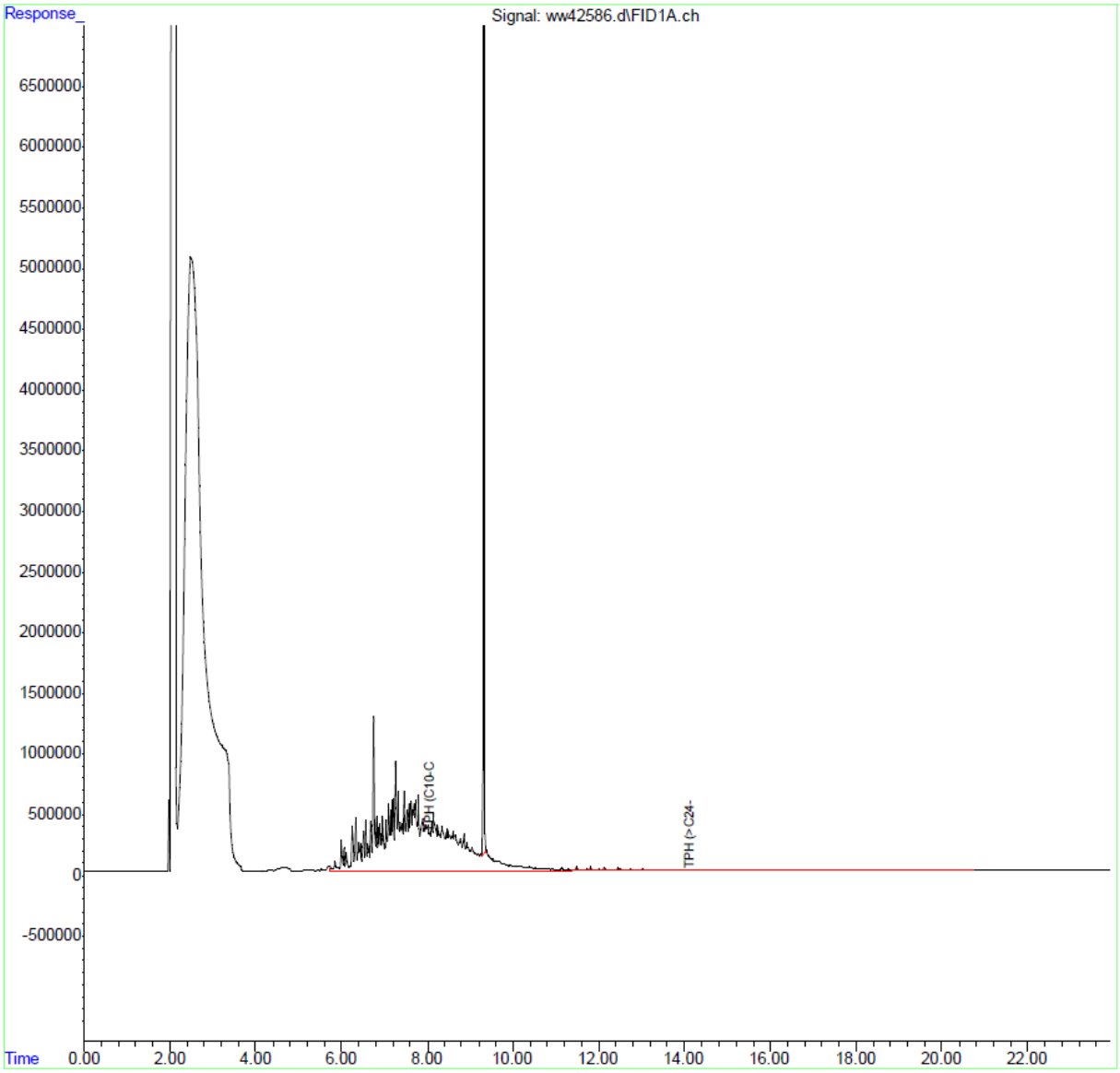
Results (ug/L): **TPH-d (C10 to C24) 1190** **TPH-o (C24 to C40) <160, U**

```
Quant Time: Sep 17 16:59:31 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 477** **TPH-o SGC (C24 to C40) <160, U**

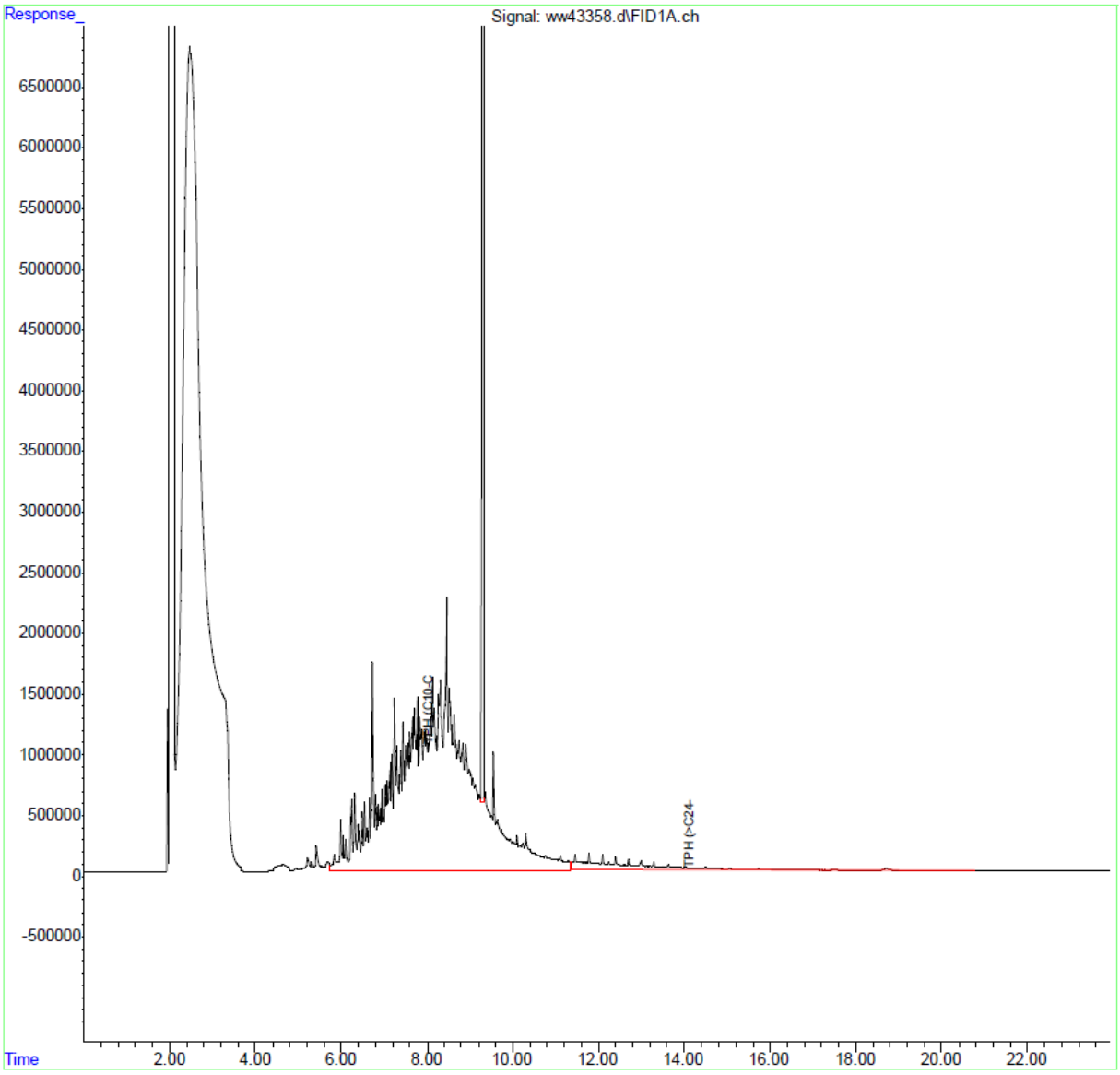
```
Quant Time: Sep 19 10:35:16 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Location: **RHMW02** Sample ID: RHMW02-WGN01LF-2310 Sample Date: 10/6/2023
Lab: SGS

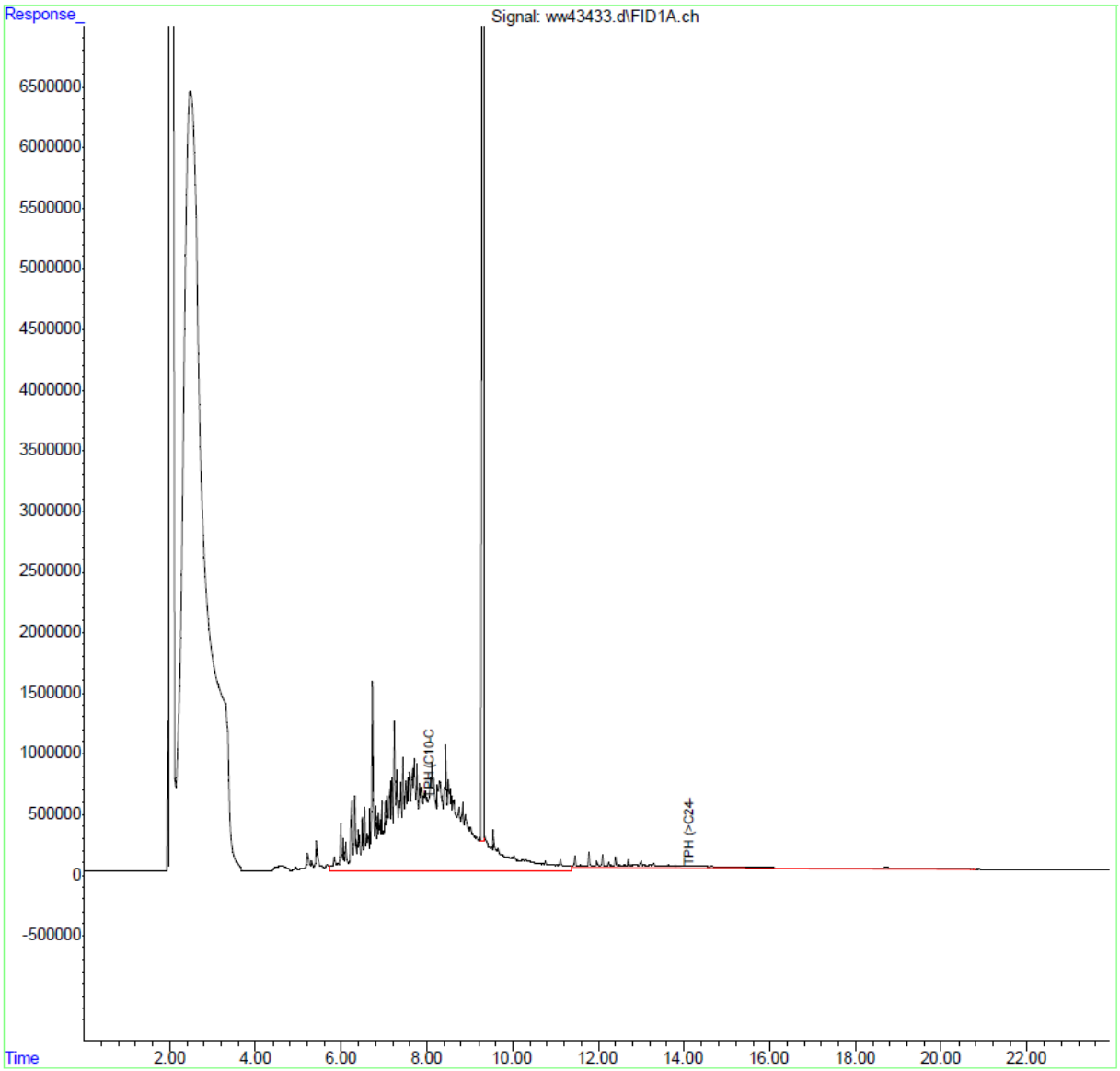
Results (ug/L): **TPH-d (C10 to C24) 1460** **TPH-o (C24 to C40) 89.5 J**

```
Quant Time: Oct 16 11:57:54 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



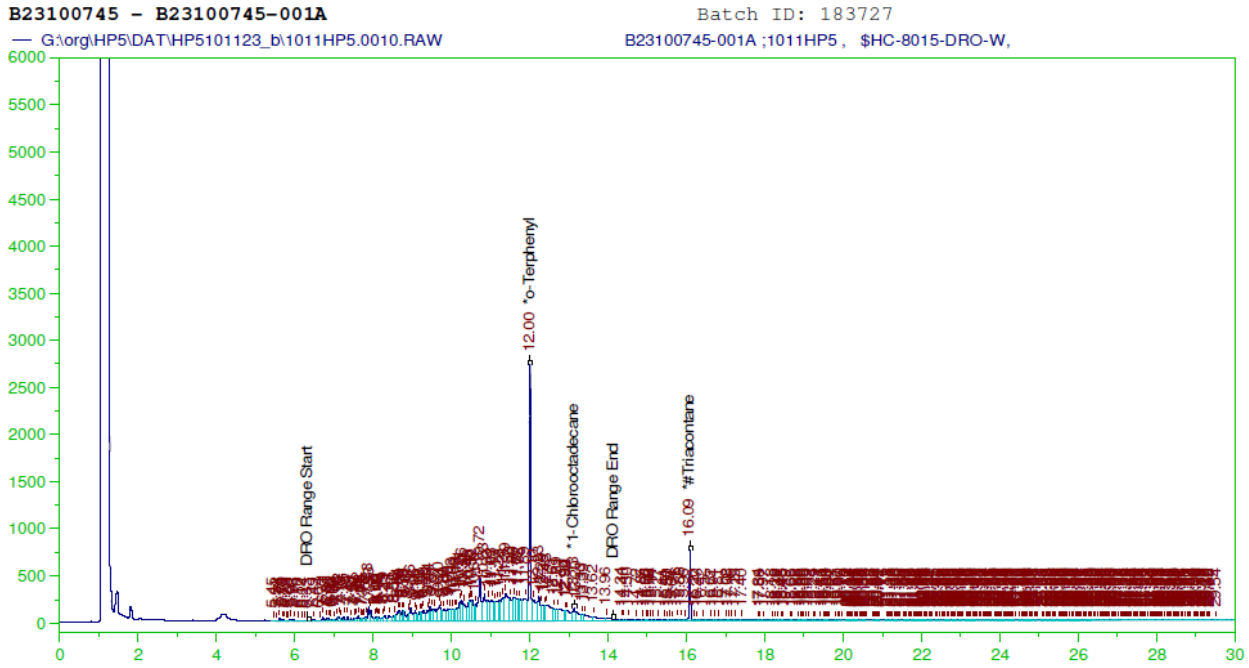
Results (ug/L): **TPH-d SGC (C10 to C24) 846** **TPH-o SGC (C24 to C40) <170 U**

```
Quant Time: Oct 17 16:18:48 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

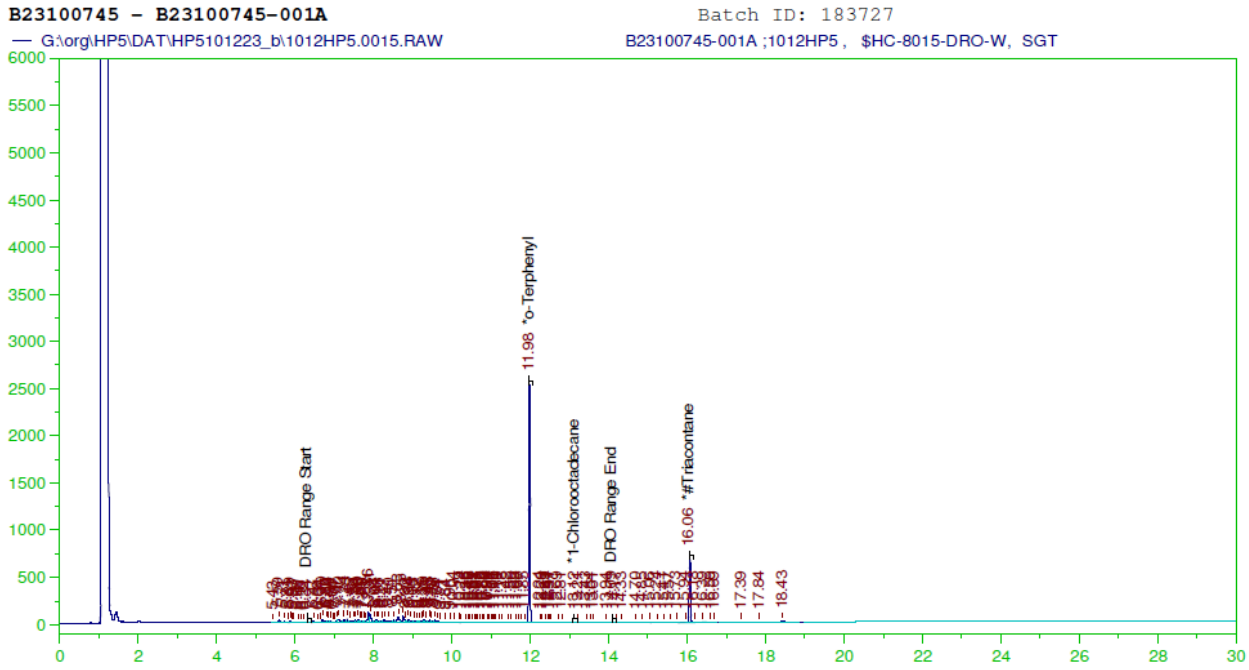


Location: **RHMW02** Sample ID: RHMW02-WGN01LF-23Q4 Sample Date: 10/9/2023
Lab: Energy

Results (ug/L): **TPH-d (C10 to C24) 1850** **TPH-o (C24 to C40) 145 J**



Results (ug/L): **TPH-d SGC (C10 to C24) 151 J** **TPH-o SGC (C24 to C40) <143 U**

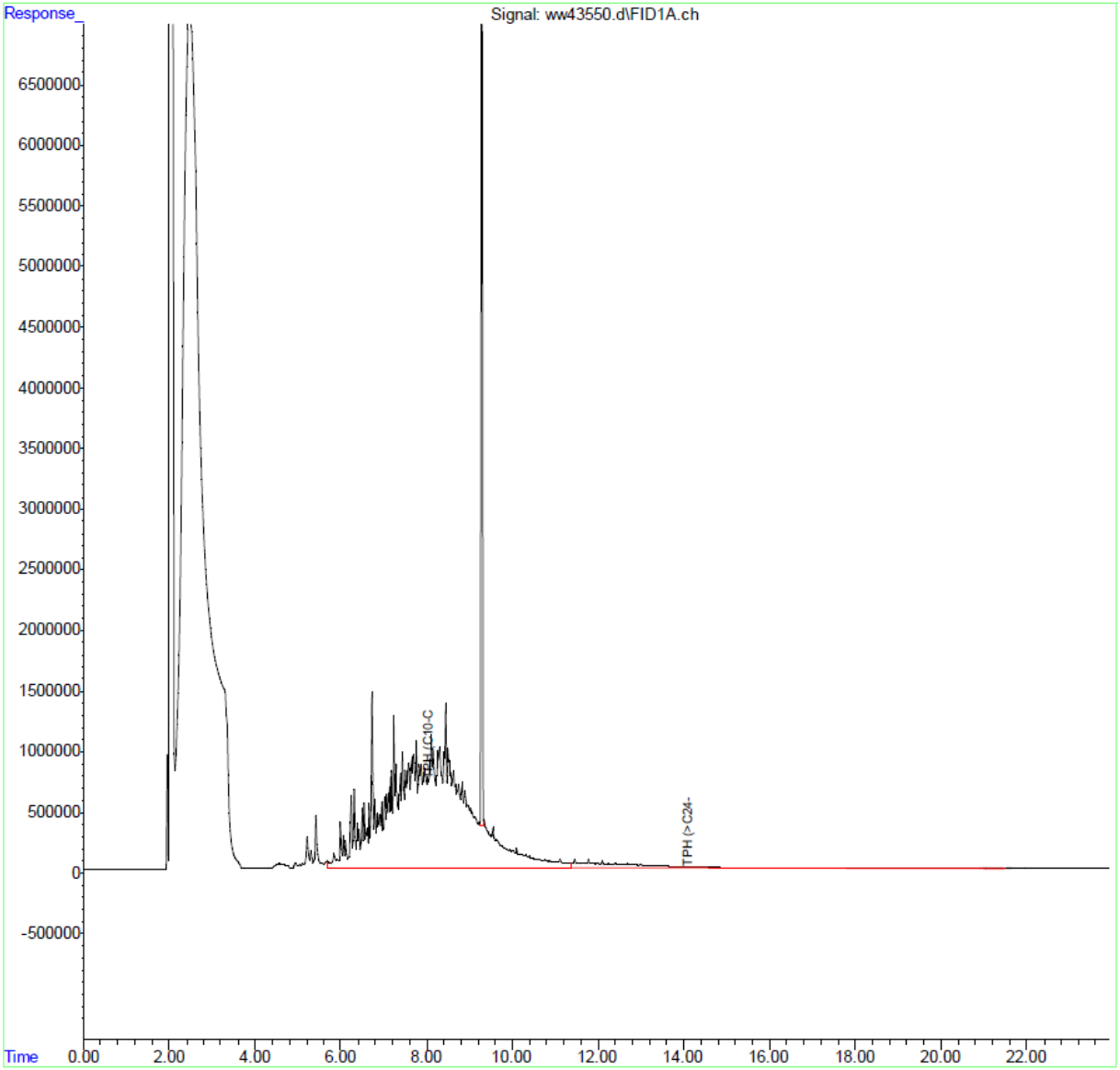


Location: **RHMW02** Sample ID: RHMW02-WGN01LF-2310WK3-DF Sample Date: 10/20/2023

Lab: SGS

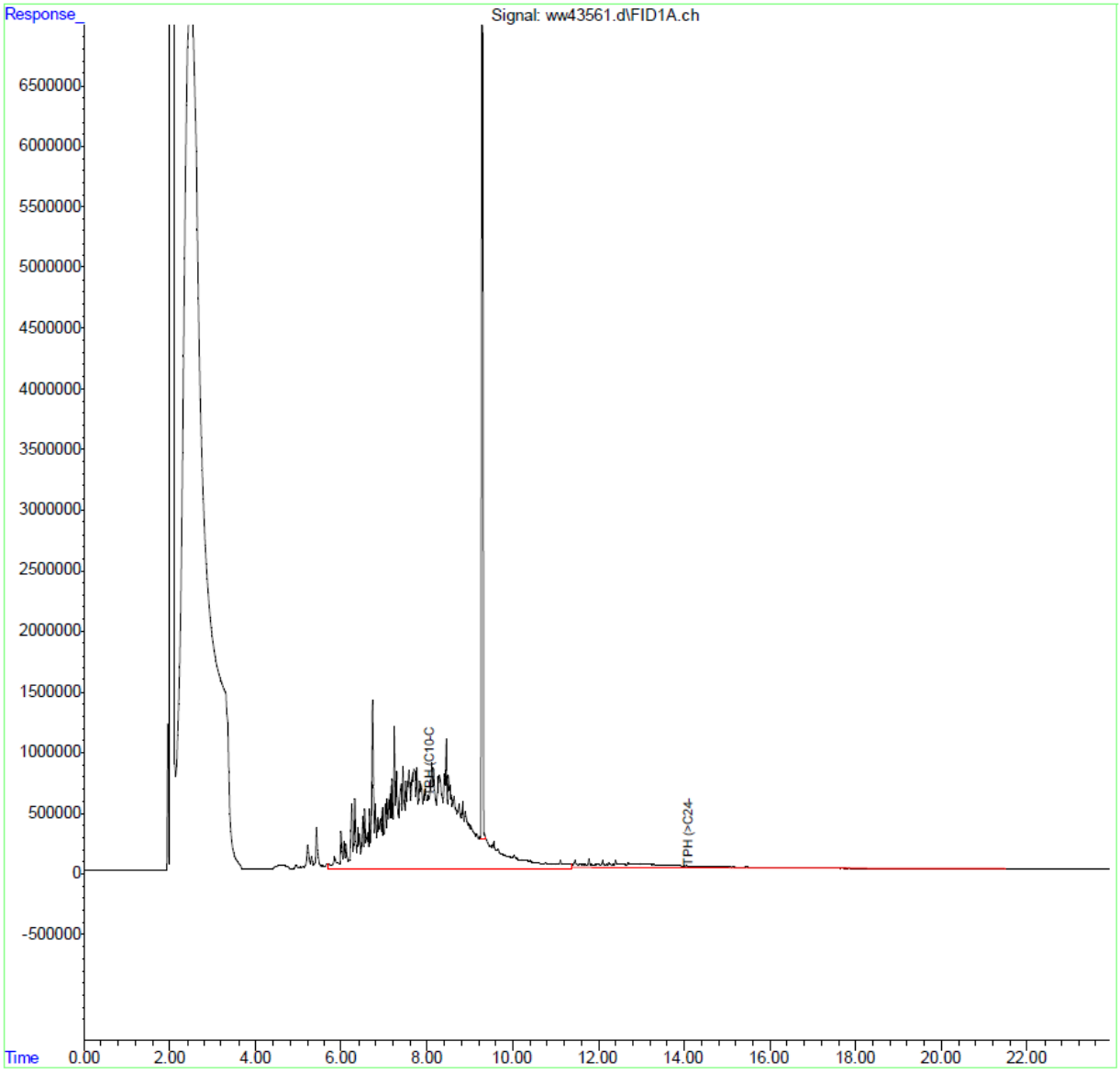
Results (ug/L): **TPH-d (C10 to C24) 990** **TPH-o (C24 to C40) <160 U**

```
Quant Time: Oct 24 10:22:16 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 814** **TPH-o SGC (C24 to C40) <160 U**

```
Quant Time: Oct 24 10:27:39 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

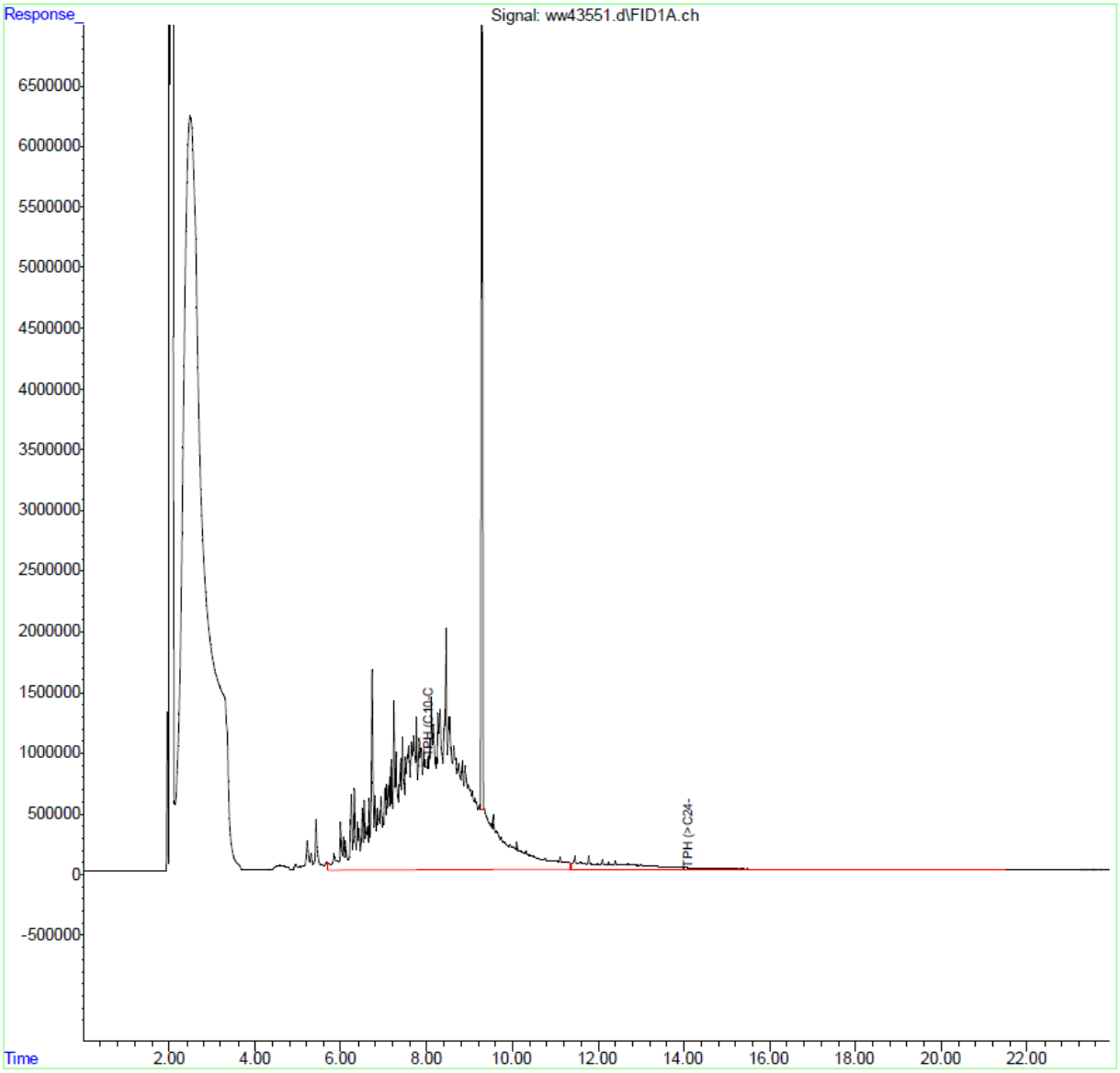


Location: **RHMW02** Sample ID: RHMW02-WGFD01LF-2310WK3-DF Sample Date: 10/20/2023

Lab: SGS

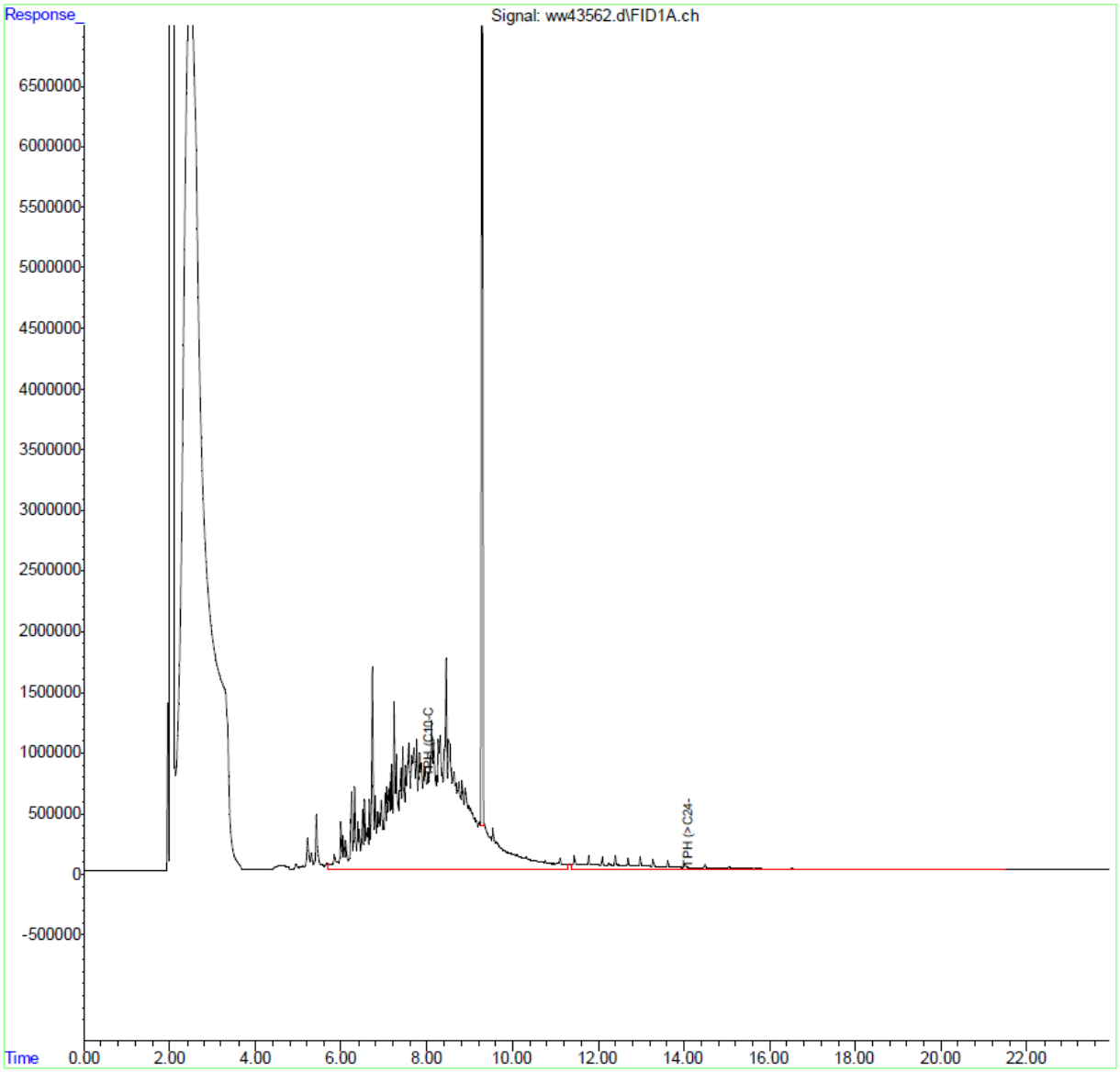
Results (ug/L): **TPH-d (C10 to C24) 1170** **TPH-o (C24 to C40) <150 U**

```
Quant Time: Oct 24 10:22:50 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 992** **TPH-o SGC (C24 to C40) <150 U**

```
Quant Time: Oct 24 10:28:08 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

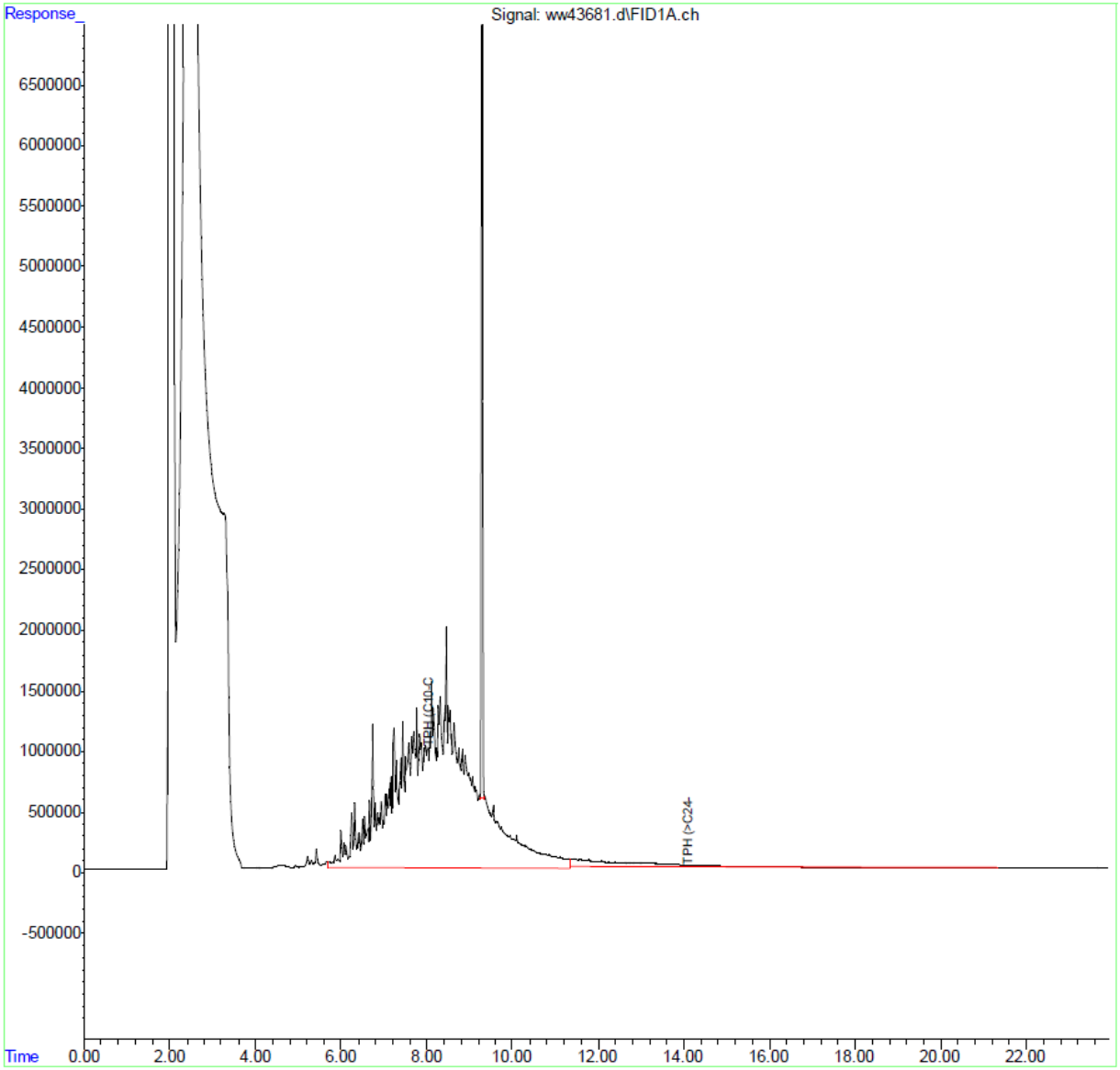


Location: **RHMW02** Sample ID: RHMW02-WGN01LF-2310WK4-DF Sample Date: 10/27/2023

Lab: SGS

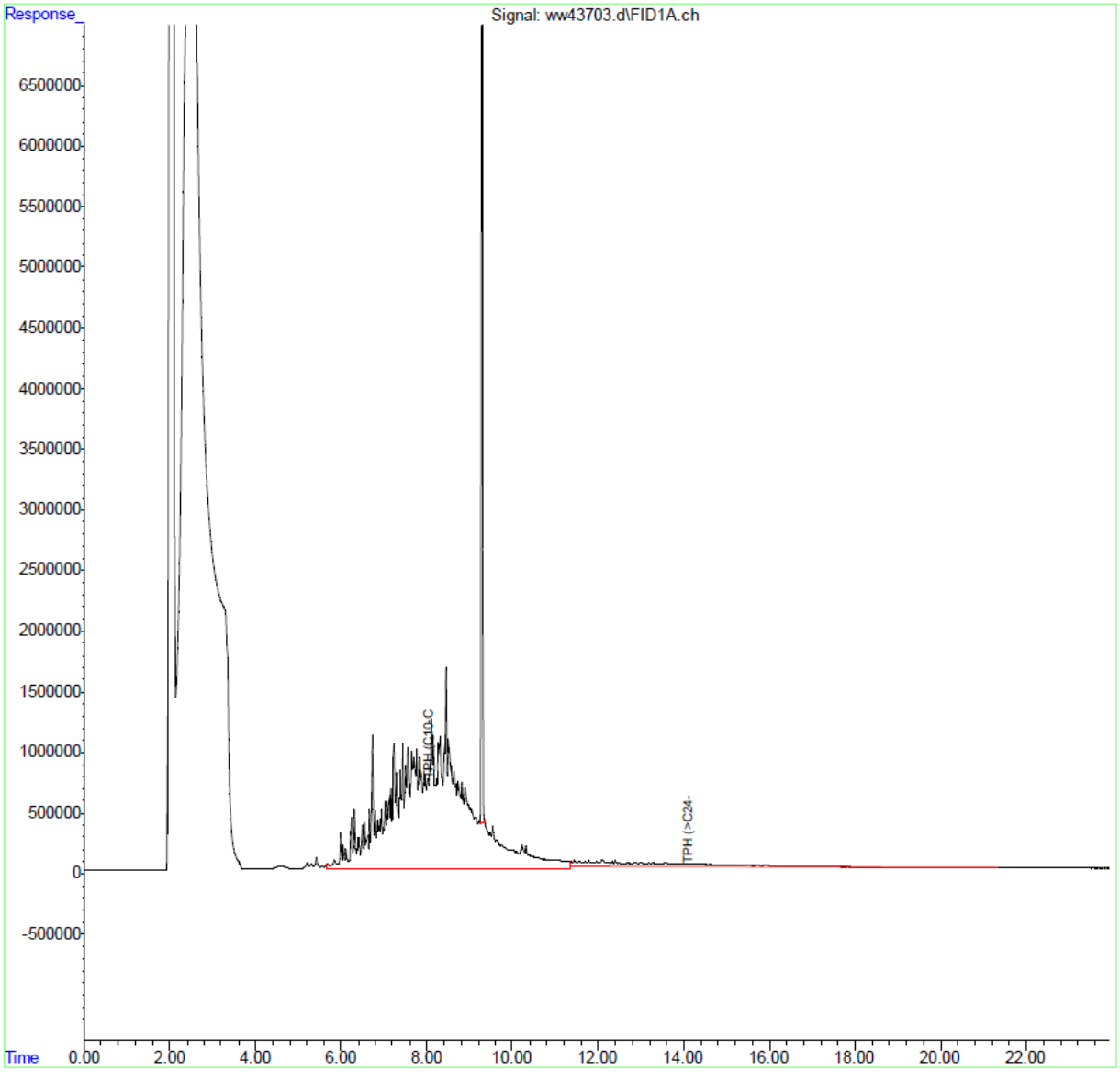
Results (ug/L): **TPH-d (C10 to C24) 1270** **TPH-o (C24 to C40) <160 U**

```
Quant Time: Oct 31 10:38:38 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 992** **TPH-o SGC (C24 to C40) <160 U**

```
Quant Time: Oct 31 13:53:50 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

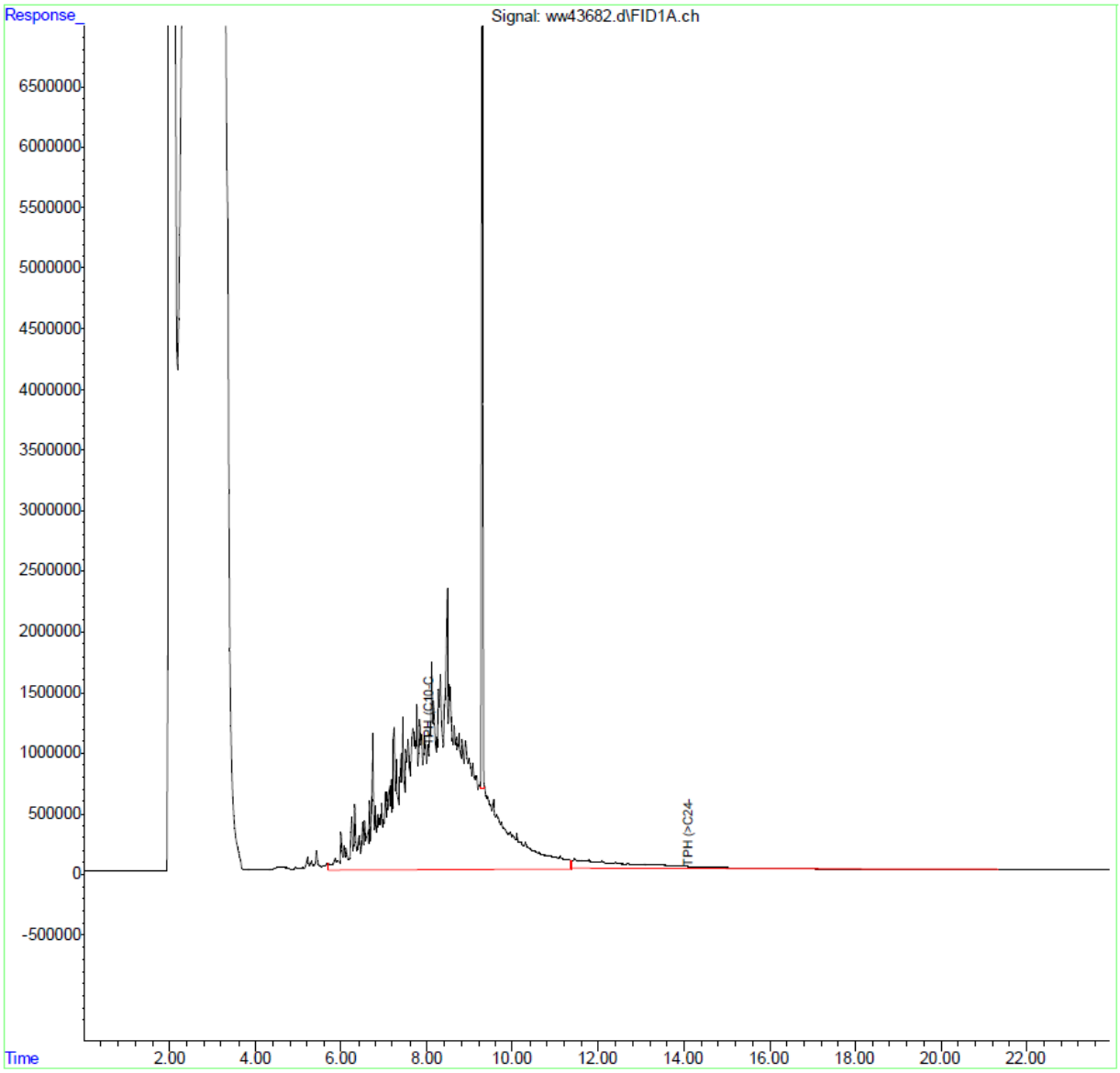


Location: **RHMW02** Sample ID: RHMW02-WGFD01LF-2310WK4-DF Sample Date: 10/27/2023

Lab: SGS

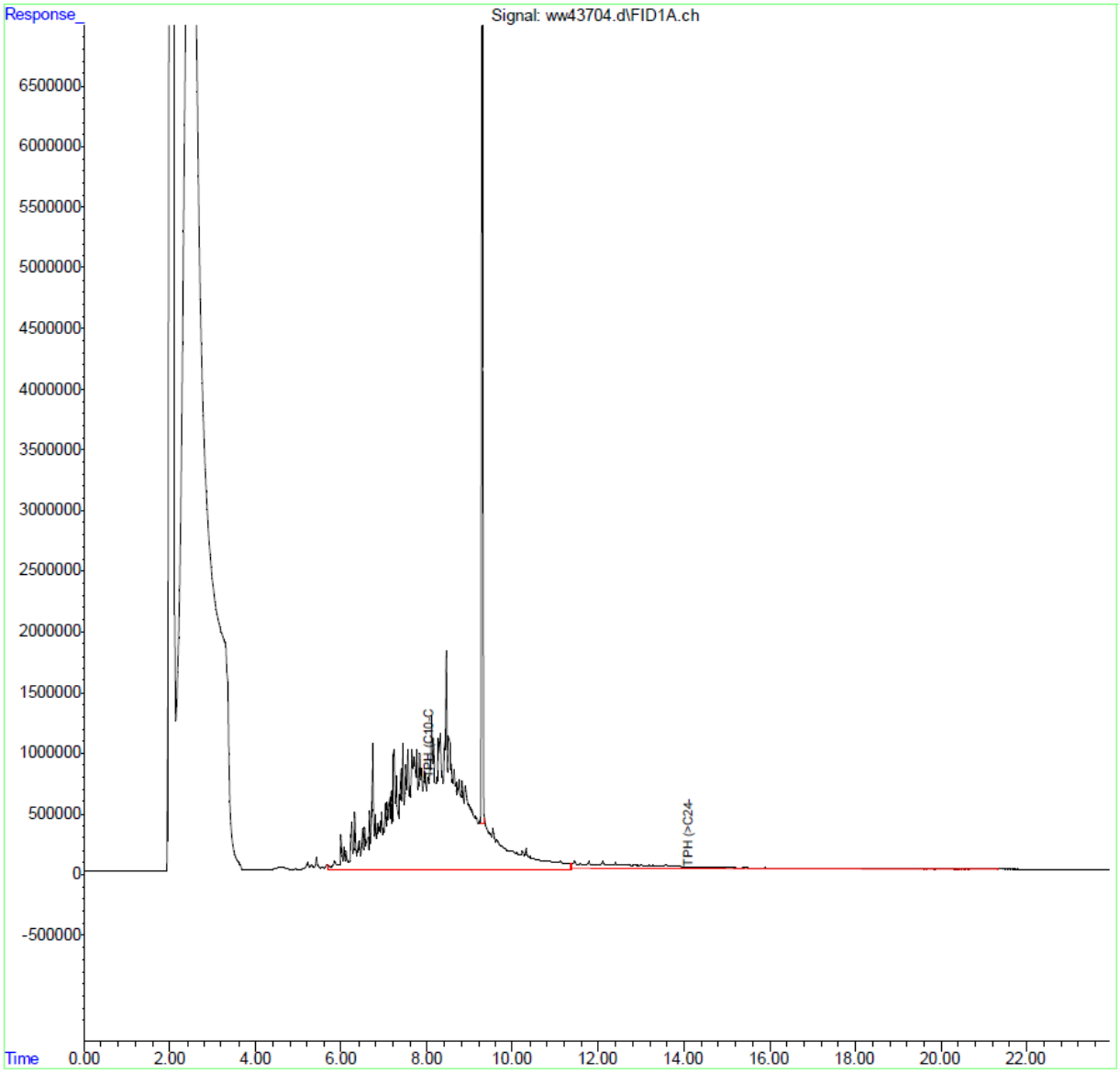
Results (ug/L): **TPH-d (C10 to C24) 1390** **TPH-o (C24 to C40) 88.5 J**

```
Quant Time: Oct 31 10:39:27 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 991** **TPH-o SGC (C24 to C40)**

```
Quant Time: Oct 31 14:36:12 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

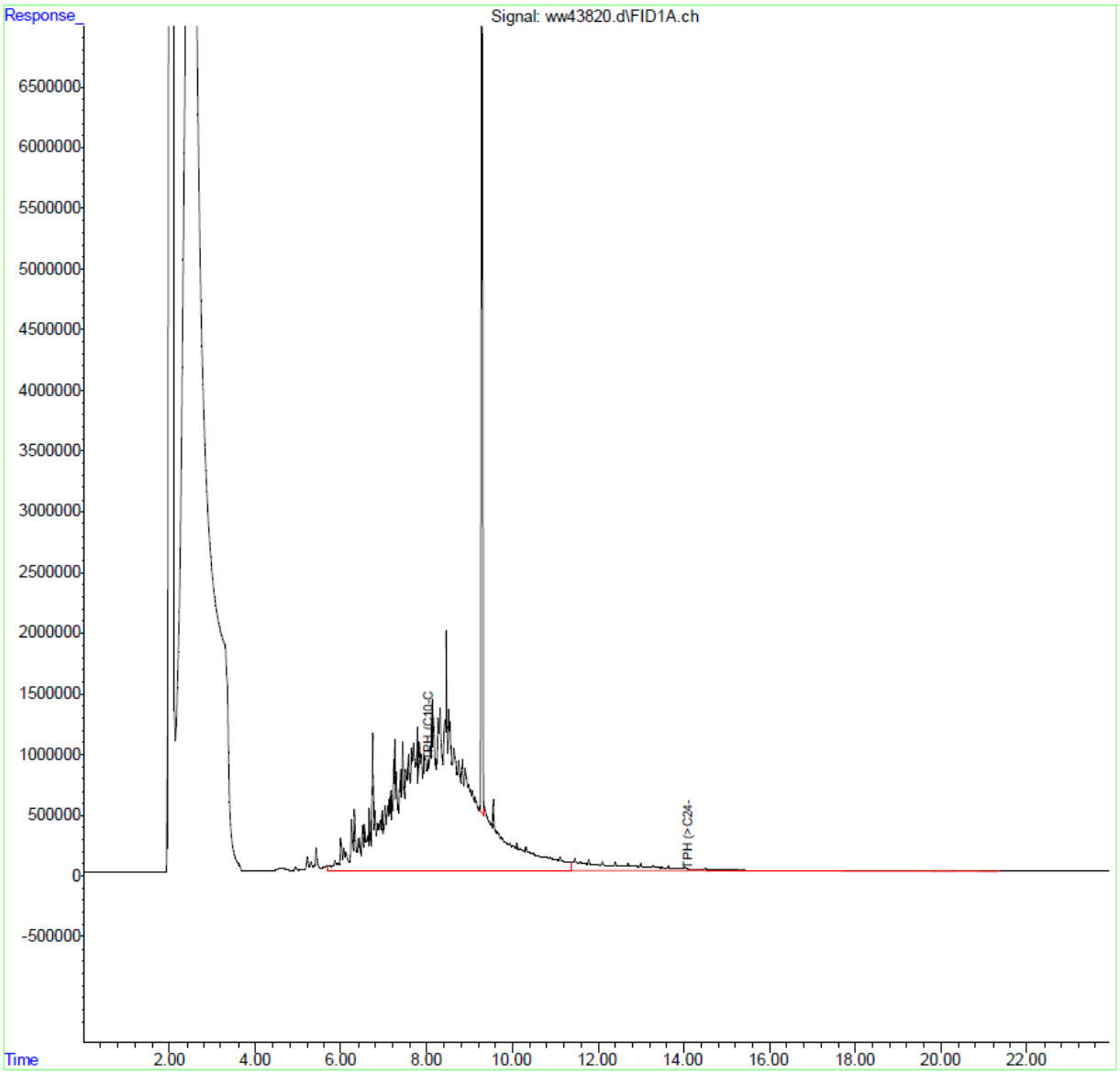


Location: **RHMW02** Sample ID: RHMW02-WGN01LF-2310WK5-DF Sample Date: 11/3/2023

Lab: SGS

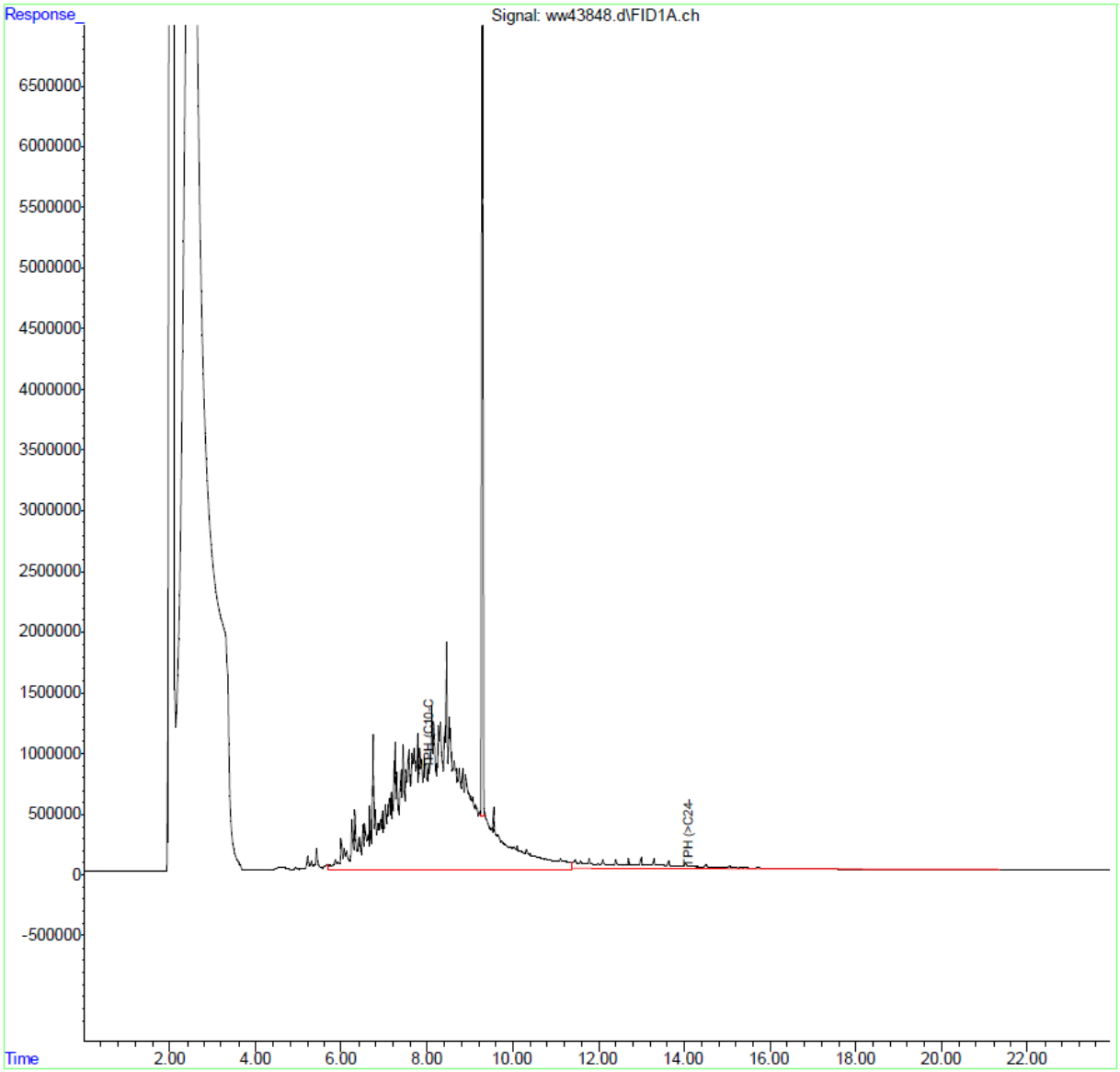
Results (ug/L): **TPH-d (C10 to C24) 1140** **TPH-o (C24 to C40) <150 U**

```
Quant Time: Nov 06 08:12:35 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 1060** **TPH-o SGC (C24 to C40) 81.3**

```
Quant Time: Nov 06 12:14:19 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

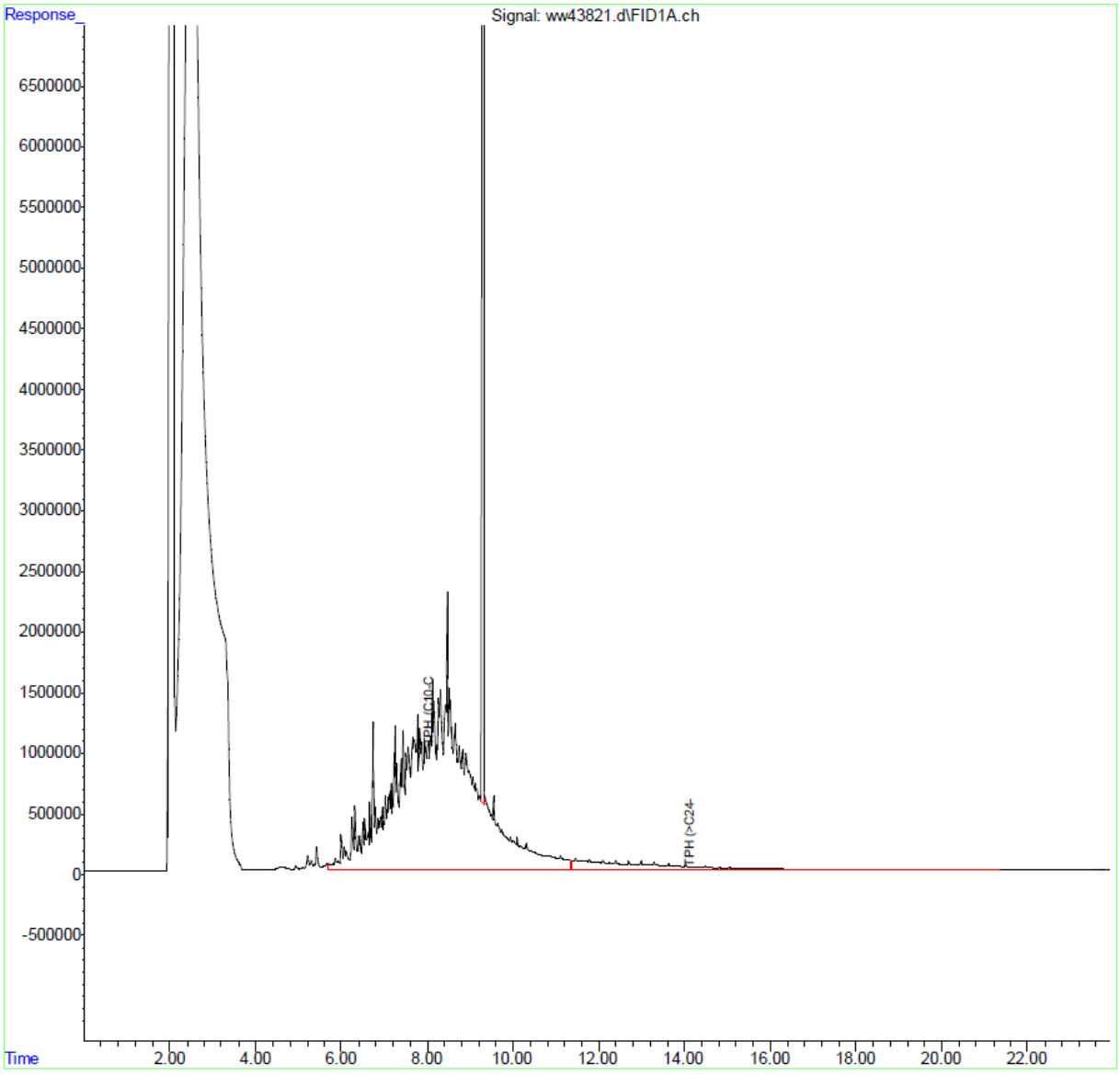


Location: **RHMW02** Sample ID: RHMW02-WGFD01LF-2310WK5-DF Sample Date: 11/3/2023

Lab: SGS

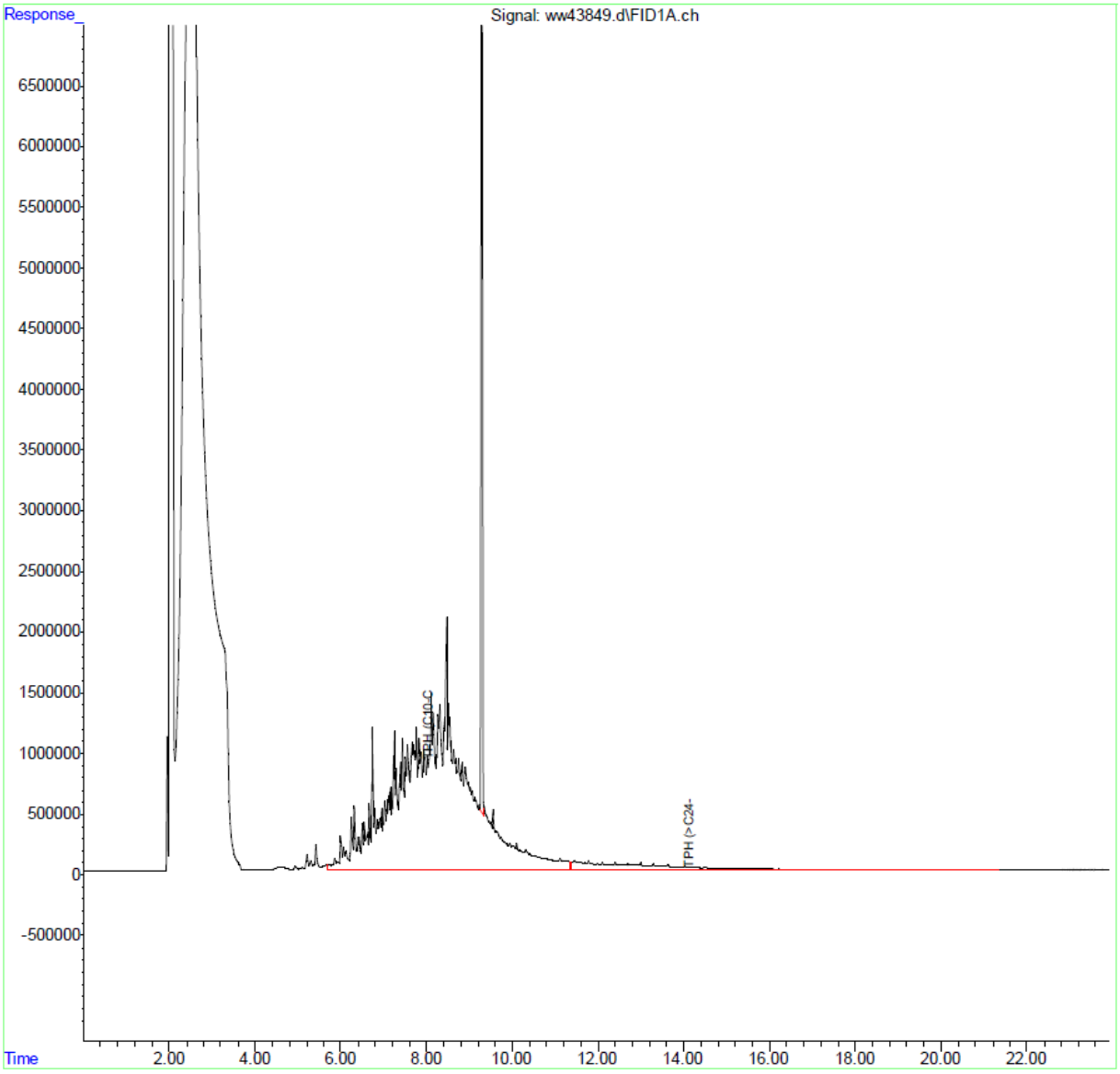
Results (ug/L): **TPH-d (C10 to C24) 1300** **TPH-o (C24 to C40) 90.6 J**

```
Quant Time: Nov 06 08:14:40 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 1190** **TPH-o SGC (C24 to C40) <160 U**

```
Quant Time: Nov 06 12:46:27 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

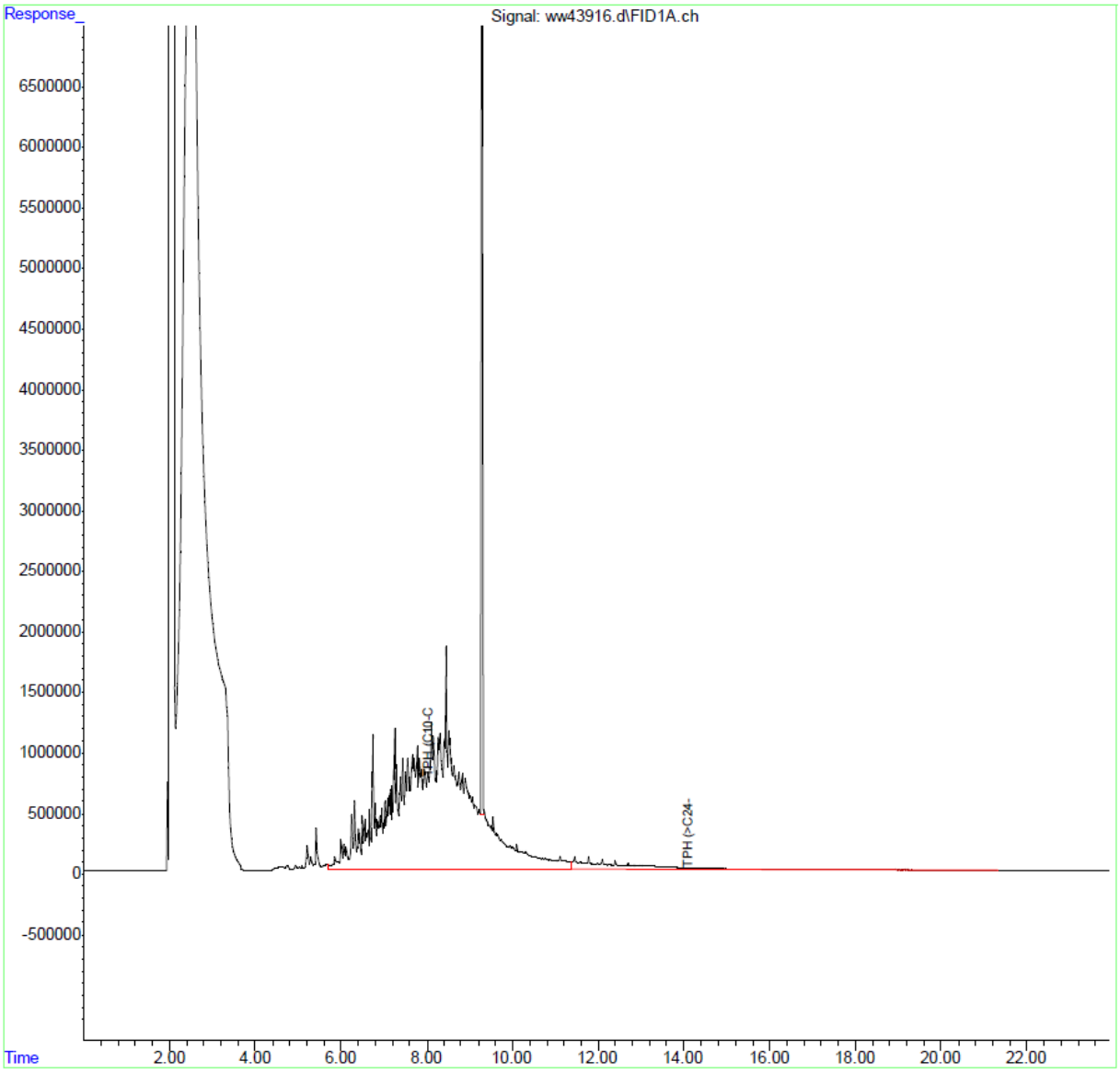


Location: **RHMW02** Sample ID: RHMW02-WGN01LF-2311-DF Sample Date: 11/7/2023

Lab: SGS

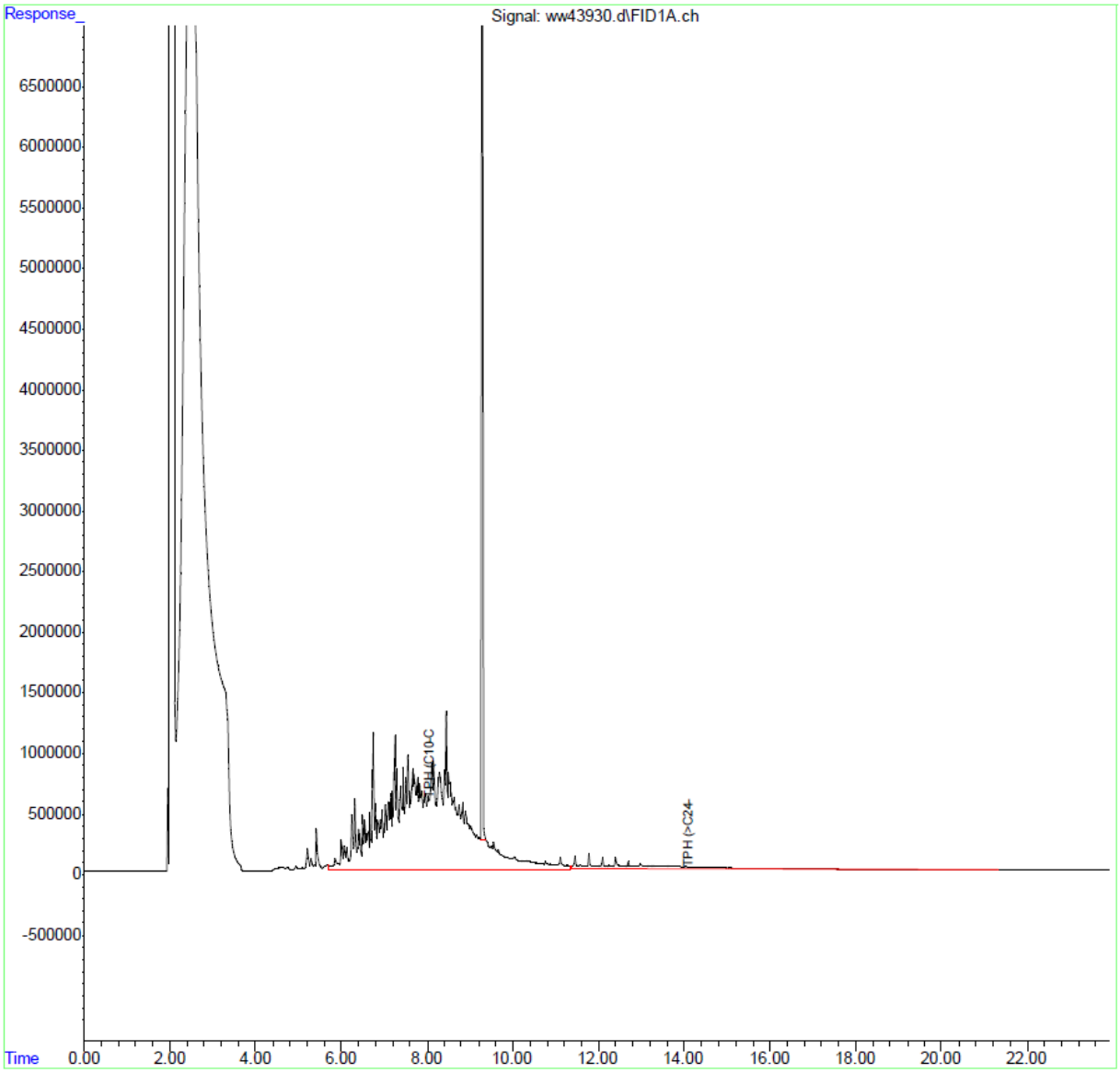
Results (ug/L): **TPH-d (C10 to C24) 1090** **TPH-o (C24 to C40) <170 U**

```
Quant Time: Nov 10 09:48:41 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 833** **TPH-o SGC (C24 to C40) <170 U**

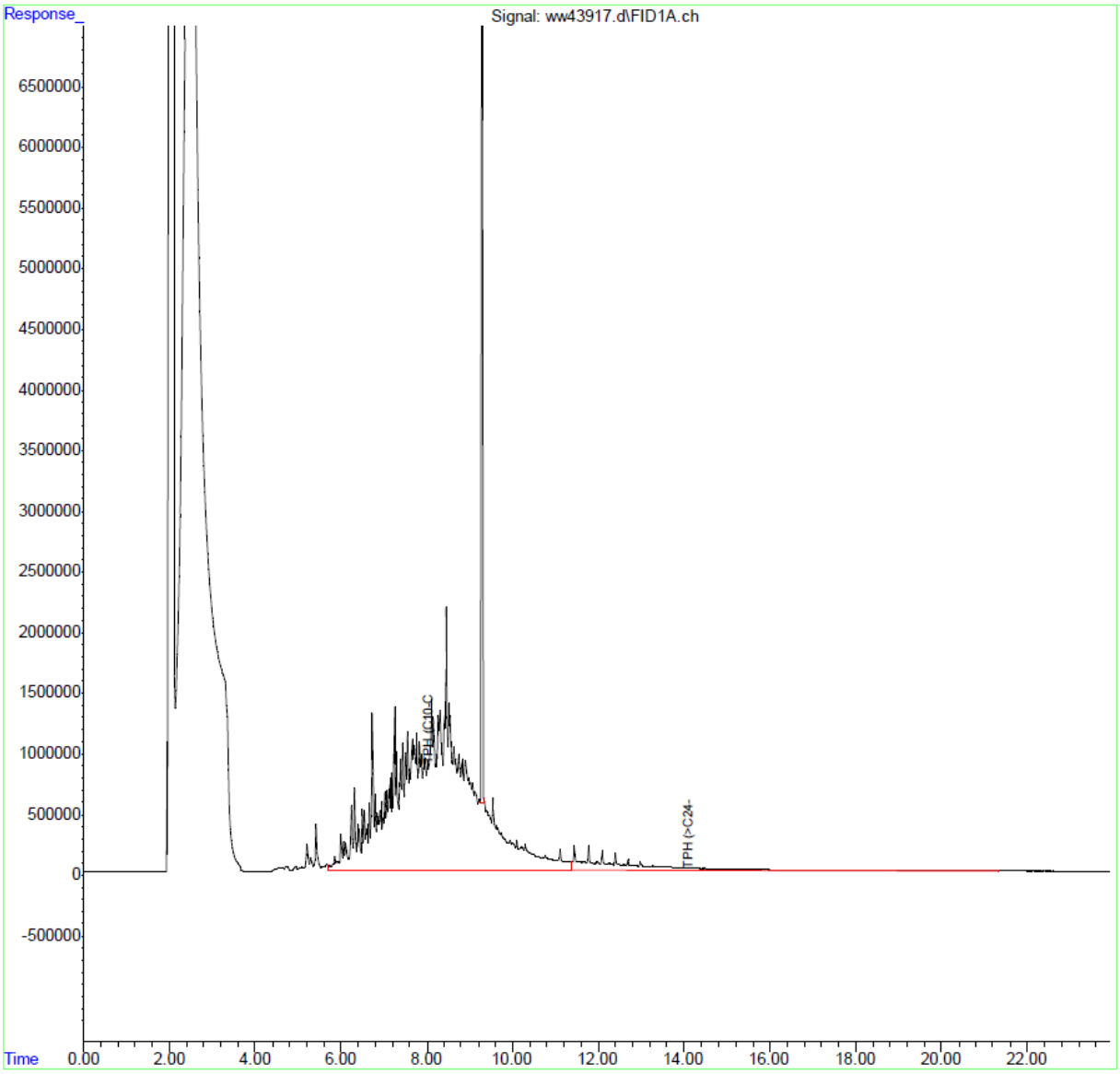
```
Quant Time: Nov 10 09:54:46 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Location: **RHMW02** Sample ID: RHMW02-WGFD01LF-2311-DF Sample Date: 11/7/2023
Lab: SGS

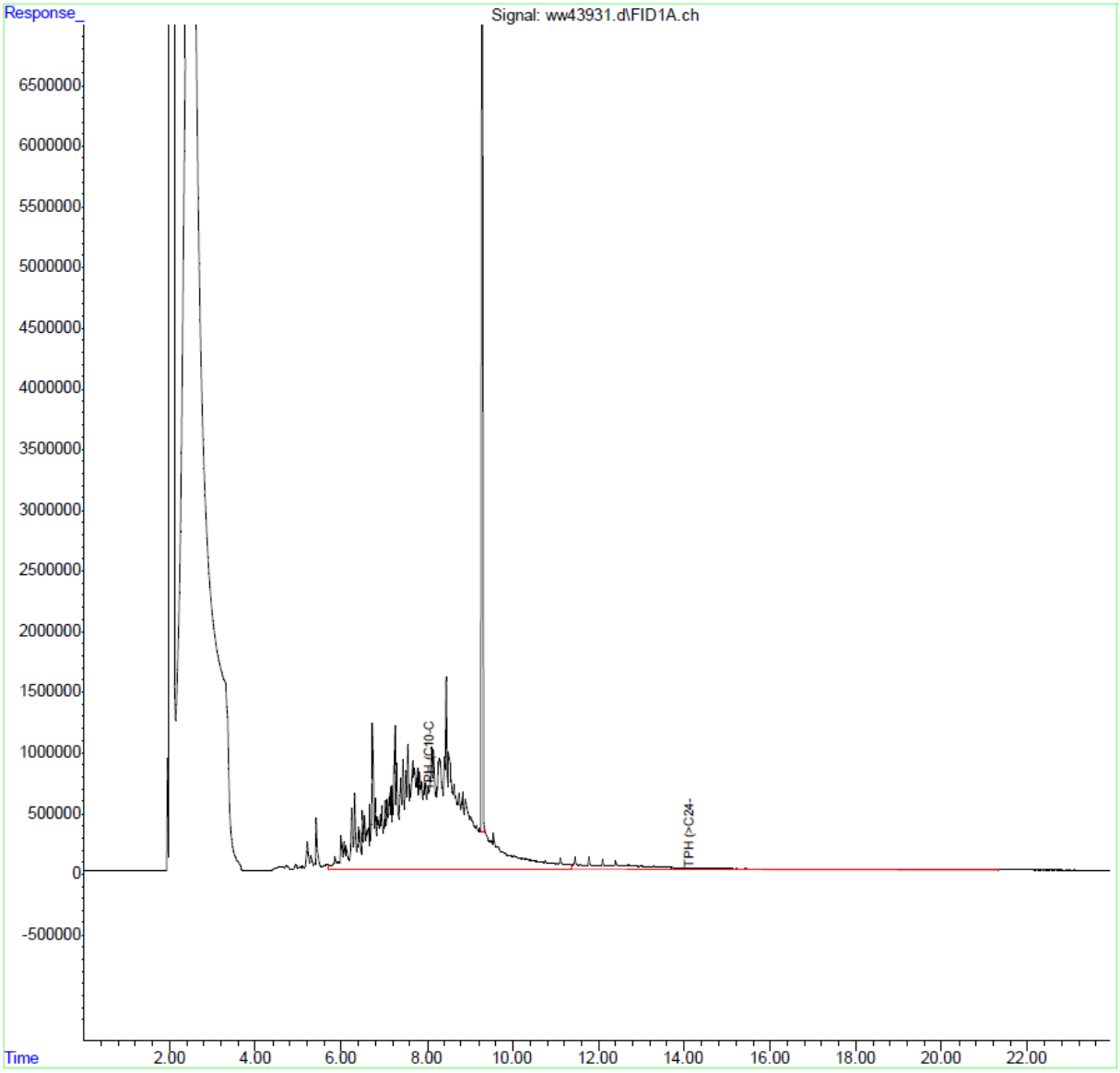
Results (ug/L): **TPH-d (C10 to C24) 1270** **TPH-o (C24 to C40) 97.4 J**

```
Quant Time: Nov 10 09:49:07 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 941** **TPH-o SGC (C24 to C40) <170 U**

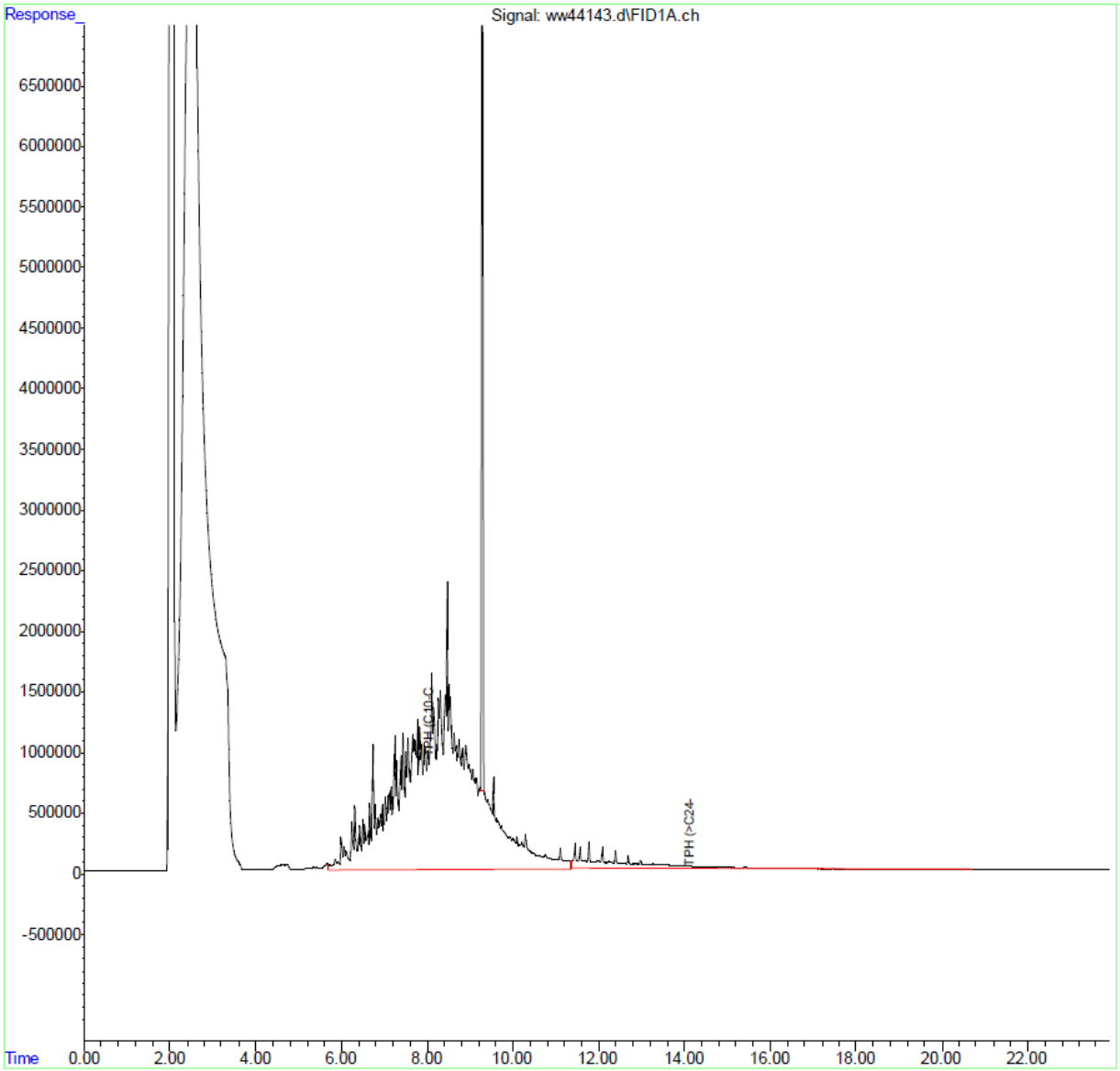
```
Quant Time: Nov 10 09:55:41 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Location: **RHMW02** Sample ID: RHMW02-WGN01LF-2311WK2-DF Sample Date: 11/17/2023
Lab: SGS

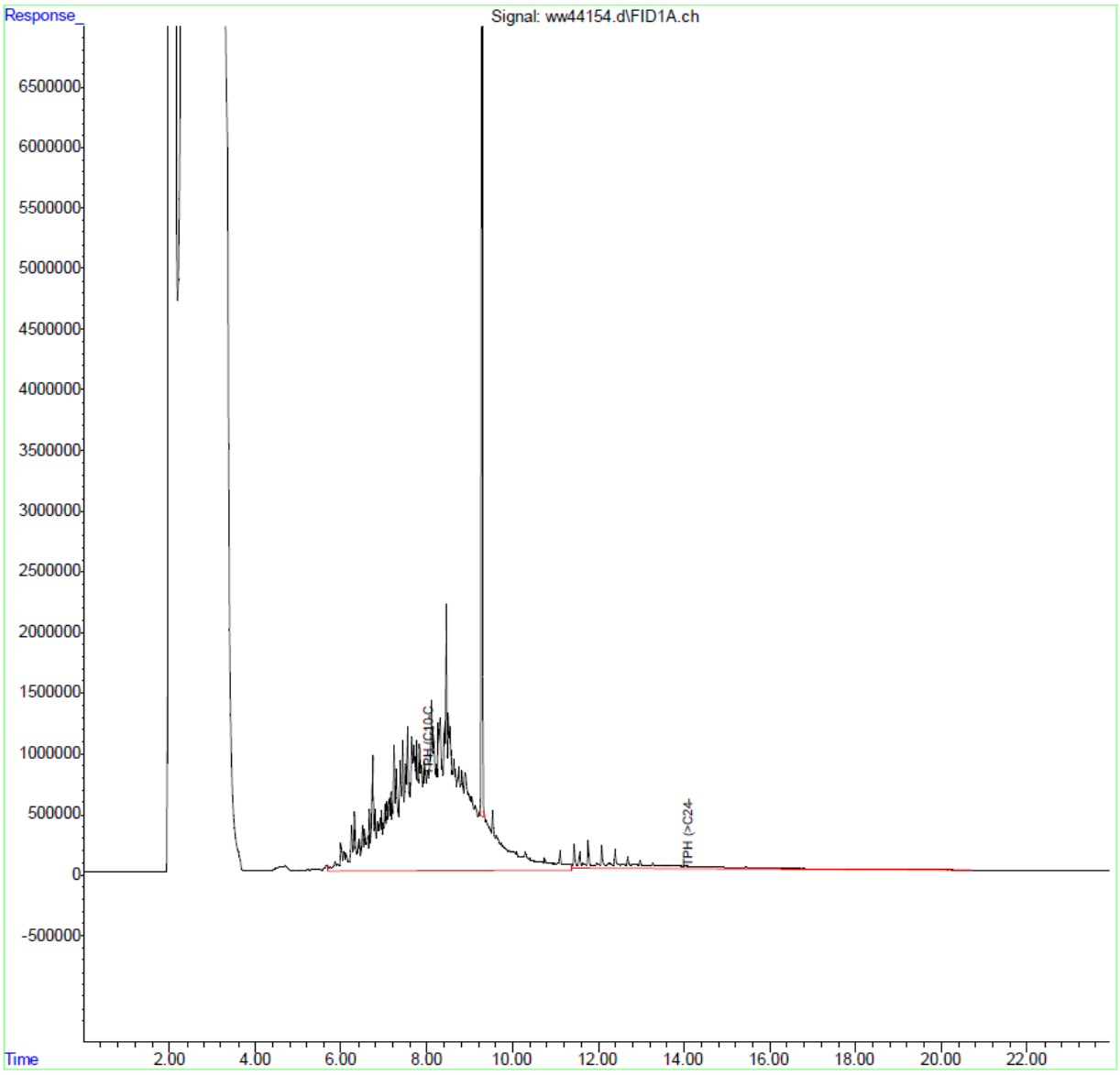
Results (ug/L): **TPH-d (C10 to C24) 1360** **TPH-o (C24 to C40) 101 J**

```
Quant Time: Nov 20 09:41:33 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 1110** **TPH-o SGC (C24 to C40) 91.8 J**

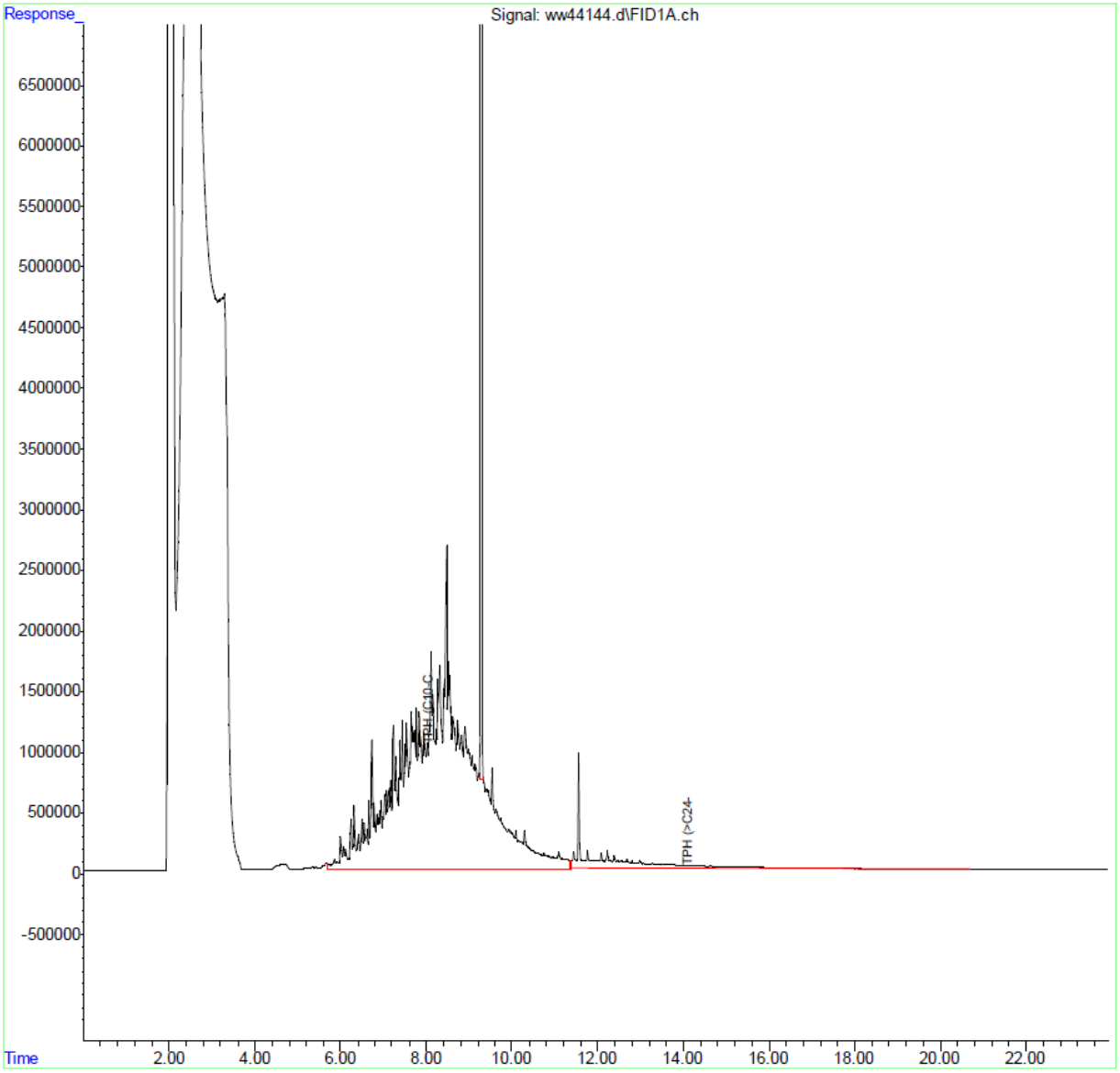
```
Quant Time: Nov 20 09:46:13 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Location: **RHMW02** Sample ID: RHMW02-WGFD01LF-2311WK2-DF Sample Date: 11/17/2023
Lab: SGS

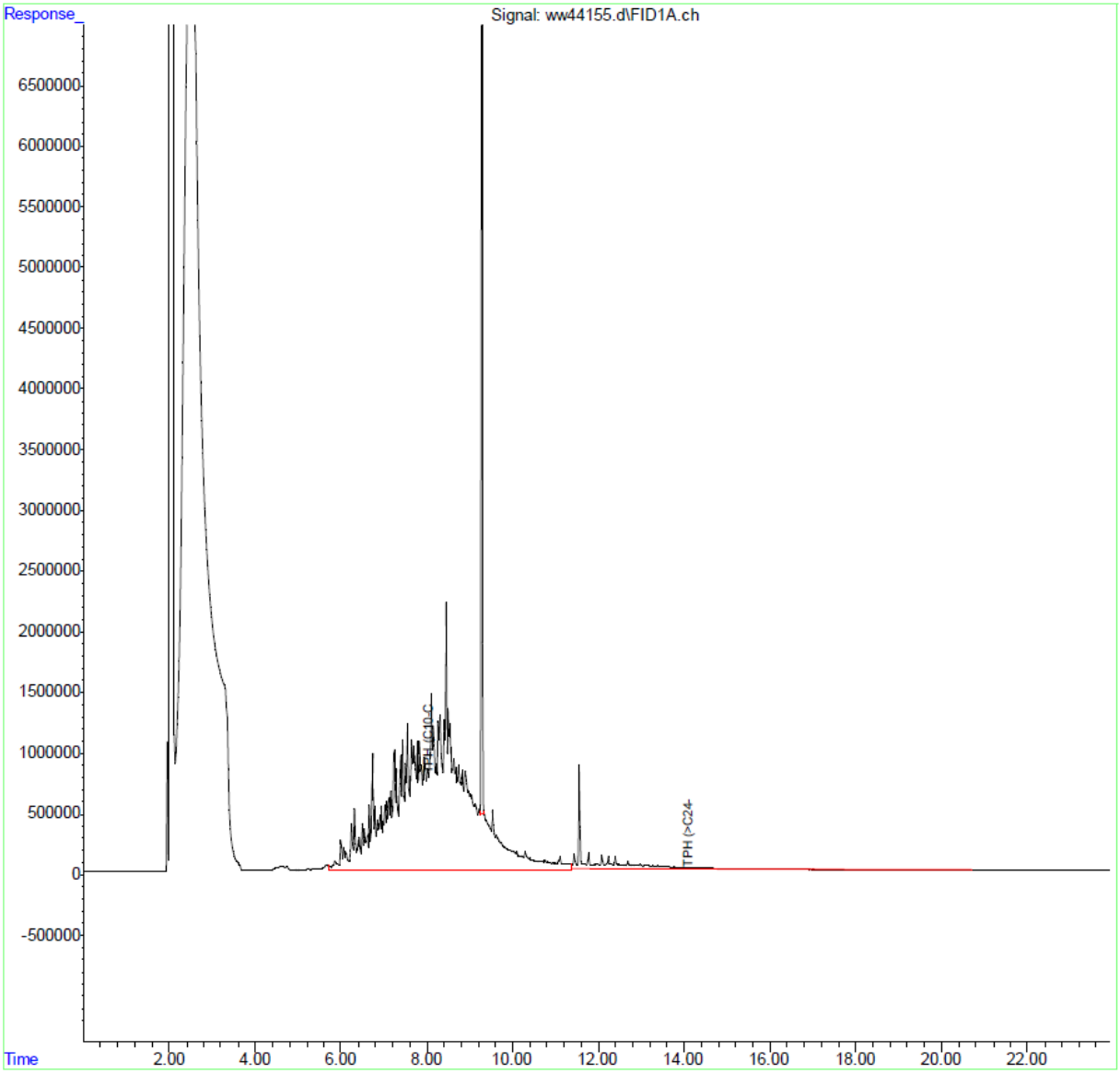
Results (ug/L): **TPH-d (C10 to C24) 1500** **TPH-o (C24 to C40) 121 J**

```
Quant Time: Nov 20 09:42:04 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 1140** **TPH-o SGC (C24 to C40) 89.2 J**

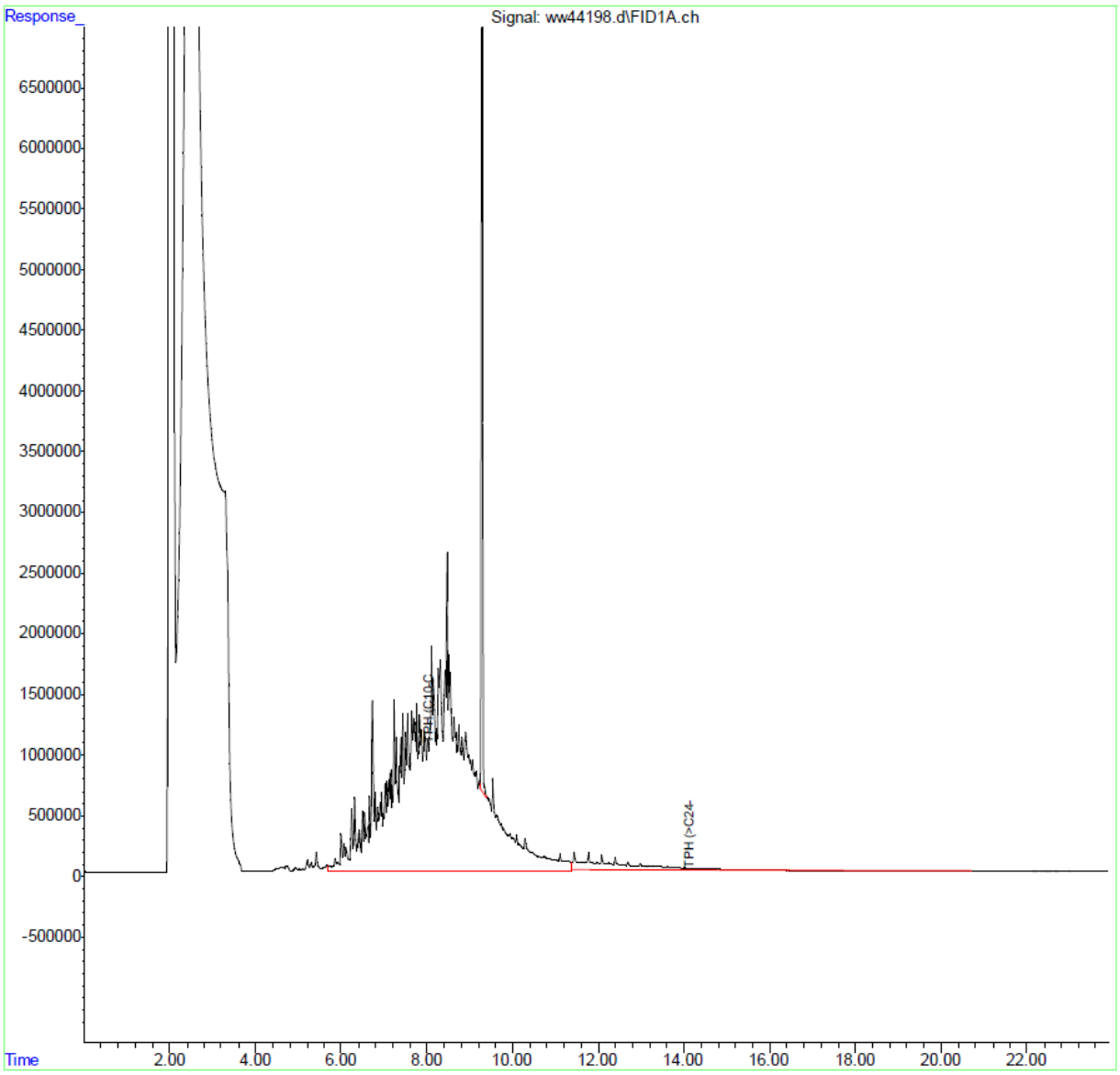
```
Quant Time: Nov 20 09:46:43 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Location: **RHMW02** Sample ID: RHMW02-WGN01LF-2311WK3-DF Sample Date: 11/21/2023
Lab: SGS

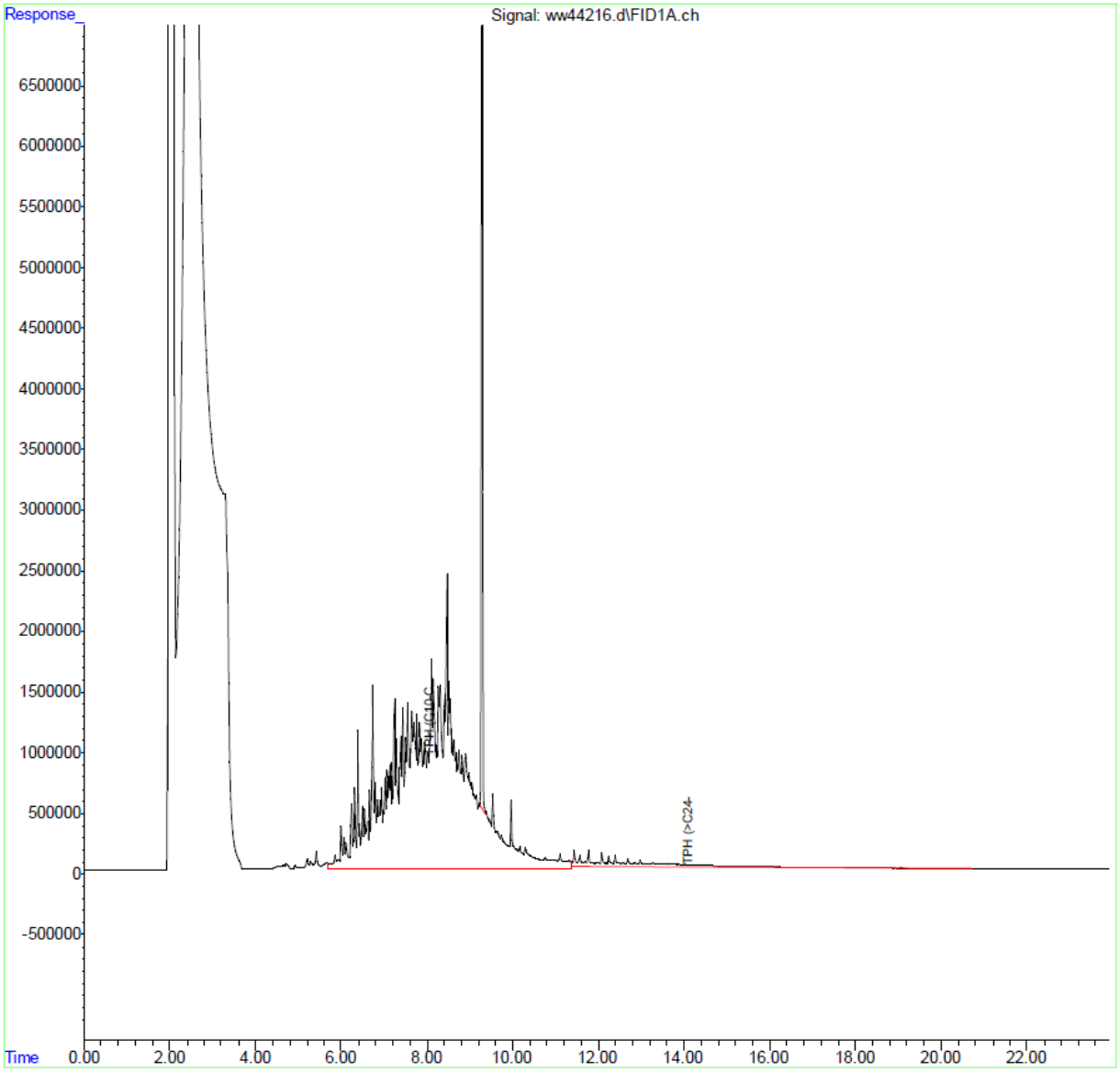
Results (ug/L): **TPH-d (C10 to C24) 1530** **TPH-o (C24 to C40) 99.4 J**

```
Quant Time: Nov 24 09:59:52 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 1360** **TPH-o SGC (C24 to C40) 87.3 J**

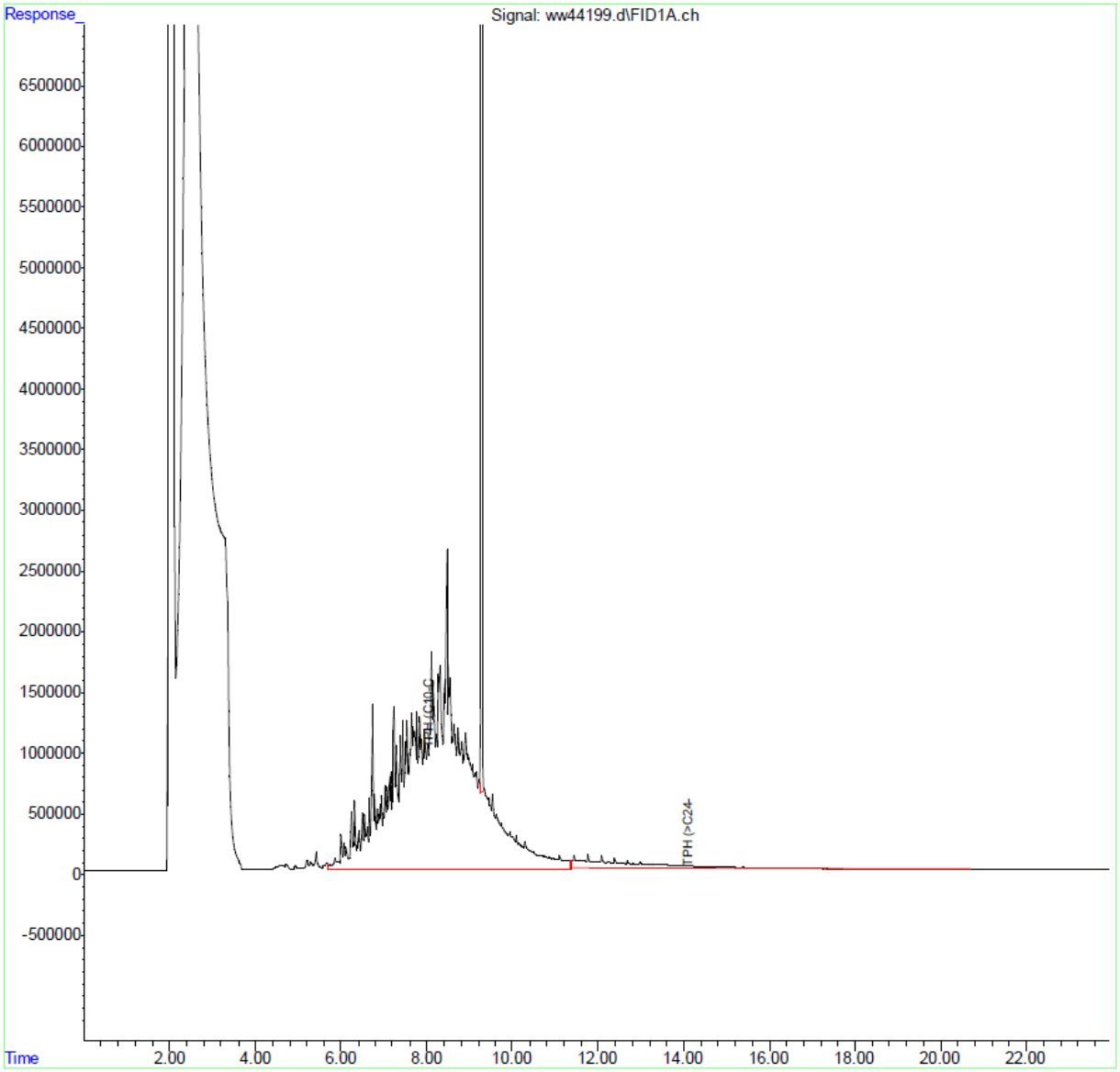
```
Quant Time: Nov 24 10:14:21 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Location: **RHMW02** Sample ID: RHMW02-WGFD01LF-2311WK3-DF Sample Date: 11/21/2023
Lab: SGS

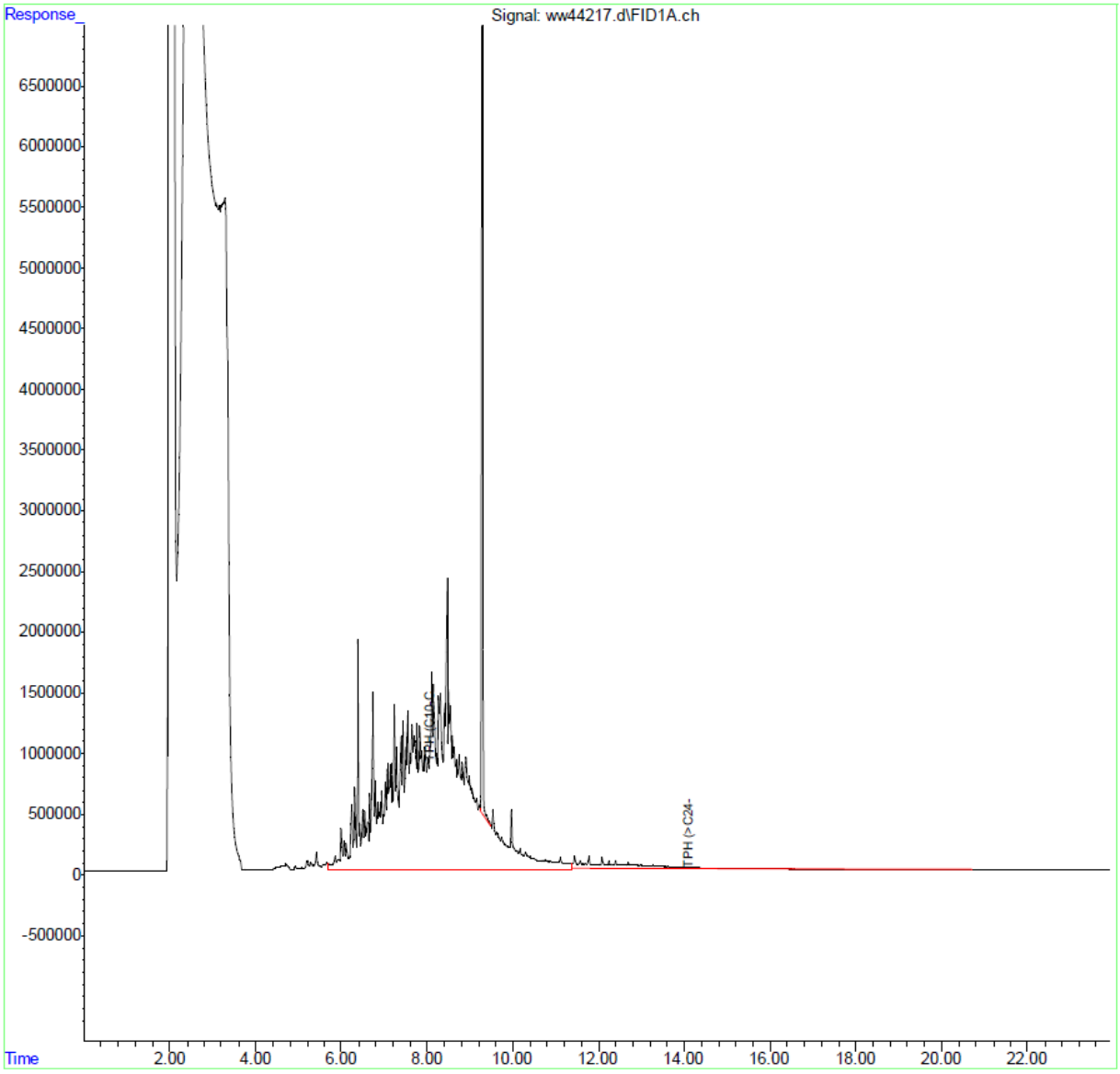
Results (ug/L): **TPH-d (C10 to C24) 1480** **TPH-o (C24 to C40) 91.6 J**

```
Quant Time: Nov 24 10:00:14 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 1320** **TPH-o SGC (C24 to C40) <170 U**

```
Quant Time: Nov 24 10:14:47 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

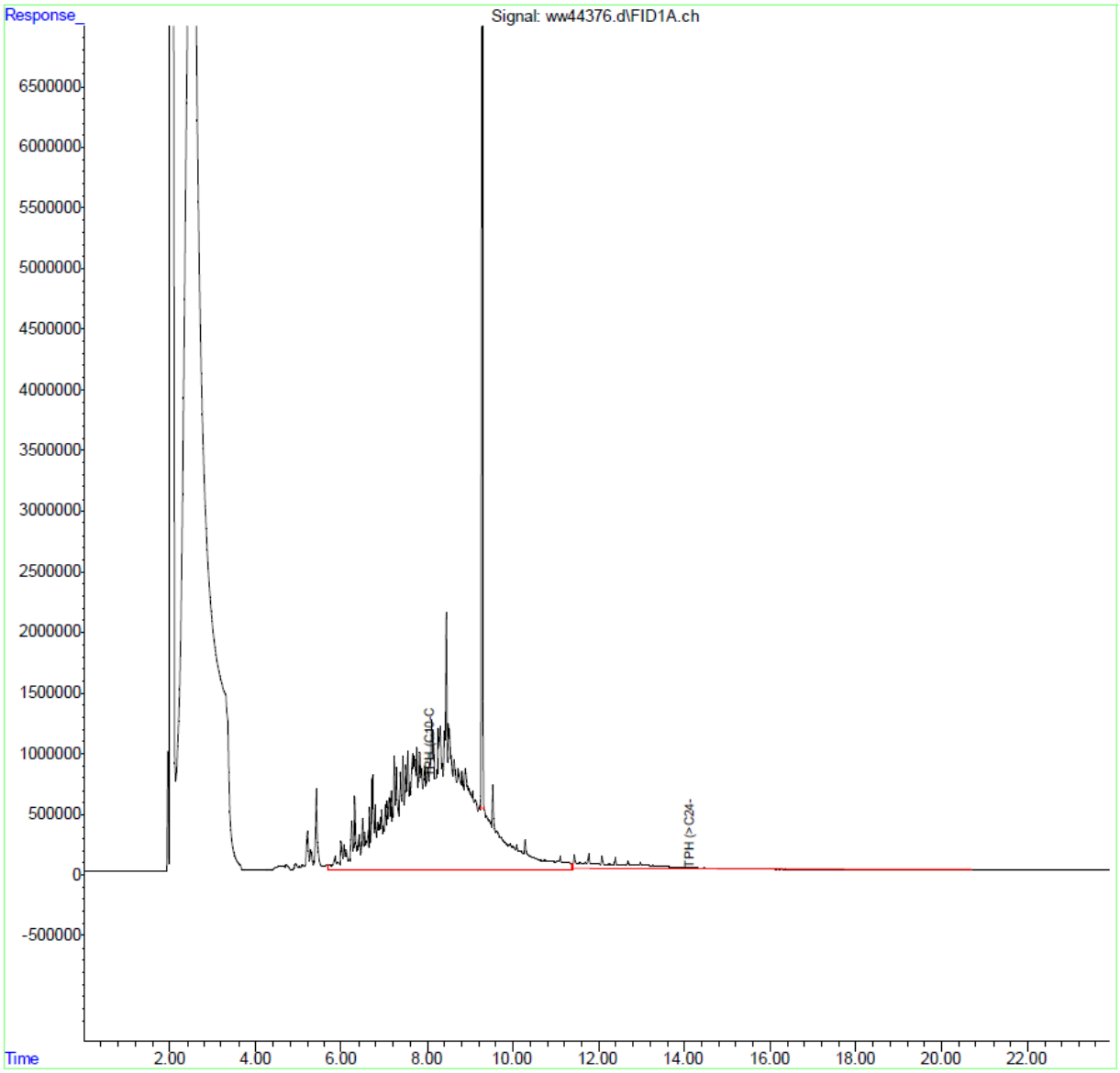


Location: **RHMW02** Sample ID: RHMW02-WGN01LF-2311WK4-DF Sample Date: 12/1/2023

Lab: SGS

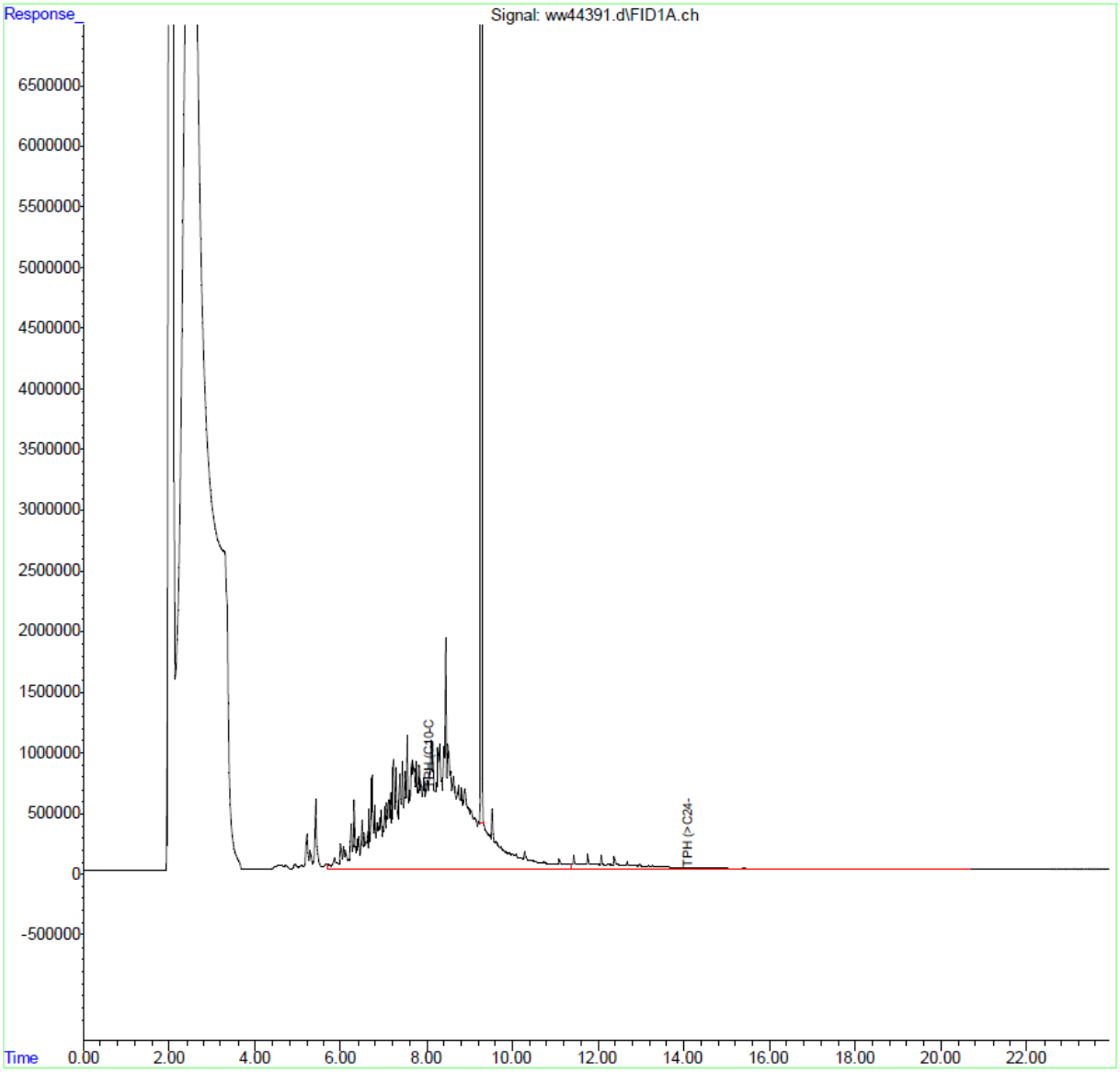
Results (ug/L): **TPH-d (C10 to C24) 1080** **TPH-o (C24 to C40) <160 U**

```
Quant Time: Dec 04 09:45:04 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 920** **TPH-o SGC (C24 to C40) <160 U**

```
Quant Time: Dec 04 09:55:21 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

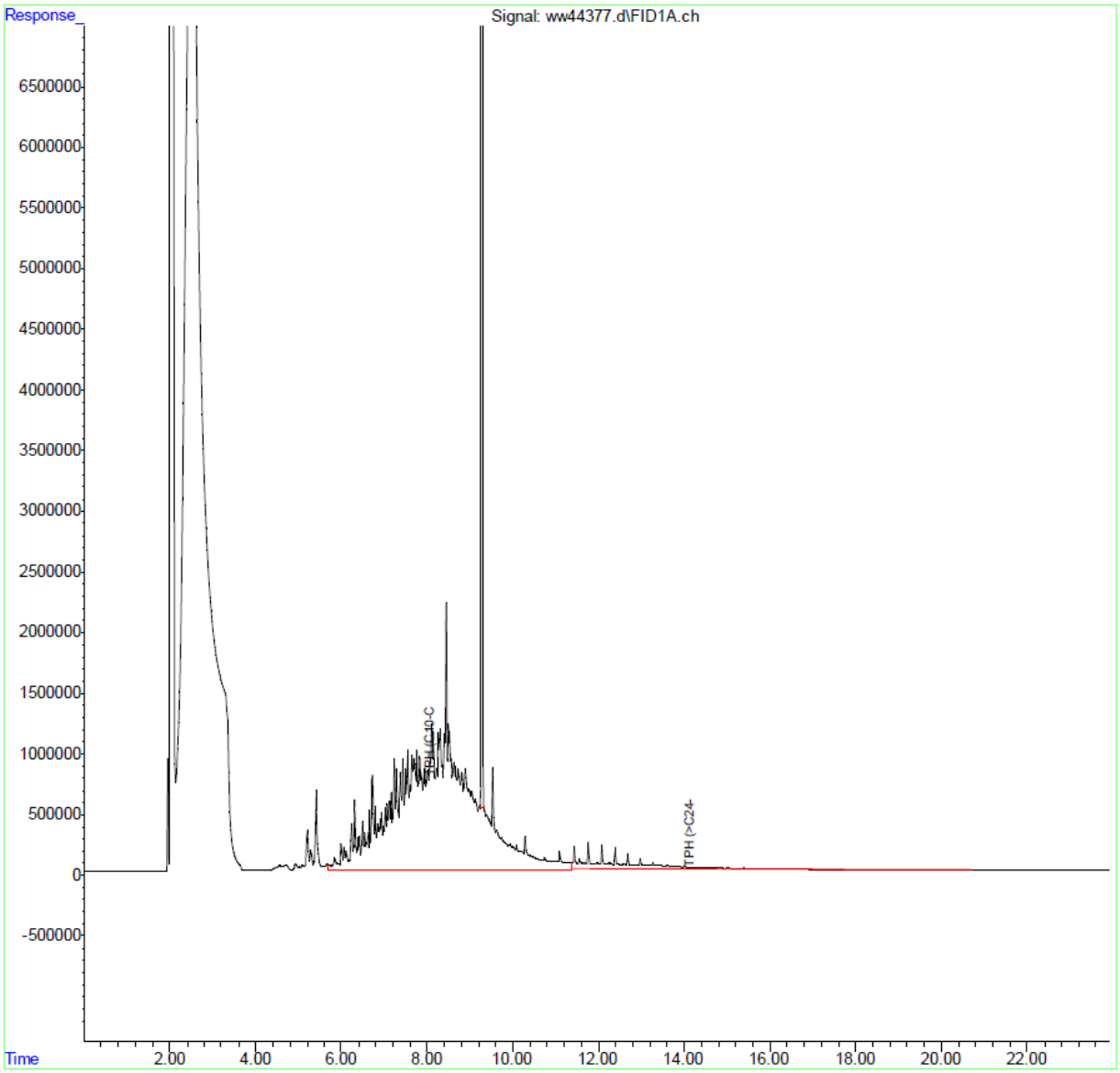


Location: **RHMW02** Sample ID: RHMW02-WGFD01LF-2311WK4-DF Sample Date: 12/1/2023

Lab: SGS

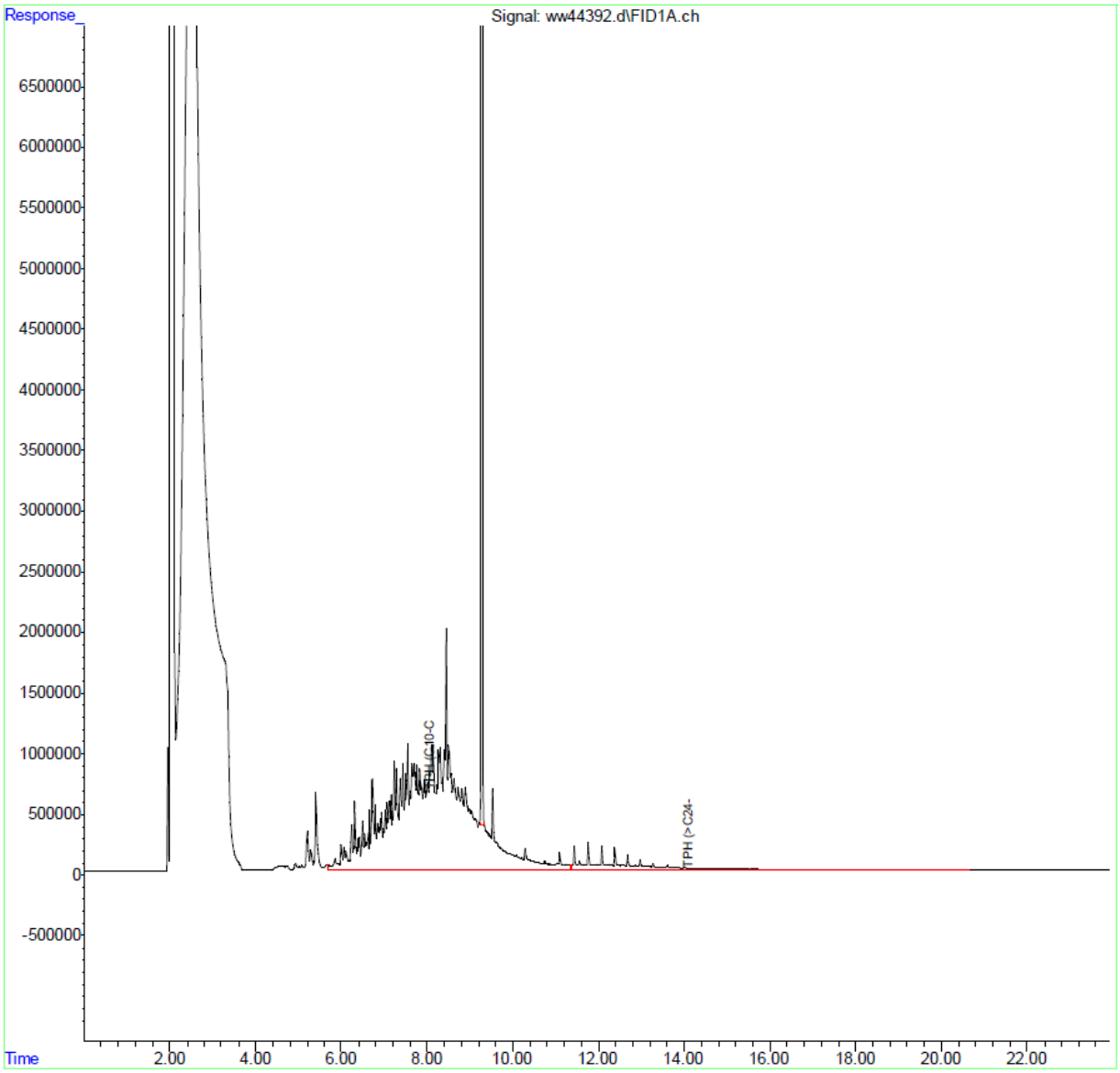
Results (ug/L): **TPH-d (C10 to C24) 1110** **TPH-o (C24 to C40) 92.5 J**

```
Quant Time: Dec 04 09:45:32 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 948** **TPH-o SGC (C24 to C40) <170 U**

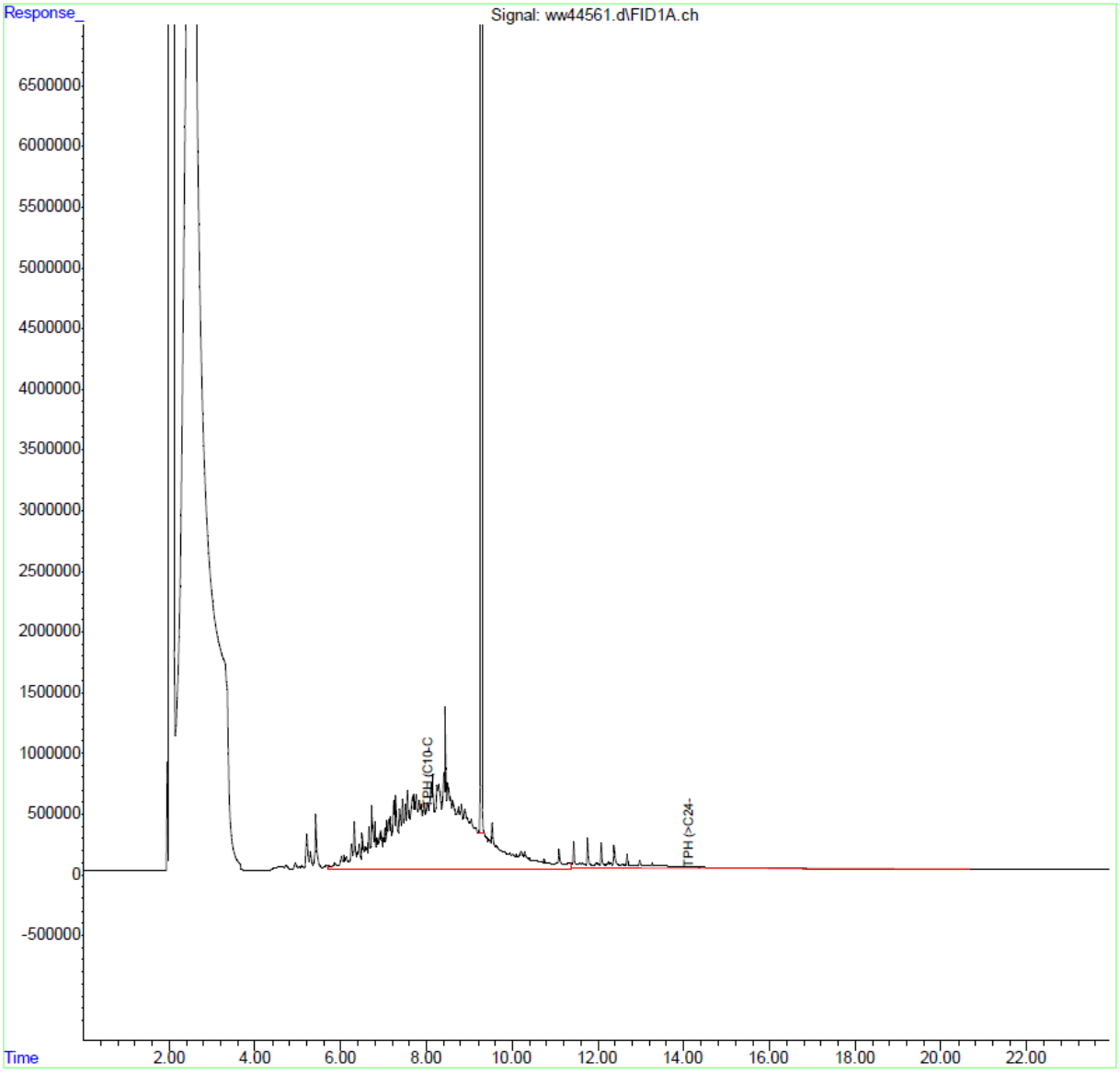
```
Quant Time: Dec 04 09:55:43 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Location: **RHMW02** Sample ID: RHMW02-WGN01LF-2312-DF Sample Date: 12/8/2023
Lab: SGS

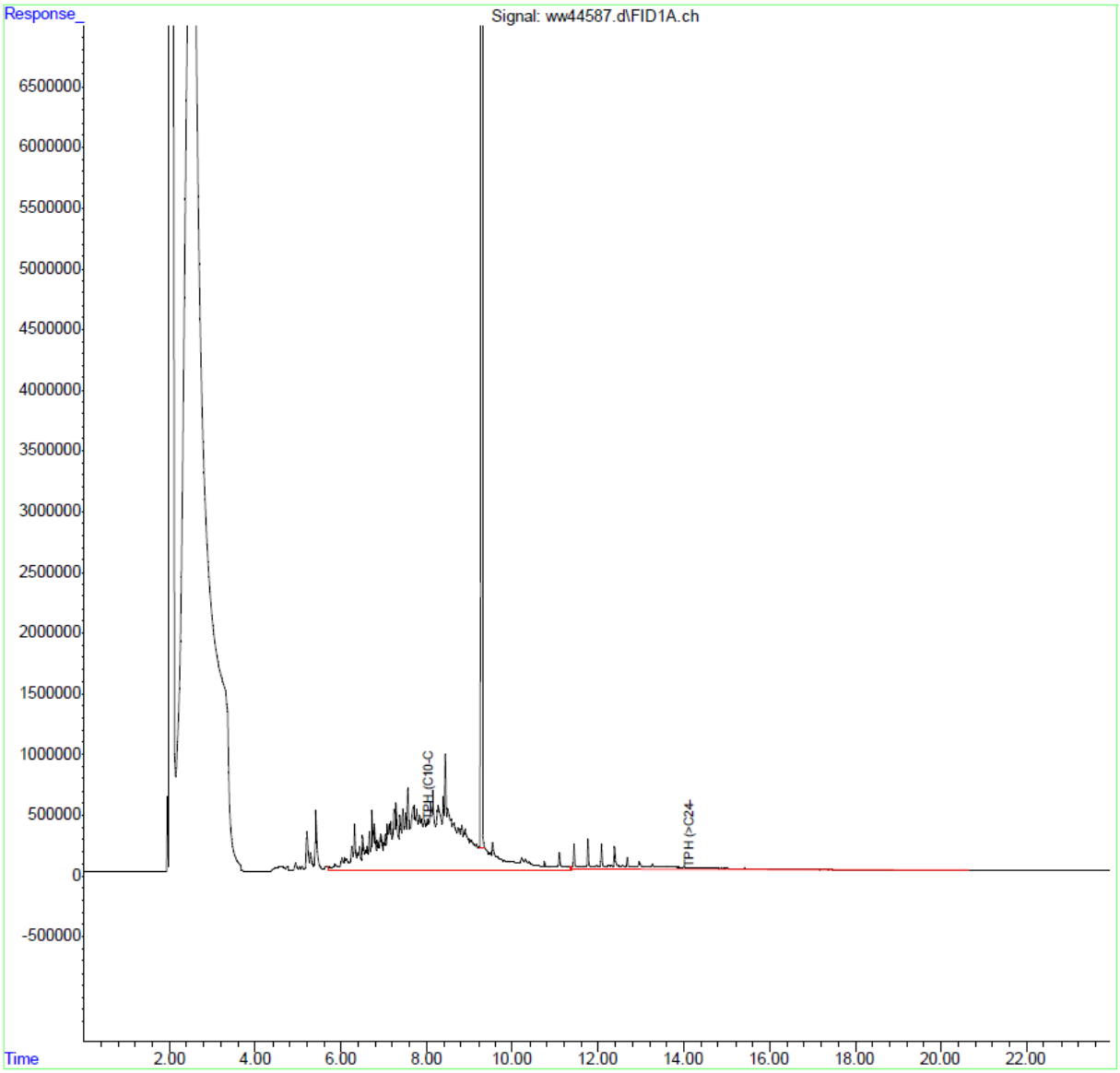
Results (ug/L): **TPH-d (C10 to C24) 693** **TPH-o (C24 to C40) <160 U**

```
Quant Time: Dec 11 15:26:35 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 539** **TPH-o SGC (C24 to C40) <160 U**

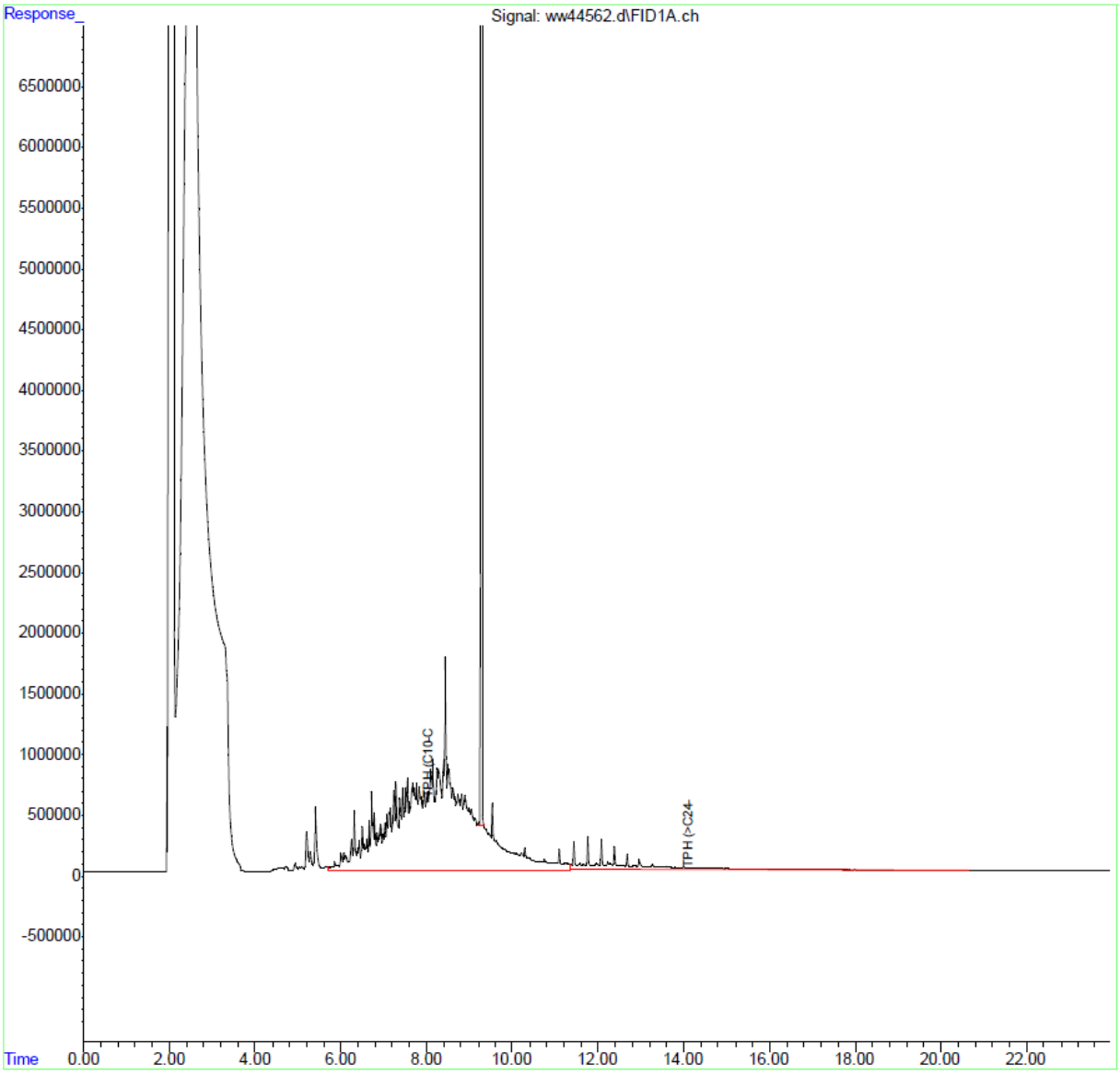
```
Quant Time: Dec 12 09:55:17 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Location: **RHMW02** Sample ID: RHMW02-WGFD01LF-2312-DF Sample Date: 12/8/2023
Lab: SGS

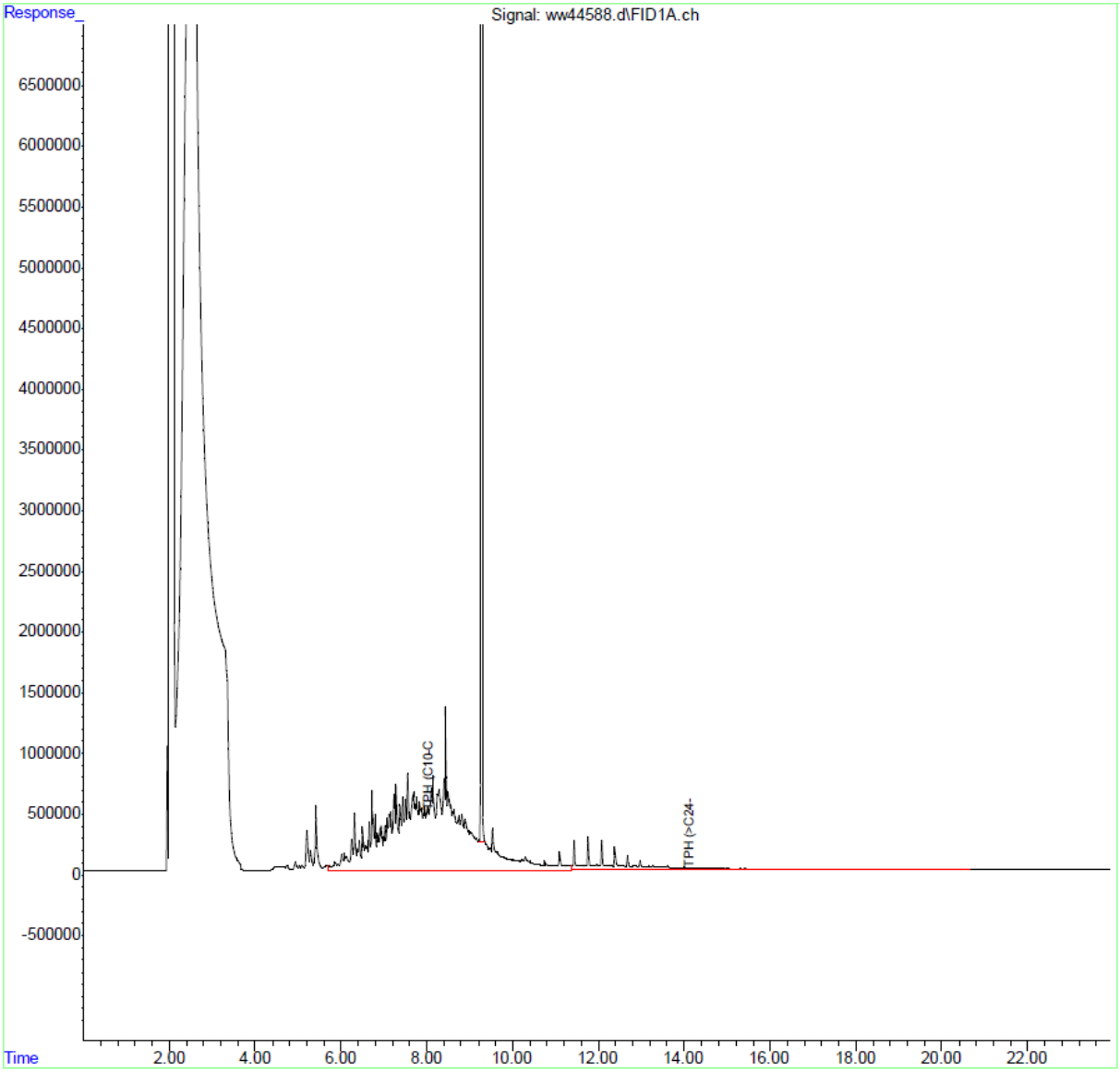
Results (ug/L): **TPH-d (C10 to C24) 835** **TPH-o (C24 to C40) <160 U**

```
Quant Time: Dec 11 16:49:21 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 645** **TPH-o SGC (C24 to C40) <160 U**

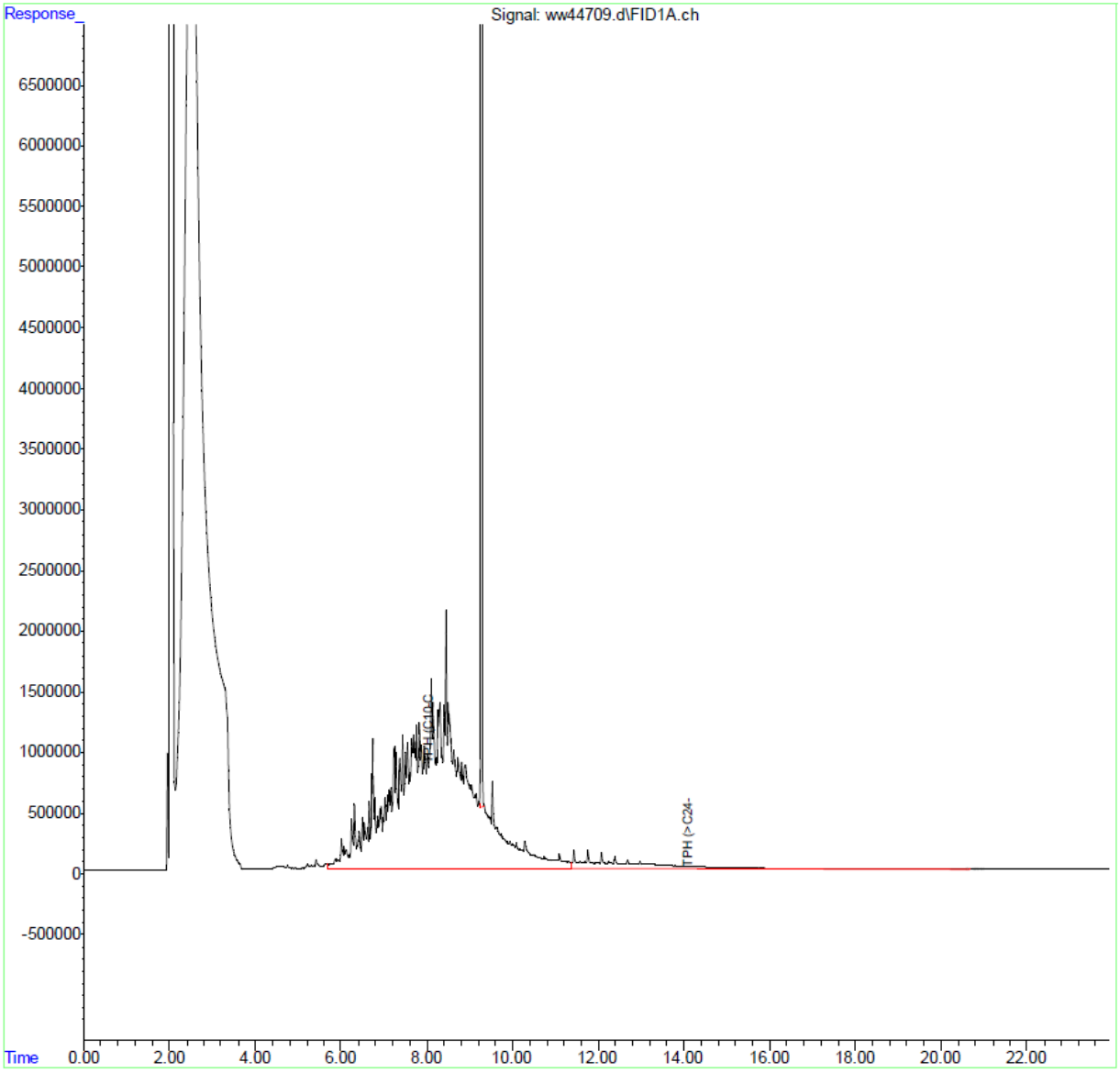
```
Quant Time: Dec 12 09:55:54 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Location: **RHMW02** Sample ID: RHMW02-WGN01LF-2312WK2-DF Sample Date: 12/15/2023
Lab: SGS

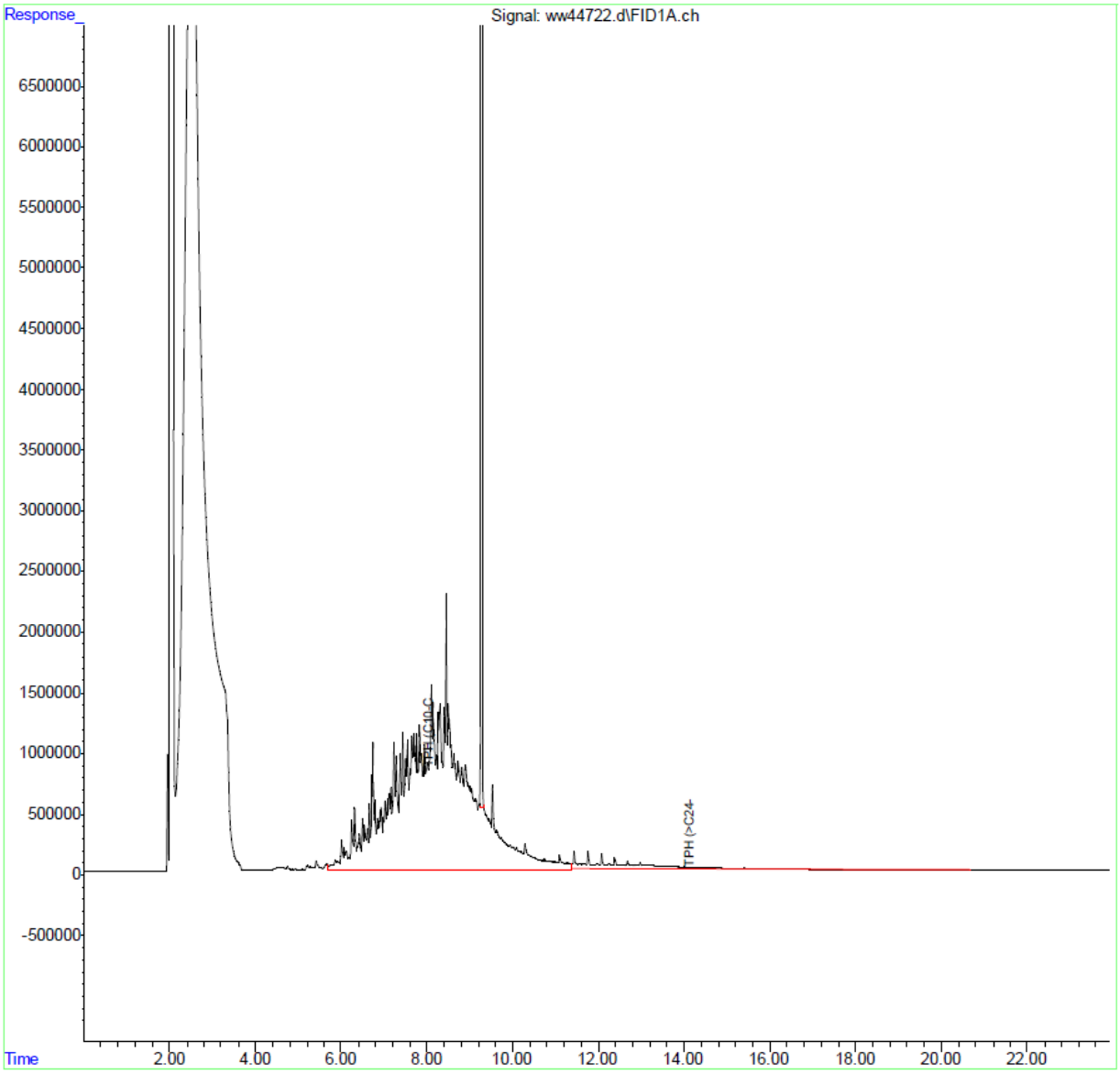
Results (ug/L): **TPH-d (C10 to C24) 1250** **TPH-o (C24 to C40) 86.7 J**

```
Quant Time: Dec 18 10:07:33 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 1210** **TPH-o SGC (C24 to C40) <170 U**

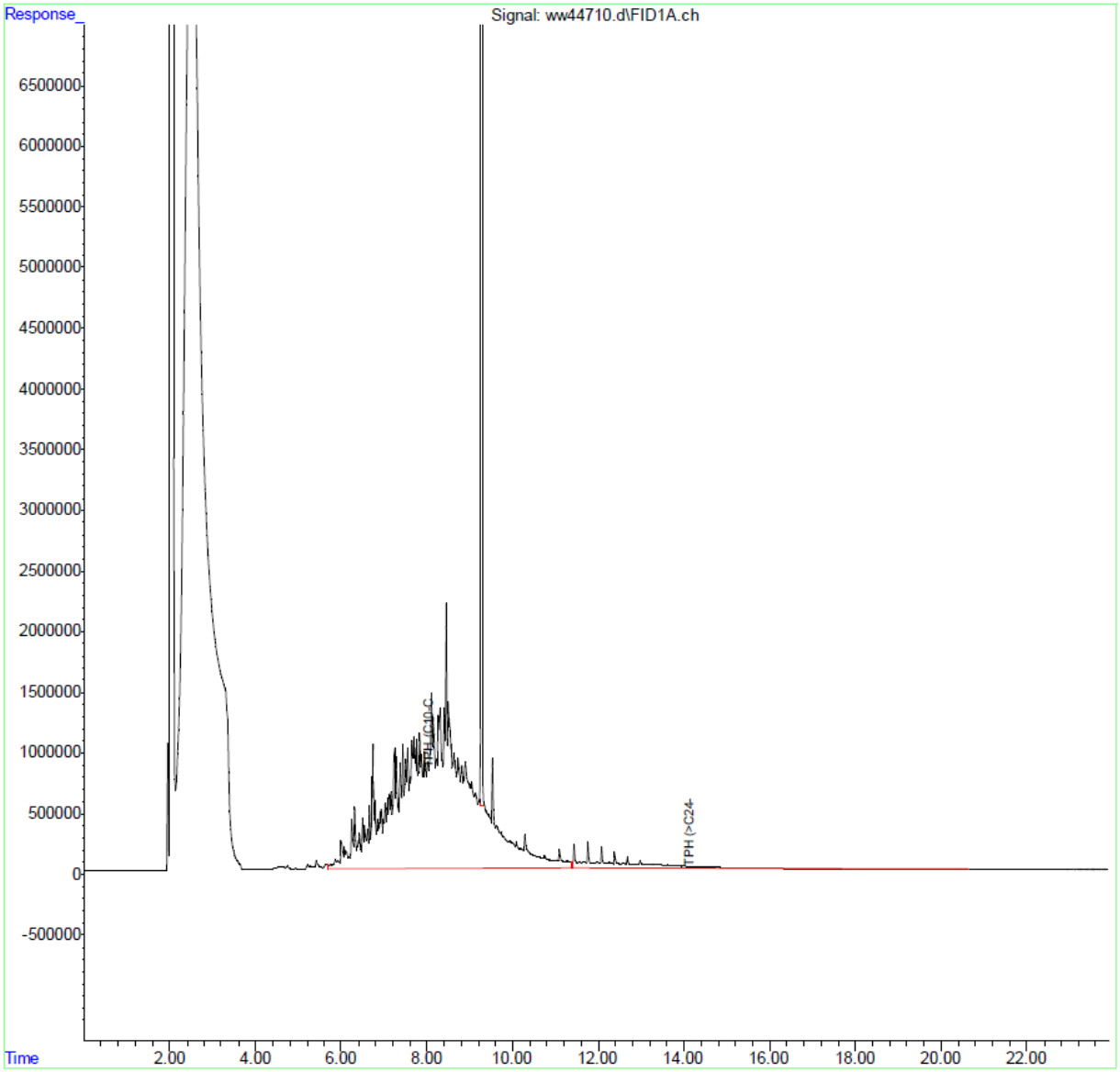
```
Quant Time: Dec 18 11:07:47 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Location: **RHMW02** Sample ID: RHMW02-WGFD01LF-2312-DF Sample Date: 12/15/2023
Lab: SGS

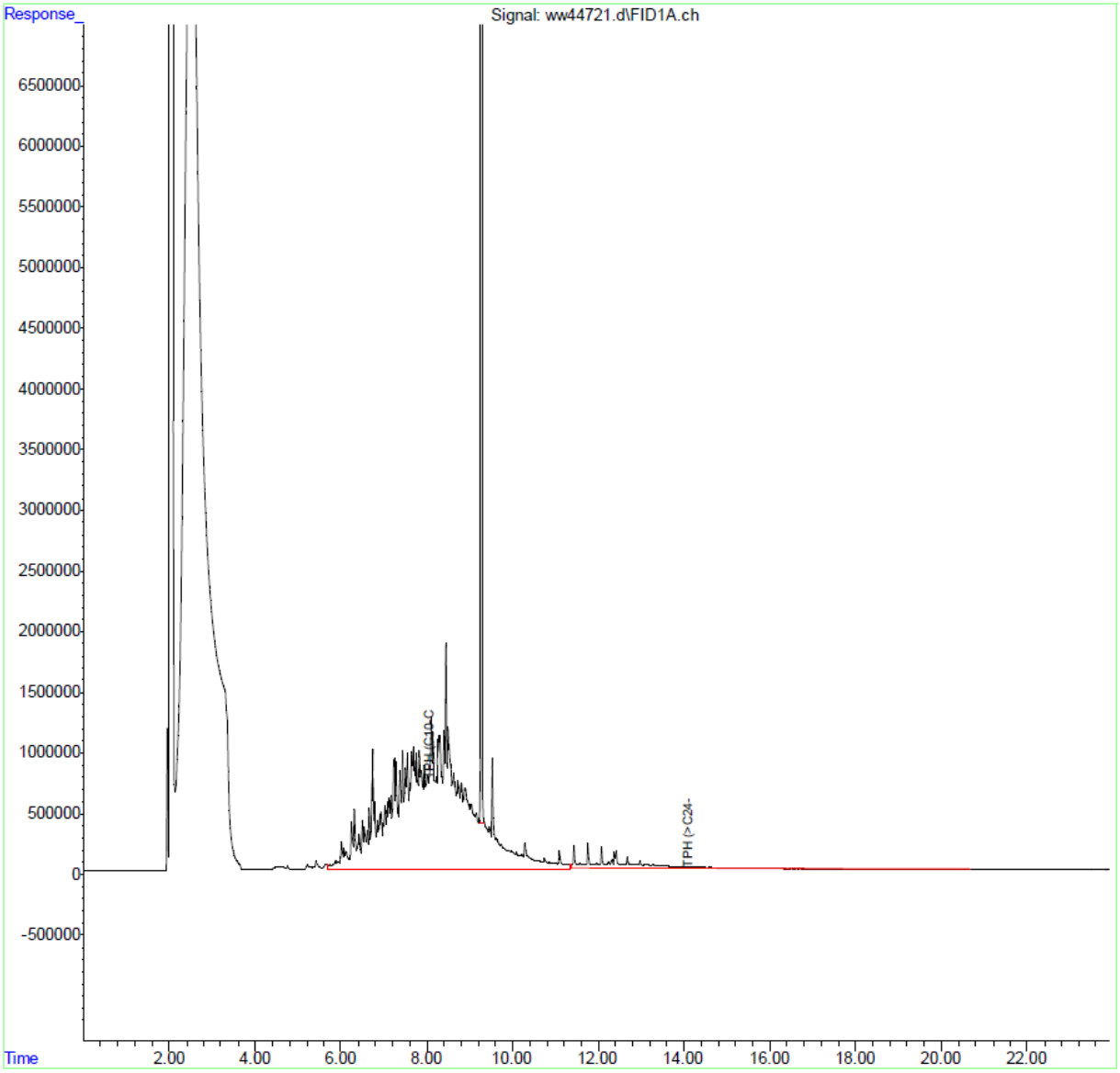
Results (ug/L): **TPH-d (C10 to C24) 1210** **TPH-o (C24 to C40) 93.8 J**

```
Quant Time: Dec 18 10:08:05 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 1030** **TPH-o SGC (C24 to C40) <170 U**

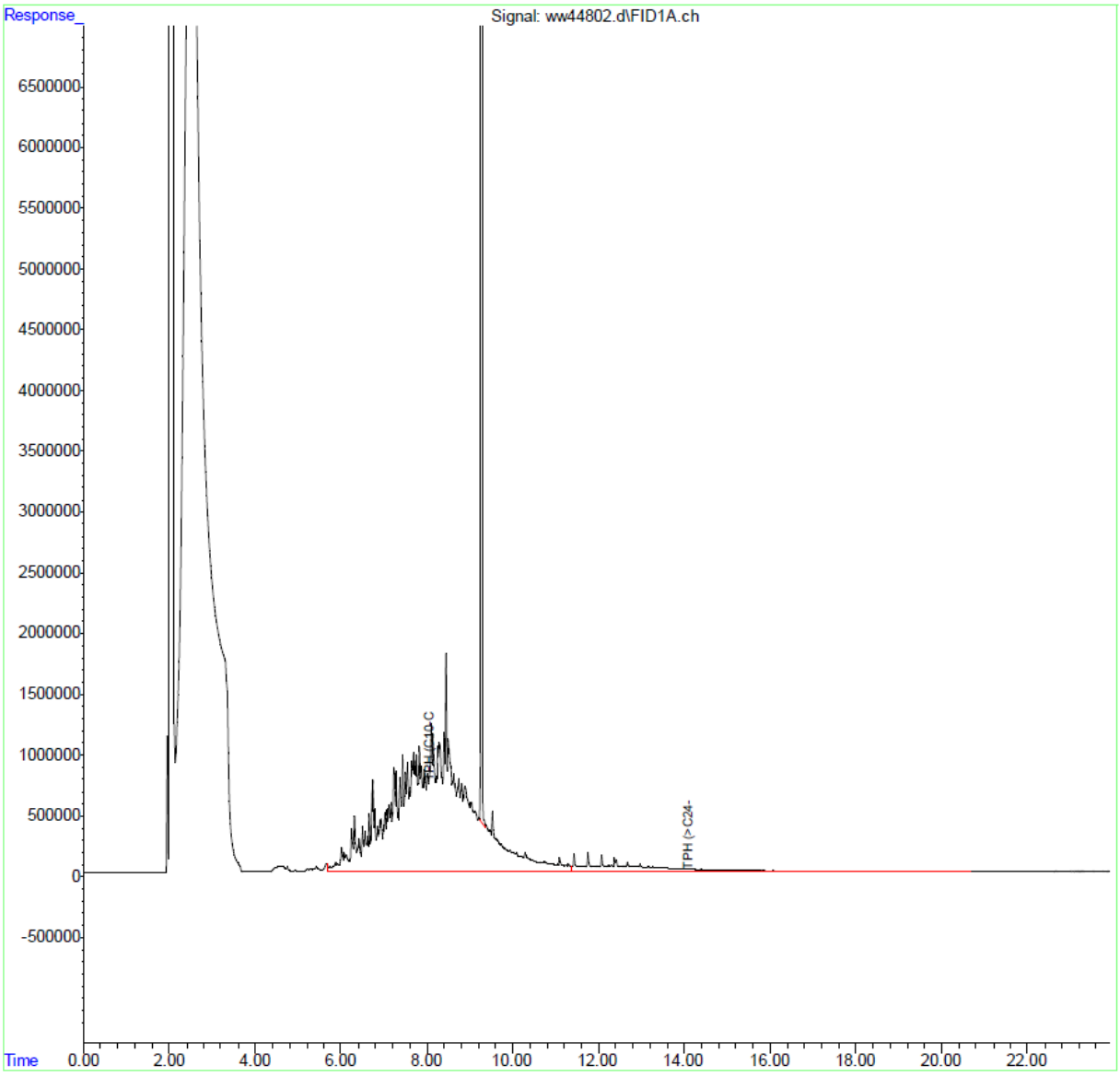
```
Quant Time: Dec 18 11:07:11 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Location: **RHMW02** Sample ID: RHMW02-WGN01LF-2312WK3-DF Sample Date: 12/19/2023
Lab: SGS

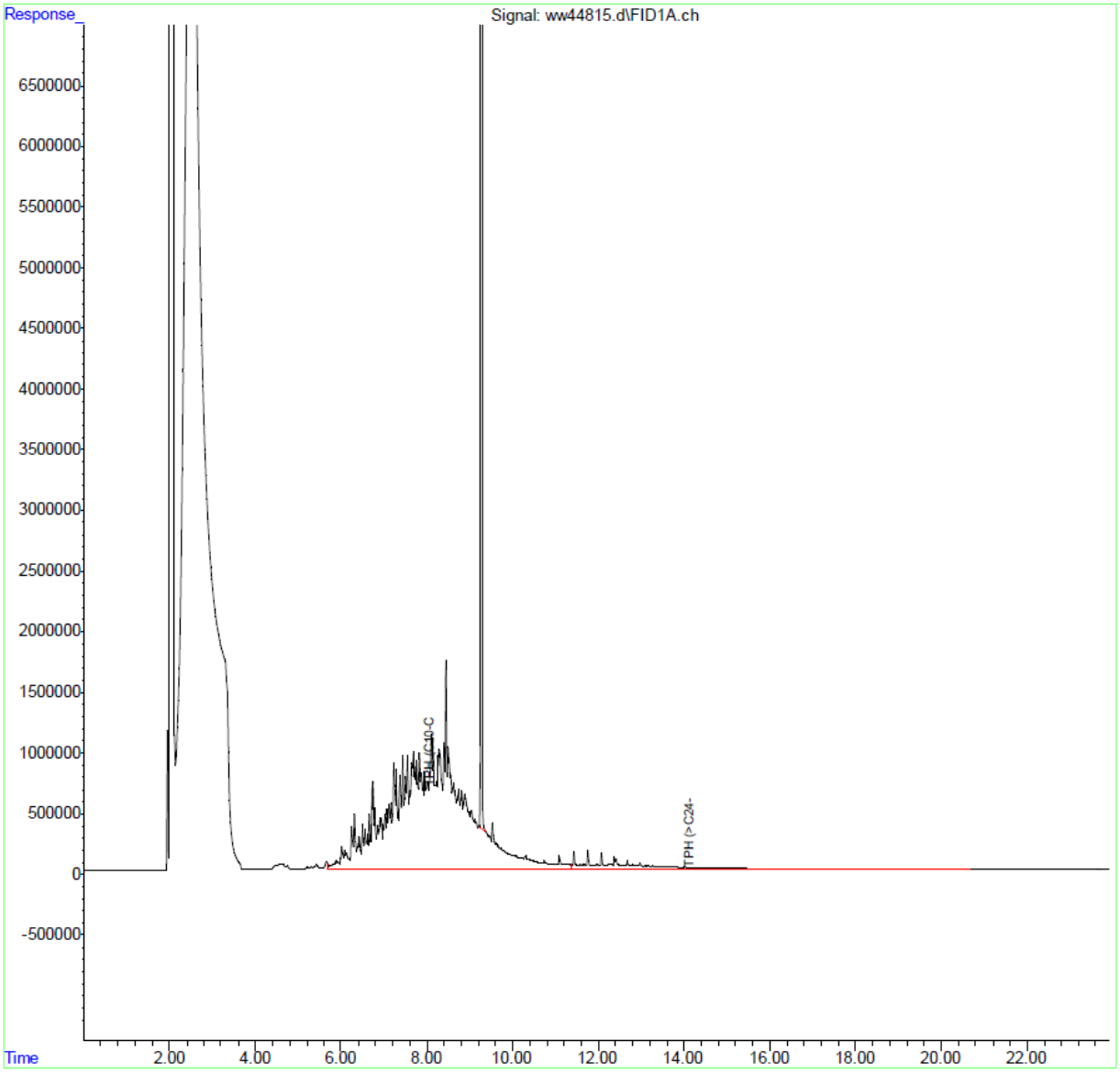
Results (ug/L): **TPH-d (C10 to C24) 991** **TPH-o (C24 to C40) <160 U**

```
Quant Time: Dec 22 10:40:30 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 908** **TPH-o SGC (C24 to C40) <160 U**

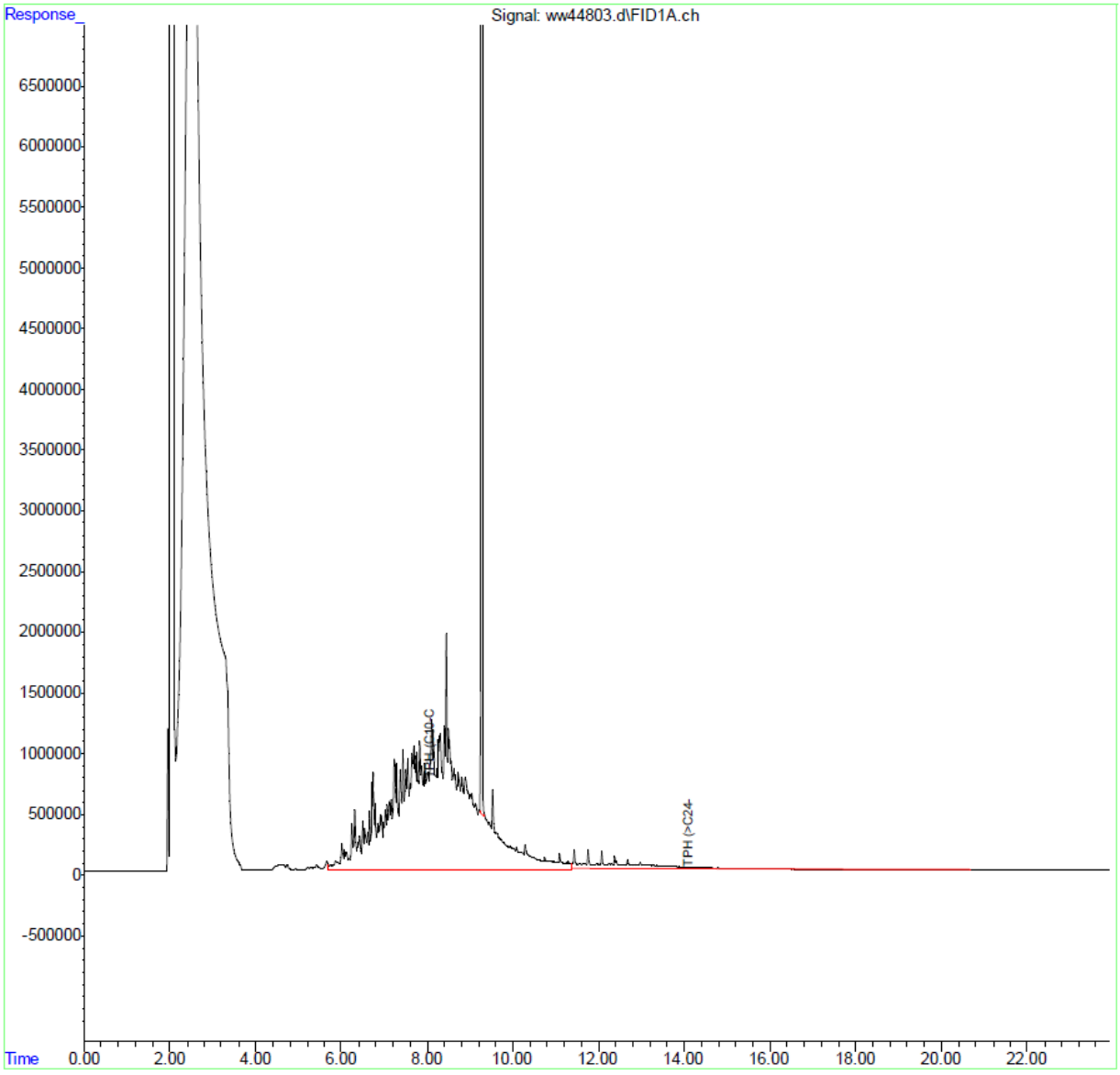
```
Quant Time: Dec 22 10:49:46 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Location: **RHMW02** Sample ID: RHMW02-WGFD01LF-2312WK3-DF Sample Date: 12/19/2023
Lab: SGS

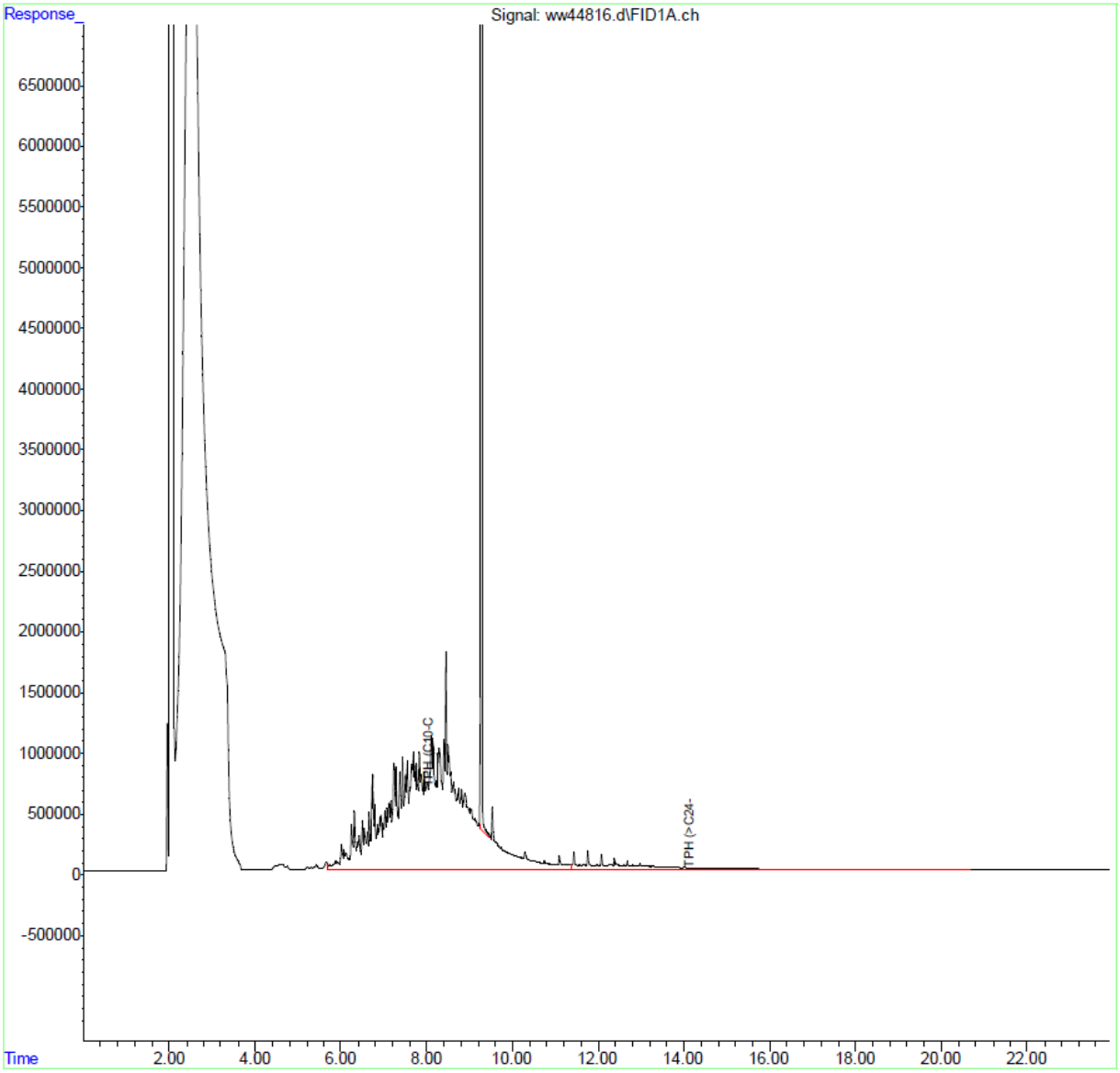
Results (ug/L): **TPH-d (C10 to C24) 1100** **TPH-o (C24 to C40) <170 U**

```
Quant Time: Dec 22 10:48:48 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 969** **TPH-o SGC (C24 to C40) <170 U**

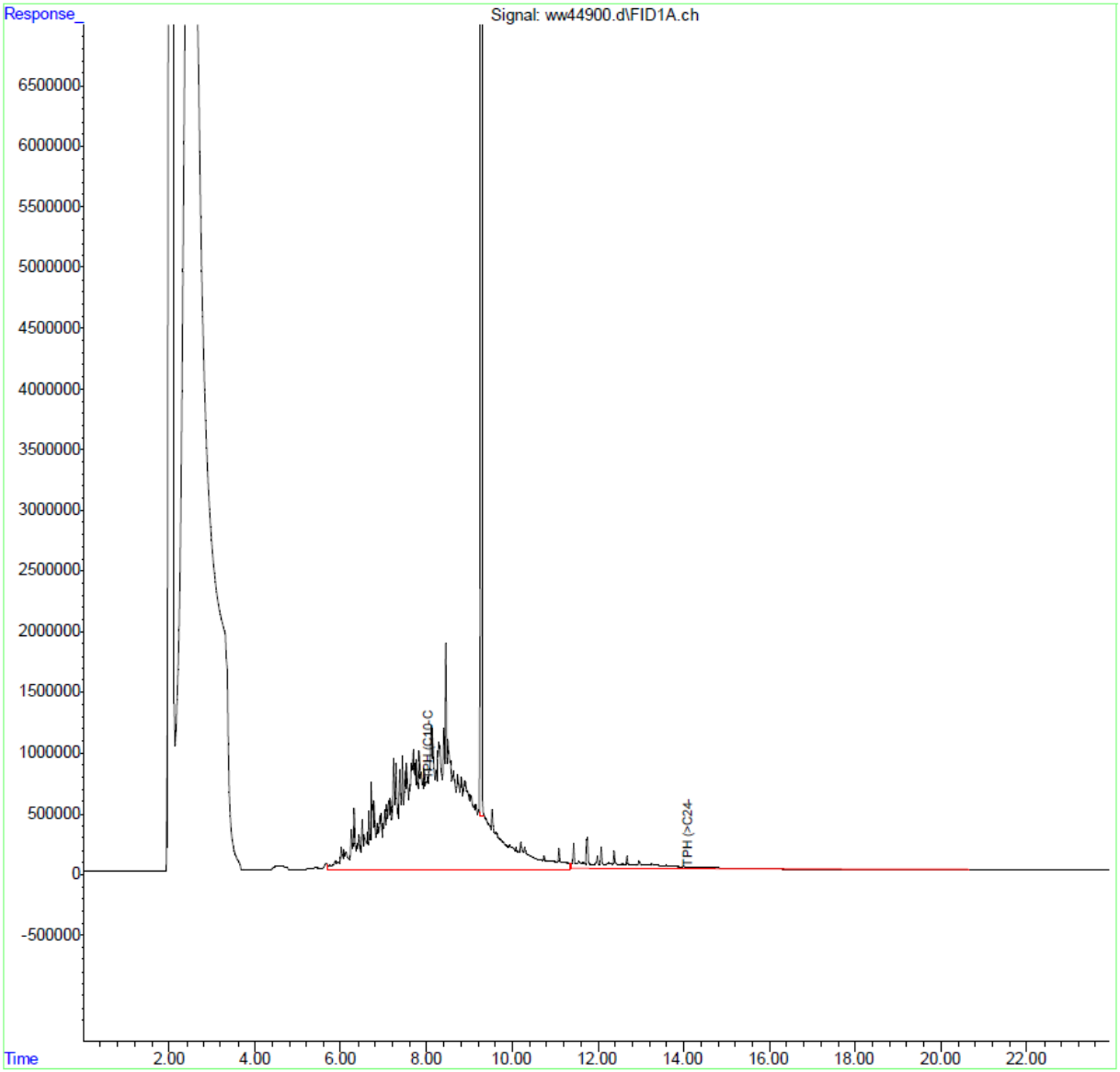
```
Quant Time: Dec 22 10:41:27 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Location: **RHMW02** Sample ID: RHMW02-WGN01LF-2312WK4-DF Sample Date: 12/26/2023
Lab: SGS

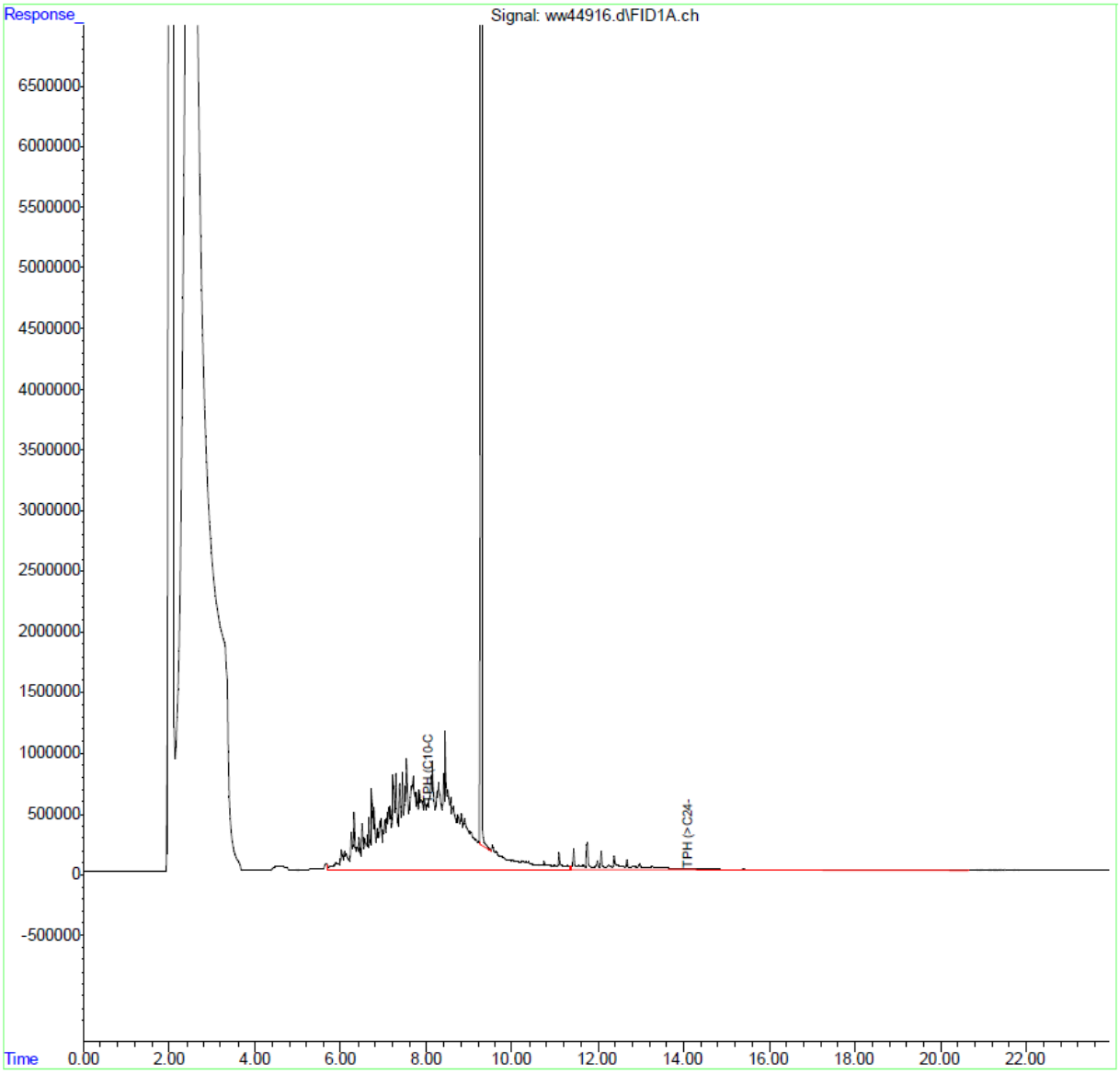
Results (ug/L): **TPH-d (C10 to C24) 1030** **TPH-o (C24 to C40) 88.6 J**

```
Quant Time: Dec 29 09:31:34 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 720** **TPH-o SGC (C24 to C40) <160 U**

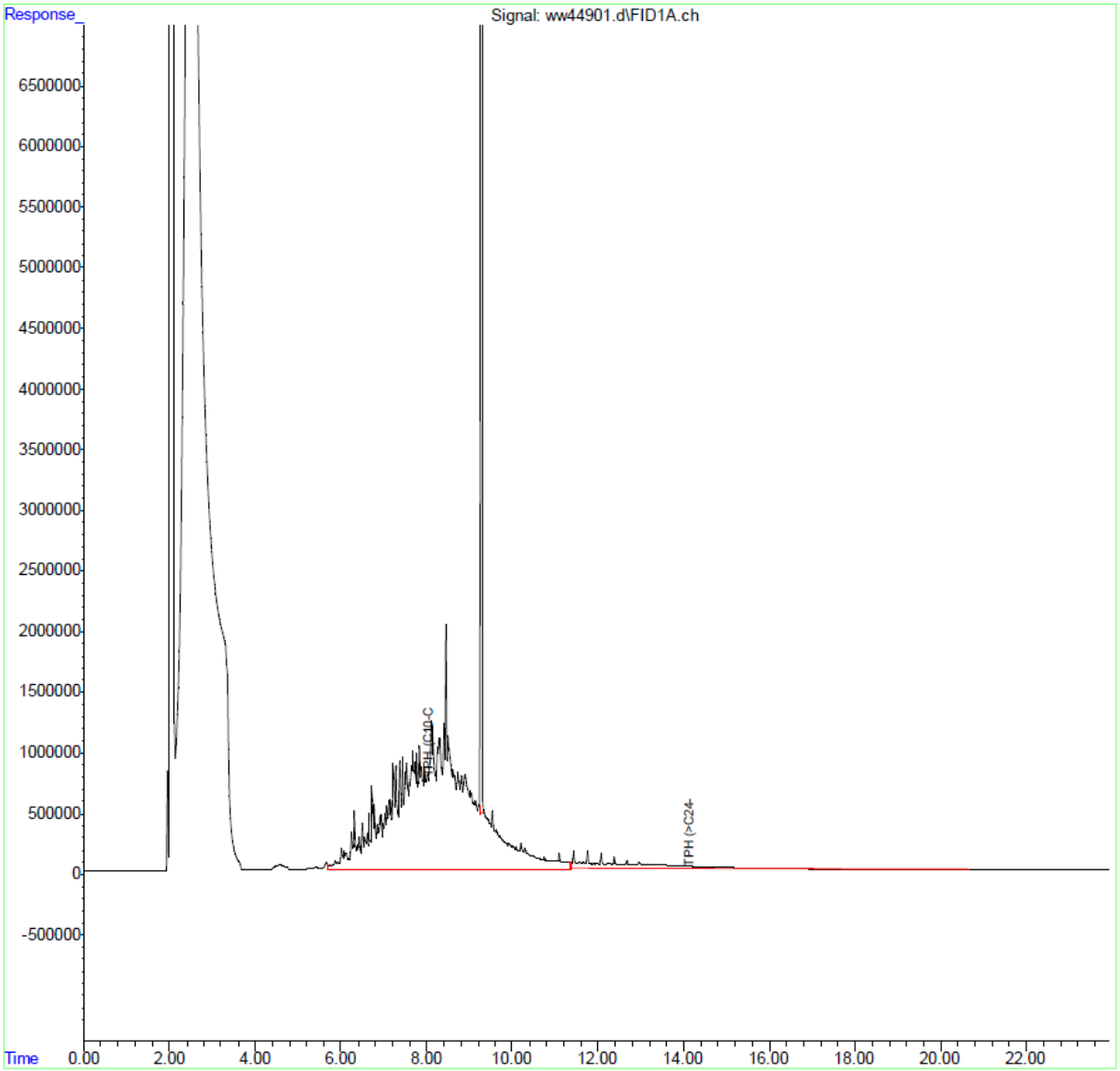
```
Quant Time: Dec 29 16:00:03 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Location: **RHMW02** Sample ID: RHMW02-WGFD01LF-2312WK4-DF Sample Date: 12/26/2023
Lab: SGS

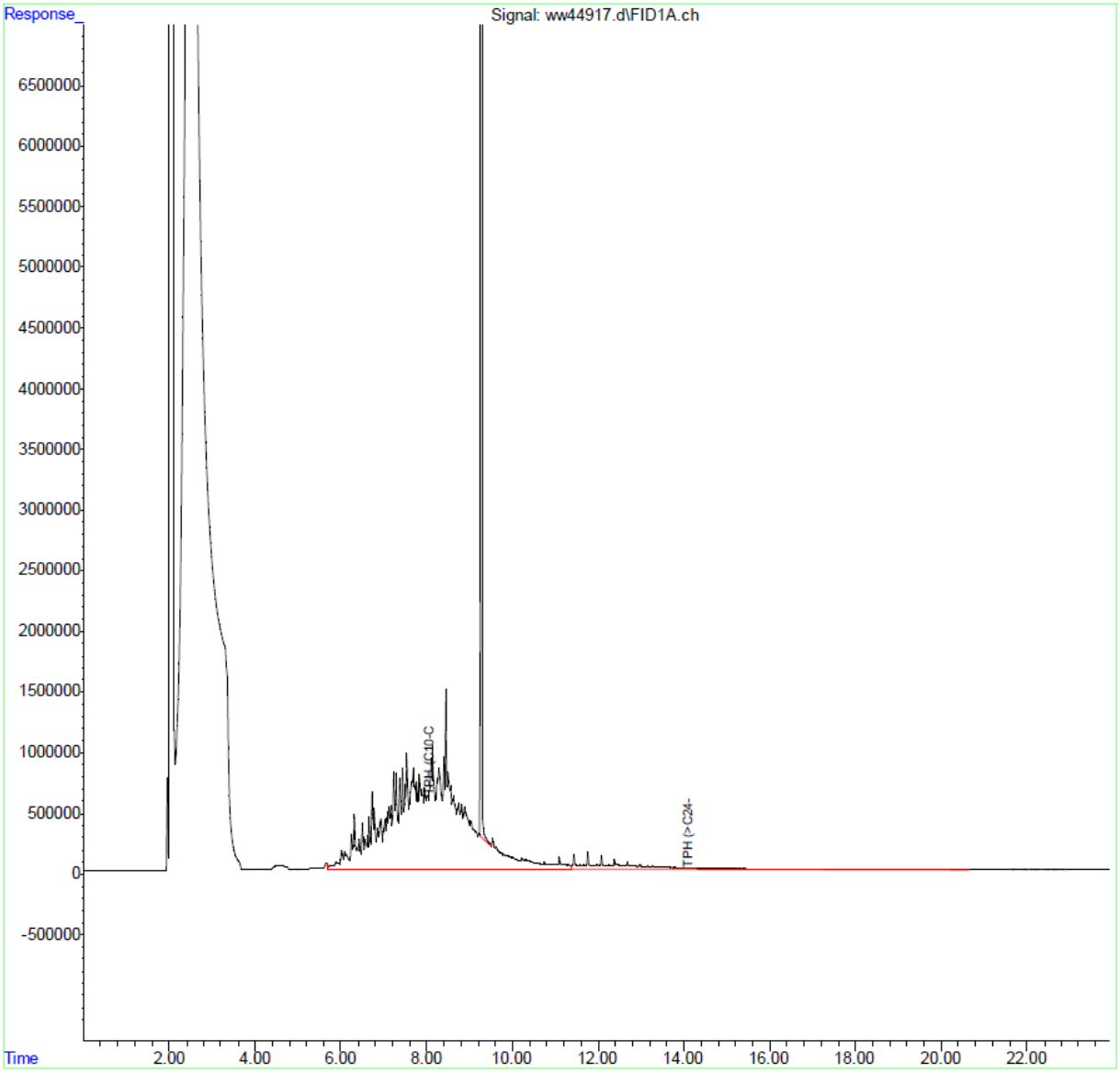
Results (ug/L): **TPH-d (C10 to C24) 1110** **TPH-o (C24 to C40) 84.4 J**

```
Quant Time: Dec 29 09:31:58 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 828** **TPH-o SGC (C24 to C40) <170 U**

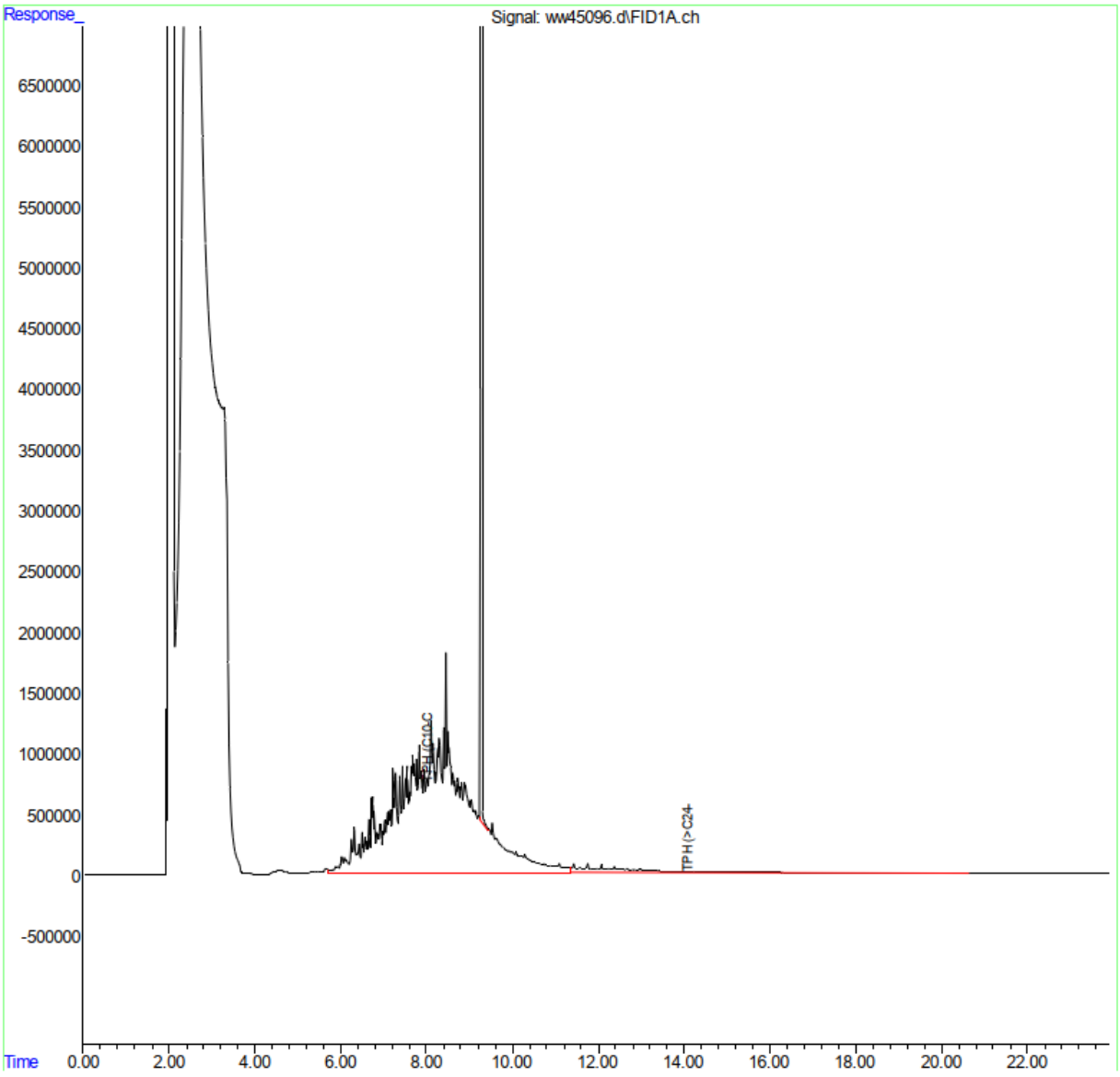
```
Quant Time: Dec 29 16:20:00 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Location: **RHMW02** Sample ID: RHMW02-WGN01LF-2401-DF Sample Date: 1/5/2024
Lab: SGS

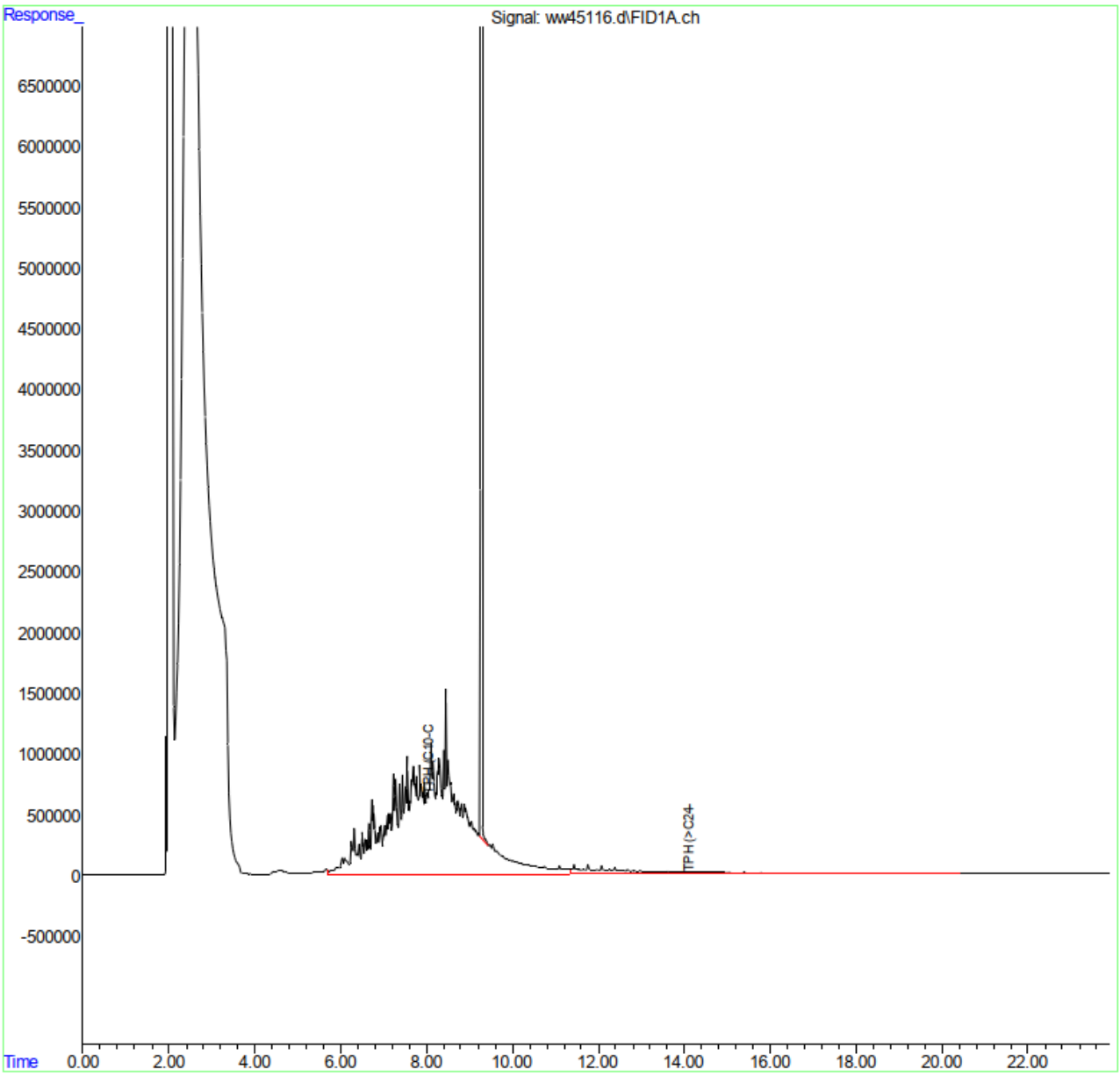
Results (ug/L): **TPH-d (C10 to C24) 1050** **TPH-o (C24 to C40) <170 U**
FC12419-4

```
Quant Time: Jan 08 10:14:34 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 881** **TPH-o SGC (C24 to C40) <170 U**

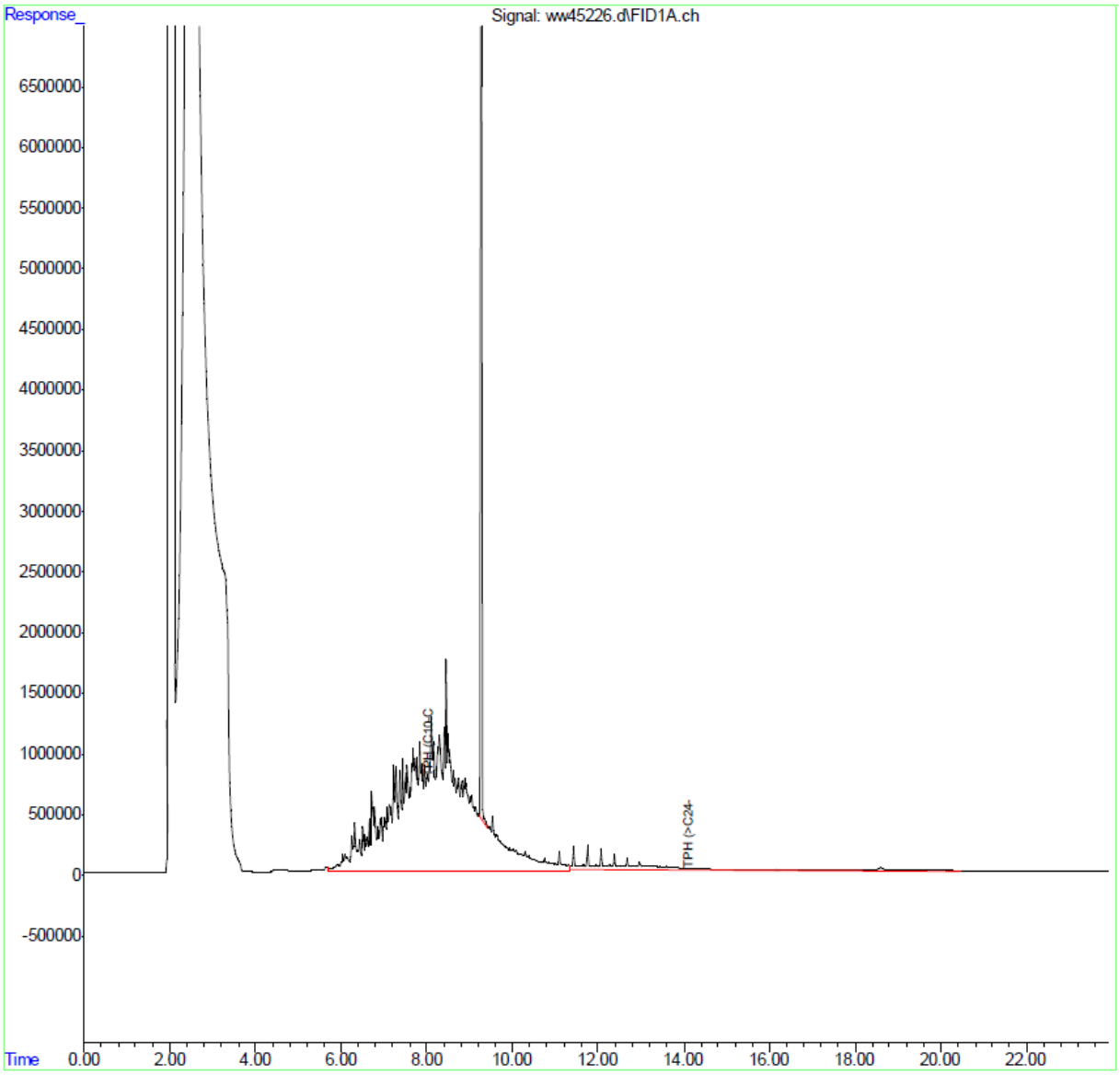
```
Quant Time: Jan 08 16:37:16 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Location: **RHMW02** Sample ID: RHMW02-WGN01LF-2401WK2-DF Sample Date: 1/12/2024
Lab: SGS

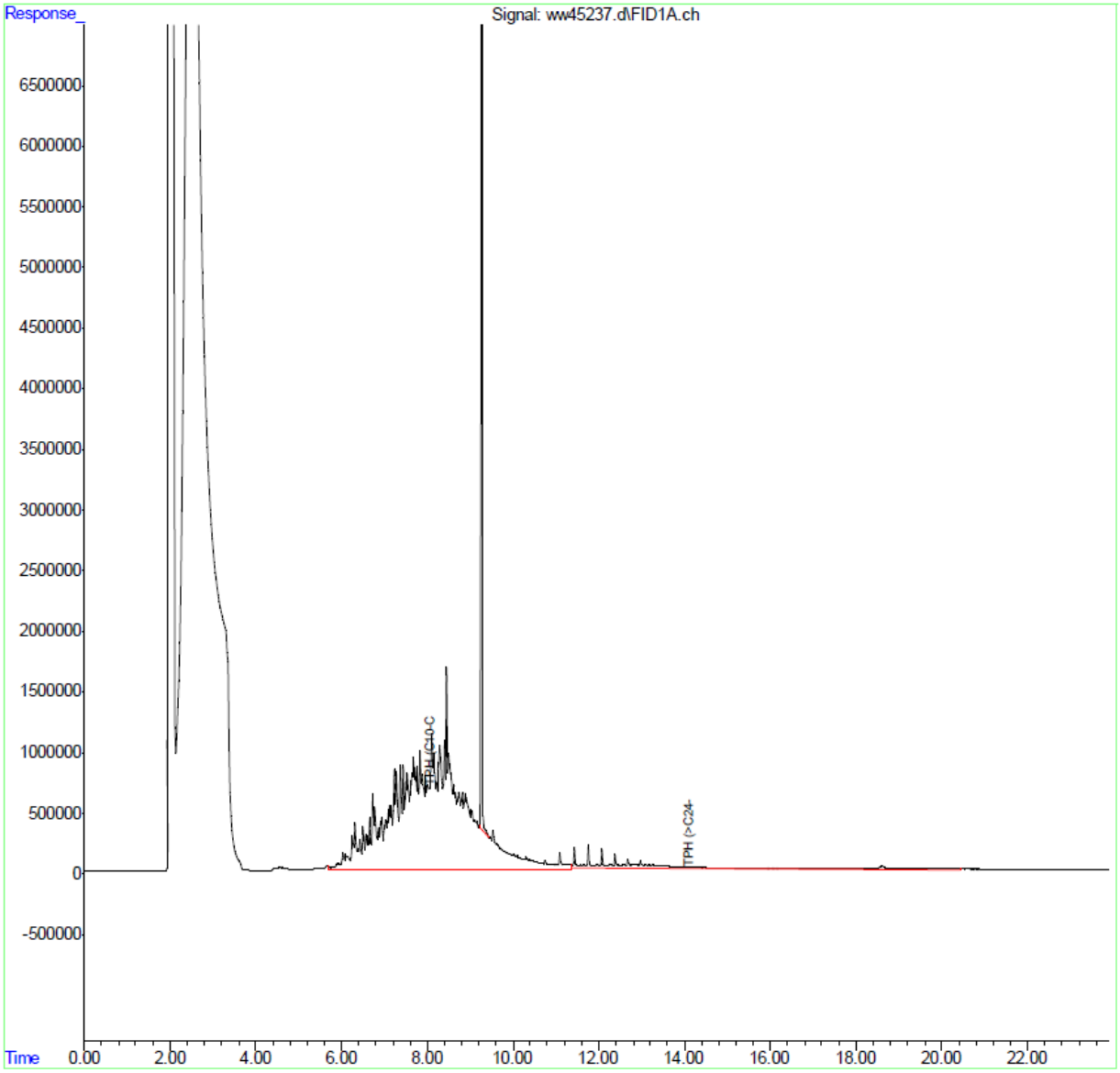
Results (ug/L): **TPH-d (C10 to C24) 1080** **TPH-o (C24 to C40) 88.6 J**

```
Quant Time: Jan 15 10:15:50 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 944** **TPH-o SGC (C24 to C40) <170 U**

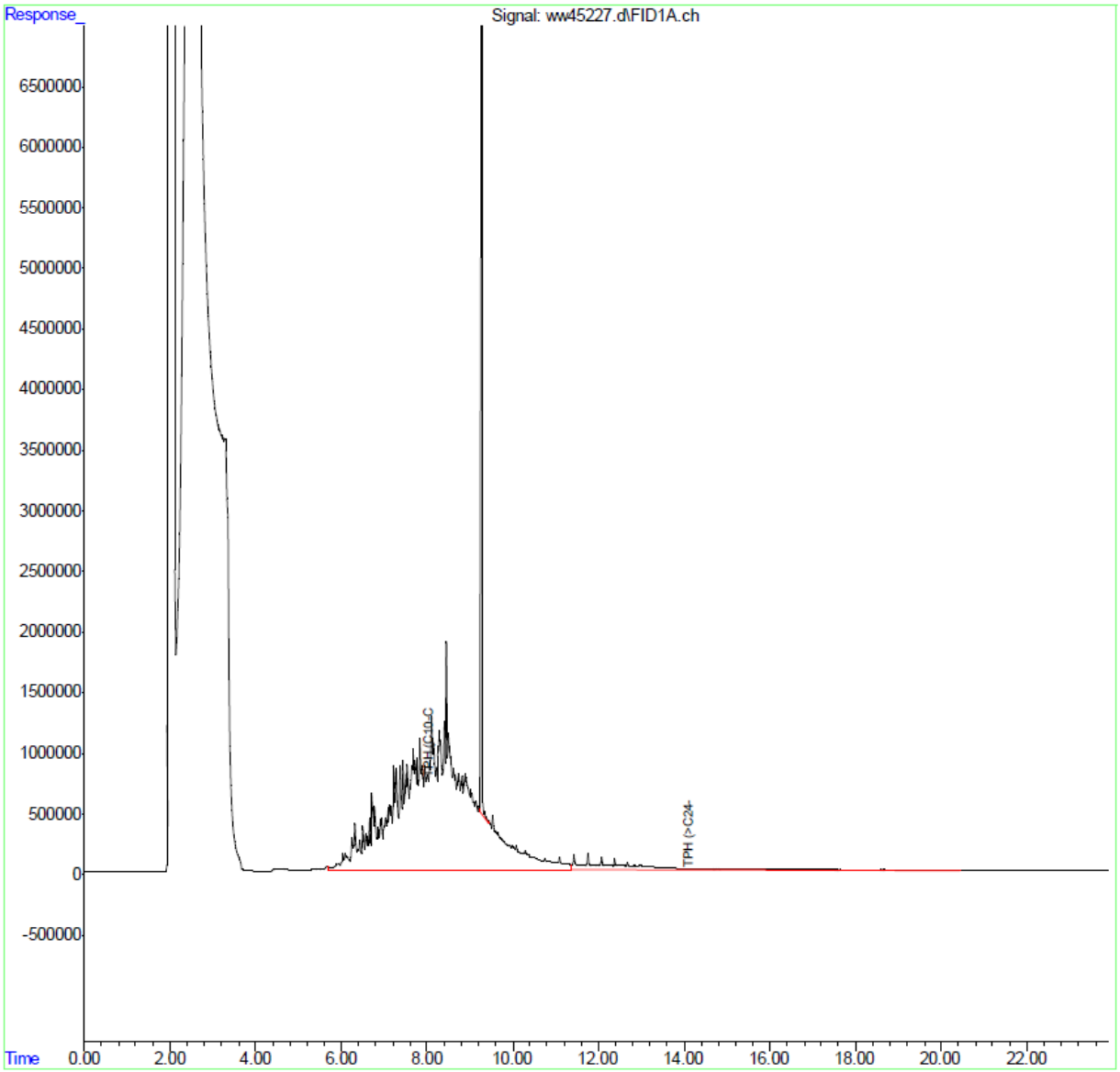
```
Quant Time: Jan 15 10:30:06 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Location: **RHMW02** Sample ID: RHMW02-WGFD01LF-2401WK2-DF Sample Date: 1/12/2024
Lab: SGS

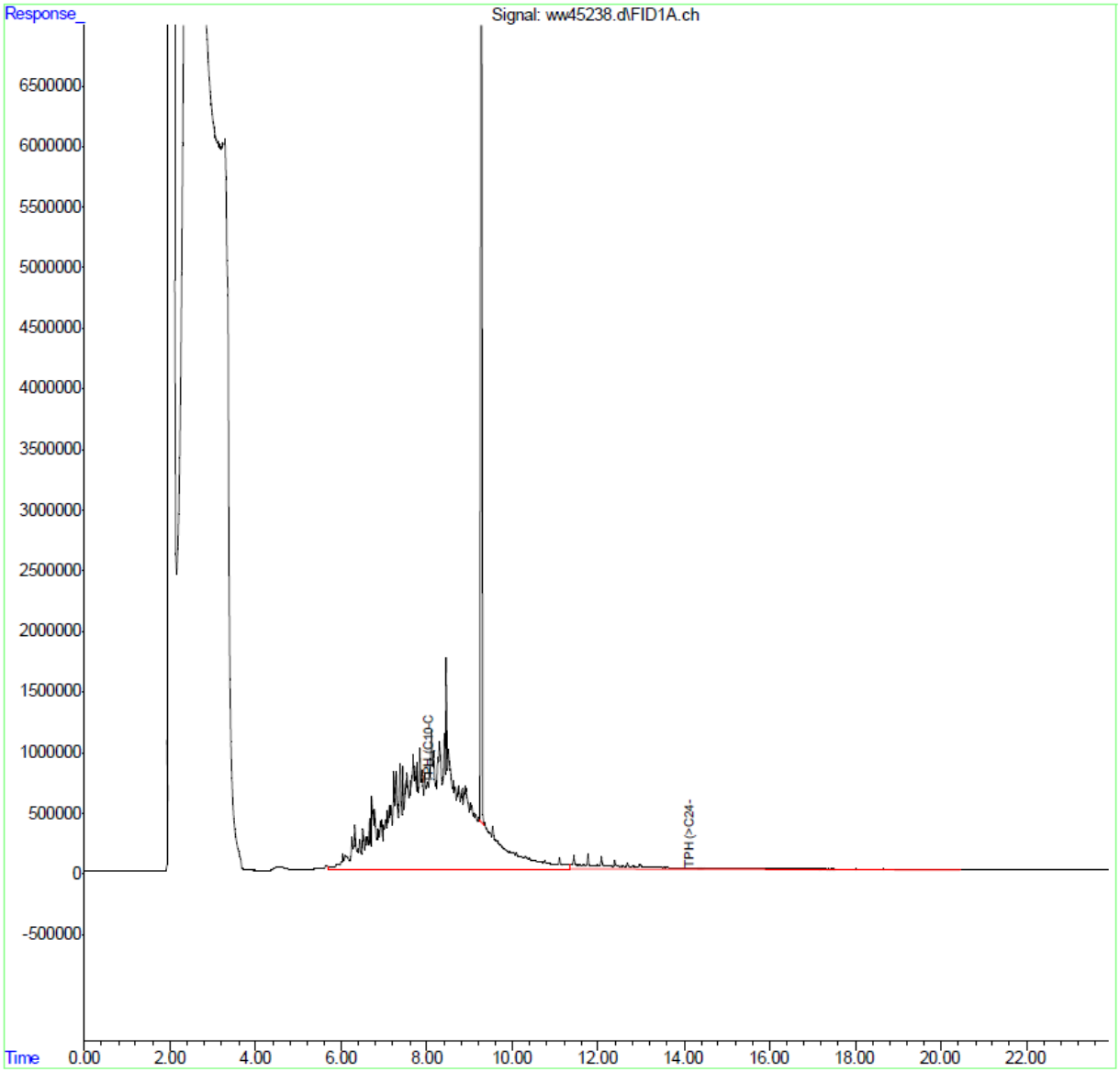
Results (ug/L): **TPH-d (C10 to C24) 1110** **TPH-o (C24 to C40) <170 U**

```
Quant Time: Jan 15 10:16:53 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 980** **TPH-o SGC (C24 to C40) <170 U**

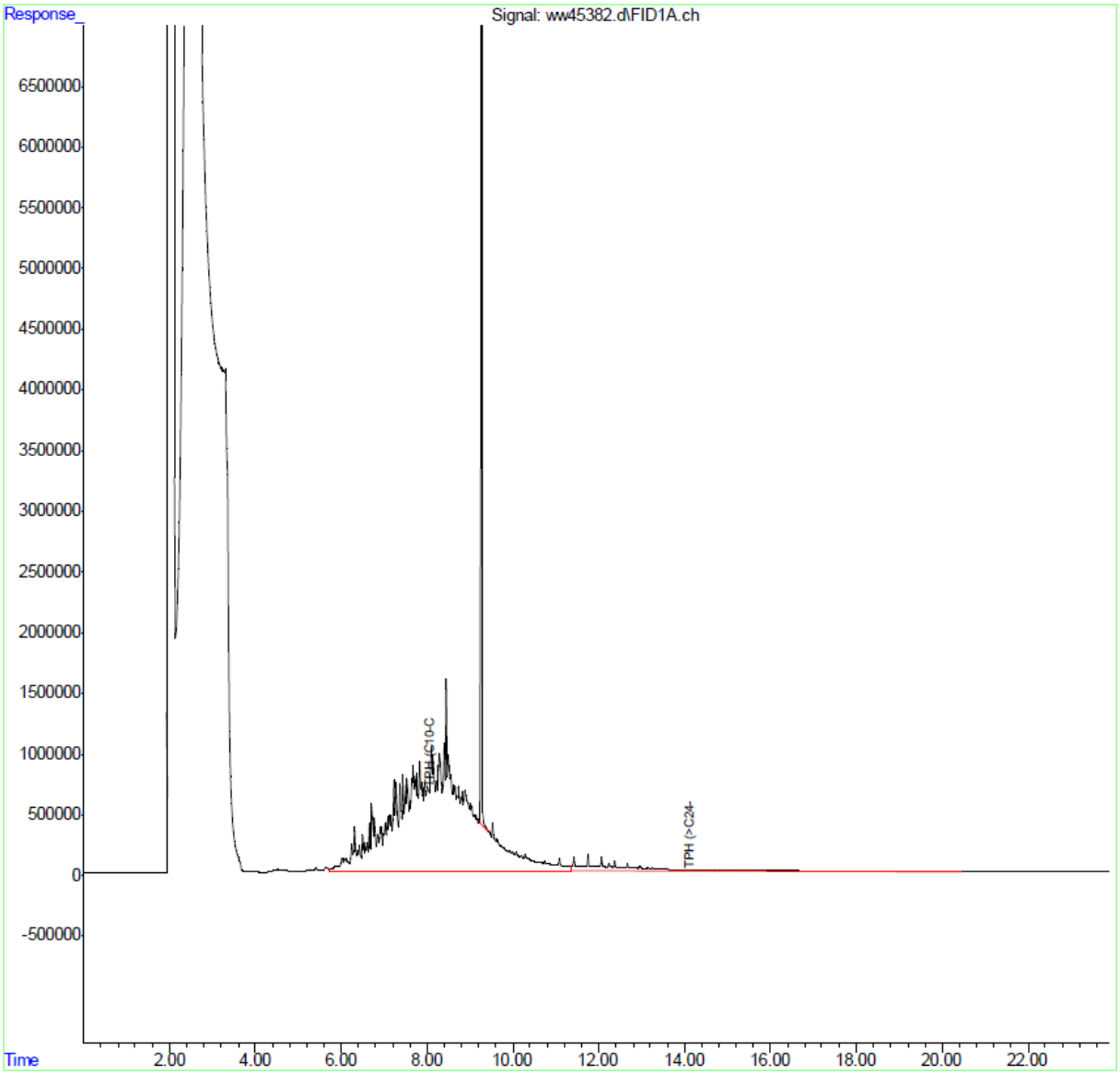
```
Quant Time: Jan 15 10:30:50 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Location: **RHMW02** Sample ID: RHMW02-WGN01LF-2401WK3-DF Sample Date: 1/19/2024
Lab: SGS

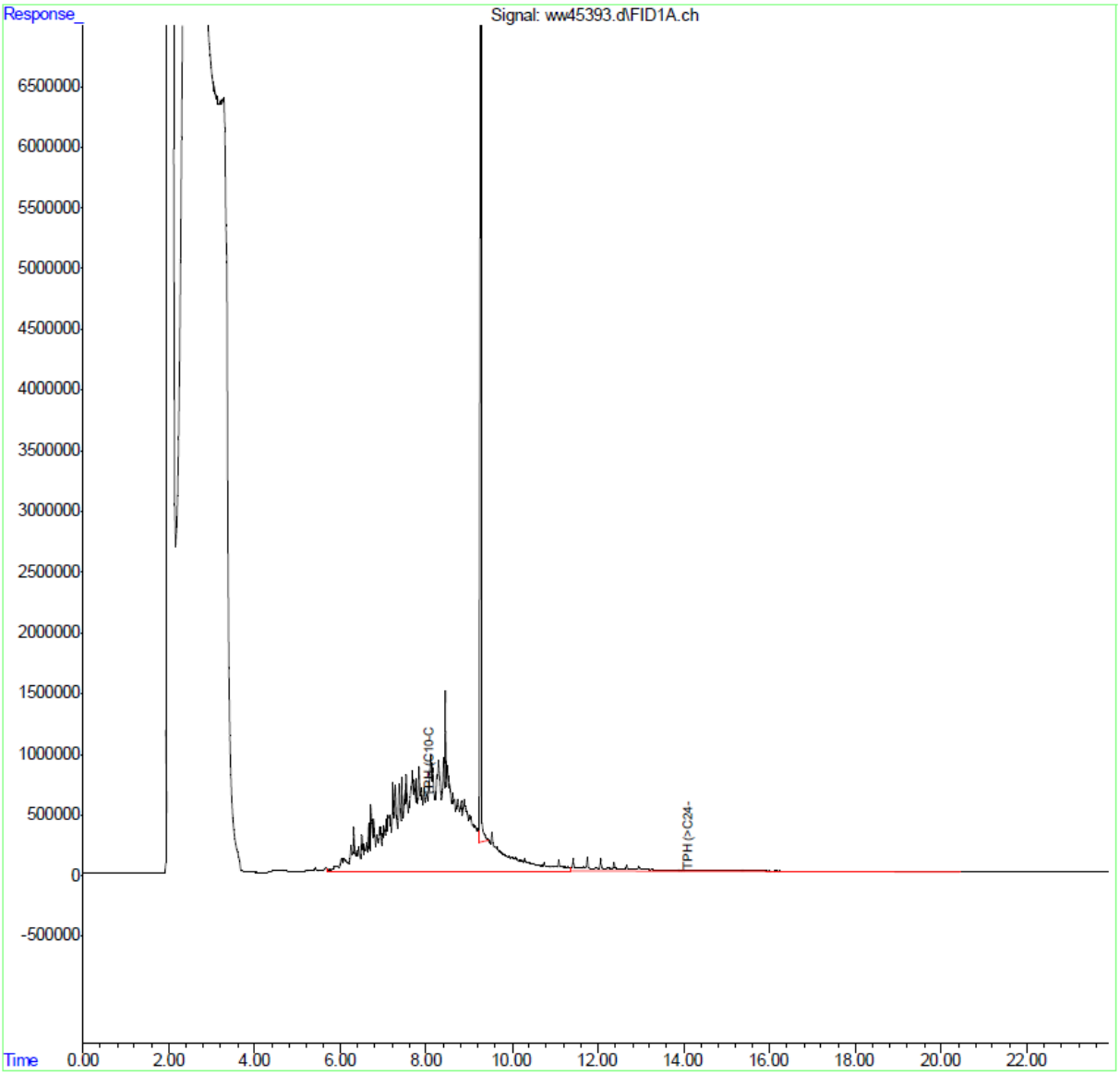
Results (ug/L): **TPH-d (C10 to C24) 942** **TPH-o (C24 to C40): <170 U**

```
Quant Time: Jan 22 09:53:59 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 849** **TPH-o SGC (C24 to C40) <170 U**

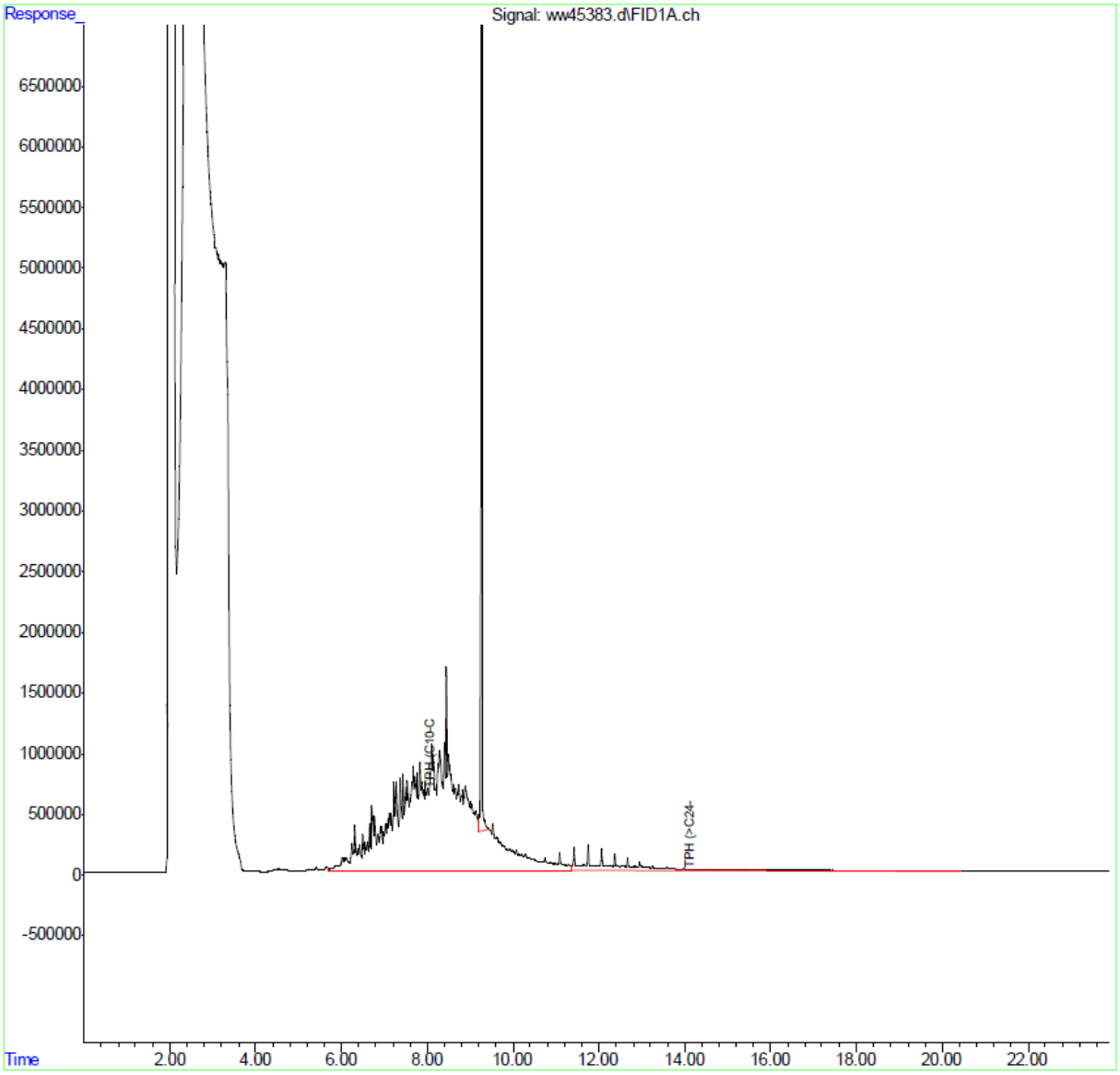
```
Quant Time: Jan 22 10:00:36 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Location: **RHMW02** Sample ID: RHMW02-WGFD01LF-2401WK3-DF Sample Date: 1/19/2024
Lab: SGS

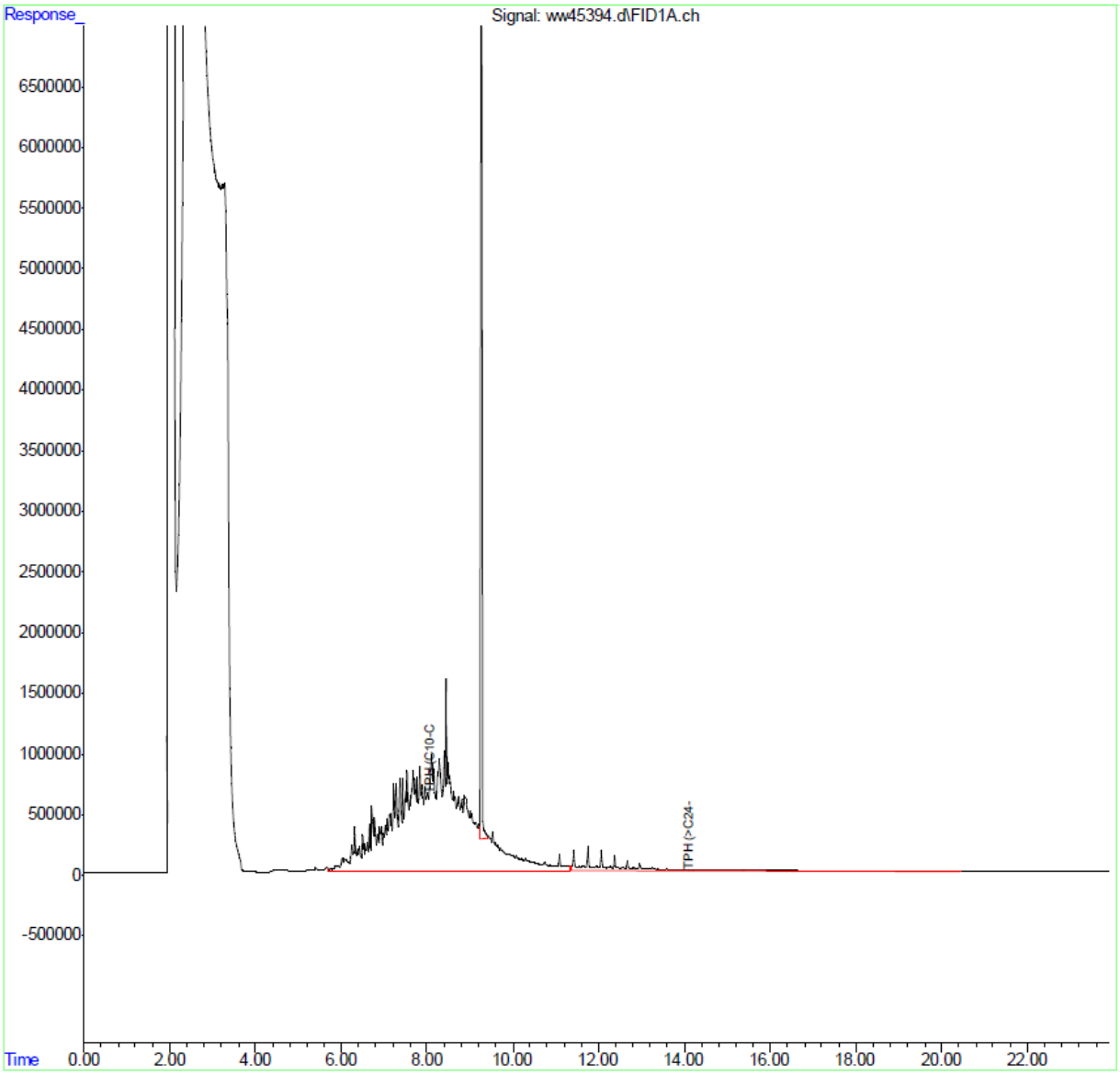
Results (ug/L): **TPH-d (C10 to C24) 912** **TPH-o (C24 to C40) <160 U**

```
Quant Time: Jan 22 09:54:25 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 834** **TPH-o SGC (C24 to C40) <160 U**

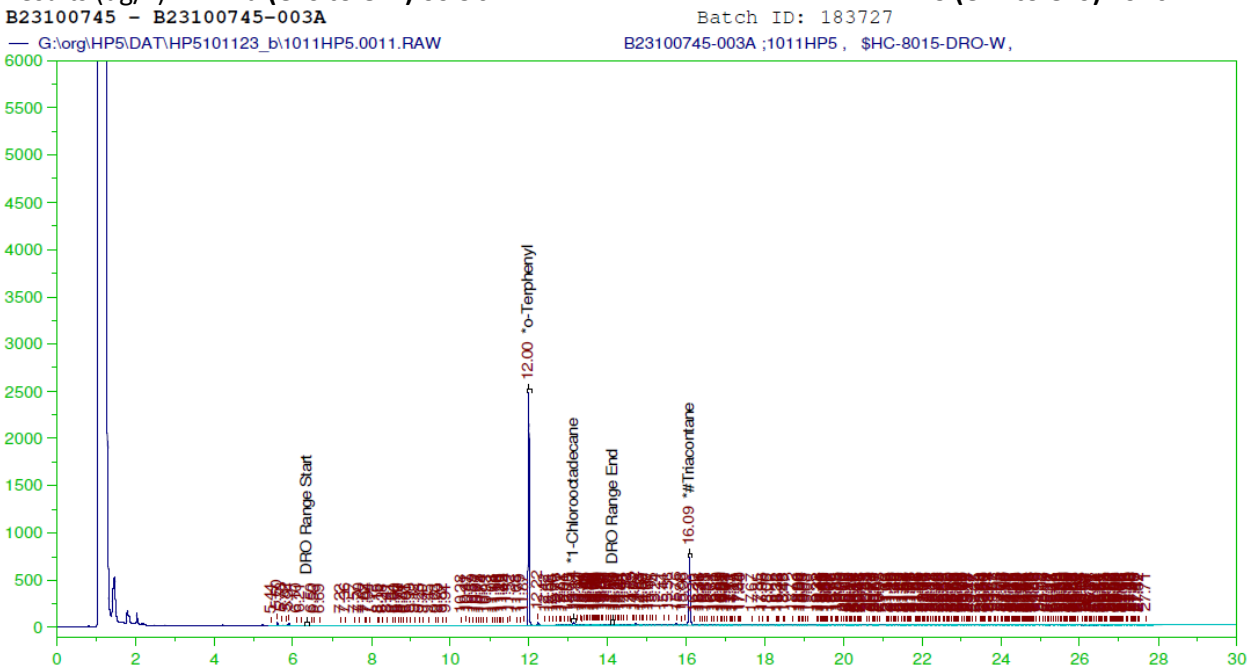
```
Quant Time: Jan 22 10:00:56 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



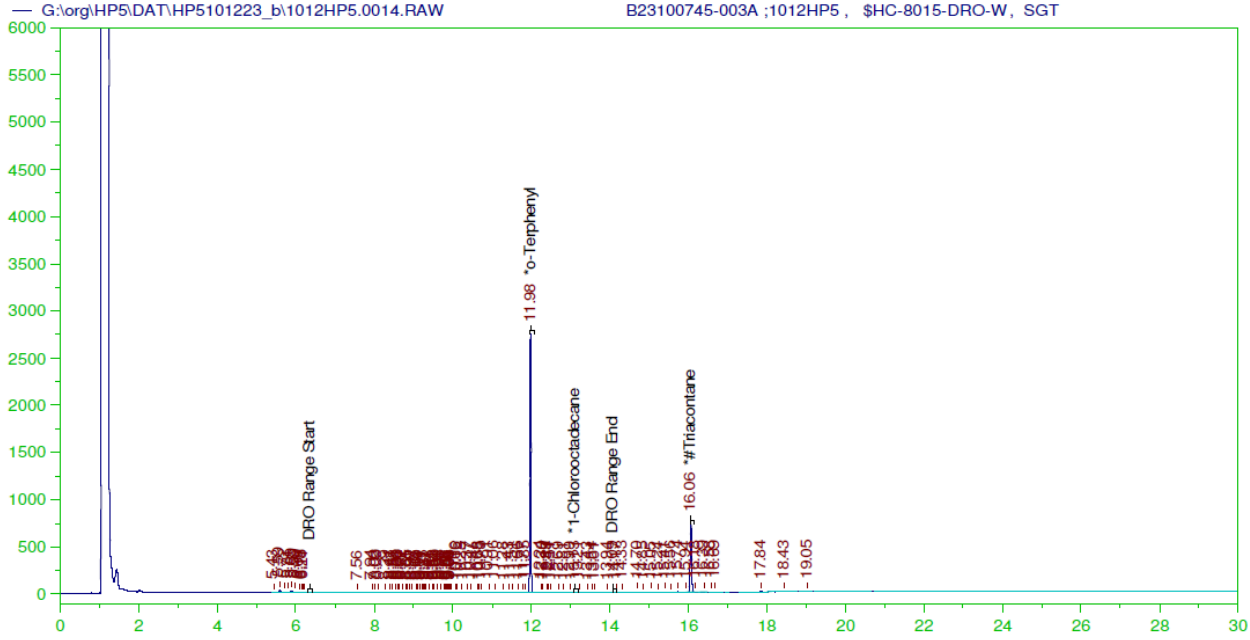
Location: **RHMW03** Sample ID: RHMW03-WGN01LF-23Q4 Sample Date: 10/9/2023

Lab: Energy

Results (ug/L): **TPH-d (C10 to C24) 66.9 J** **TPH-o (C24 to C40) 164 J**



Results (ug/L): **TPH-d SGC (C10 to C24) <141 U** **TPH-o SGC (C24 to C40) <141 U**

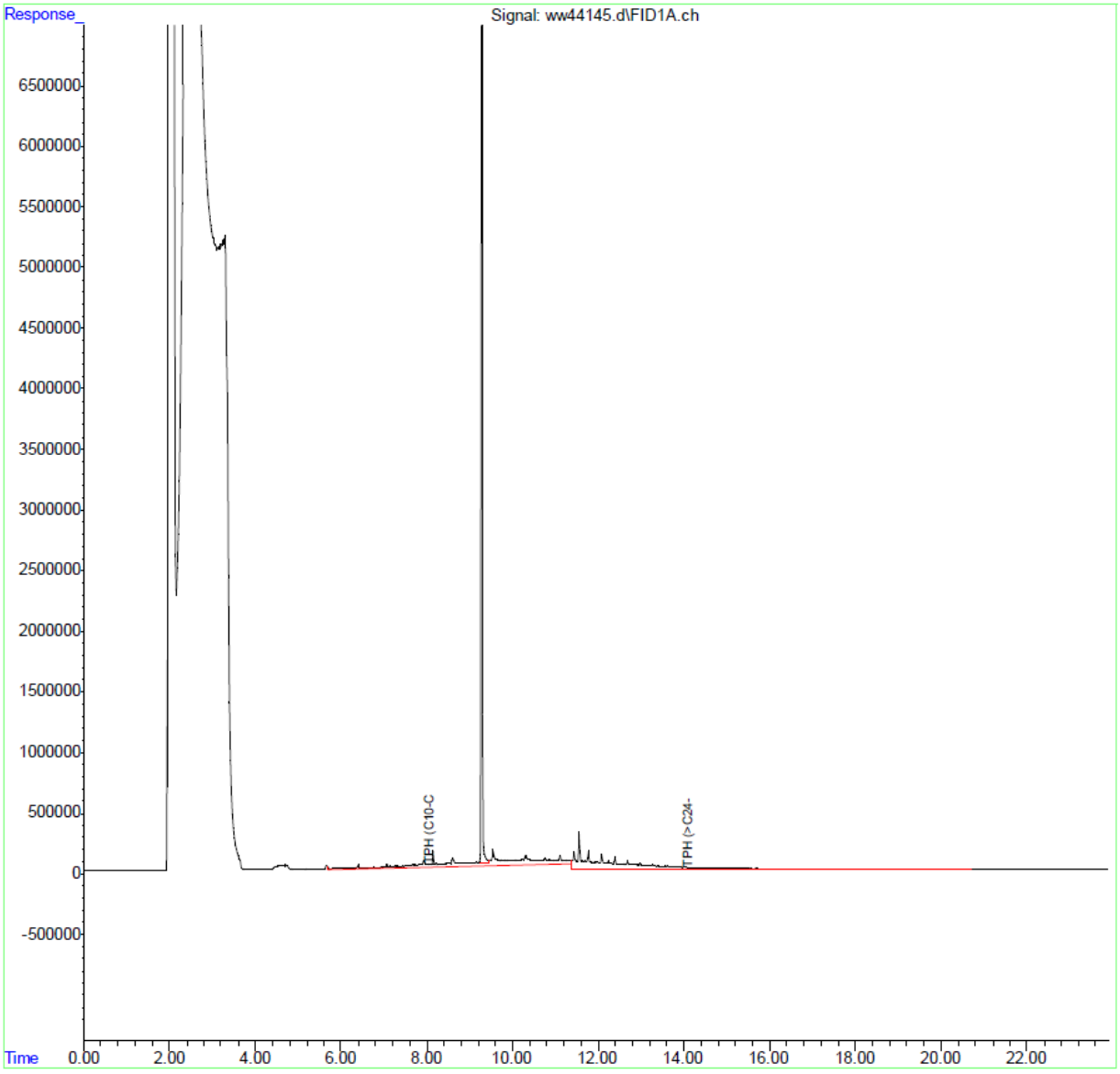


Location: **RHMW03** Sample ID: RHMW03-WGN01LF-2311WK2-DF Sample Date: 11/17/2023

Lab: SGS

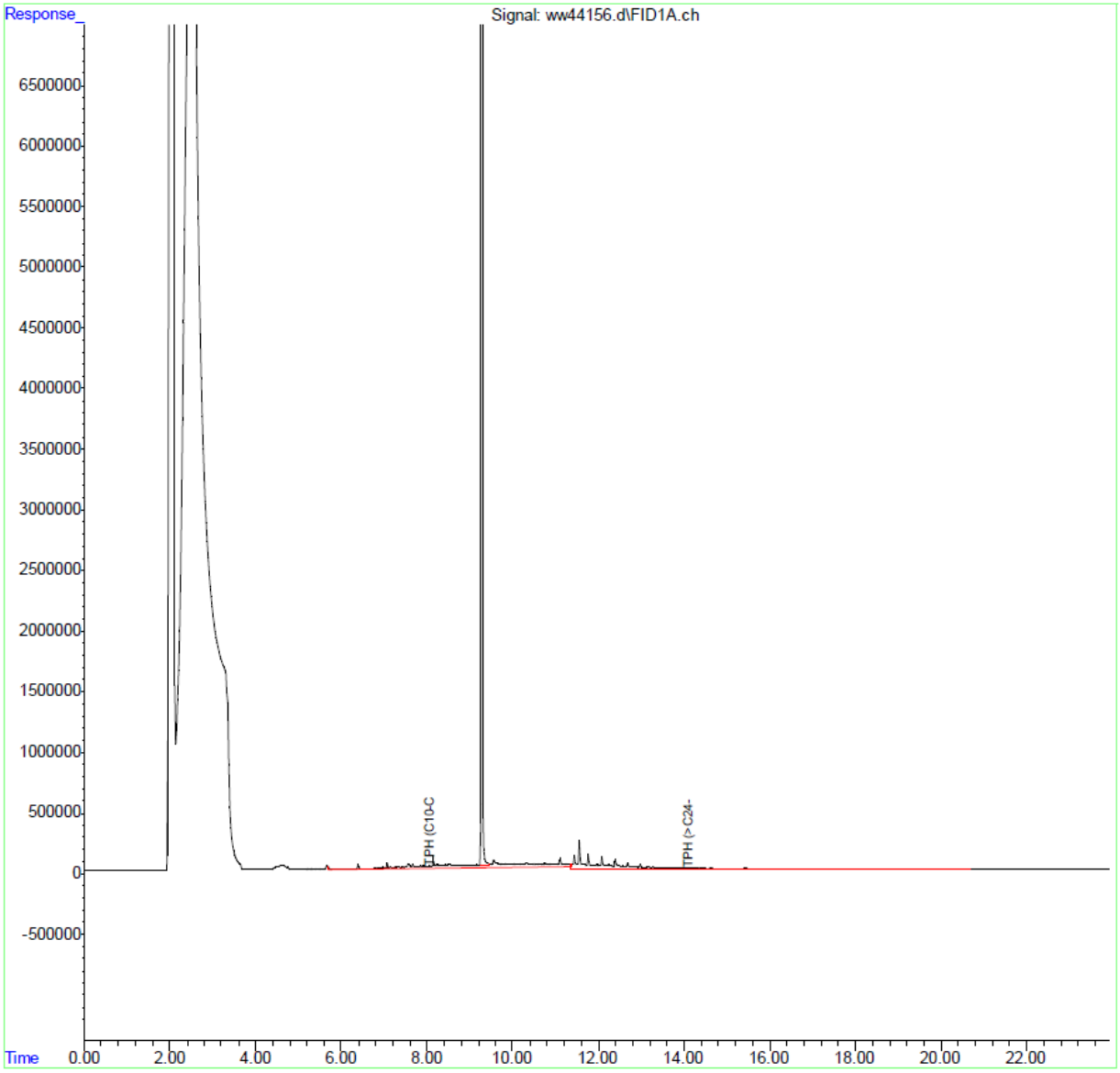
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) 84 J**

```
Quant Time: Nov 20 09:42:17 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) <100 U** **TPH-o SGC (C24 to C40) <170 U**

```
Quant Time: Nov 20 09:46:53 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

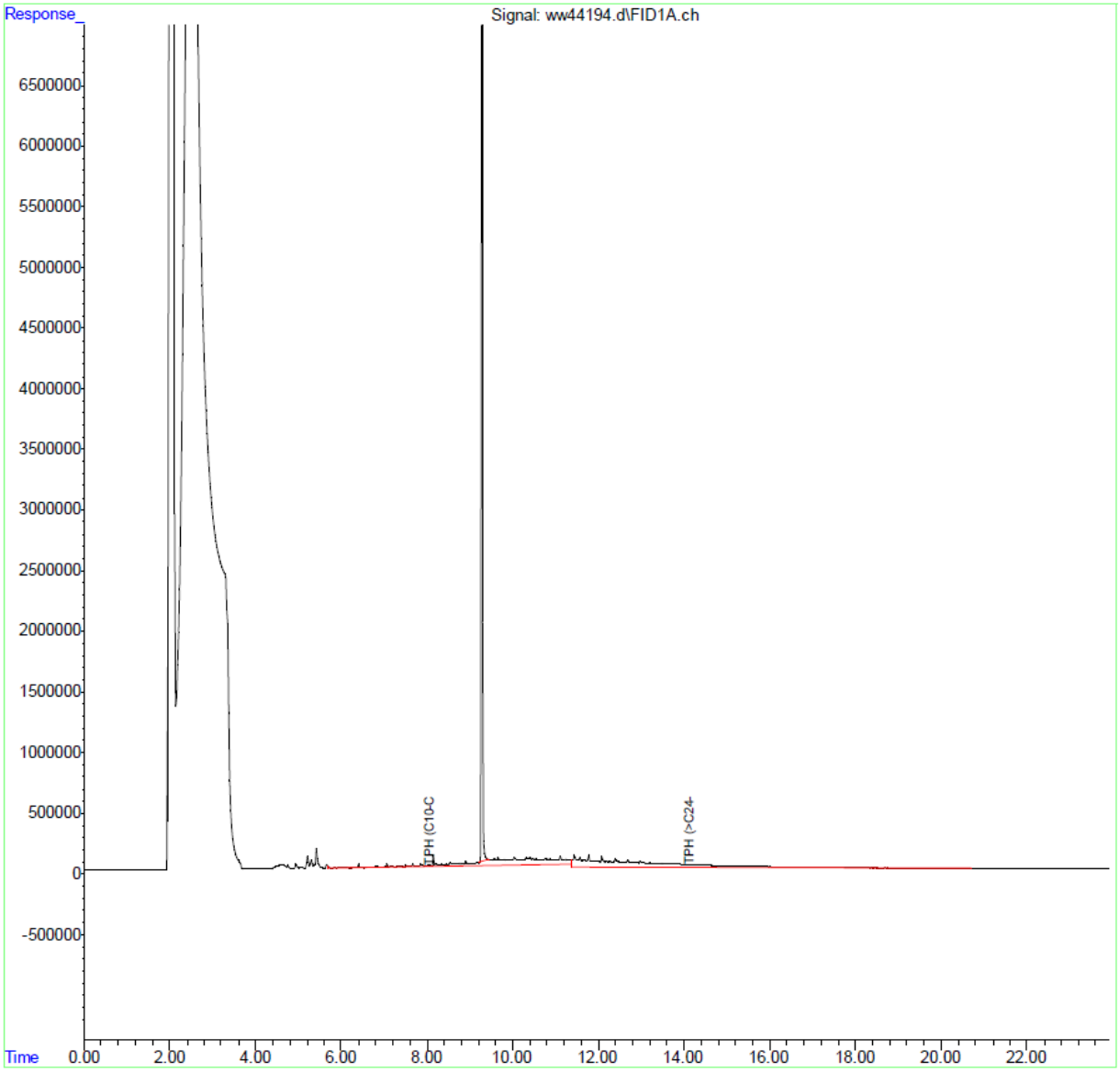


Location: **RHMW03** Sample ID: RHMW03-WGN01LF-2311WK3-DF Sample Date: 11/21/2023

Lab: SGS

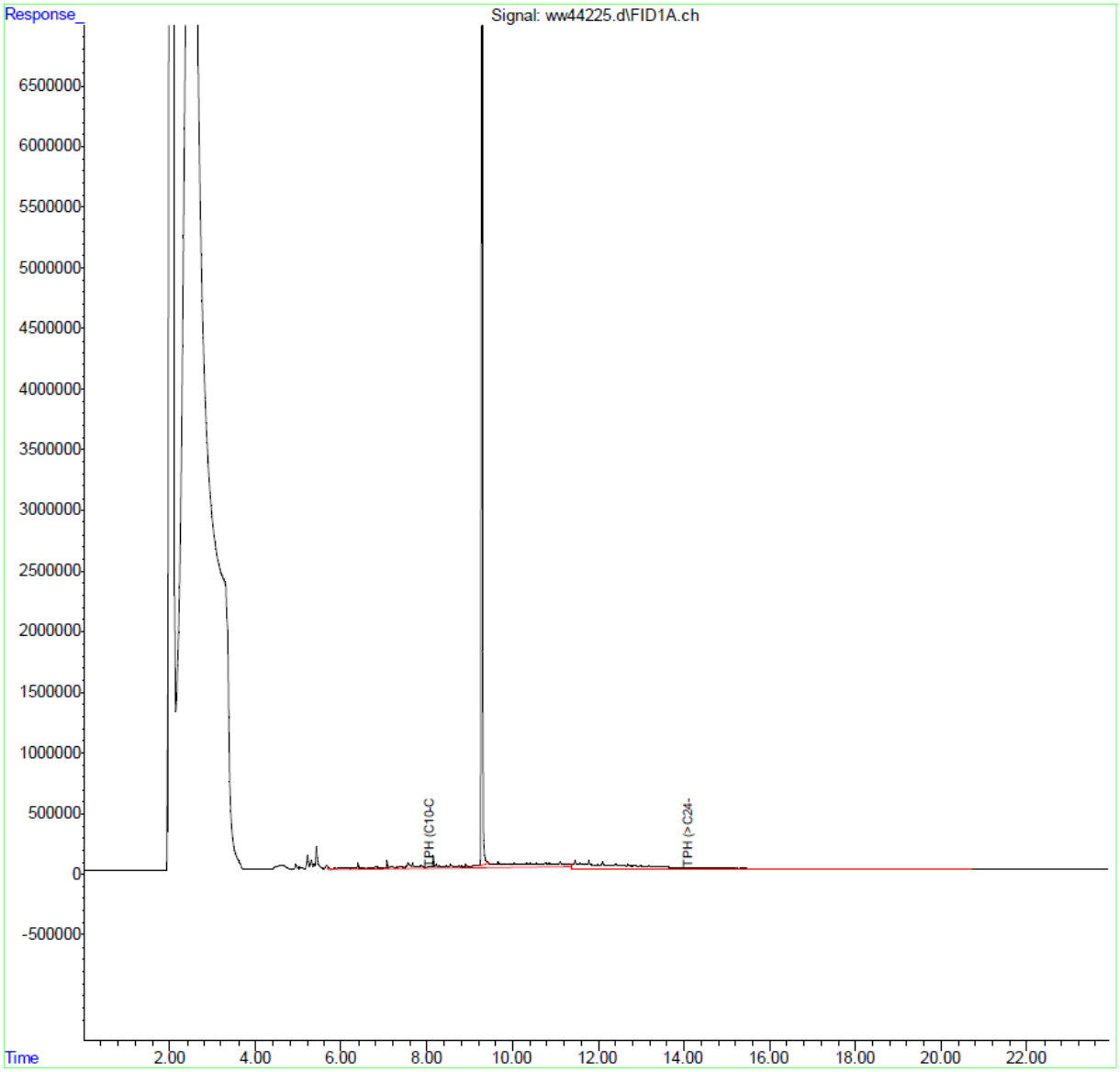
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) 96.0 J**

```
Quant Time: Nov 24 08:38:18 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) <100 U** **TPH-o SGC (C24 to C40) <170 U**

```
Quant Time: Nov 24 11:58:29 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

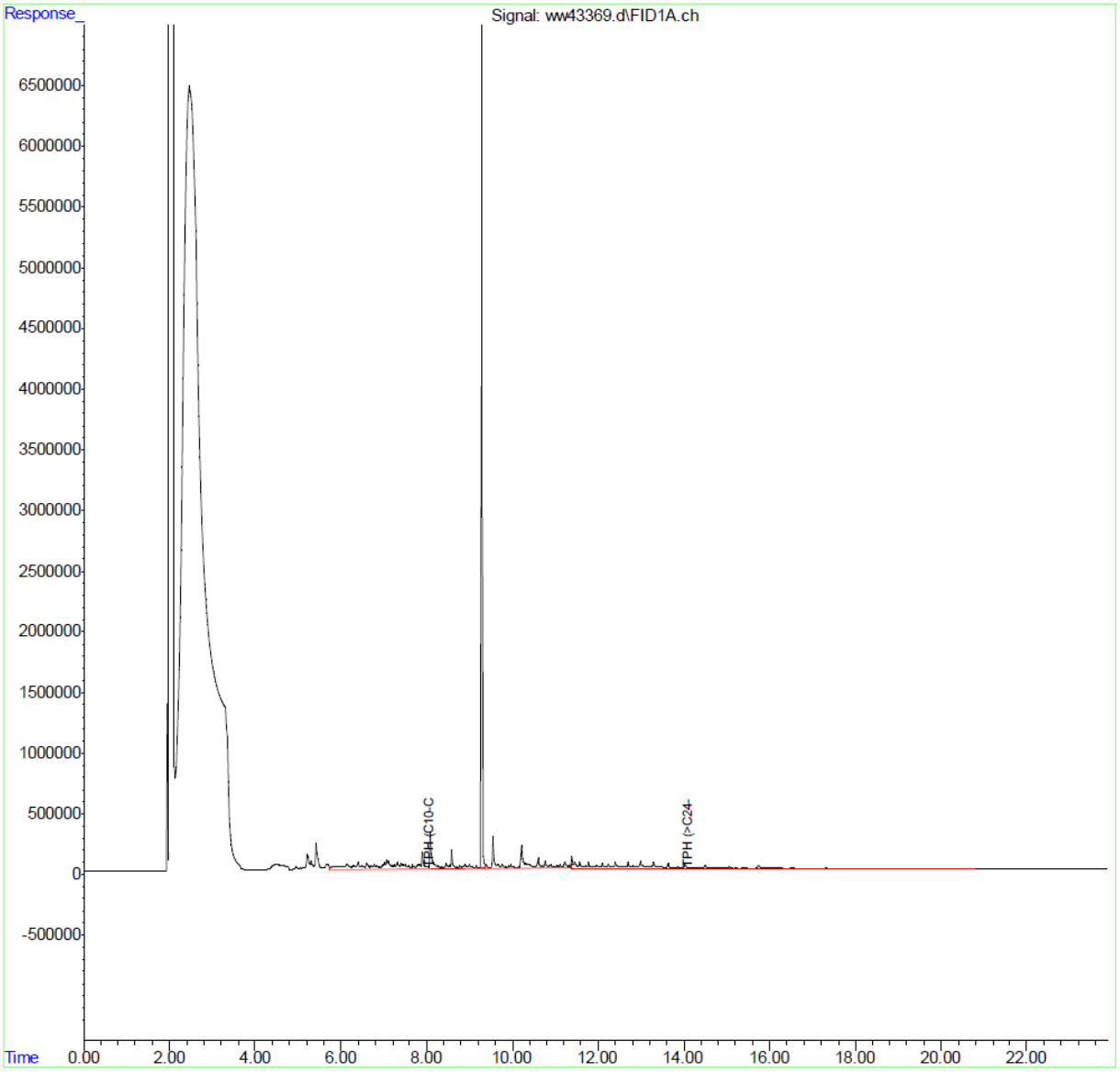


Location: **RHMW04** Sample ID: RHMW04-WGN01LF-2310 Sample Date: 10/6/2023

Lab: SGS

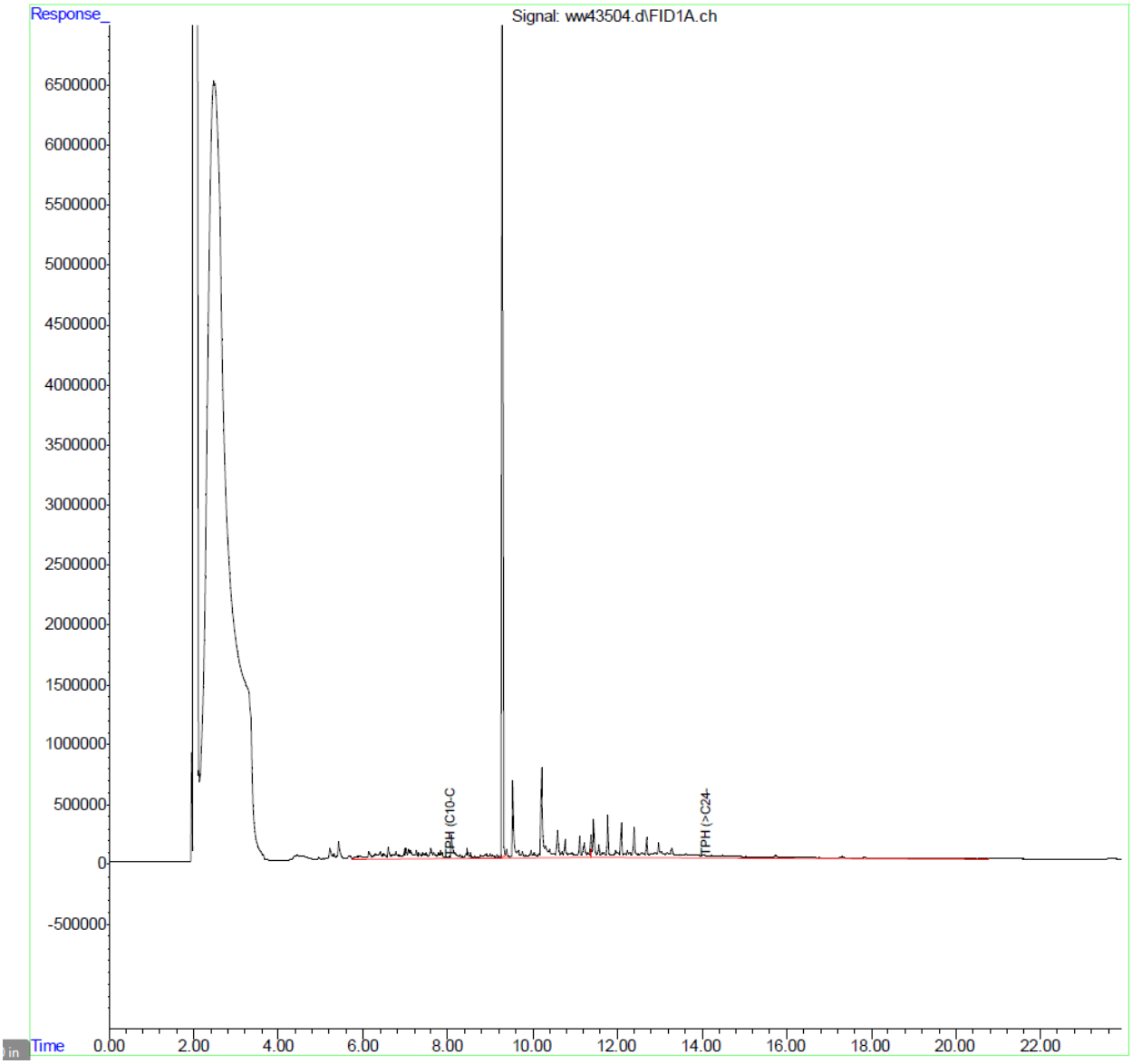
Results (ug/L): **TPH-d (C10 to C24) 232 J-** **TPH-o (C24 to C40) 141 J**

```
Quant Time: Oct 16 12:18:58 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 113 J** **TPH-o SGC (C24 to C40) 104 J**

```
Quant Time: Oct 20 11:16:57 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

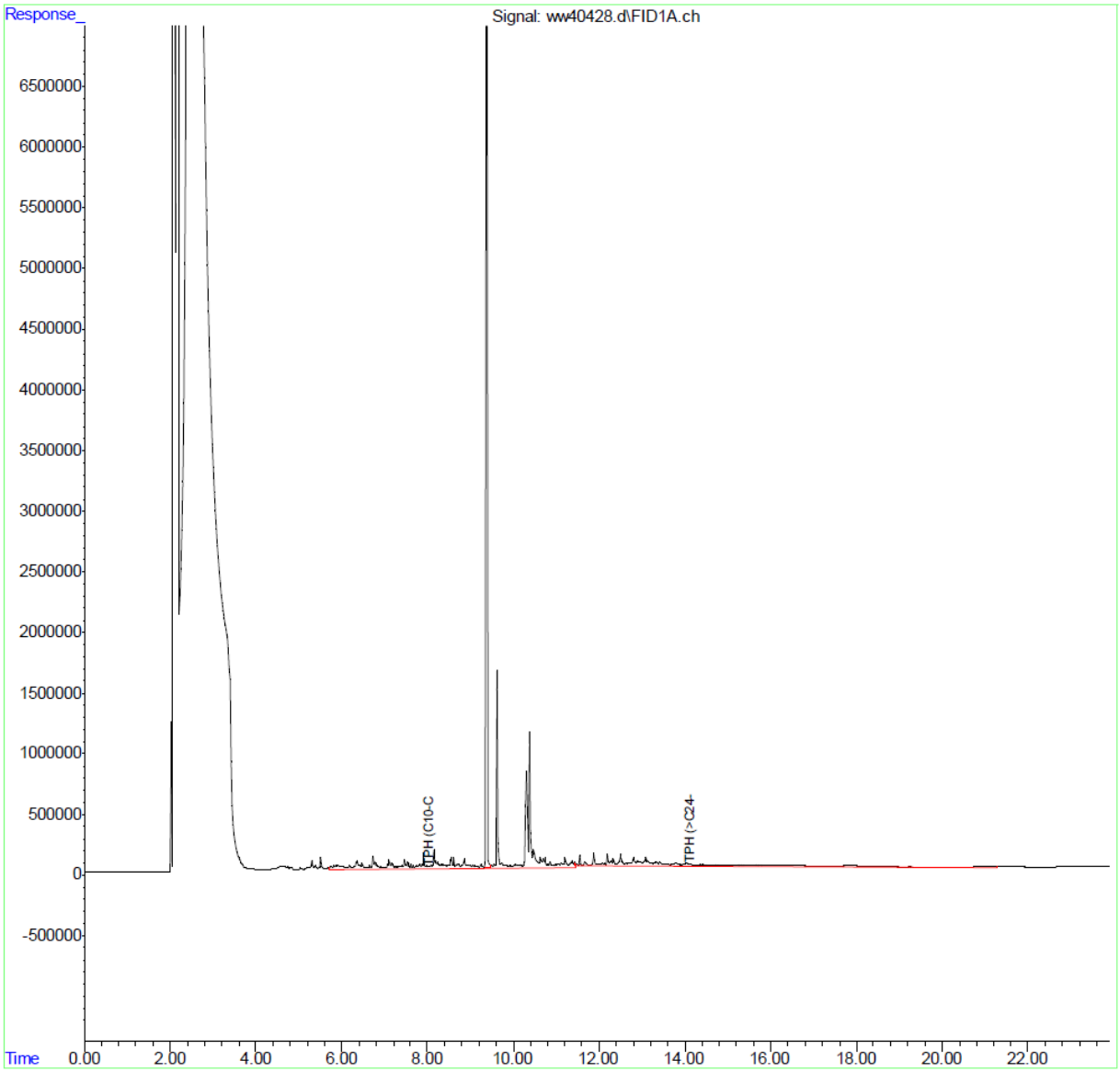


Location: **RHMW05** Sample ID: RHMW05-WGN01LF-2306WK2 Sample Date: 6/15/2023

Lab: SGS

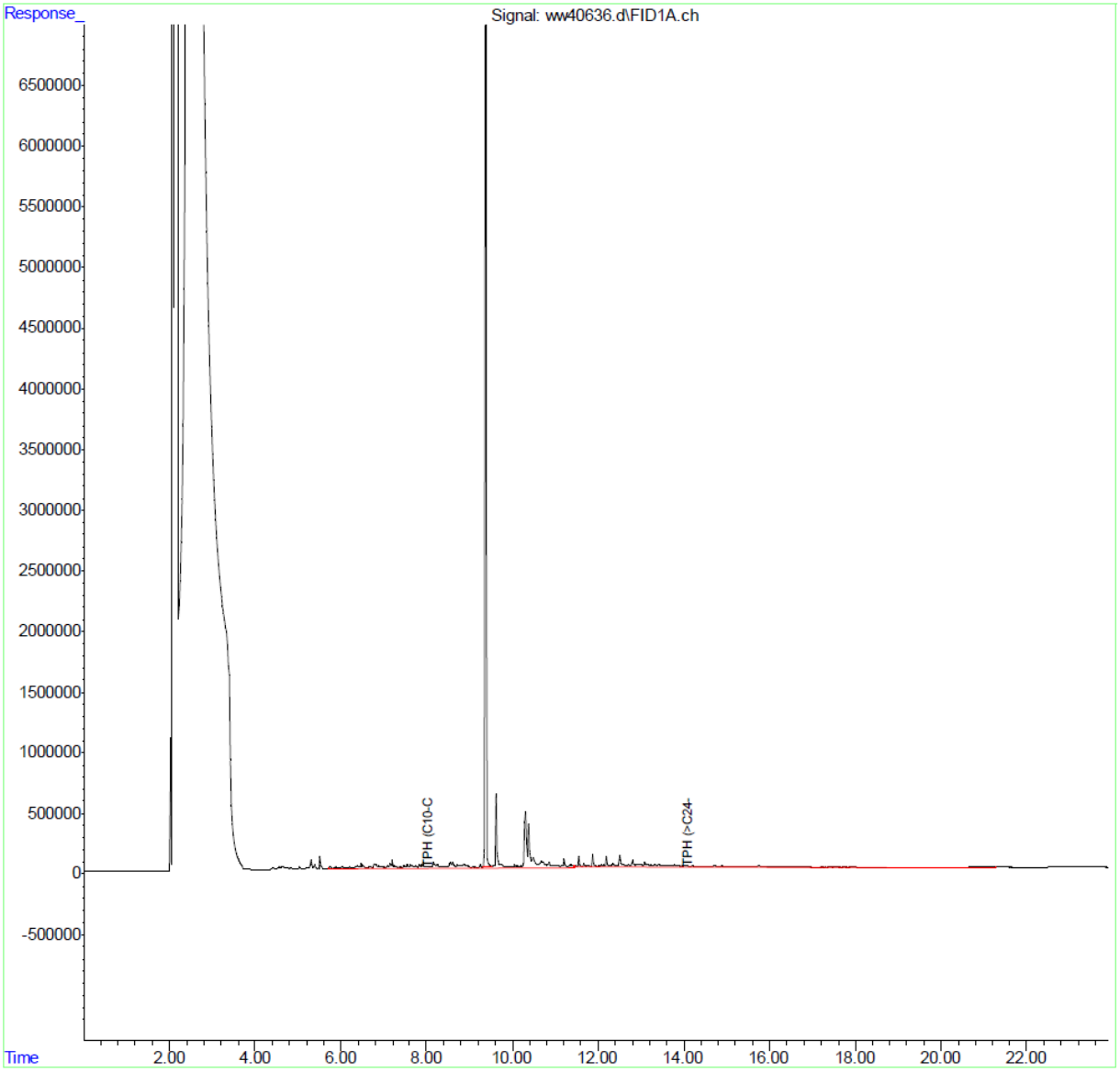
Results (ug/L): **TPH-d (C10 to C24) 138 J** **TPH-o (C24 to C40) <160 U**

```
Quant Time: Jul 19 16:22:15 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_080922_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Wed Aug 10 09:31:47 2022
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) <100 U** **TPH-o SGC (C24 to C40) <160 U**

```
Quant Time: Sep 12 19:41:05 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_080922_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Wed Aug 10 09:31:47 2022
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

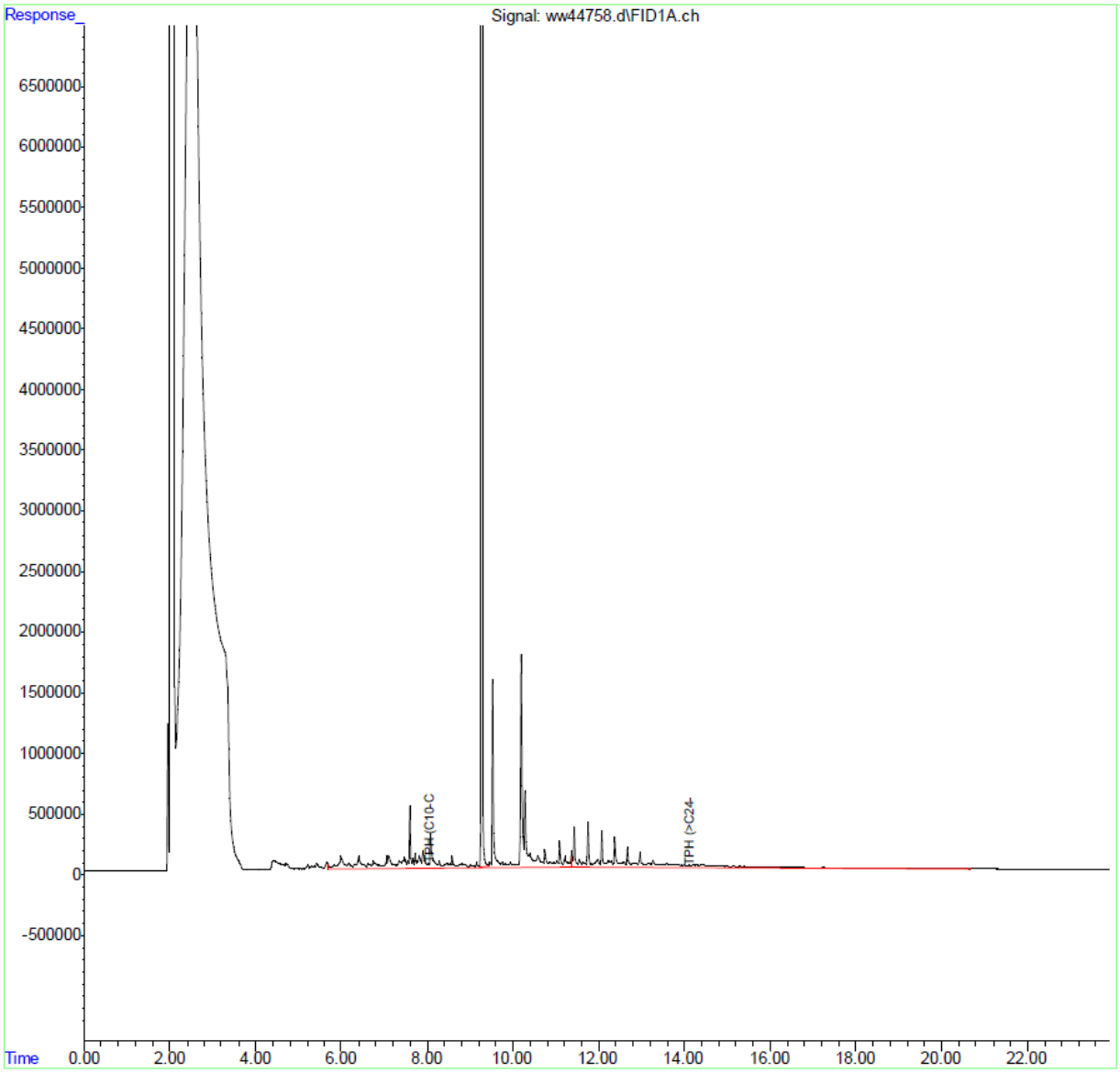


Location: **RHMW08** Sample ID: RHMW08-WGN01LF-2312WK3-DF Sample Date: 12/18/2023

Lab: SGS

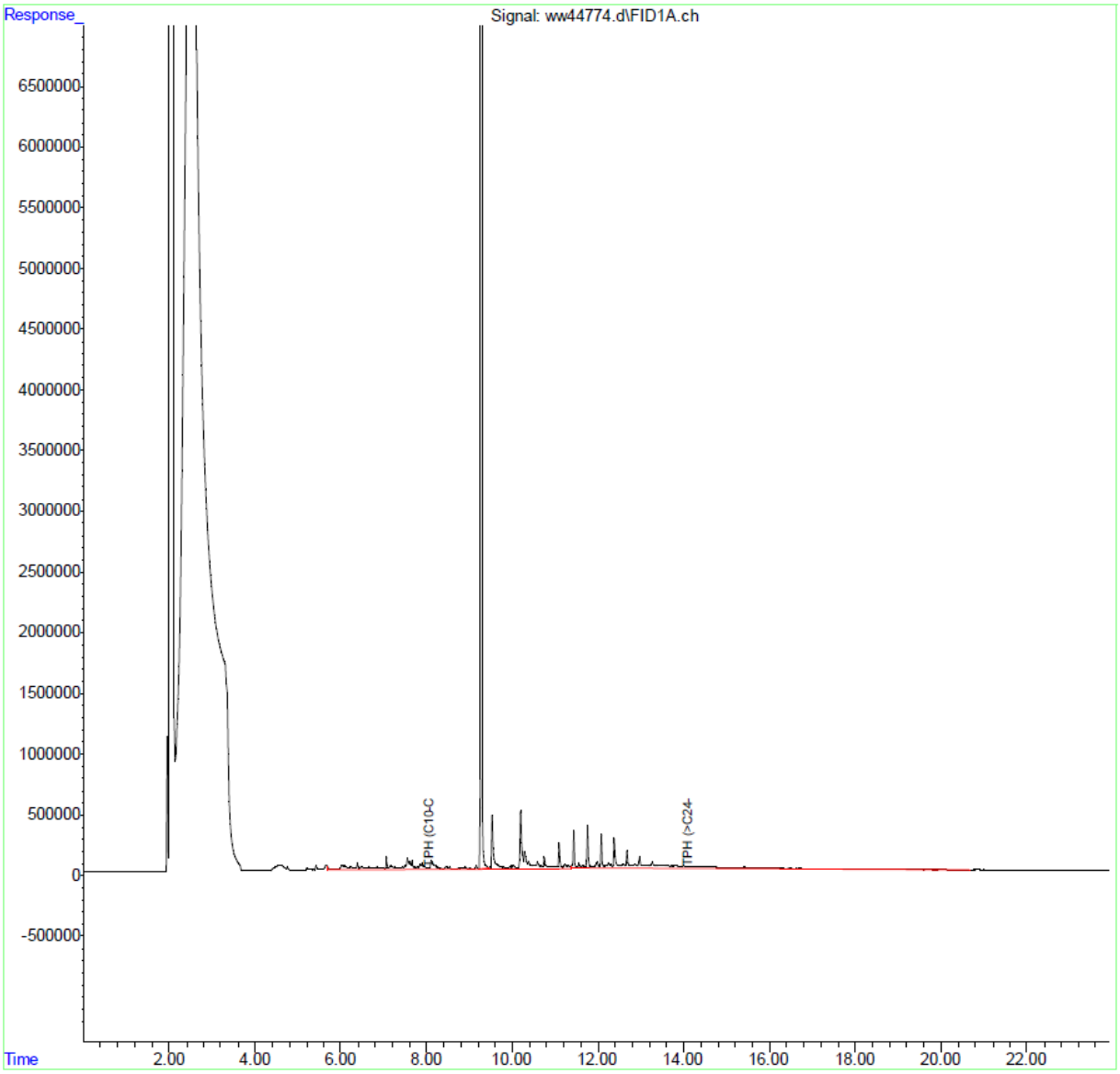
Results (ug/L): **TPH-d (C10 to C24) 164 J** **TPH-o (C24 to C40) 106 J**

```
Quant Time: Dec 20 15:52:00 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) <100 U** **TPH-o SGC (C24 to C40) 87.6 J**

```
Quant Time: Dec 21 09:37:14 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

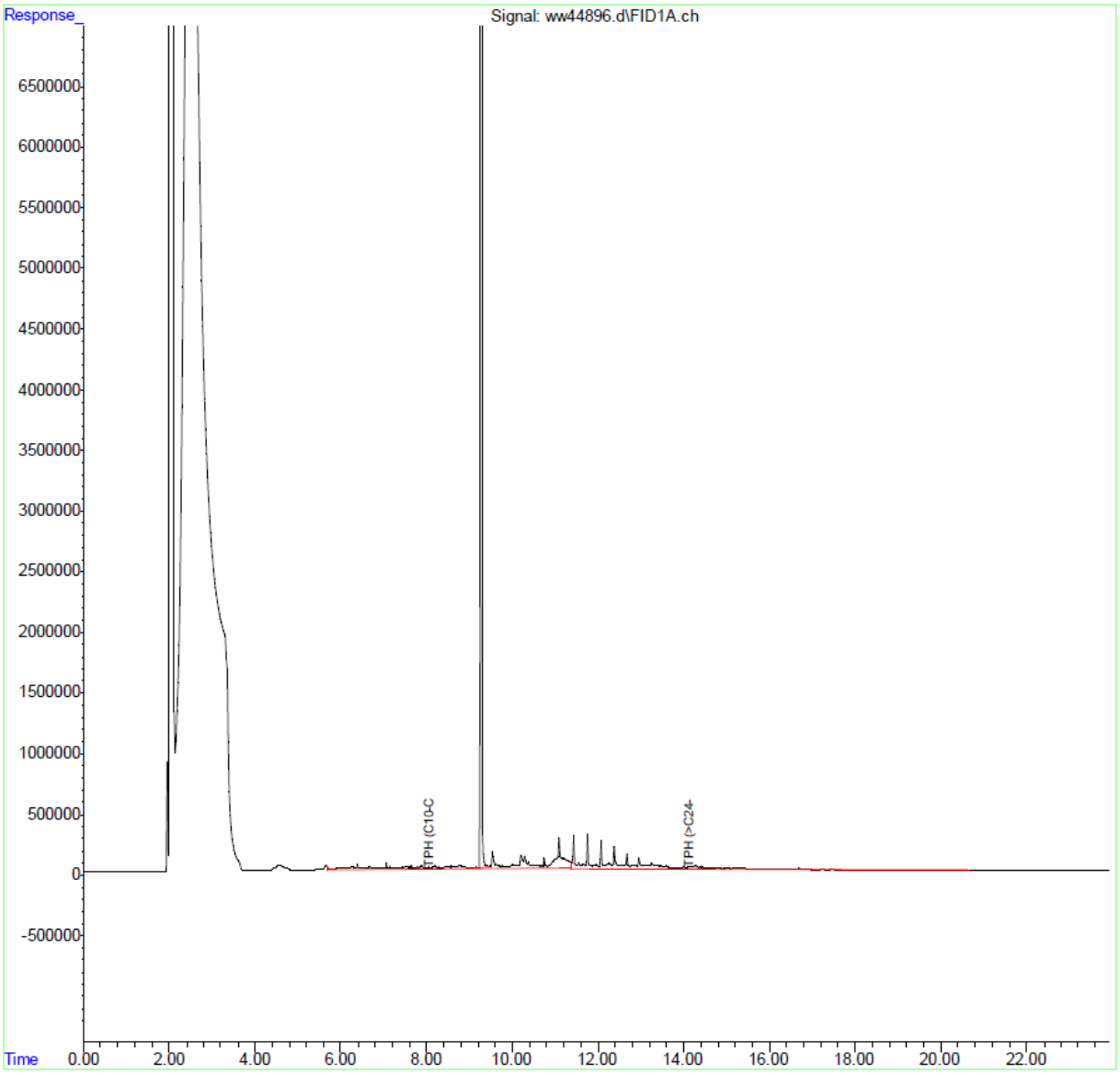


Location: **RHMW08** Sample ID: RHMW08-WGN01LF-2312WK4-DF Sample Date: 12/26/2023

Lab: SGS

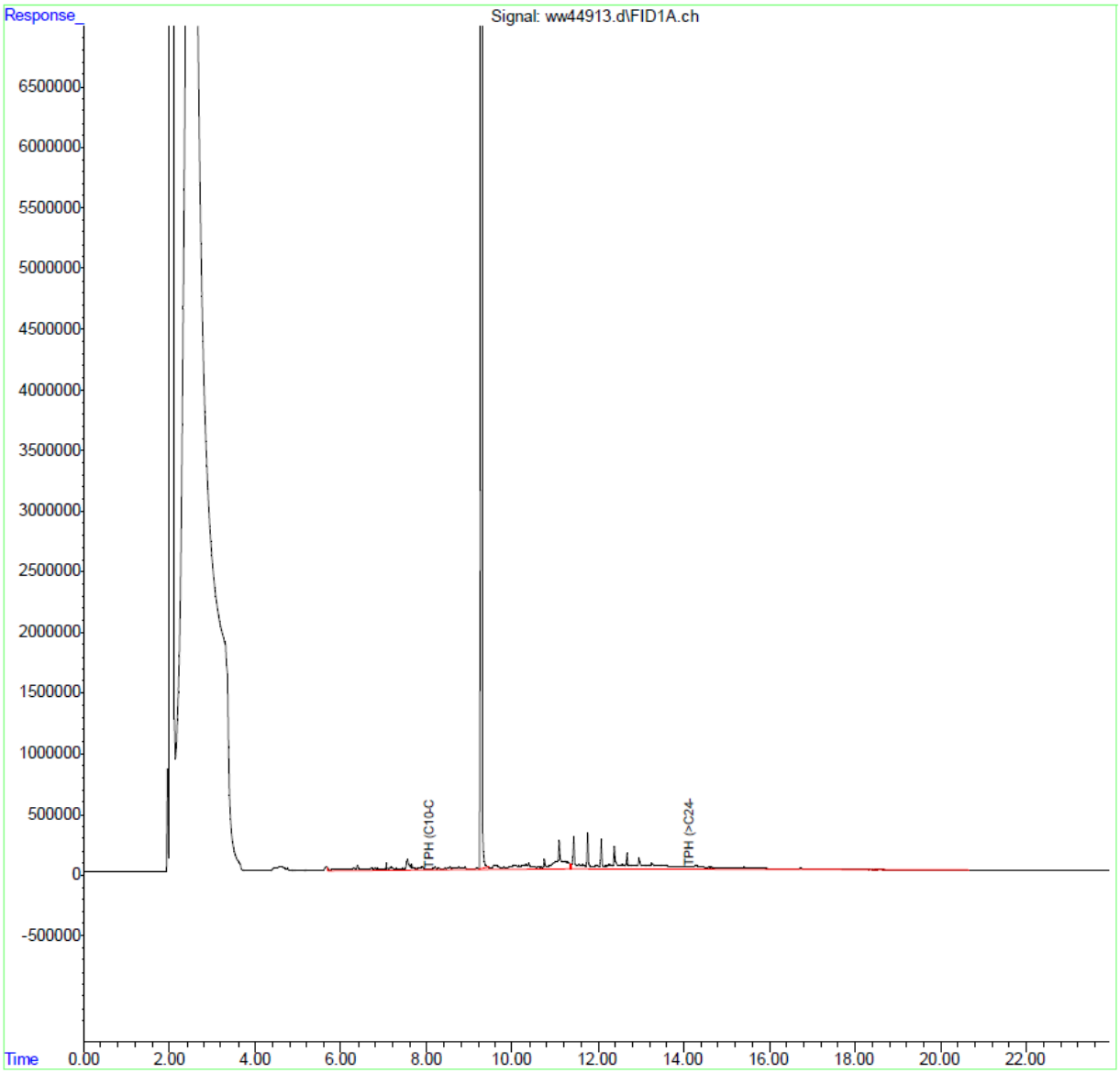
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) 82.1 J**

```
Quant Time: Dec 29 09:18:18 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) <100 U** **TPH-o SGC (C24 to C40) 83.0 J**

```
Quant Time: Dec 29 14:42:48 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

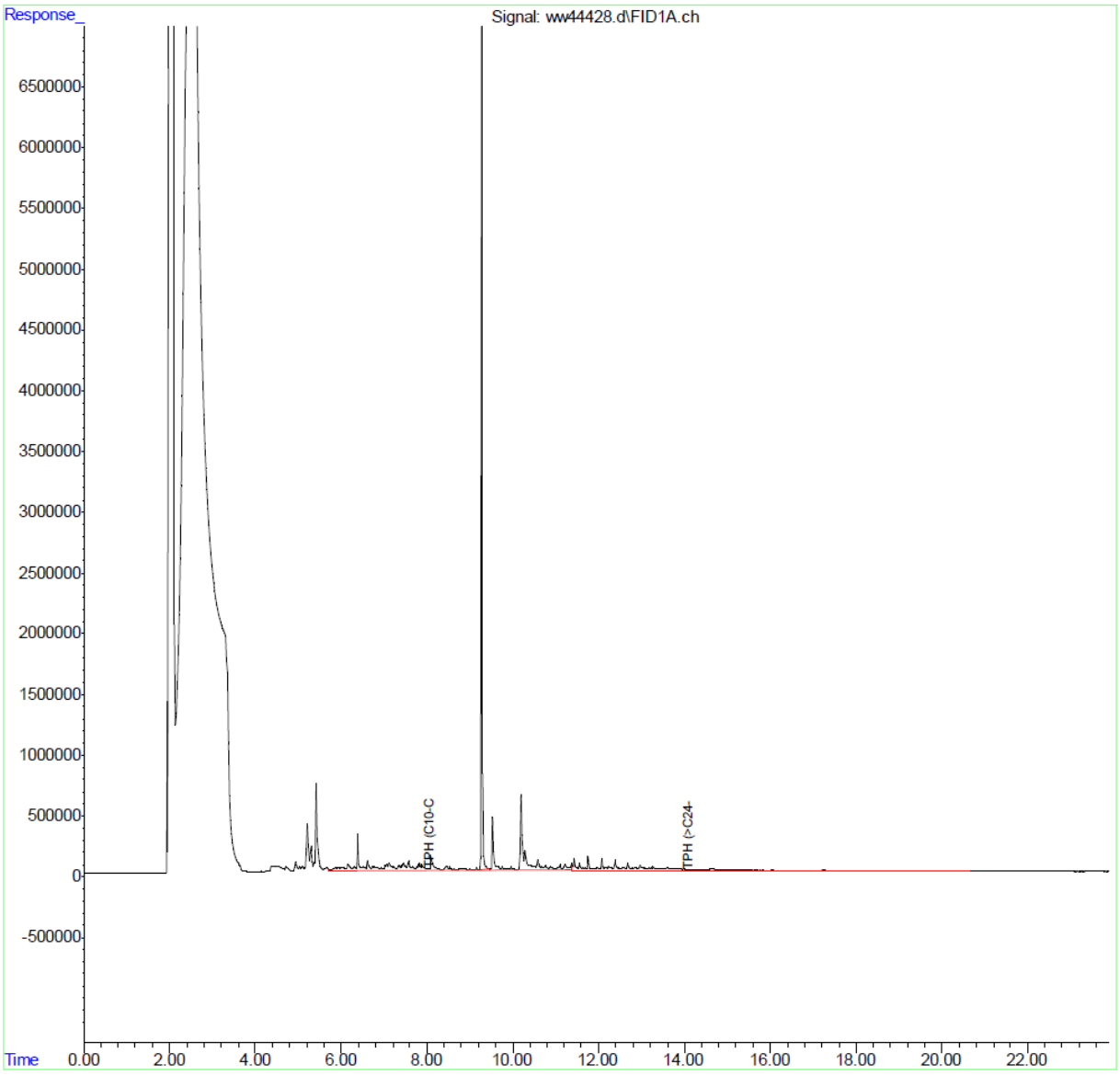


Location: **RHMW09** Sample ID: RHMW09-WGN01LF-2312-DF Sample Date: 12/4/2023

Lab: SGS

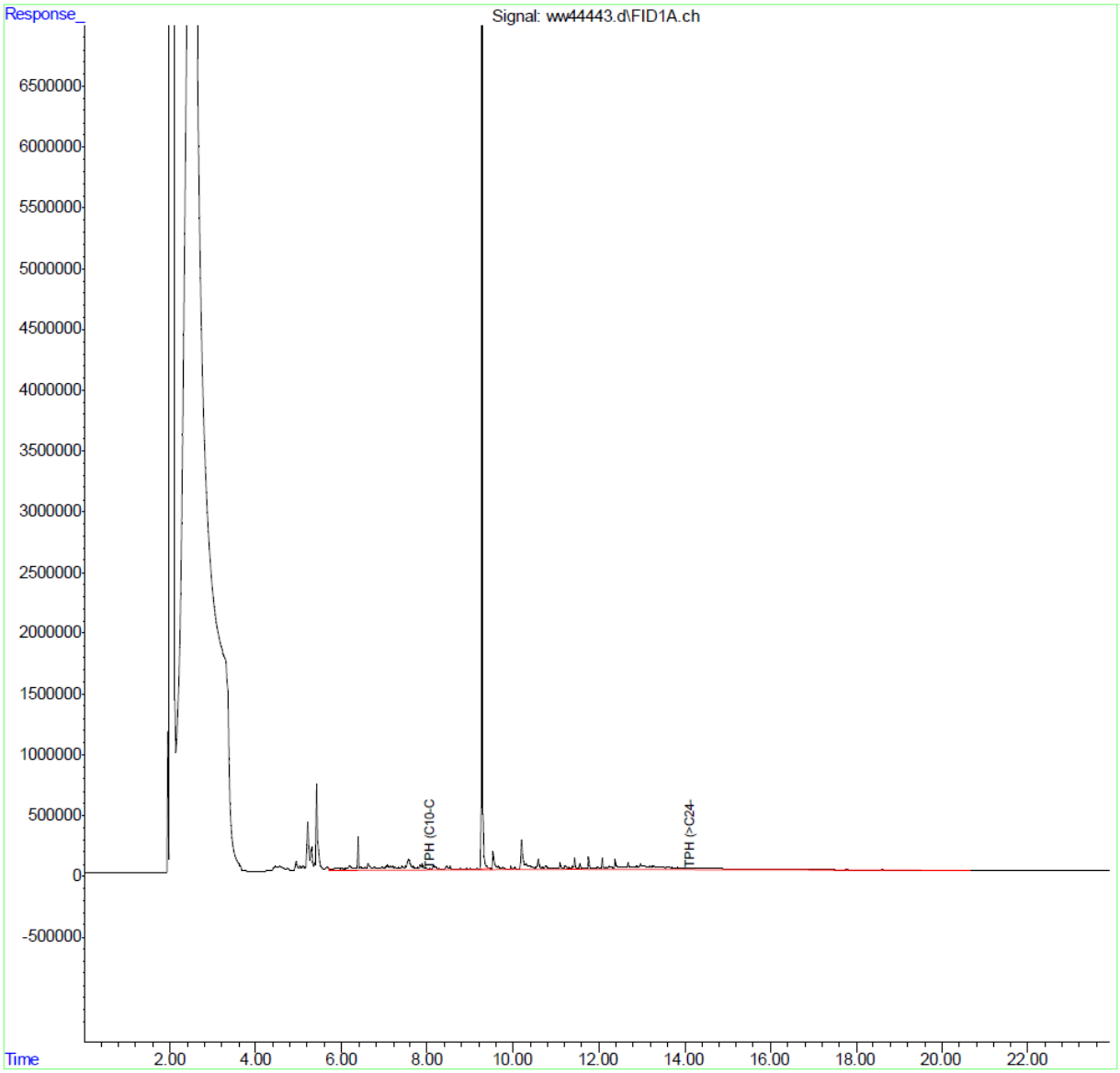
Results (ug/L): **TPH-d (C10 to C24) 85.3 J** **TPH-o (C24 to C40) <170 U**

```
Quant Time: Dec 07 09:38:41 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) <100 U** **TPH-o SGC (C24 to C40) <170 U**

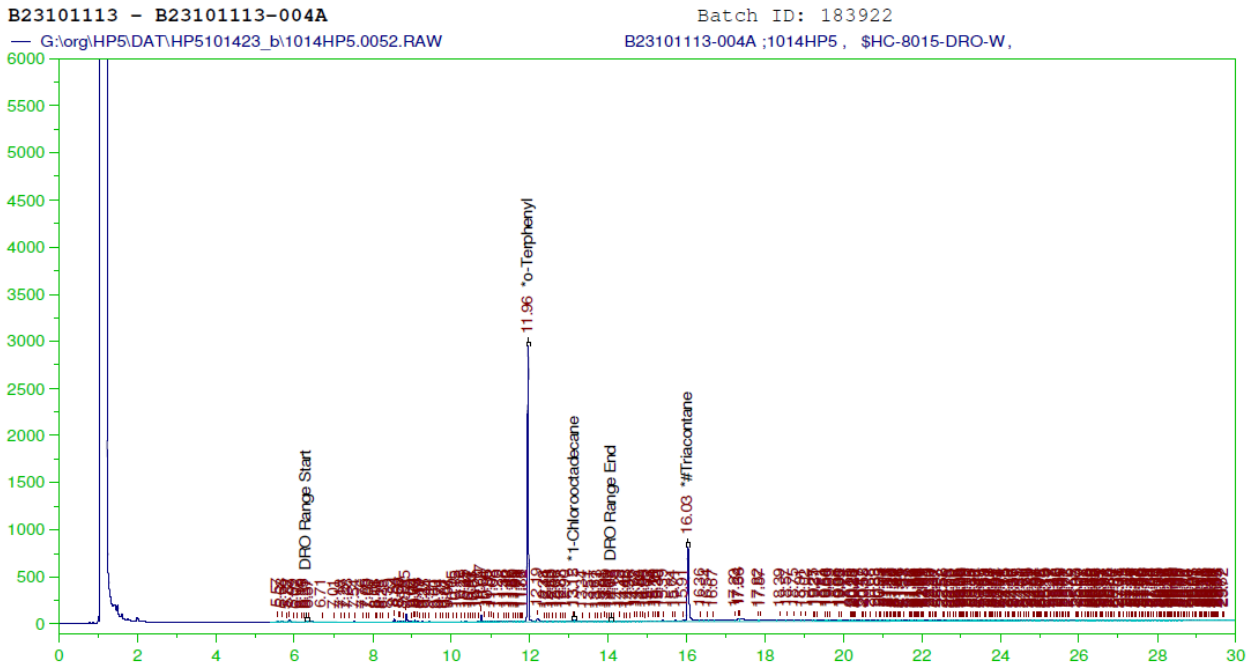
```
Quant Time: Dec 07 13:54:18 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



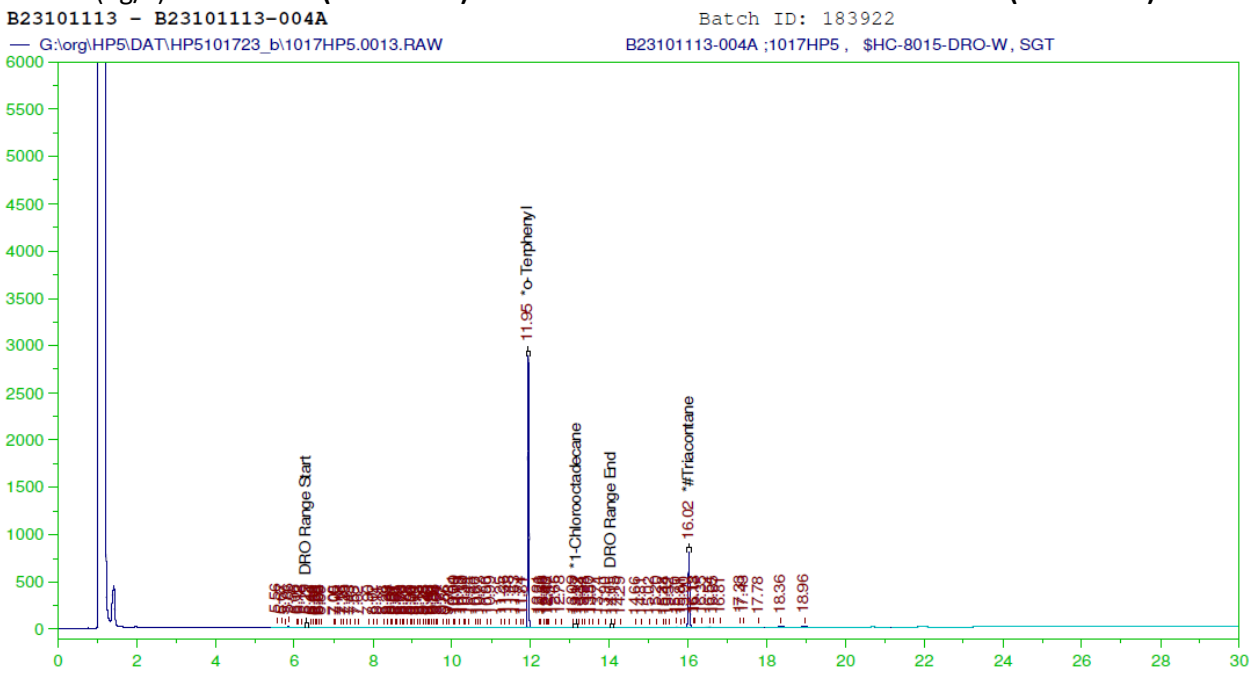
Location: **RHMW13-04** Sample ID: RHMW13-04-WGN01G-23Q4 Sample Date: 10/10/2023

Lab: Energy

Results (ug/L): **TPH-d (C10 to C24) 89.2 J** **TPH-o (C24 to C40) 211 J**



Results (ug/L): **TPH-d SGC (C10 to C24) <141 U** **TPH-o SGC (C24 to C40) <141 U**

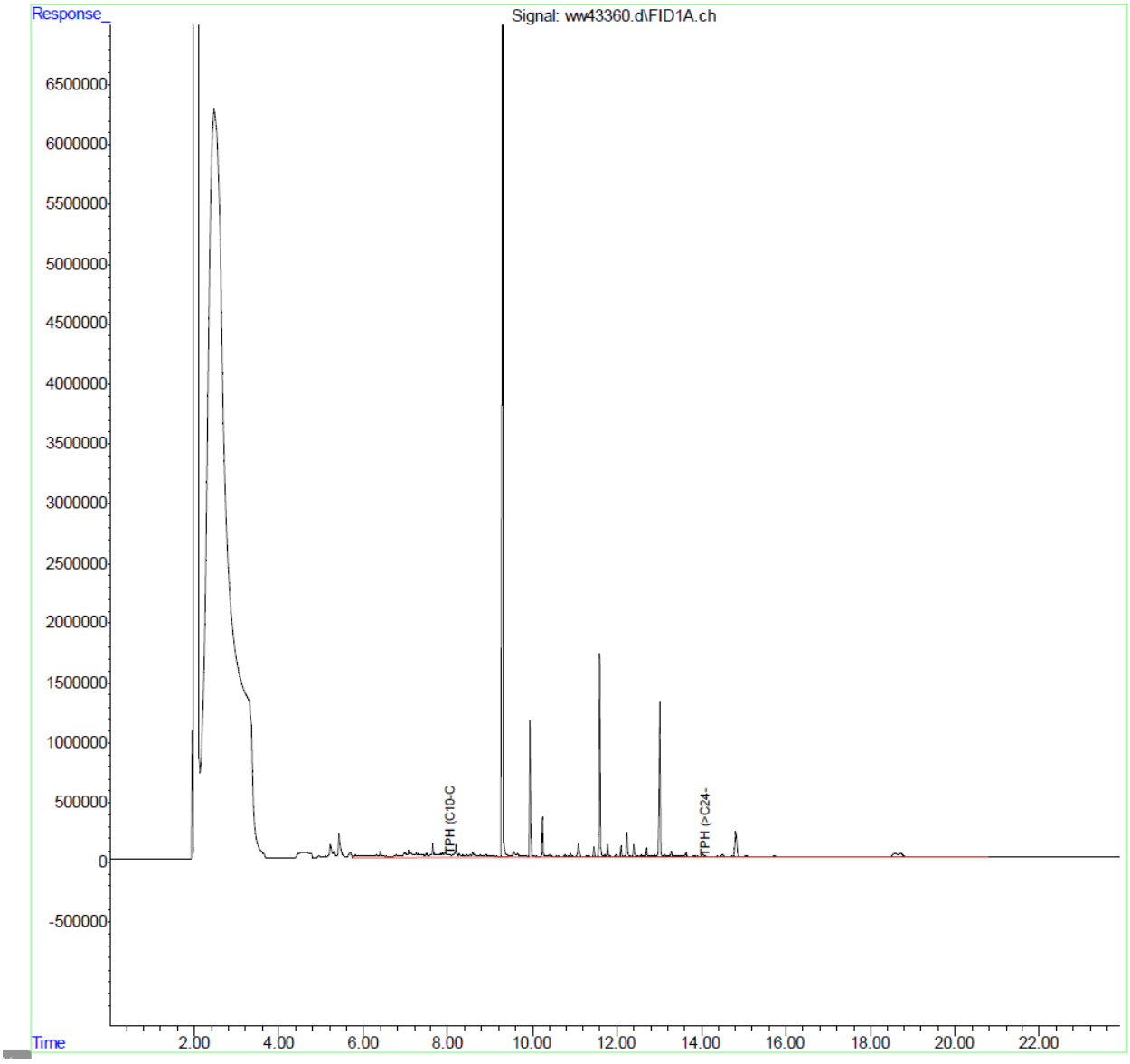


Location: **RHMW13-05** Sample ID: RHMW13-05-WGN01G-2310 Sample Date: 10/5/2023

Lab: SGS

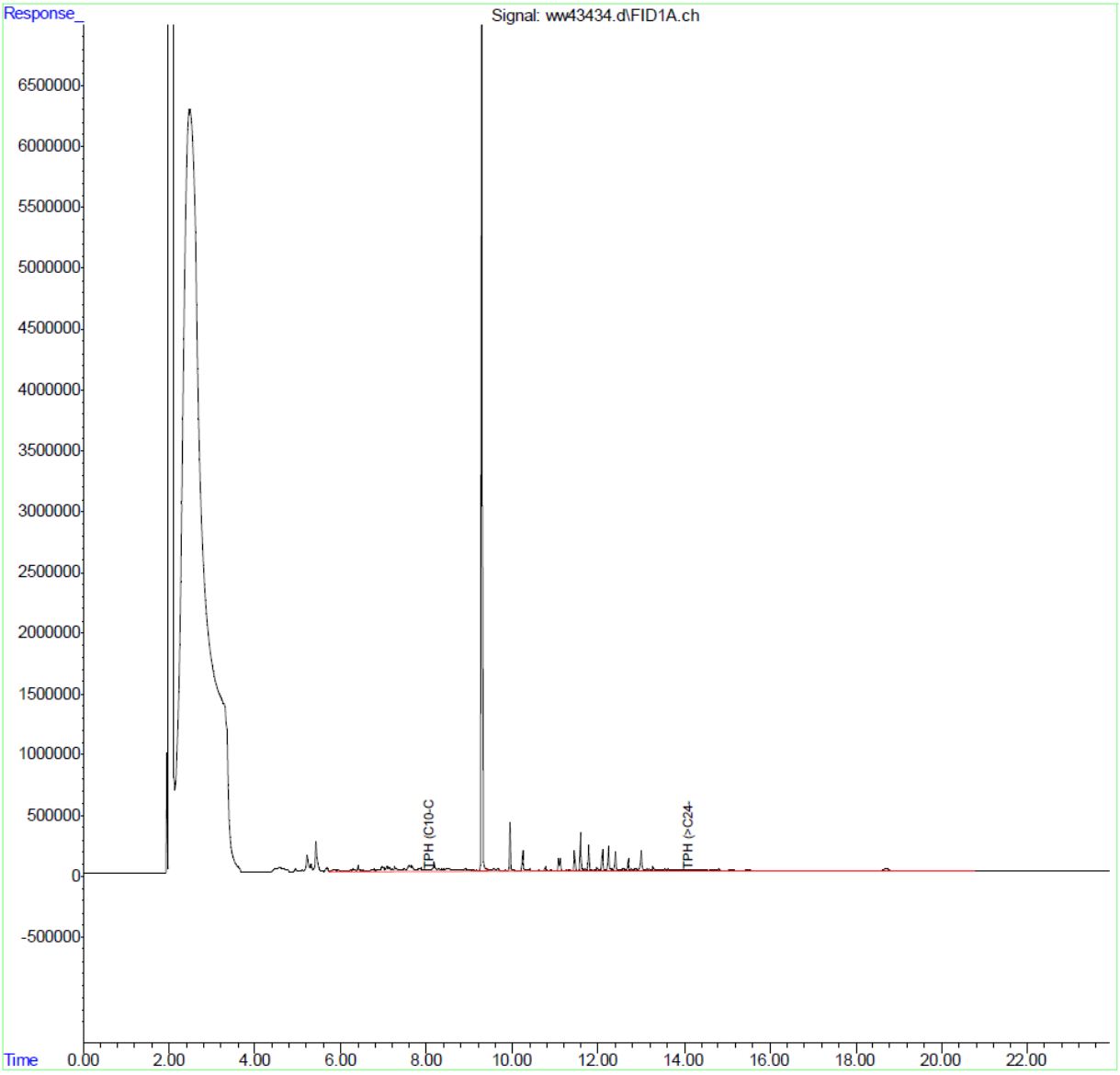
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) 95.2 J**

```
Quant Time: Oct 16 12:11:38 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) <100 U** **TPH-o SGC (C24 to C40) <170 U**

```
Quant Time: Oct 17 17:07:37 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

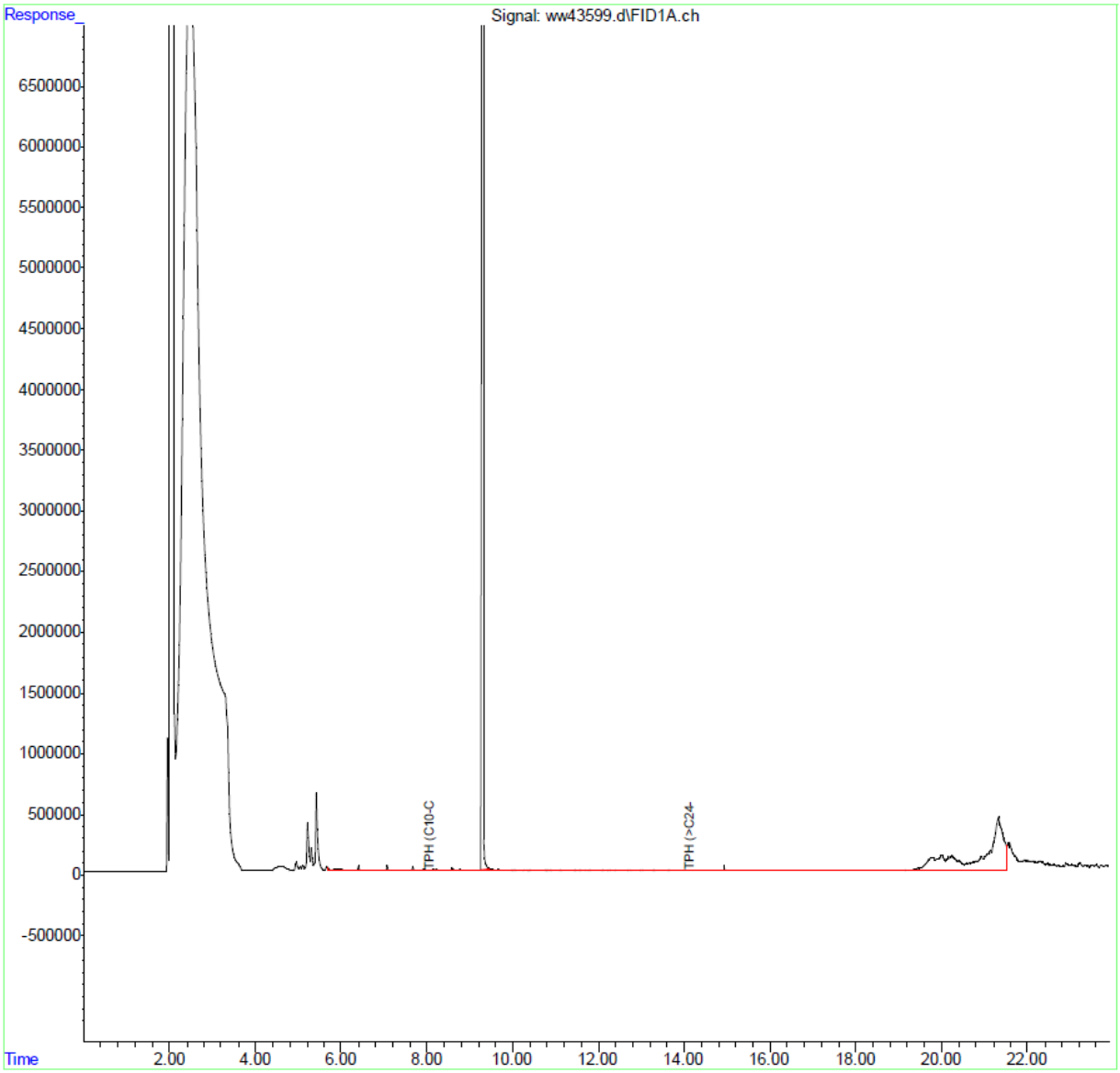


Location: **RHMW14-03** Sample ID: RHMW14-03-WGN01G-2310WK4-DF Sample Date: 10/24/2023

Lab: SGS

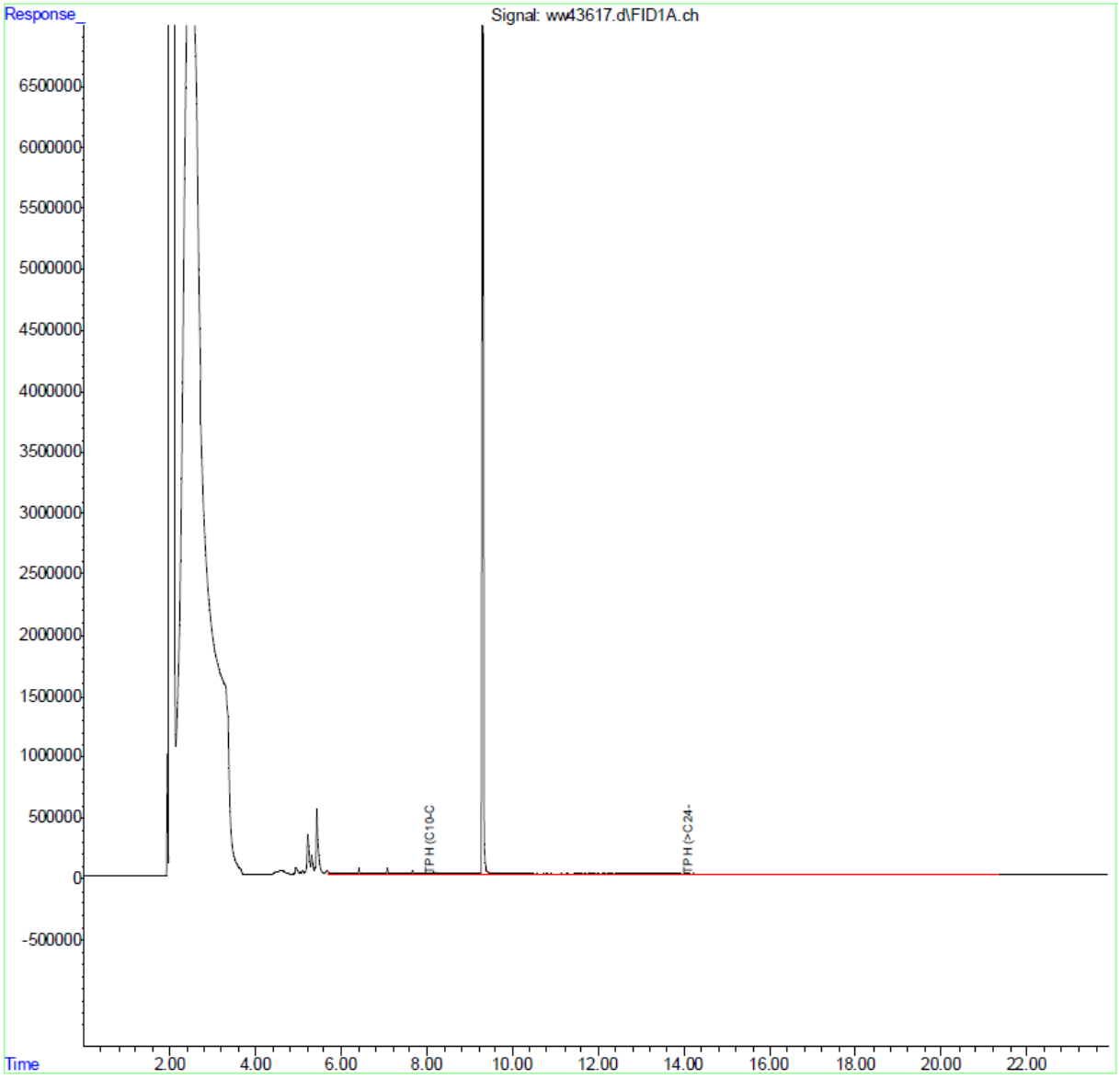
Results (ug/L): **TPH-d (C10 to C24) <110 U** **TPH-o (C24 to C40) 190 J**

```
Quant Time: Oct 27 10:04:48 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) <110 U** **TPH-o SGC (C24 to C40) <170 U**

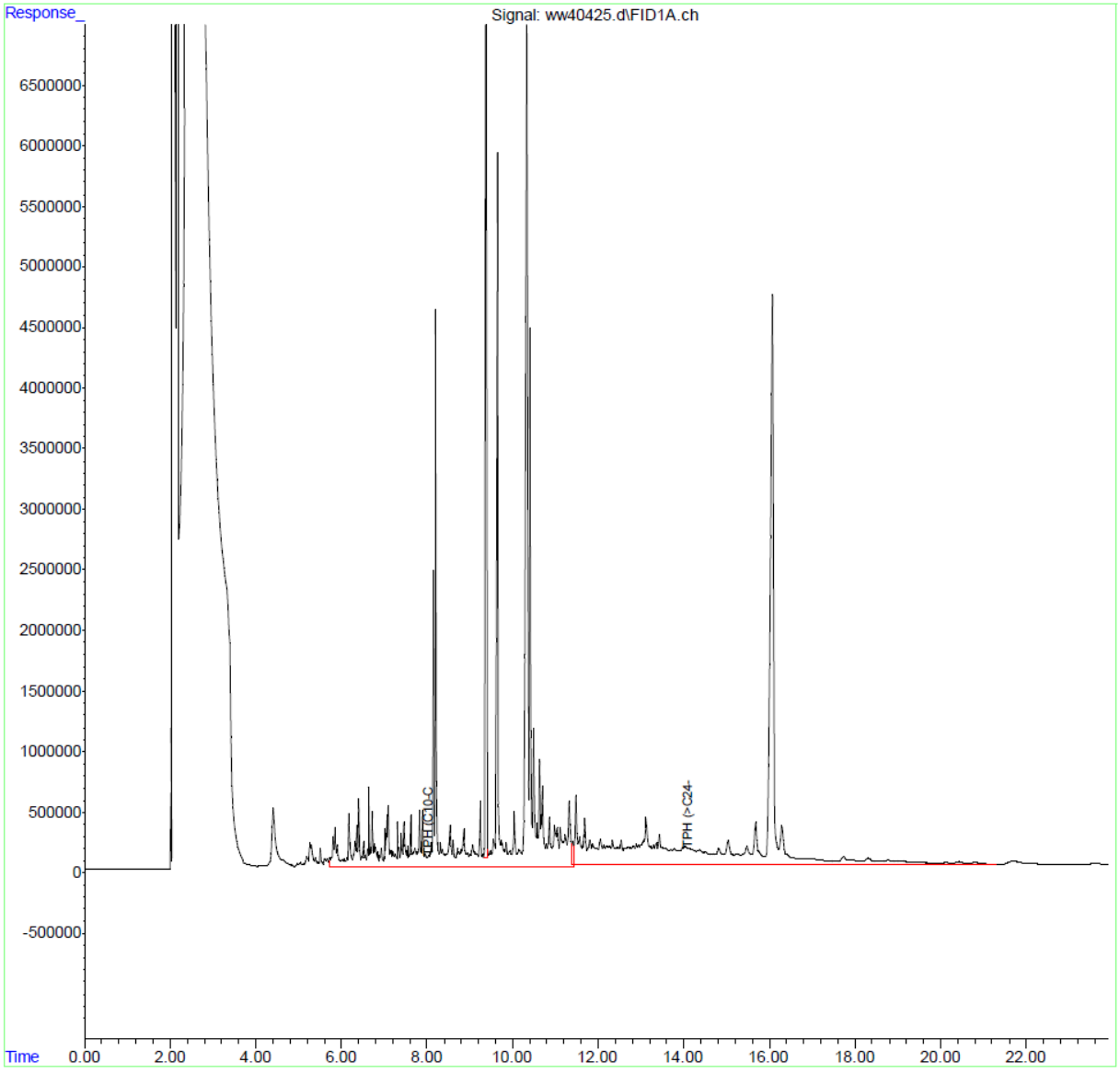
```
Quant Time: Oct 27 15:04:56 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Location: **RHMW17** Sample ID: RHMW17-WGN01LF-2306WK2 Sample Date: 6/15/2023
Lab: SGS

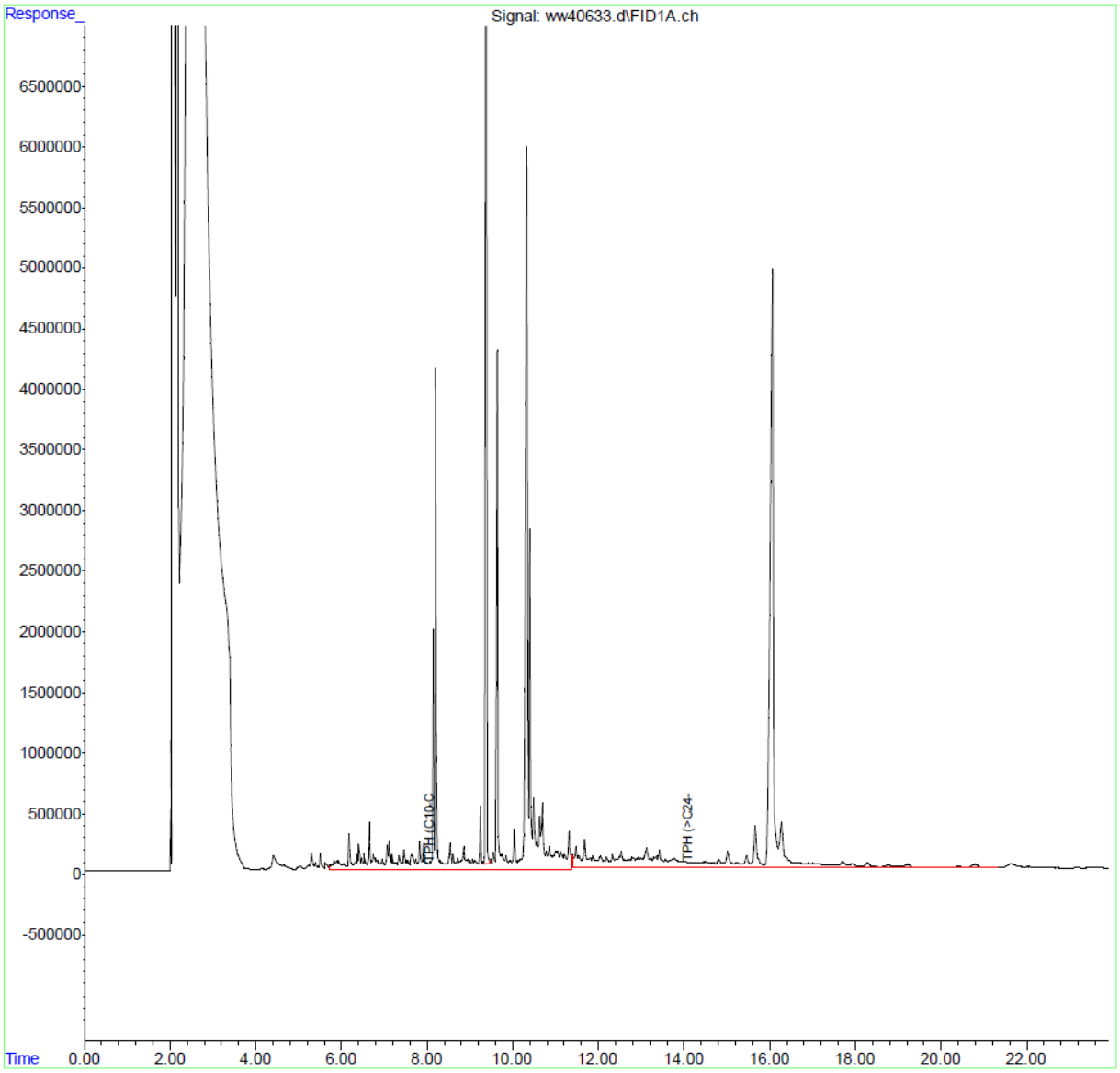
Results (ug/L): **TPH-d (C10 to C24) 884** **TPH-o (C24 to C40) 687**

```
Quant Time: Jul 19 16:20:20 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_080922_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Wed Aug 10 09:31:47 2022
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 575** **TPH-o SGC (C24 to C40) 487**

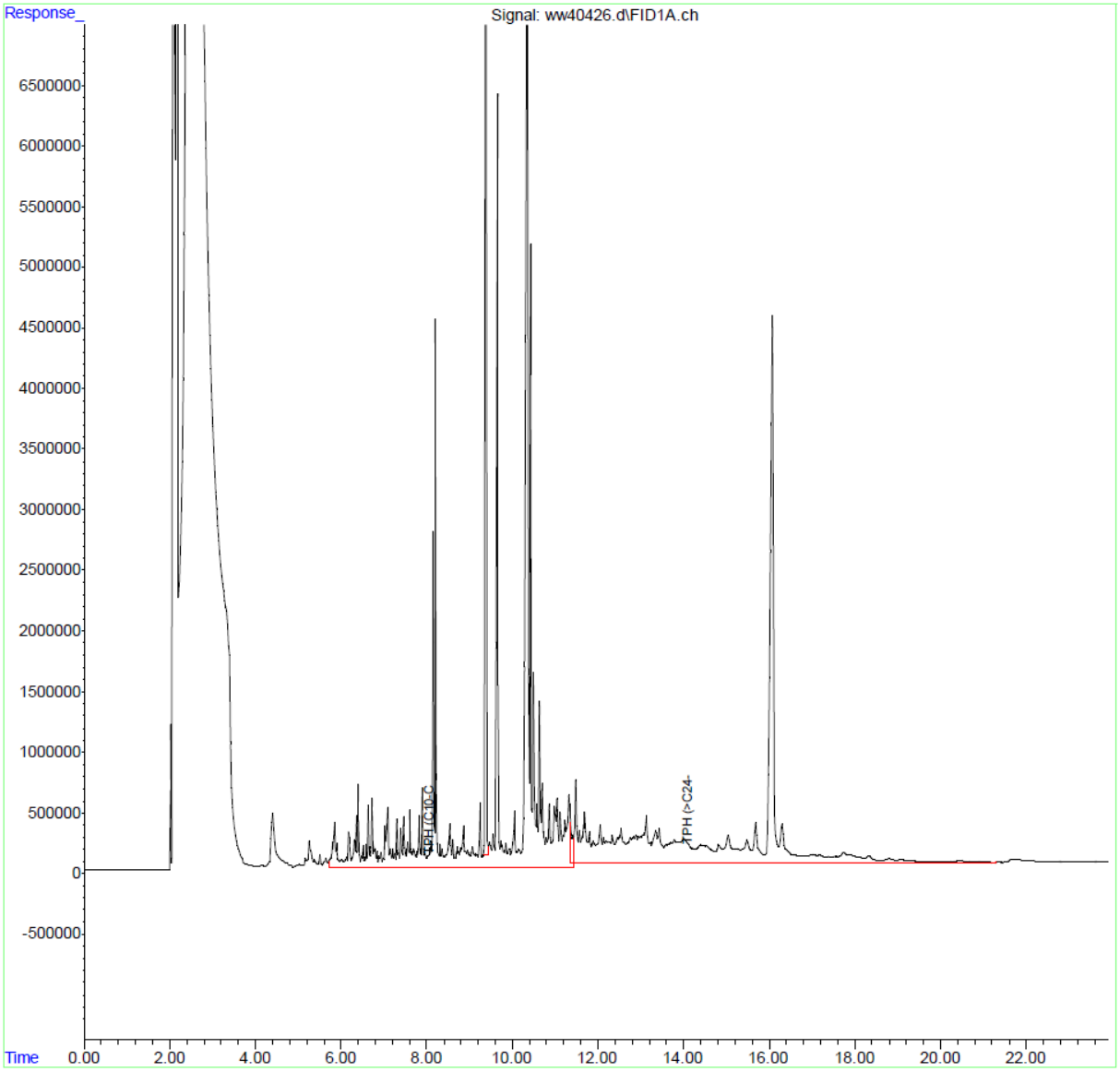
```
Quant Time: Sep 12 19:41:59 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_080922_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Wed Aug 10 09:31:47 2022
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Location: **RHMW17** Sample ID: RHMW17-WGFD01LF-2306WK2 Sample Date: 6/15/2023
Lab: SGS

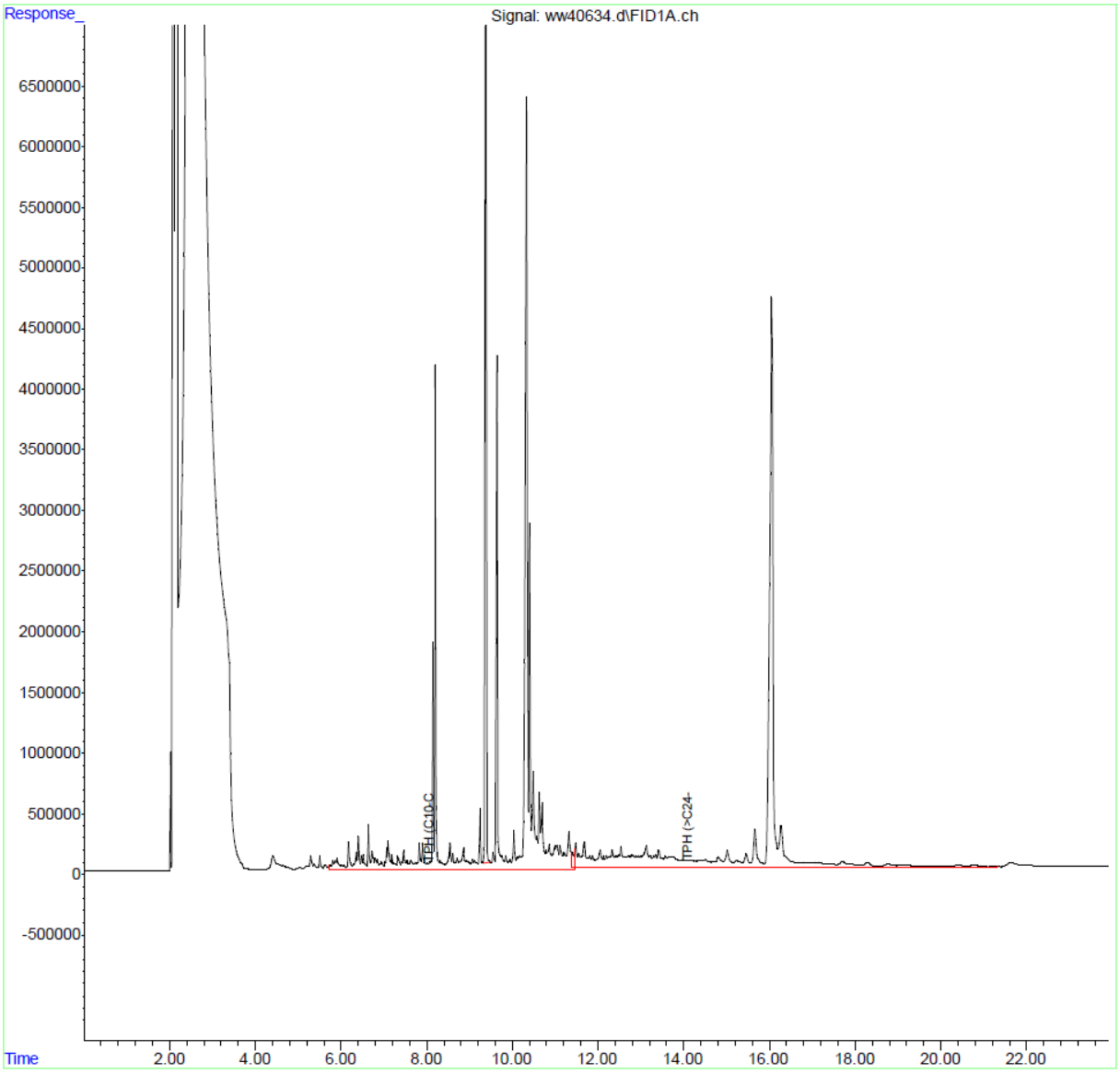
Results (ug/L): **TPH-d (C10 to C24) 1040** **TPH-o (C24 to C40) 791**

```
Quant Time: Jul 19 16:21:28 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_080922_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Wed Aug 10 09:31:47 2022
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 611** **TPH-o SGC (C24 to C40) 498**

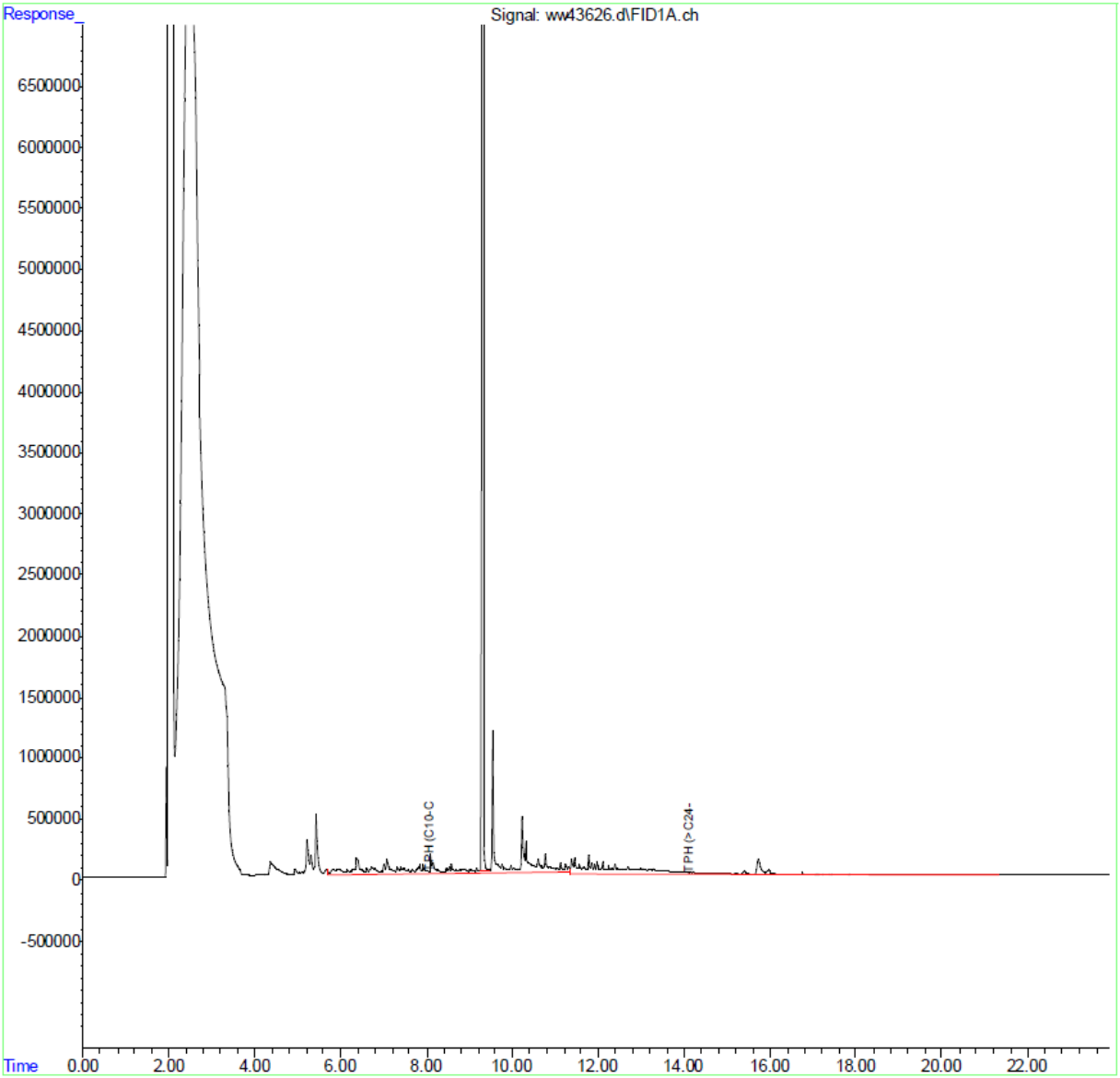
```
Quant Time: Sep 12 19:42:58 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_080922_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Wed Aug 10 09:31:47 2022
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Location: **RHMW17** Sample ID: RHMW17-WGN01LF-2310WK4-DF Sample Date: 10/25/2023
Lab: SGS

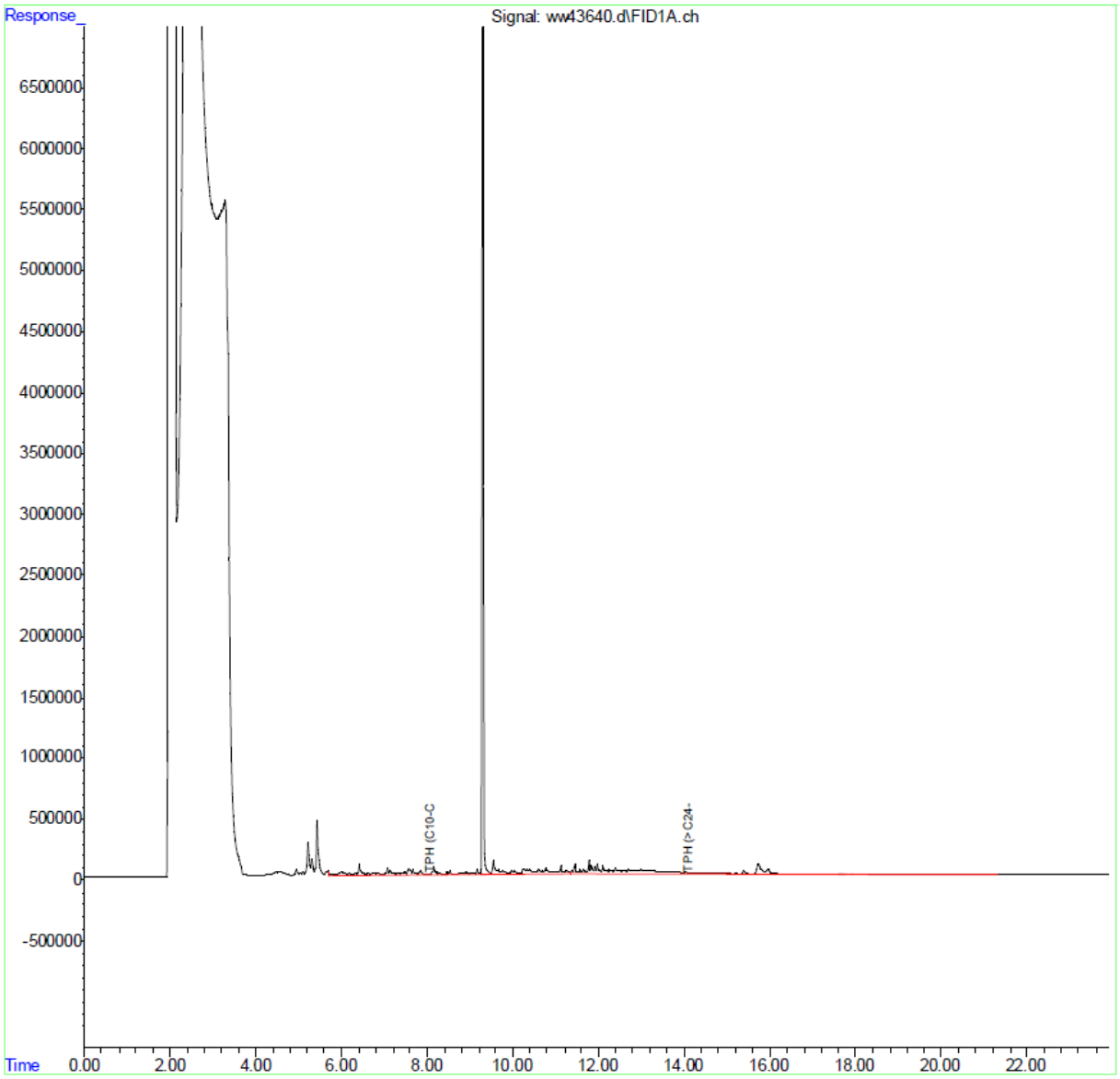
Results (ug/L): **TPH-d (C10 to C24) 128 J** **TPH-o (C24 to C40) 110 J**

```
Quant Time: Oct 28 10:35:03 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) <110 U** **TPH-o SGC (C24 to C40) <170 U**

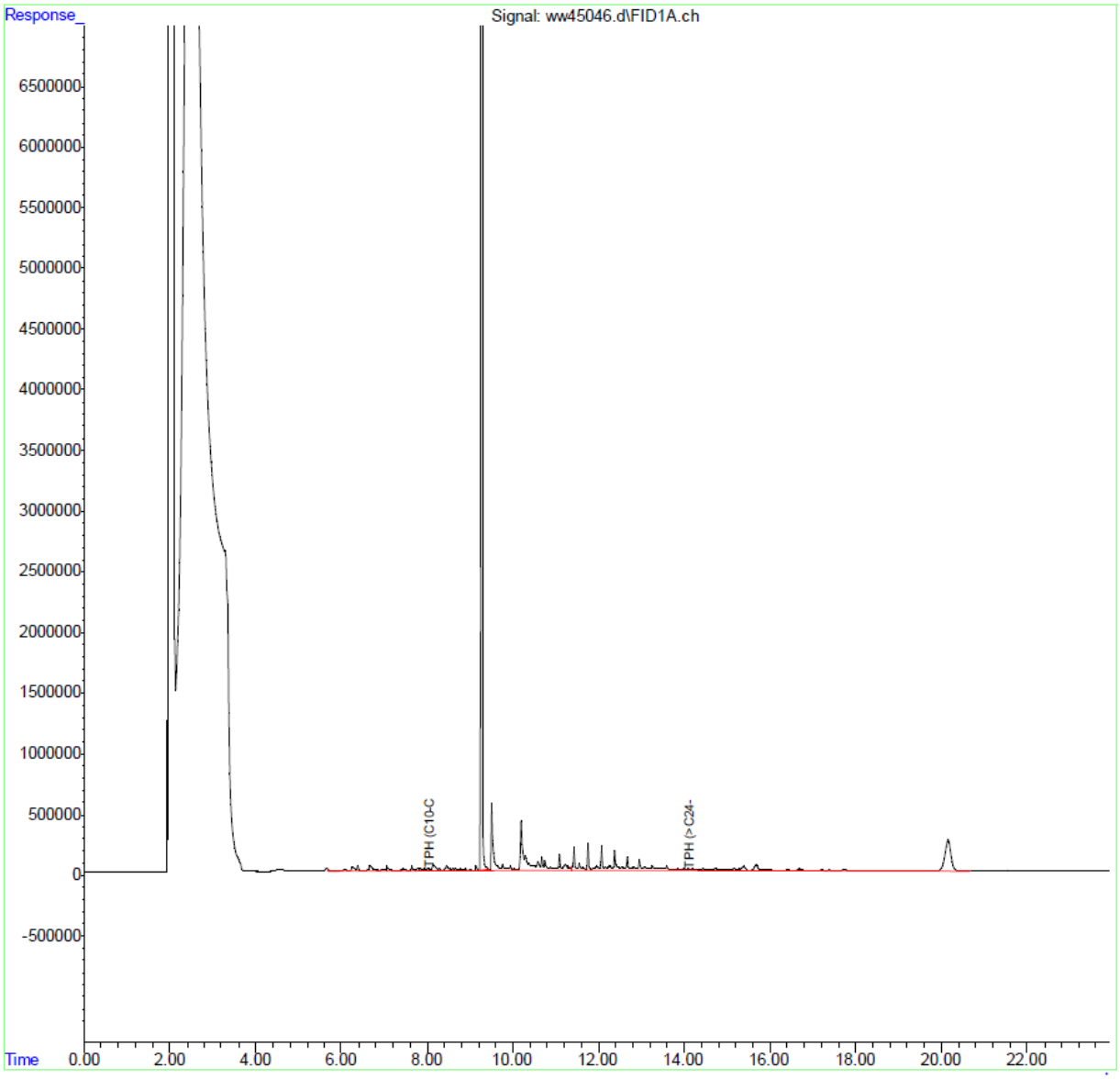
```
Quant Time: Oct 30 10:08:38 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Location: **RHMW17** Sample ID: RHMW17-WGN01LF-2401-DF Sample Date: 1/3/2024
Lab: SGS

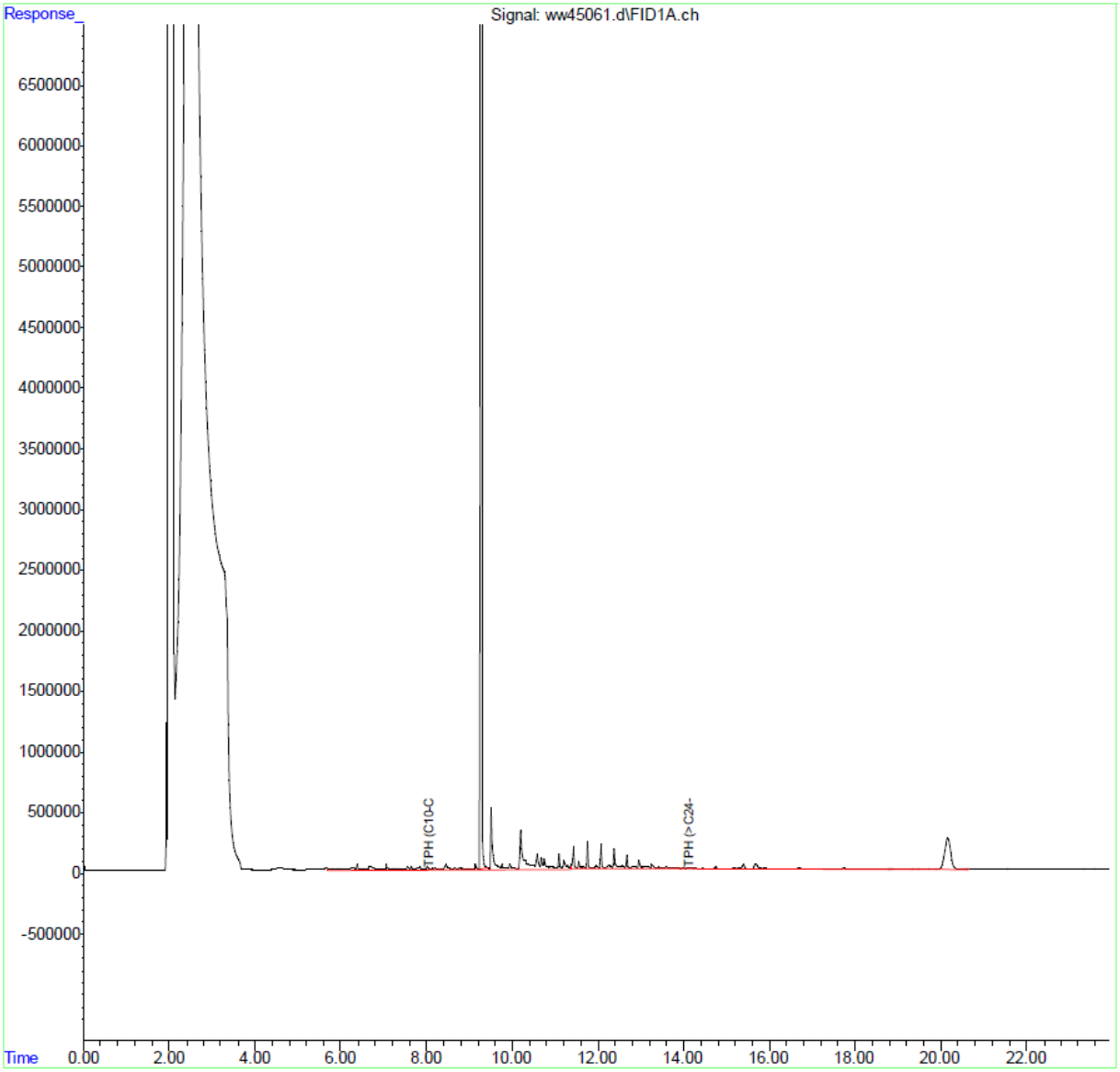
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) 89.9 J**

```
Quant Time: Jan 06 10:42:48 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) <100 U** **TPH-o SGC (C24 to C40) 80.3 J**

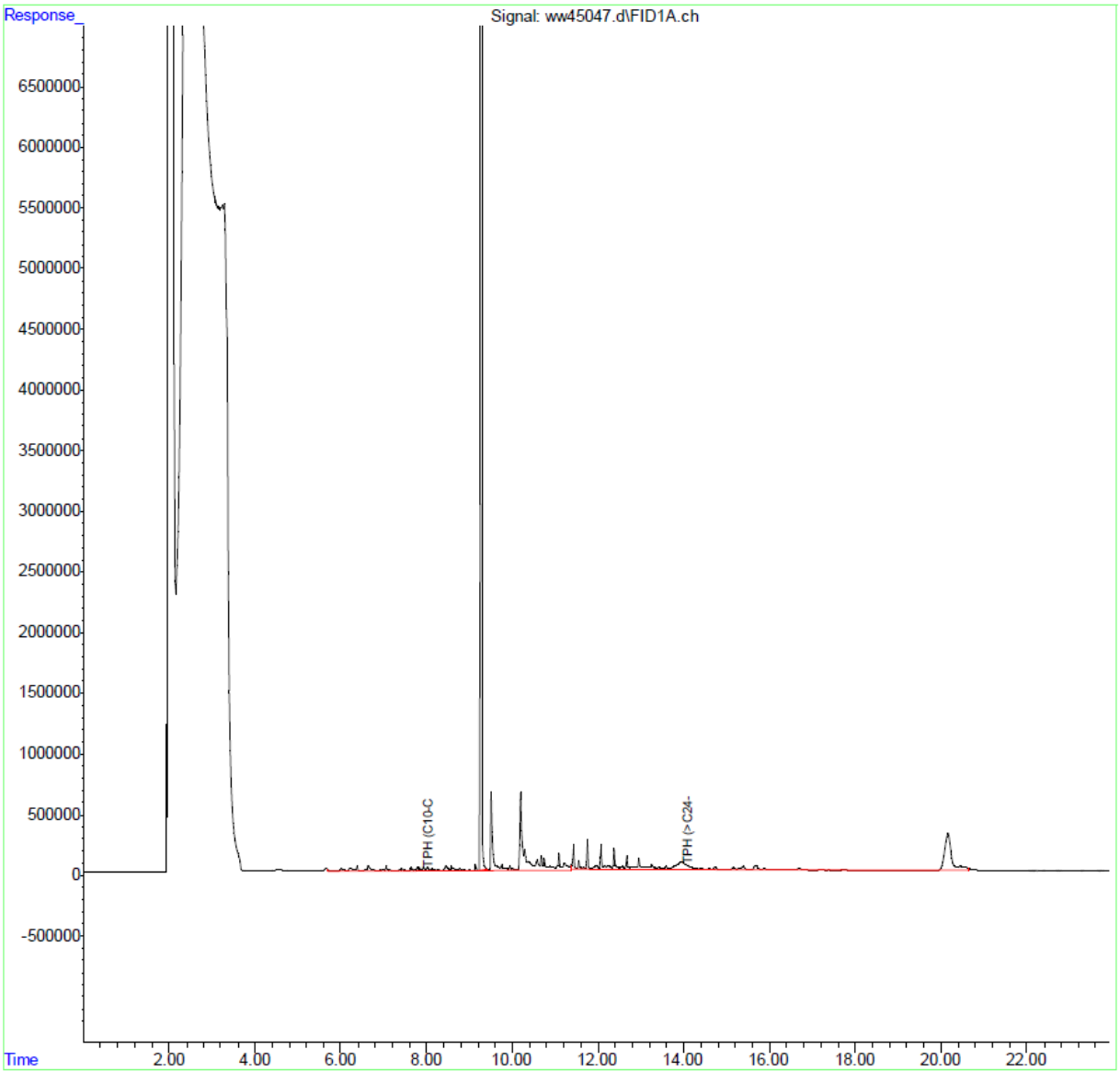
```
Quant Time: Jan 06 16:12:05 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Location: **RHMW17** Sample ID: RHMW17-WGFD01LF-2401-DF Sample Date: 1/3/2024
Lab: SGS

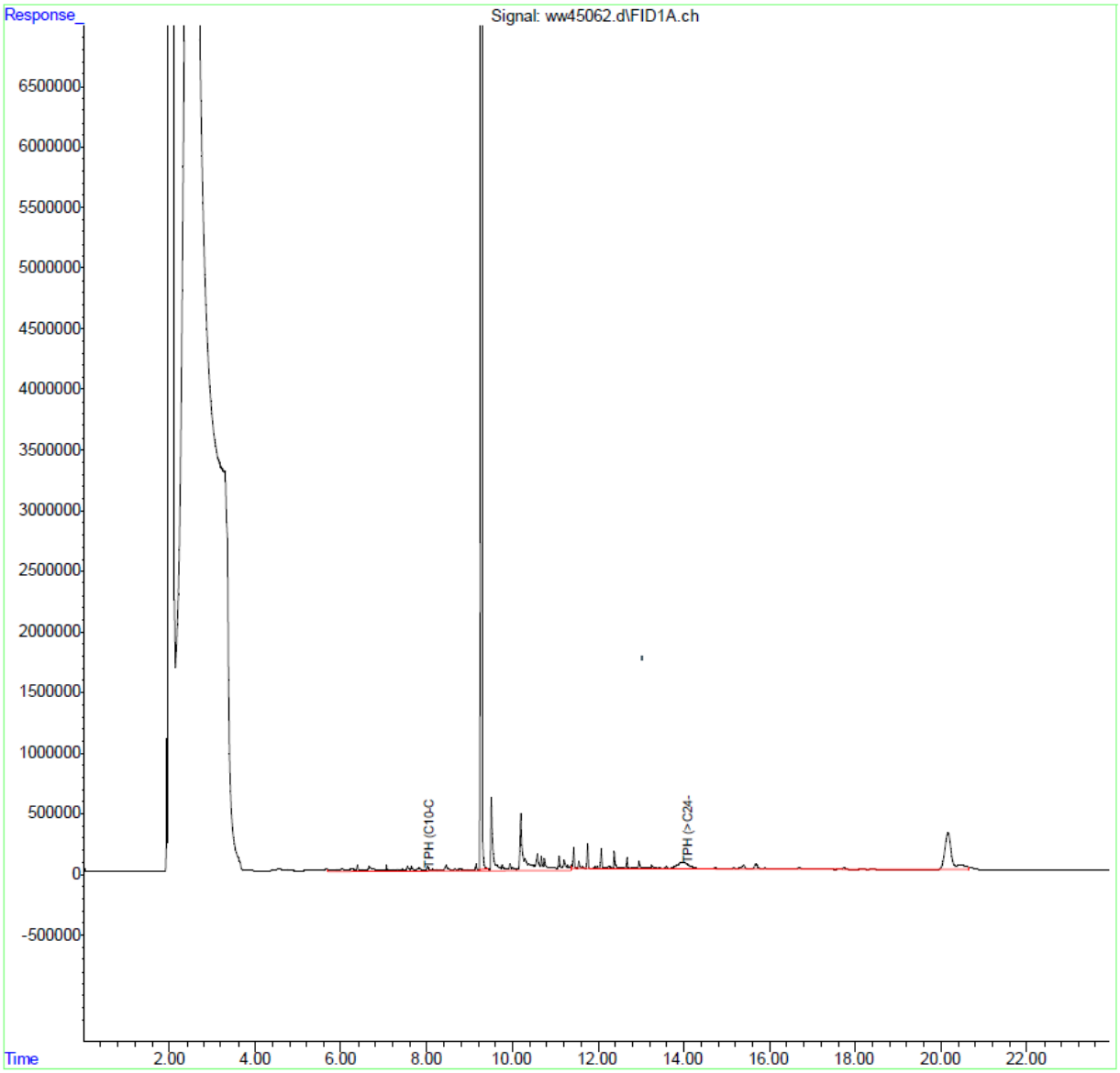
Results (ug/L): **TPH-d (C10 to C24) 85.7 J** **TPH-o (C24 to C40) 124 J**

```
Quant Time: Jan 06 10:42:50 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) <100 U** **TPH-o SGC (C24 to C40) 107 J**

```
Quant Time: Jan 06 16:12:07 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

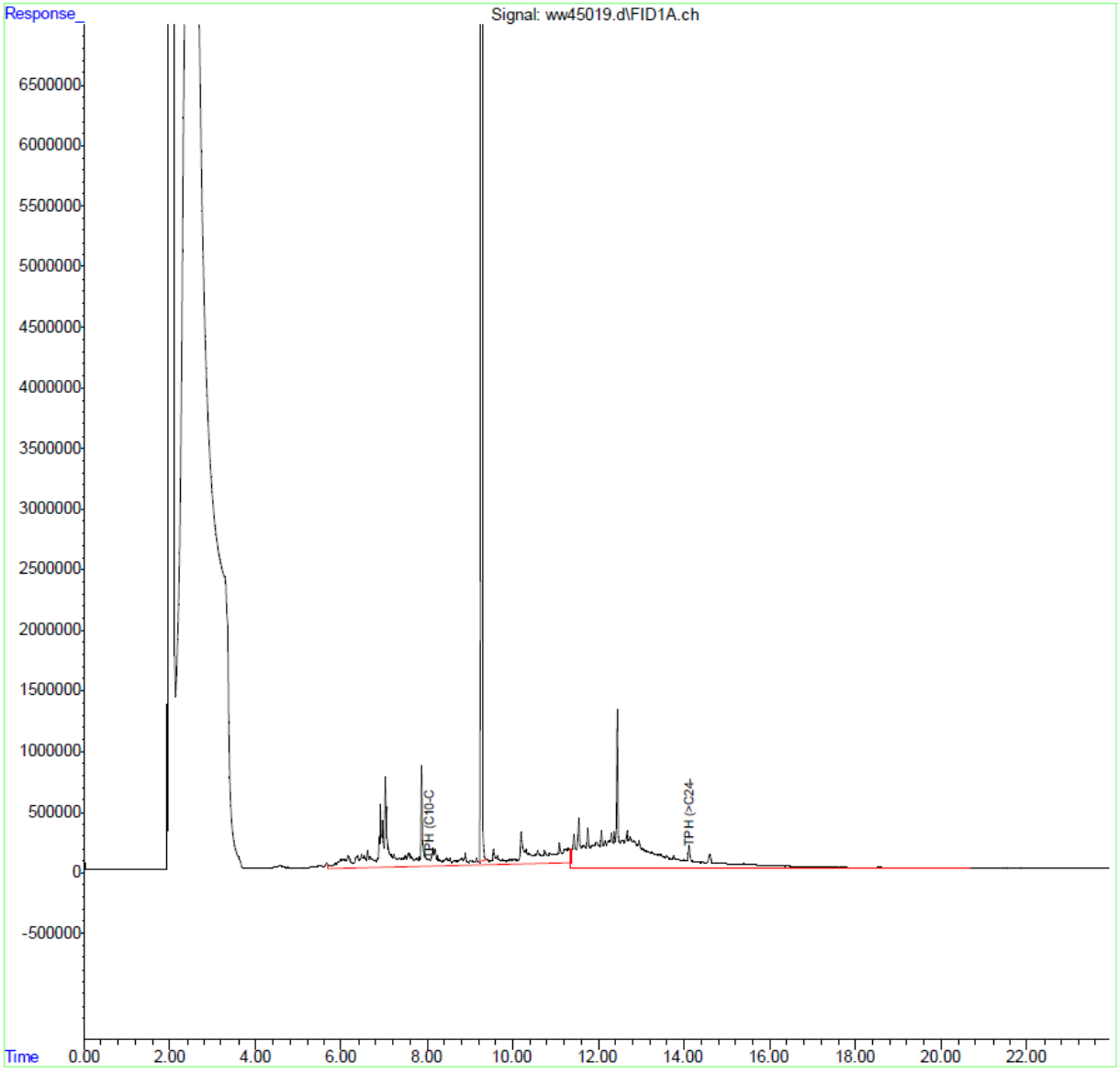


Location: **RHMW18** Sample ID: RHMW18-WGN01LF-2312-DF Sample Date: 12/31/2023

Lab: SGS

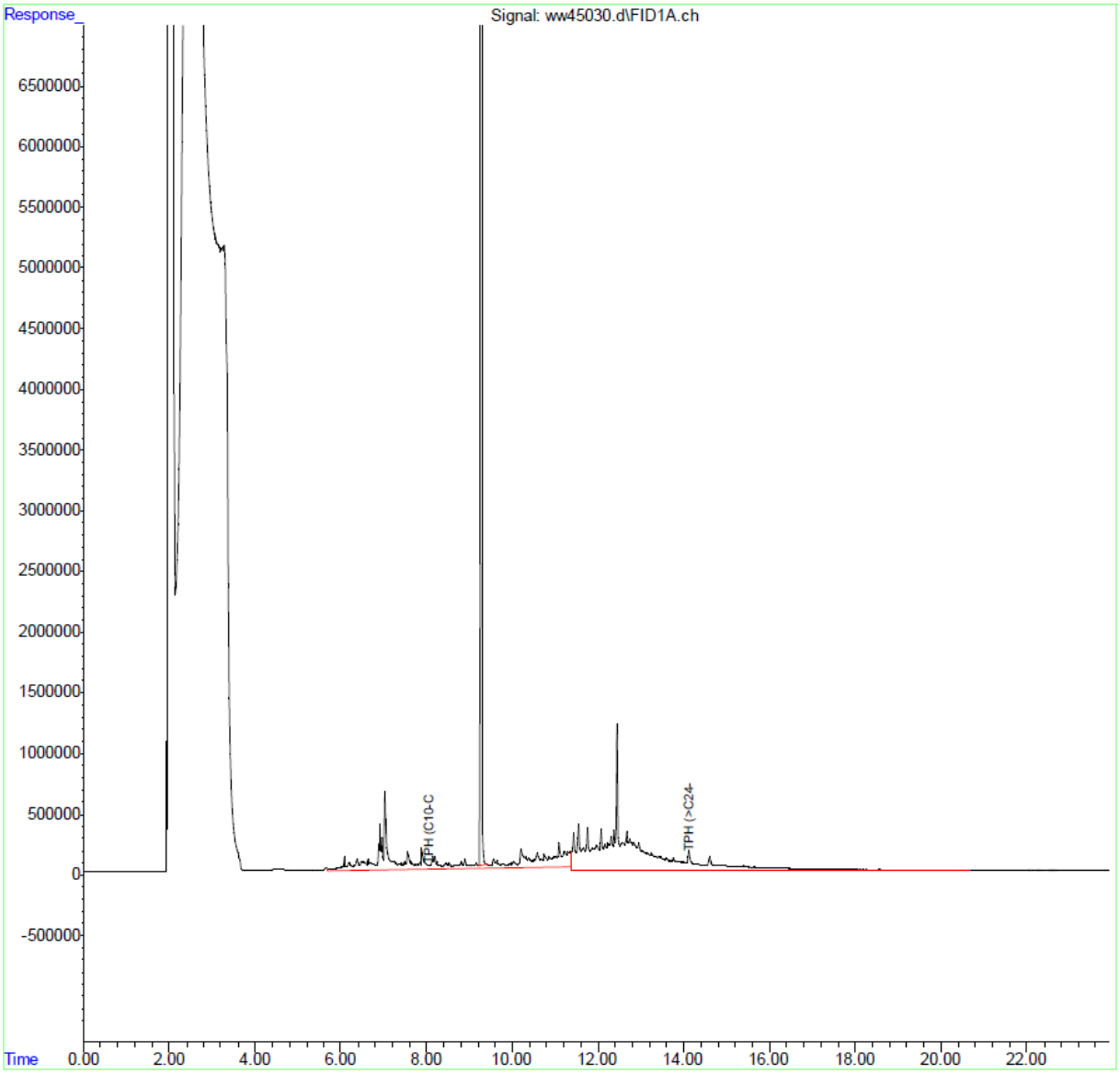
Results (ug/L): **TPH-d (C10 to C24) 199 J** **TPH-o (C24 to C40) 410**

```
Quant Time: Jan 05 09:43:06 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 160 J** **TPH-o SGC (C24 to C40) 404**

```
Quant Time: Jan 05 13:23:28 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

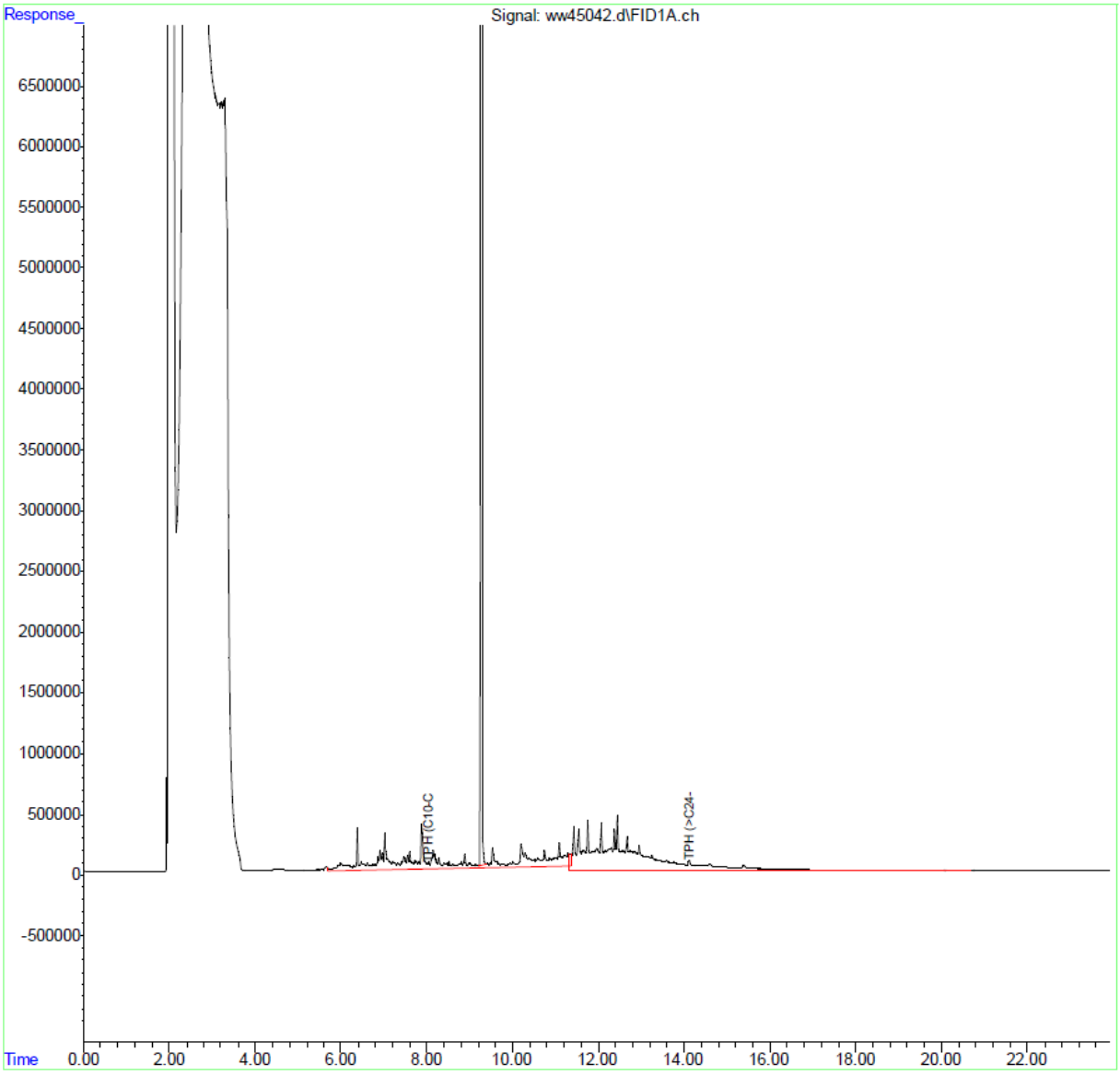


Location: **RHMW18** Sample ID: RHMW18-WGN01LF-2401-DF Sample Date: 1/3/2024

Lab: SGS

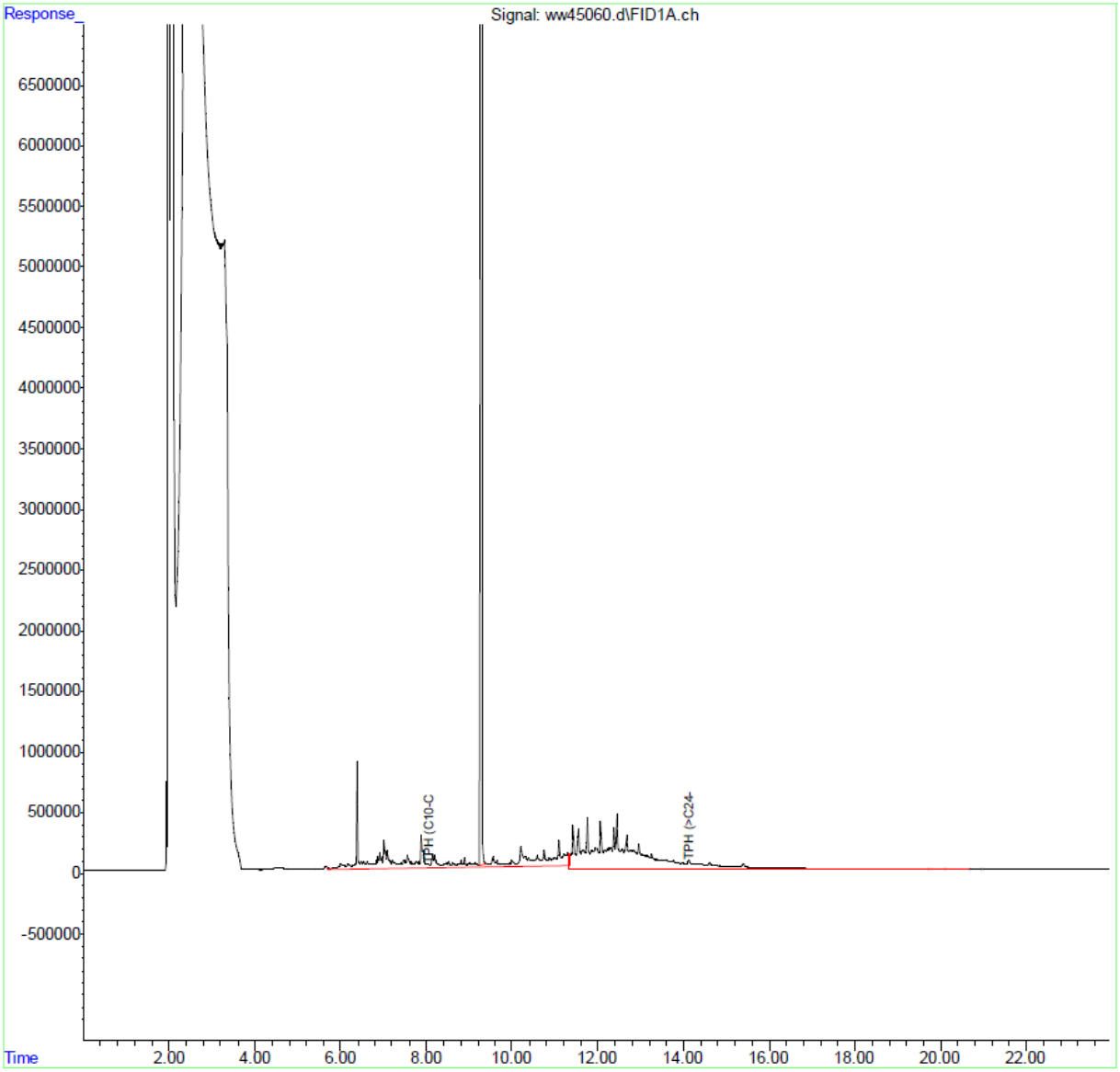
Results (ug/L): **TPH-d (C10 to C24) 154 J** **TPH-o (C24 to C40) 324**

```
Quant Time: Jan 06 11:15:20 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 137 J** **TPH-o SGC (C24 to C40) 304**

```
Quant Time: Jan 06 16:23:27 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

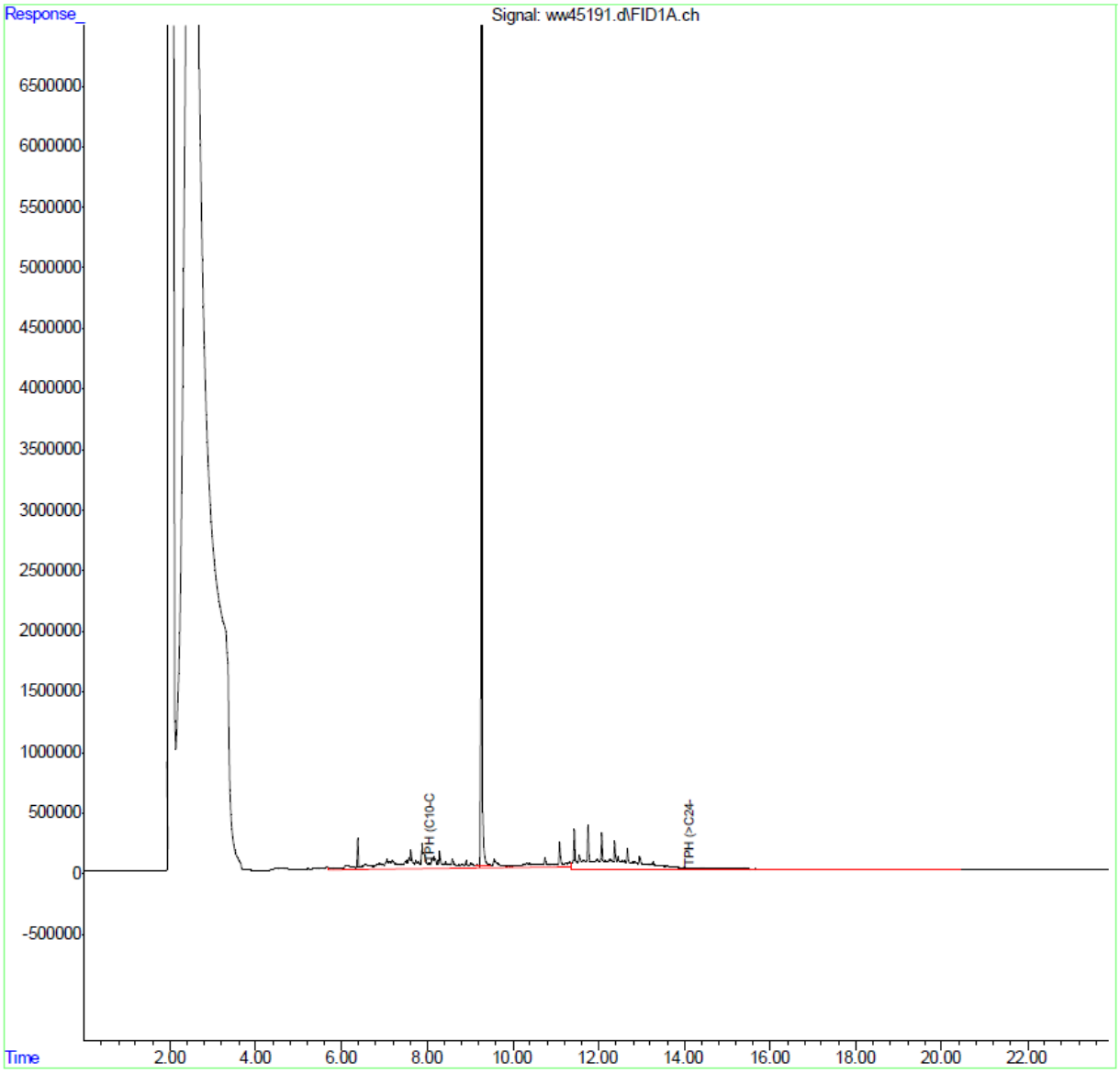


Location: **RHMW18** Sample ID: RHMW18-WGN01LF-2401WK2-DF Sample Date: 1/10/2024

Lab: SGS

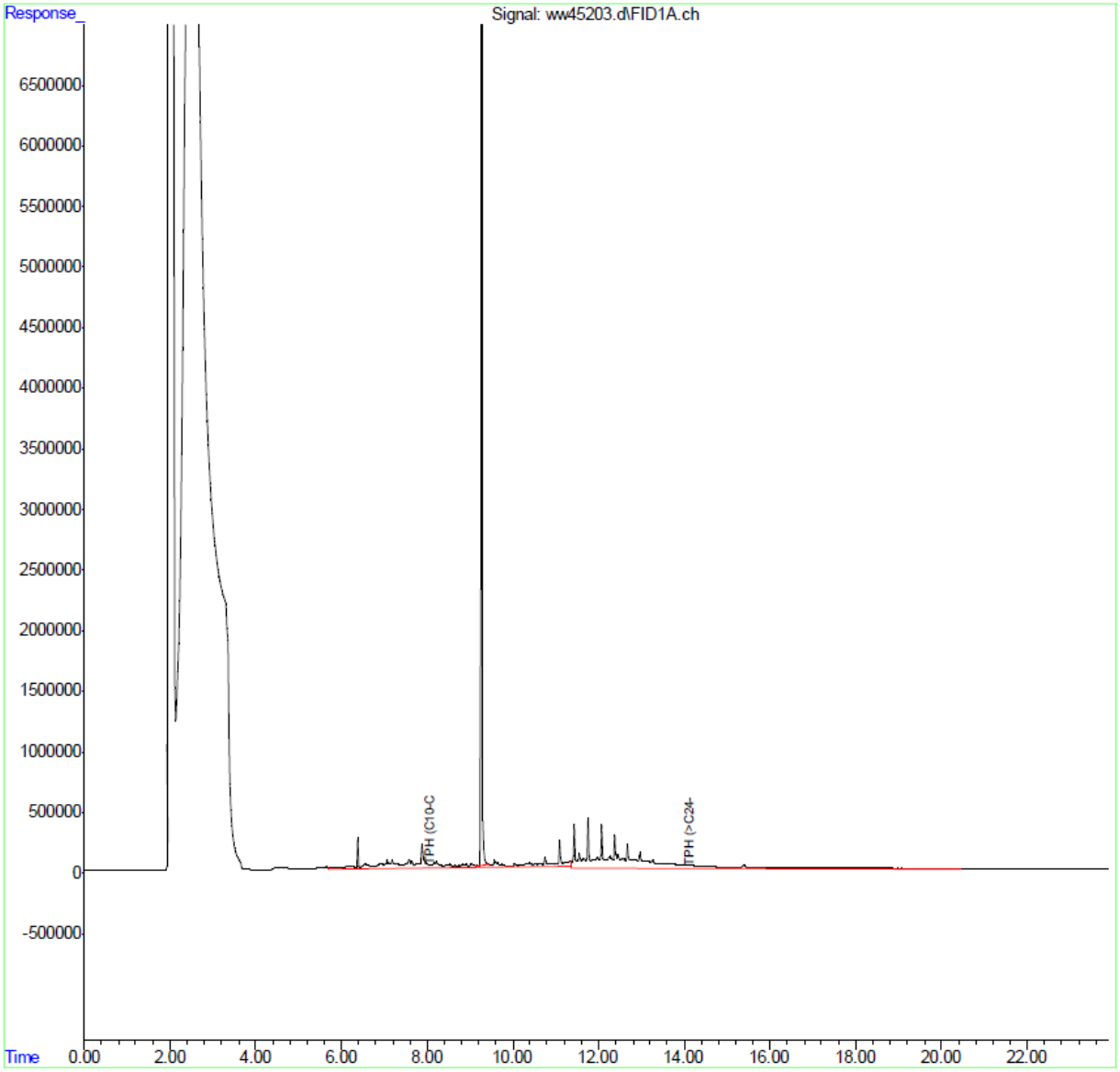
Results (ug/L): **TPH-d (C10 to C24) 91.1 J** **TPH-o (C24 to C40) 128 J**

```
Quant Time: Jan 12 16:41:20 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) <100 U** **TPH-o SGC (C24 to C40) 146 J**

```
Quant Time: Jan 13 09:58:35 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

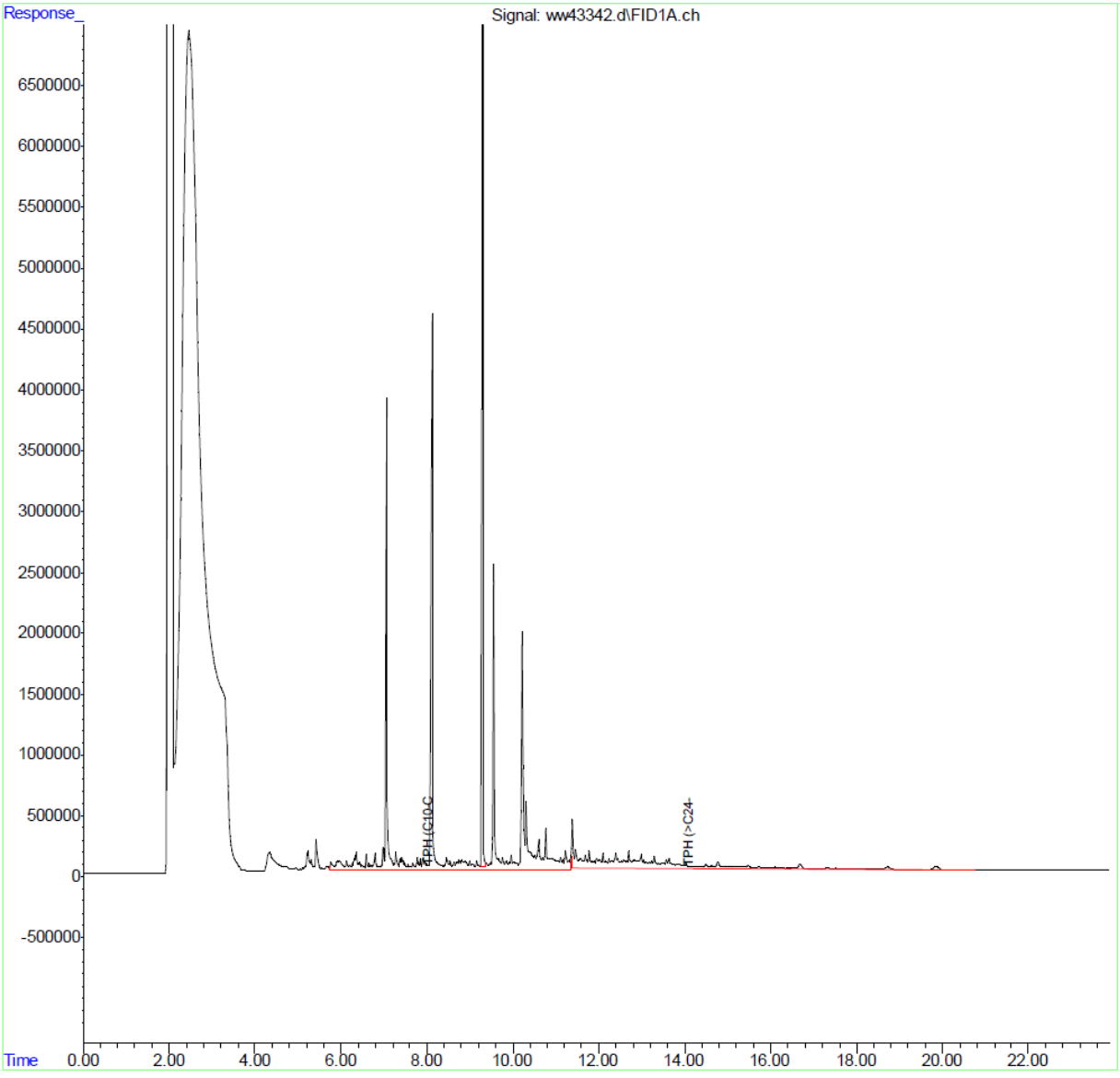


Location: **RHMW19** Sample ID: RHMW19-WGN01LF-2310 Sample Date: 10/5/2023

Lab: SGS

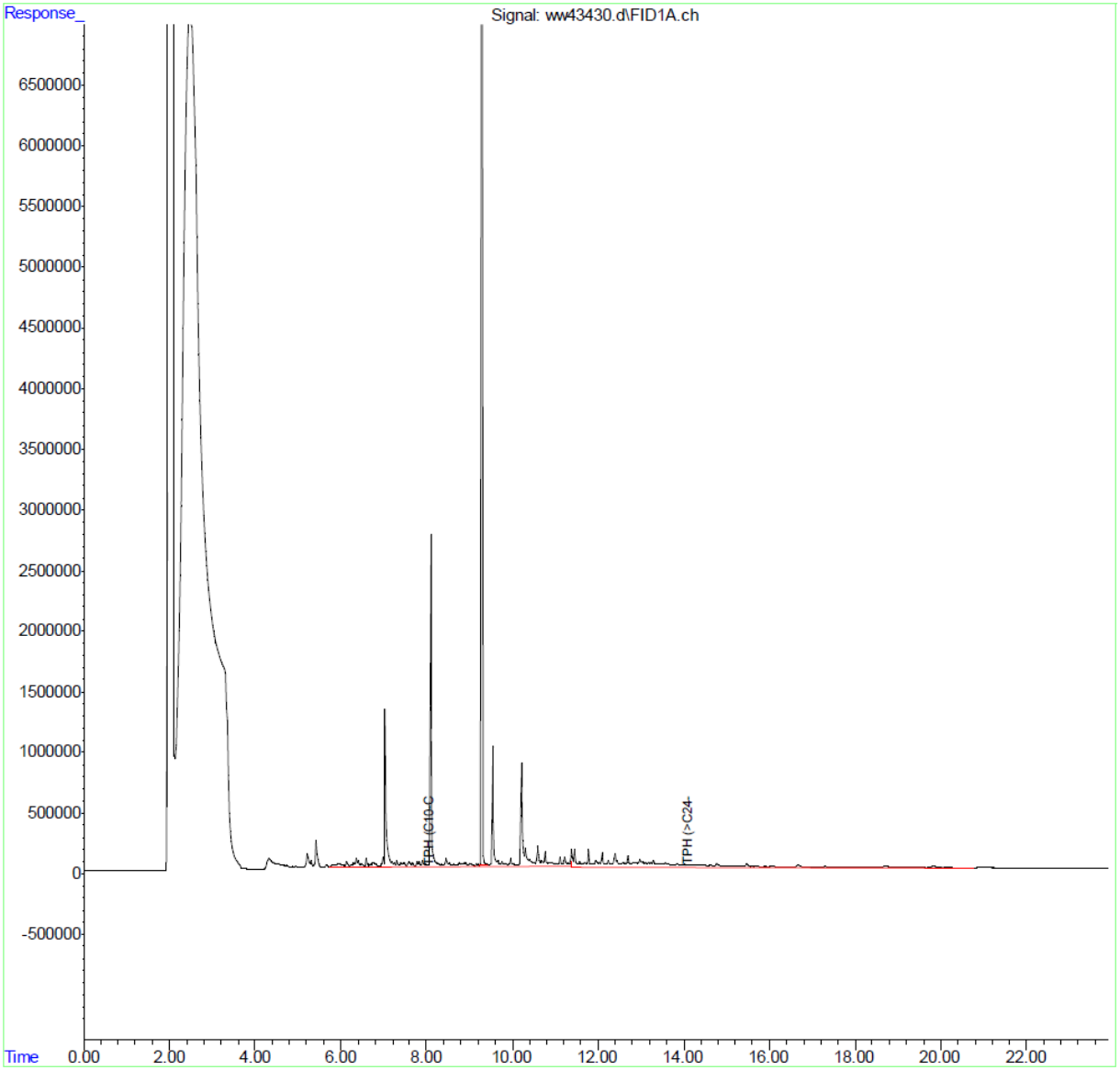
Results (ug/L): **TPH-d (C10 to C24) 343** **TPH-o (C24 to C40) 163 J**

```
Quant Time: Oct 16 11:43:37 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 141 J** **TPH-o SGC (C24 to C40) 86.5 J**

```
Quant Time: Oct 17 14:22:31 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

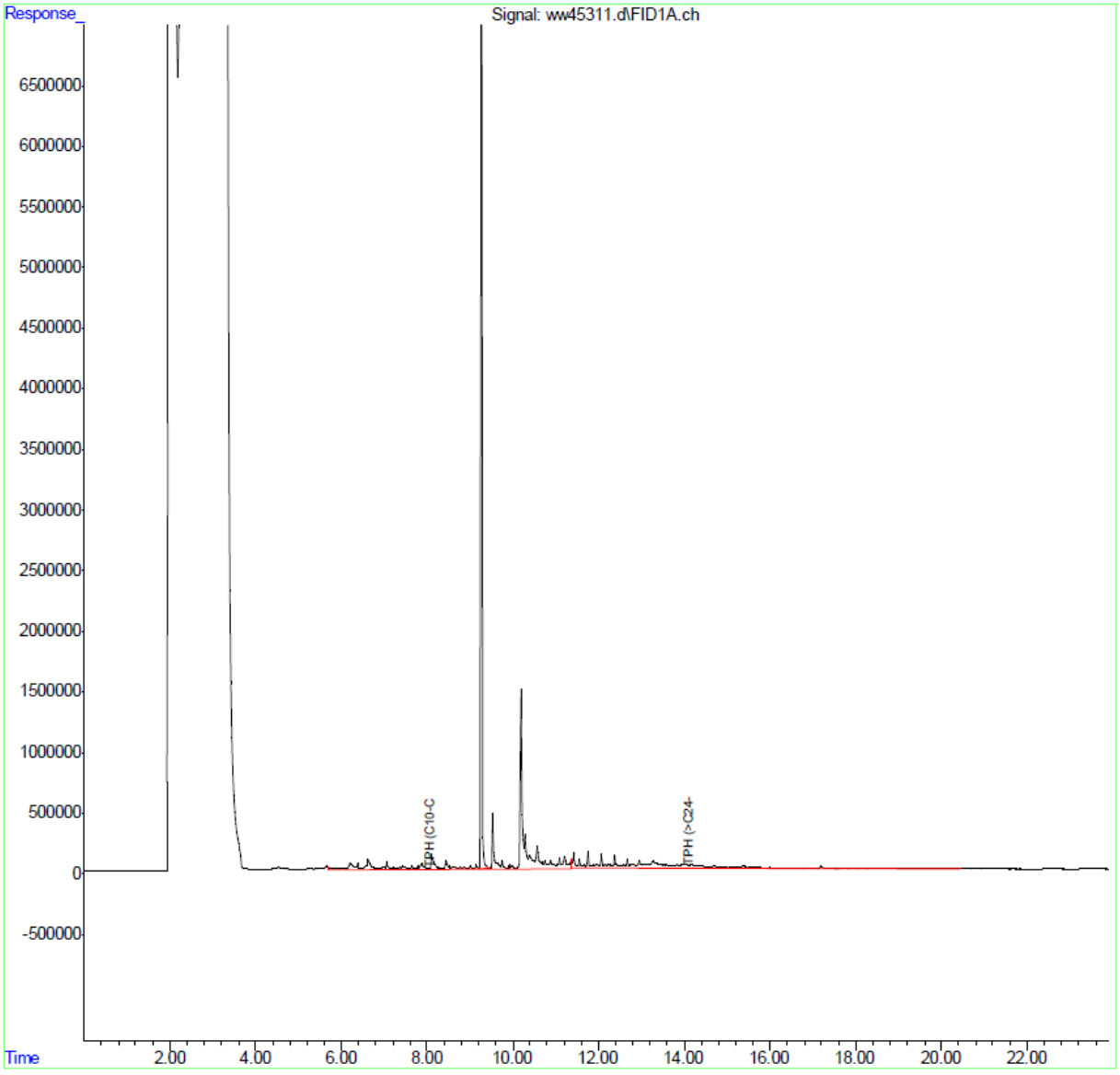


Location: **RHMW19** Sample ID: RHMW19-WGN01LF-2401WK3-DF Sample Date: 1/16/2024

Lab: SGS

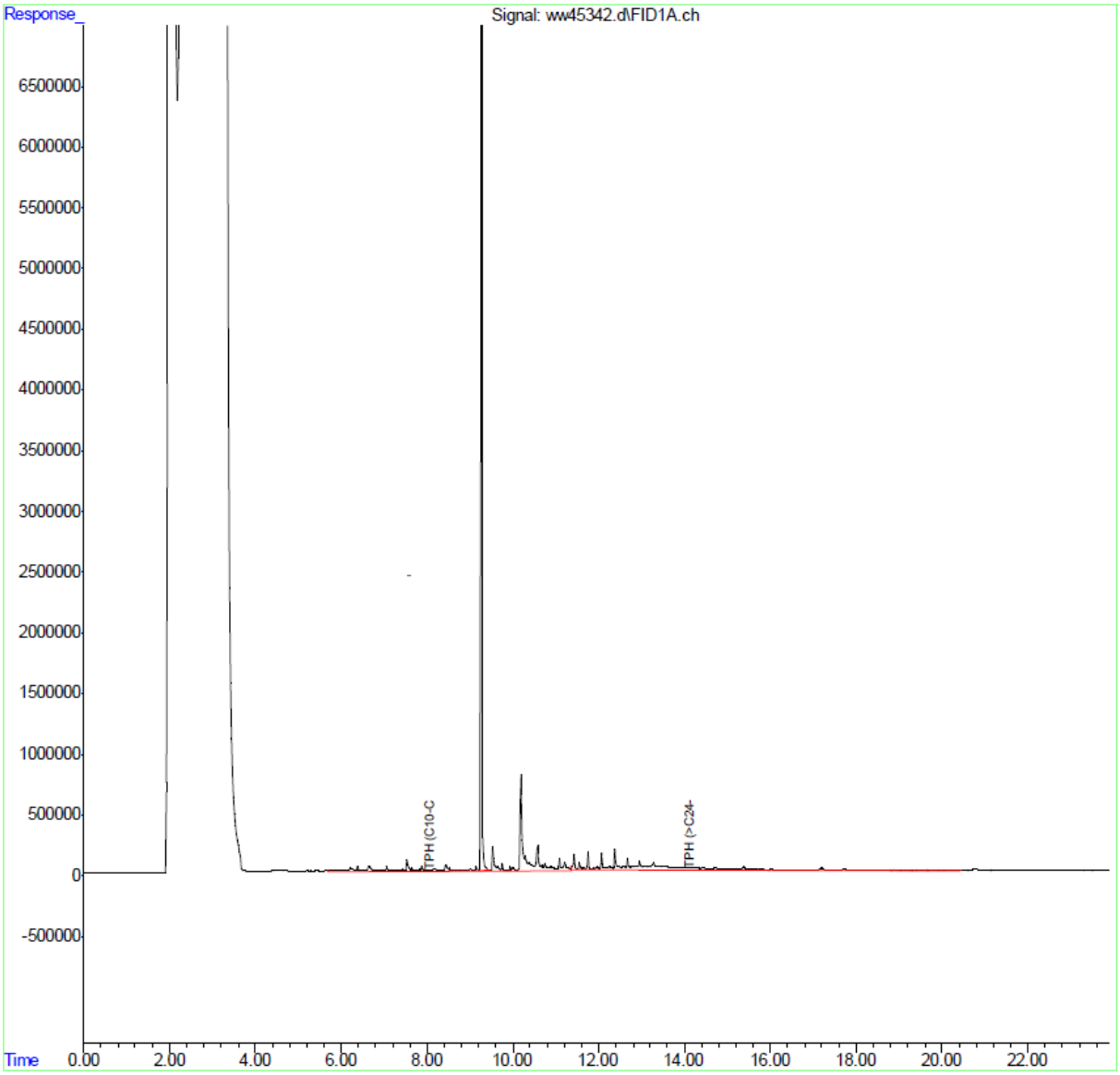
Results (ug/L): **TPH-d (C10 to C24) 111 J** **TPH-o (C24 to C40) <160 U**

```
Quant Time: Jan 19 09:09:03 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) <100 U** **TPH-o SGC (C24 to C40) <160 U**

```
Quant Time: Jan 19 14:06:10 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

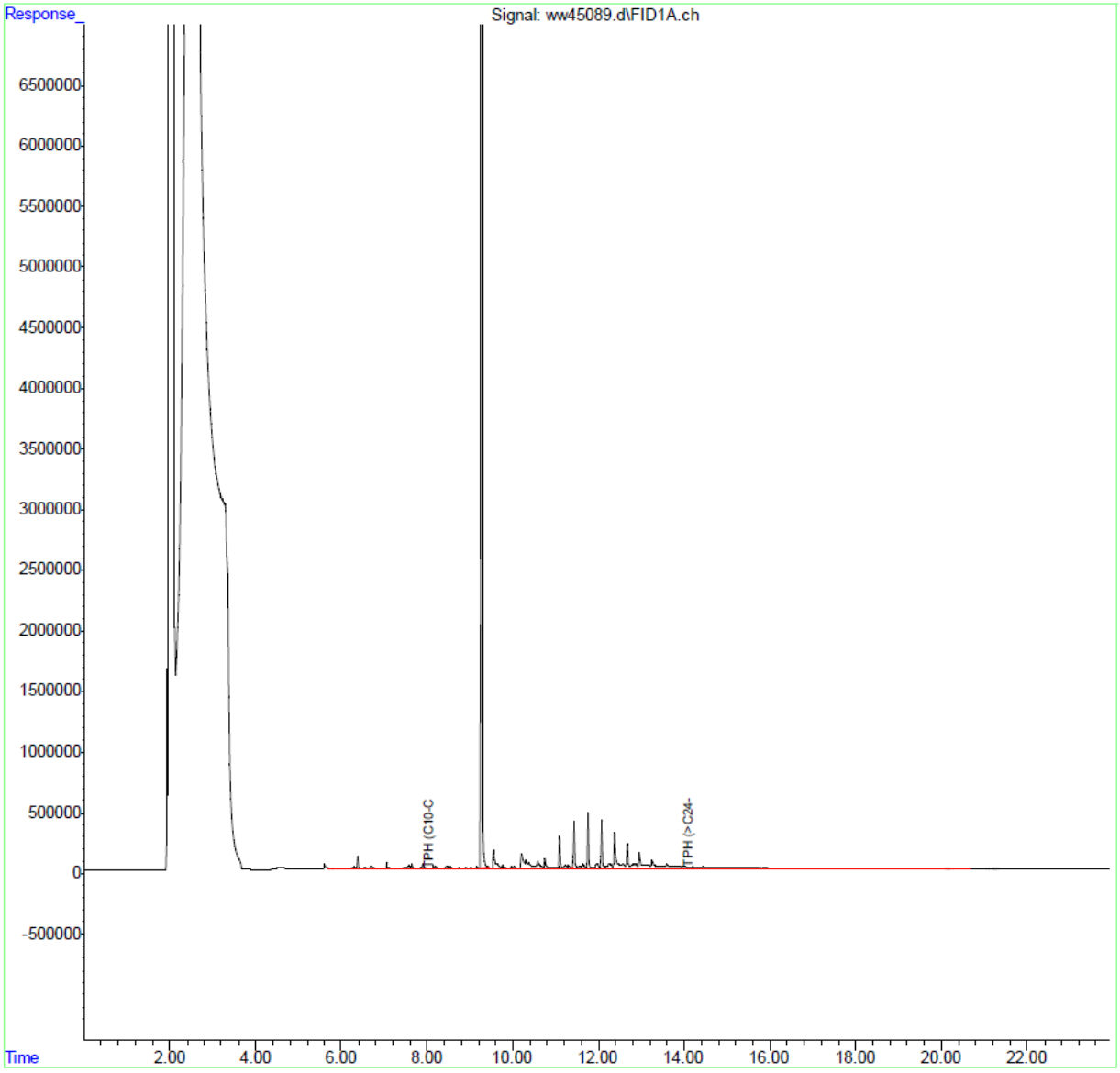


Location: **RHMW20** Sample ID: RHMW20-WGN01LF-2401-DF Sample Date: 1/3/2024

Lab: SGS

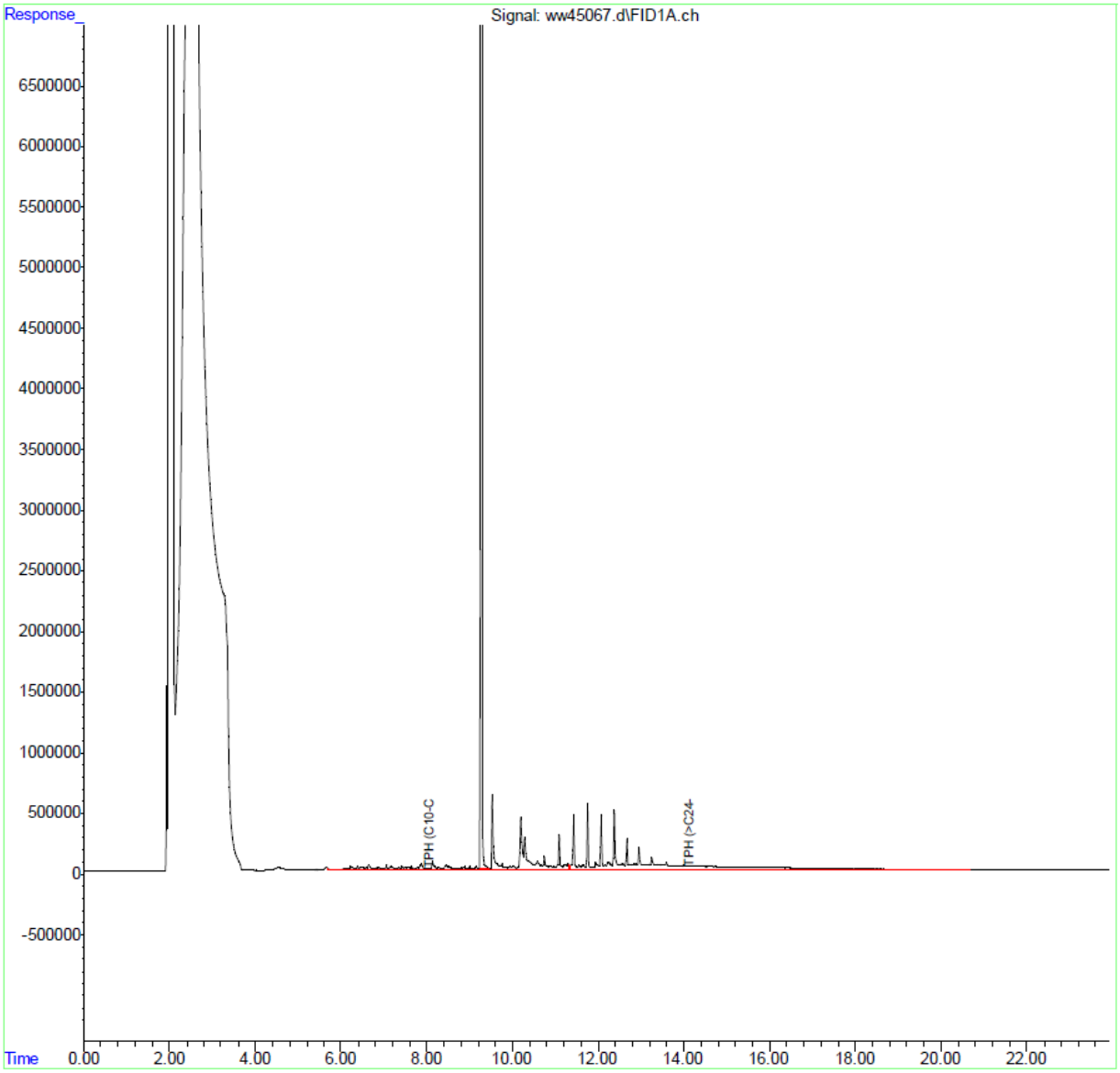
Results (ug/L): **TPH-d (C10 to C24) 93.3 J** **TPH-o (C24 to C40) 140 J**

```
Quant Time: Jan 07 13:26:31 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) <100 U** **TPH-o SGC (C24 to C40) 102 J**

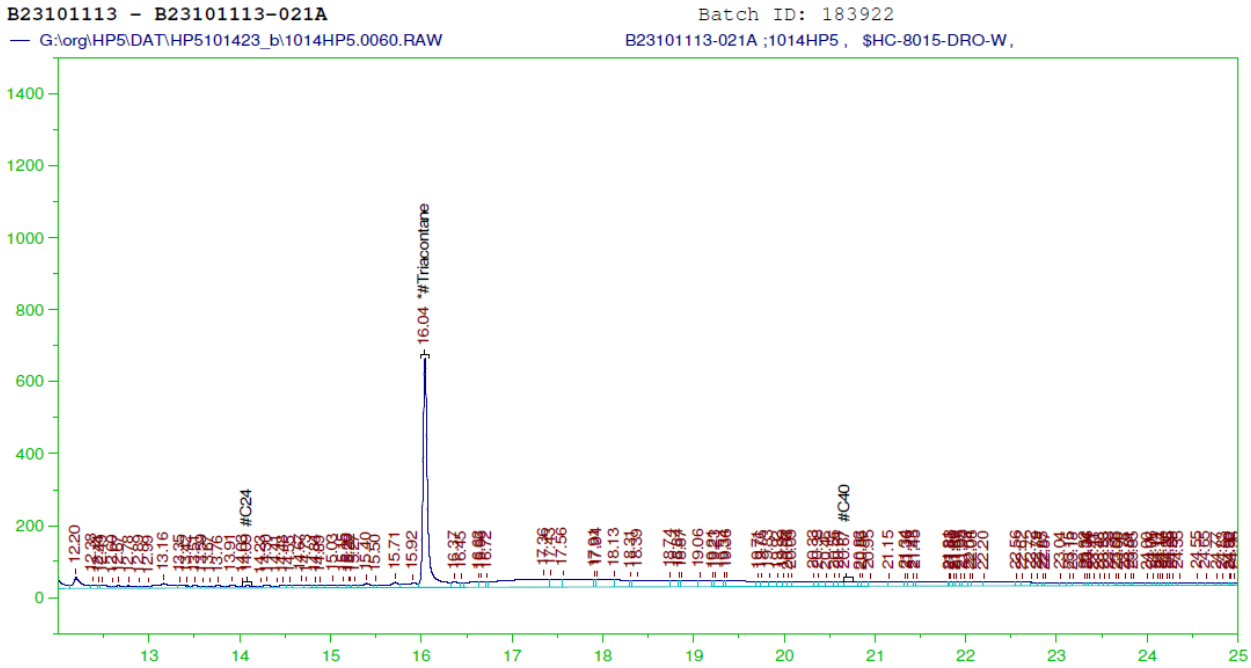
```
Quant Time: Jan 07 11:11:51 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



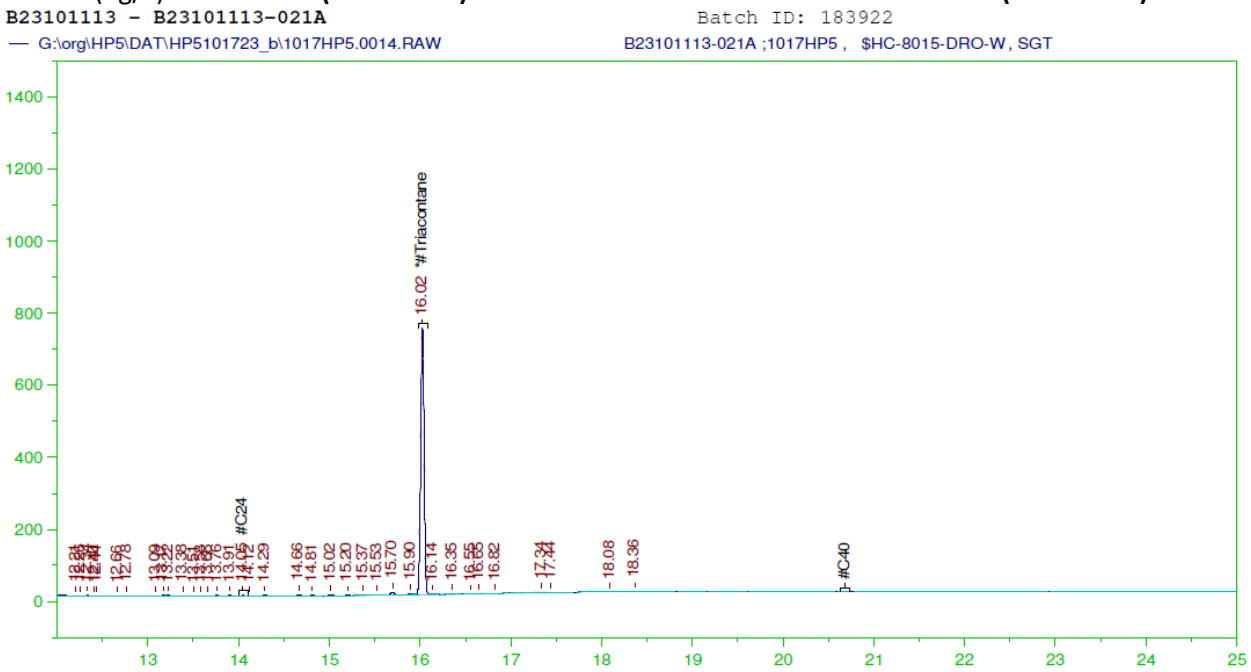
Location: **RHMW2254-01** Sample ID: RHMW2254-01-WGN01LF-23Q4 Sample Date: 10/12/2023

Lab: Energy

Results (ug/L): **TPH-d (C10 to C24) 128 J** **TPH-o (C24 to C40) 223 J**



Results (ug/L): **TPH-d SGC (C10 to C24) <141 U** **TPH-o SGC (C24 to C40) <141 U**

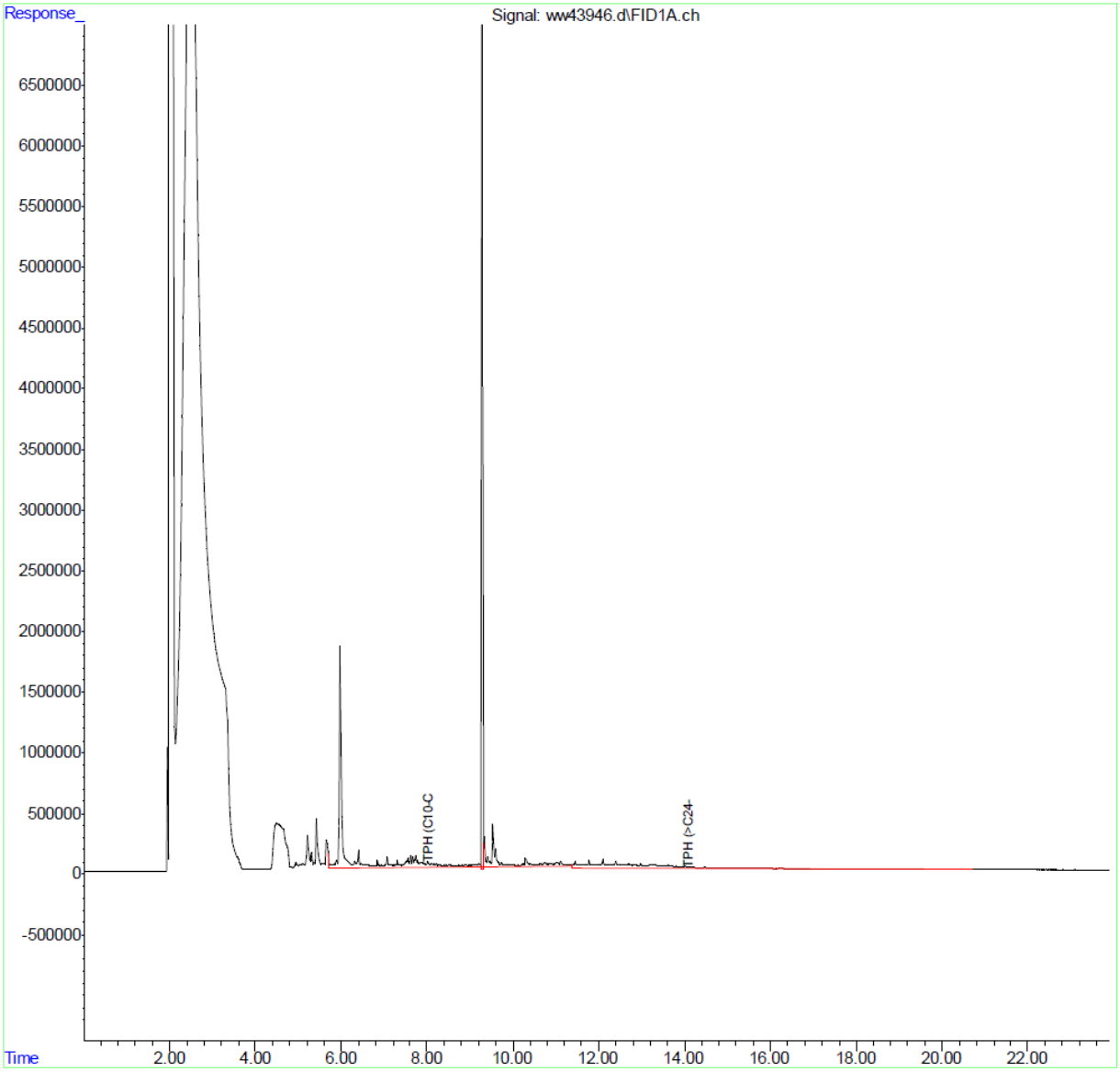


Location: **RHP02** Sample ID: RHP02-WGN01LF-2311-DF Sample Date: 11/8/2023

Lab: SGS

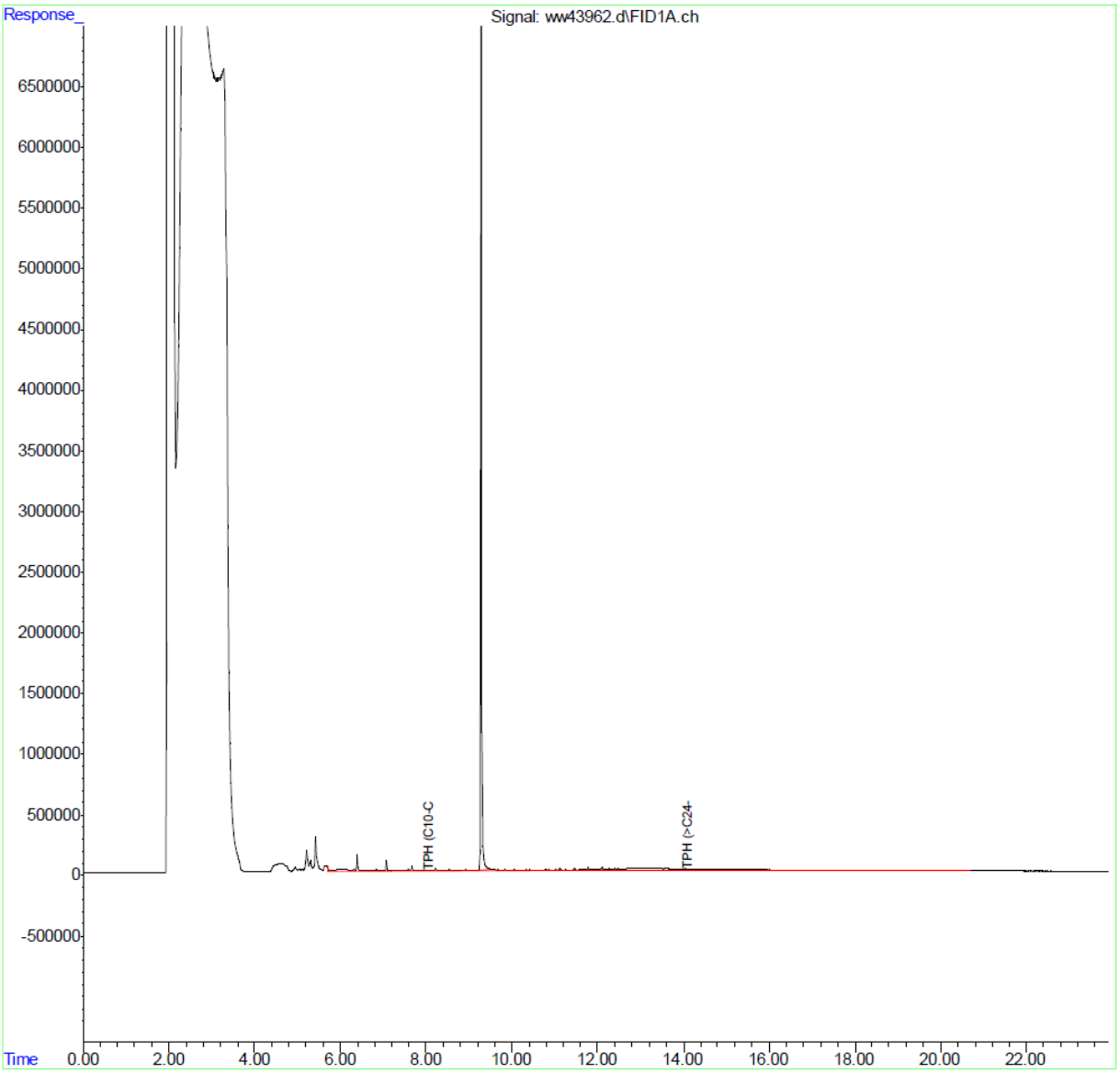
Results (ug/L): **TPH-d (C10 to C24) 121 J** **TPH-o (C24 to C40) <170 U**

```
Quant Time: Nov 11 11:04:37 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) <100 U** **TPH-o SGC (C24 to C40) <170 U**

```
Quant Time: Nov 11 15:14:50 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

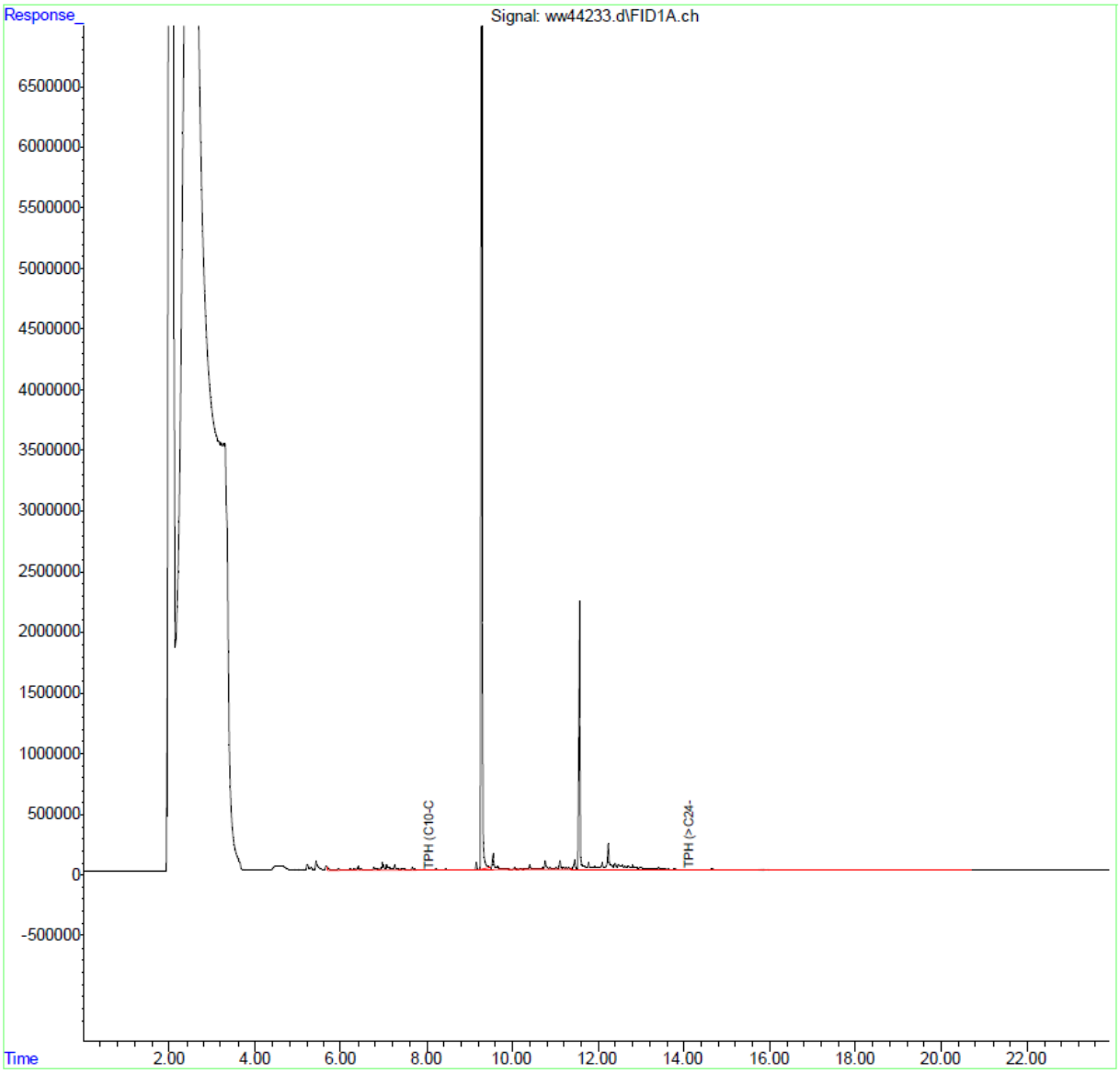


Location: **RHP02** Sample ID: RHP02-WGN01LF-2311WK3-DF Sample Date: 11/22/2023

Lab: SGS

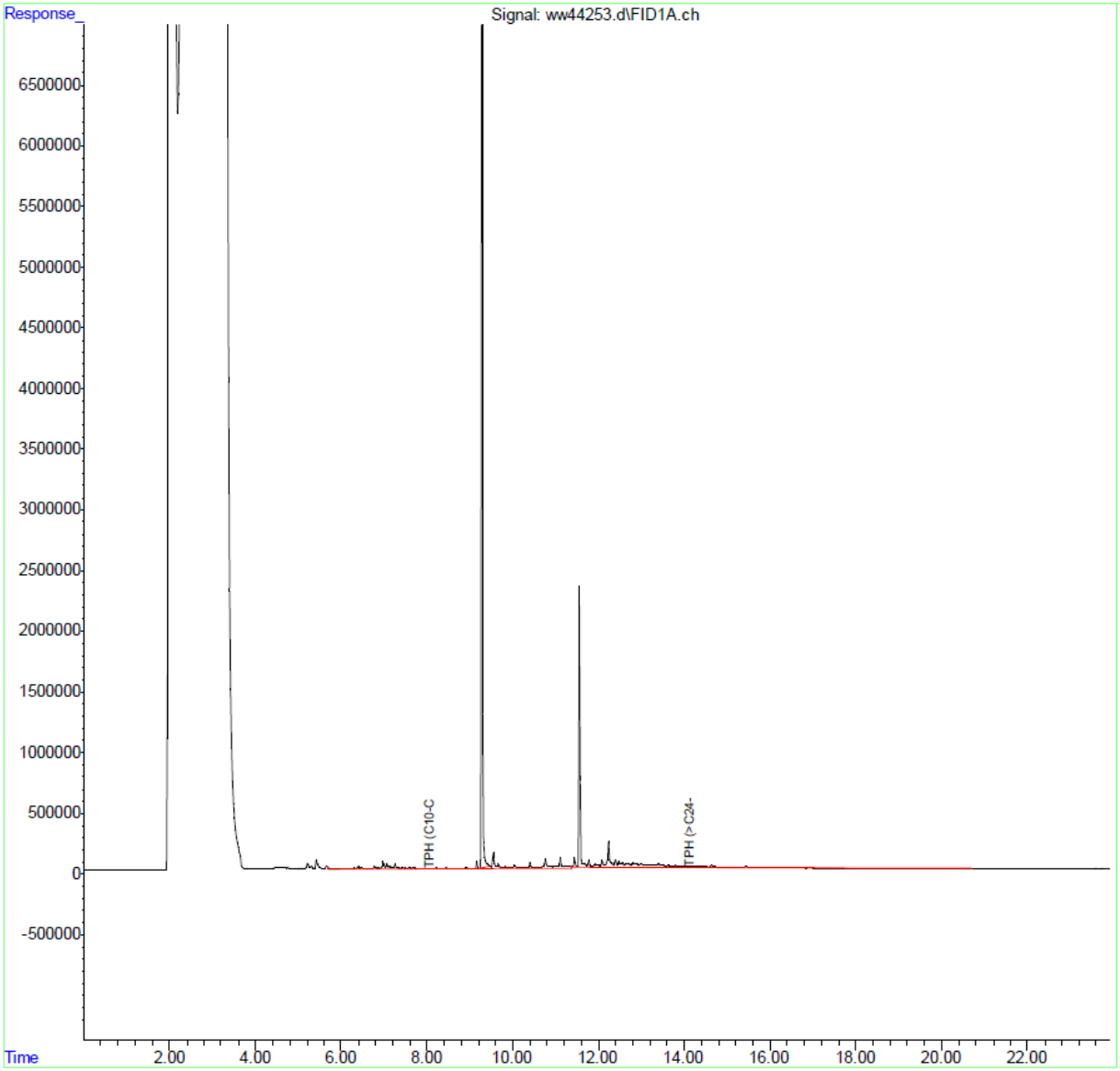
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) 85.1 J**

```
Quant Time: Nov 25 08:39:14 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) <100 U** **TPH-o SGC (C24 to C40) 102 J**

```
Quant Time: Nov 25 12:00:52 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

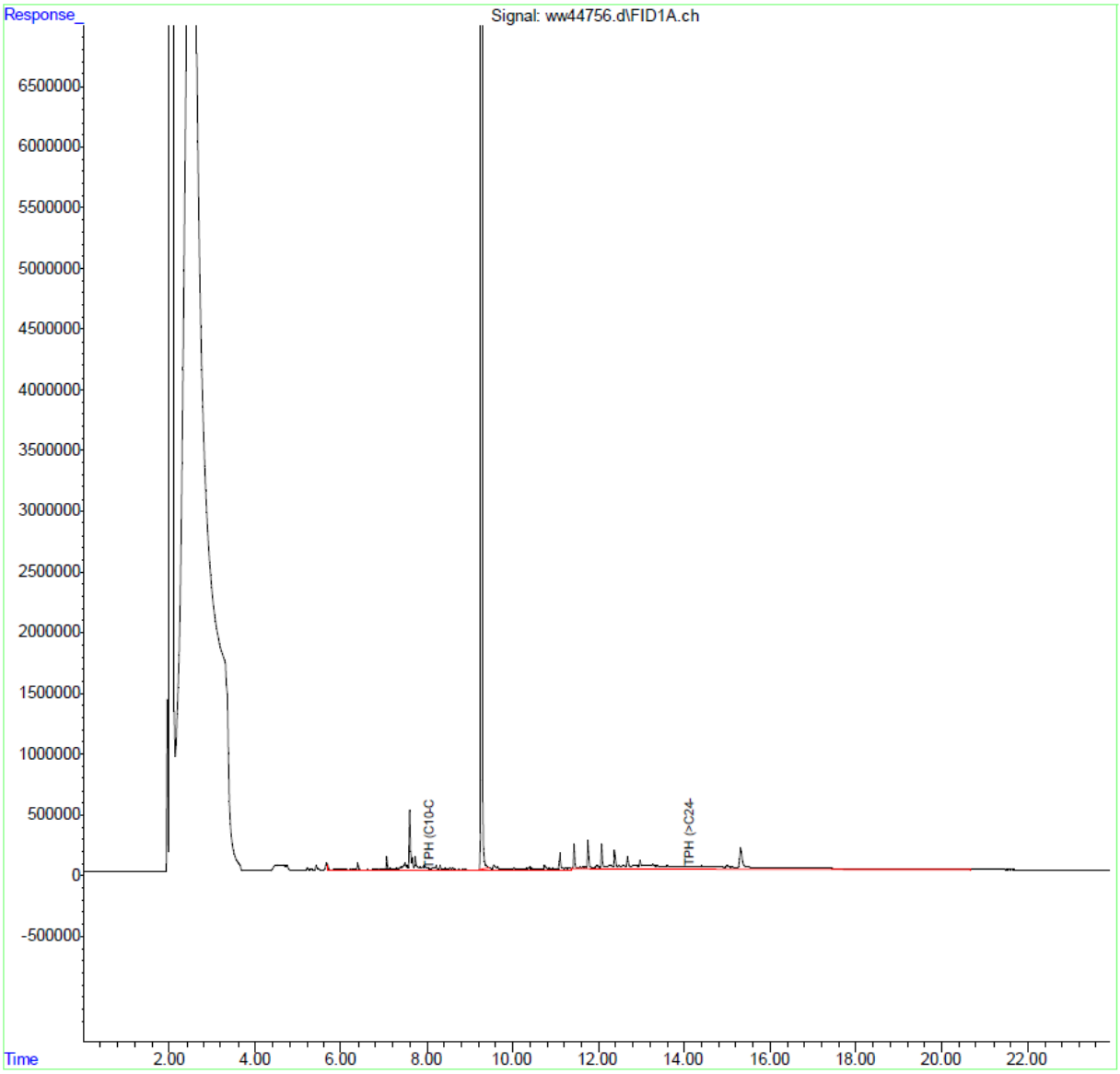


Location: **RHP02** Sample ID: RHP02-WGN01LF-2312WK3-DF Sample Date: 12/18/2023

Lab: SGS

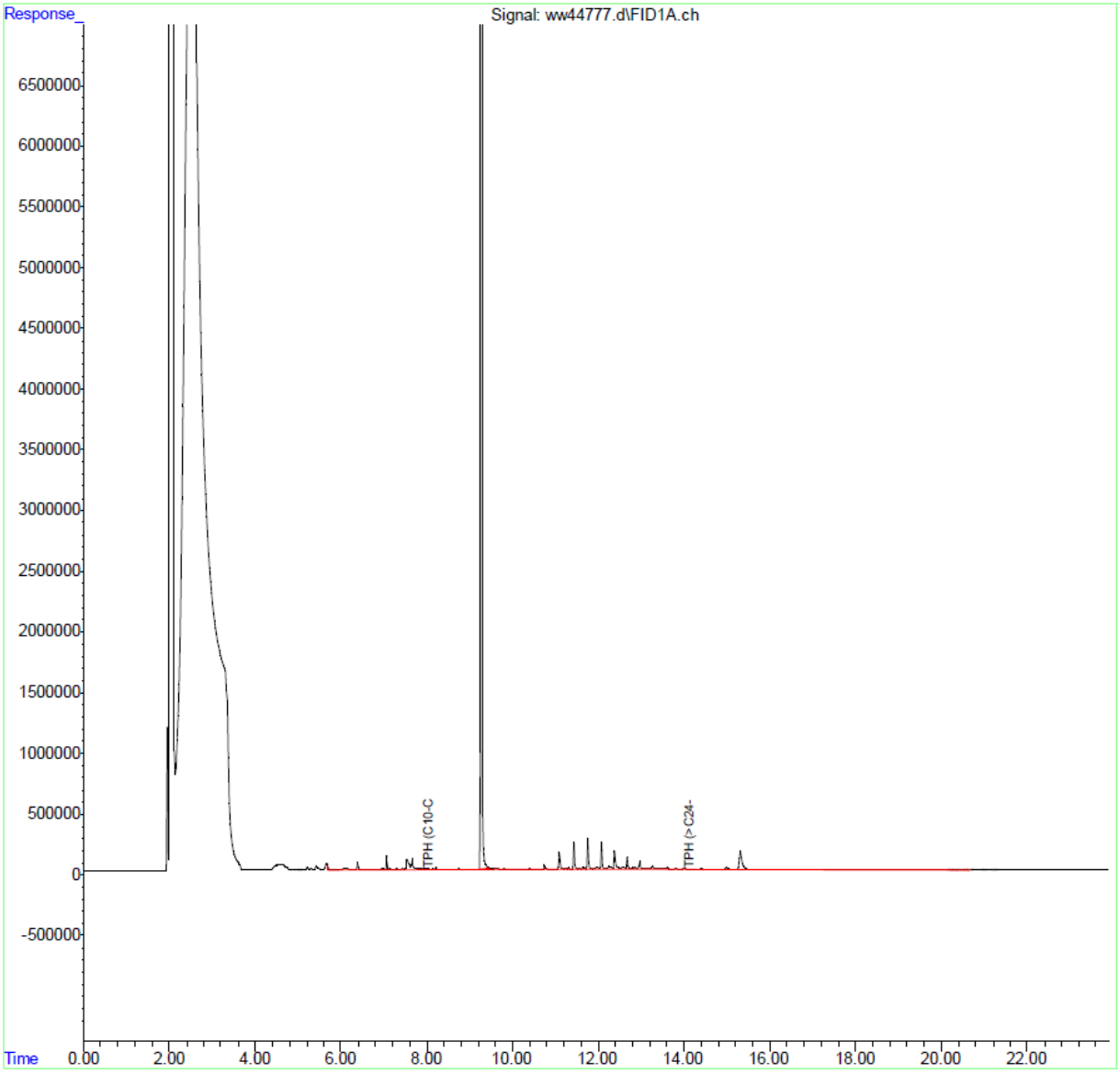
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) 96.7 J**

```
Quant Time: Dec 20 14:53:26 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) <100 U** **TPH-o SGC (C24 to C40) <170 U**

```
Quant Time: Dec 21 09:37:20 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

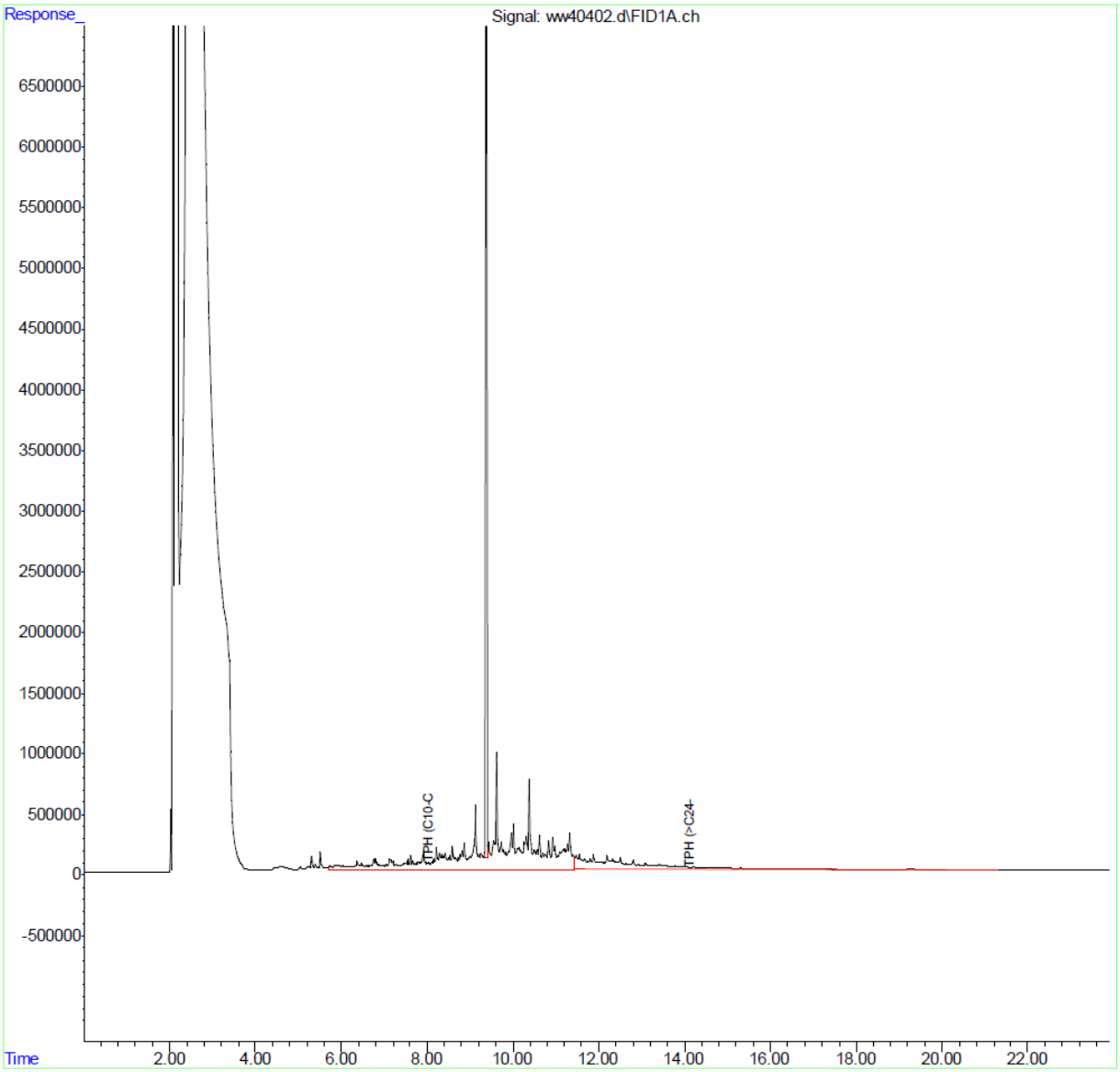


Location: **RHP04B** Sample ID: RHP04B-WGN01LF-2306WK2 Sample Date: 6/14/2023

Lab: SGS

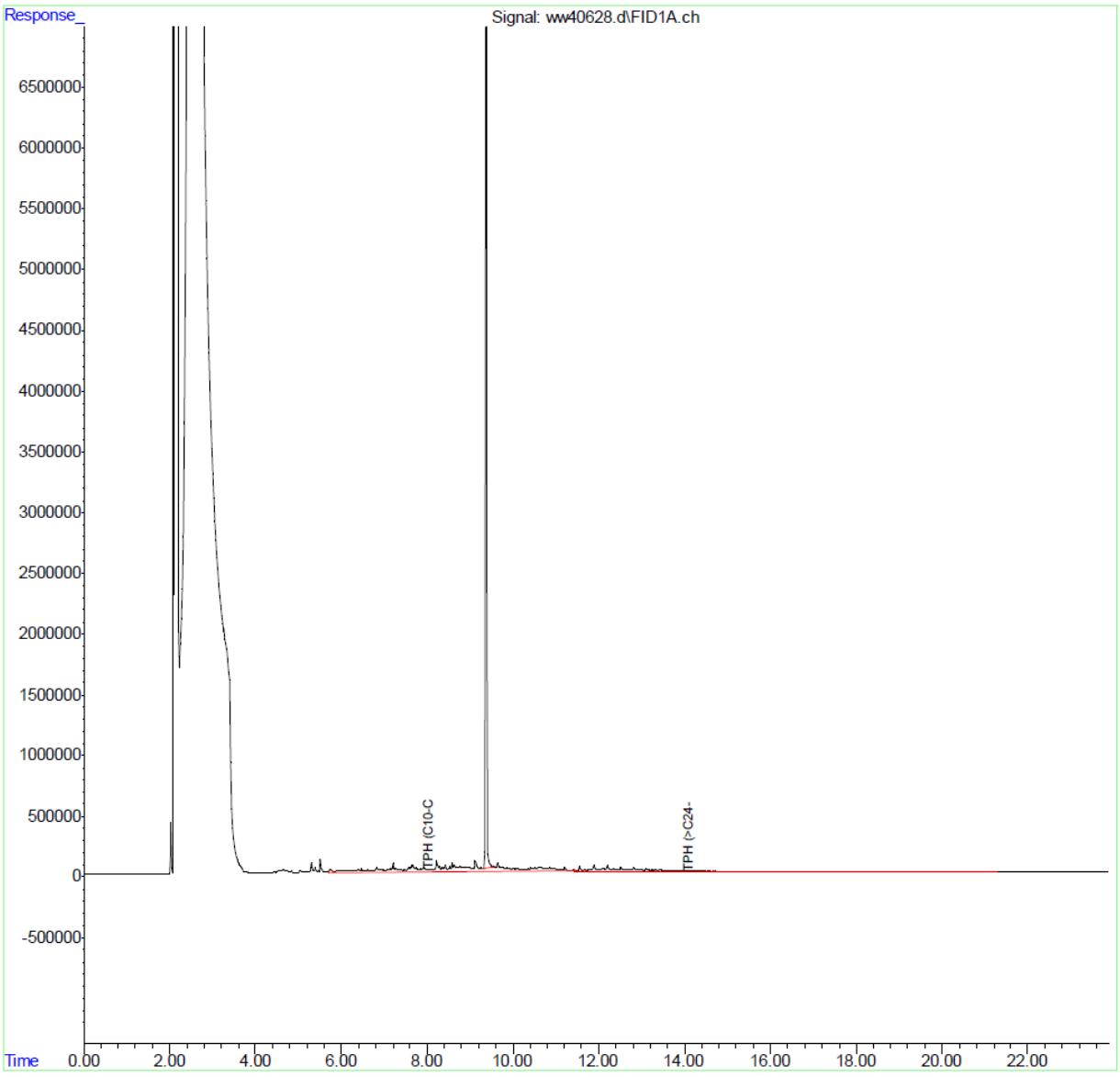
Results (ug/L): **TPH-d (C10 to C24) 304** **TPH-o (C24 to C40) 85.9 J**

```
Quant Time: Jul 19 16:10:44 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_080922_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Wed Aug 10 09:31:47 2022
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) <100 U** **TPH-o SGC (C24 to C40) <160 U**

```
Quant Time: Sep 12 19:56:05 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_080922_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Wed Aug 10 09:31:47 2022
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

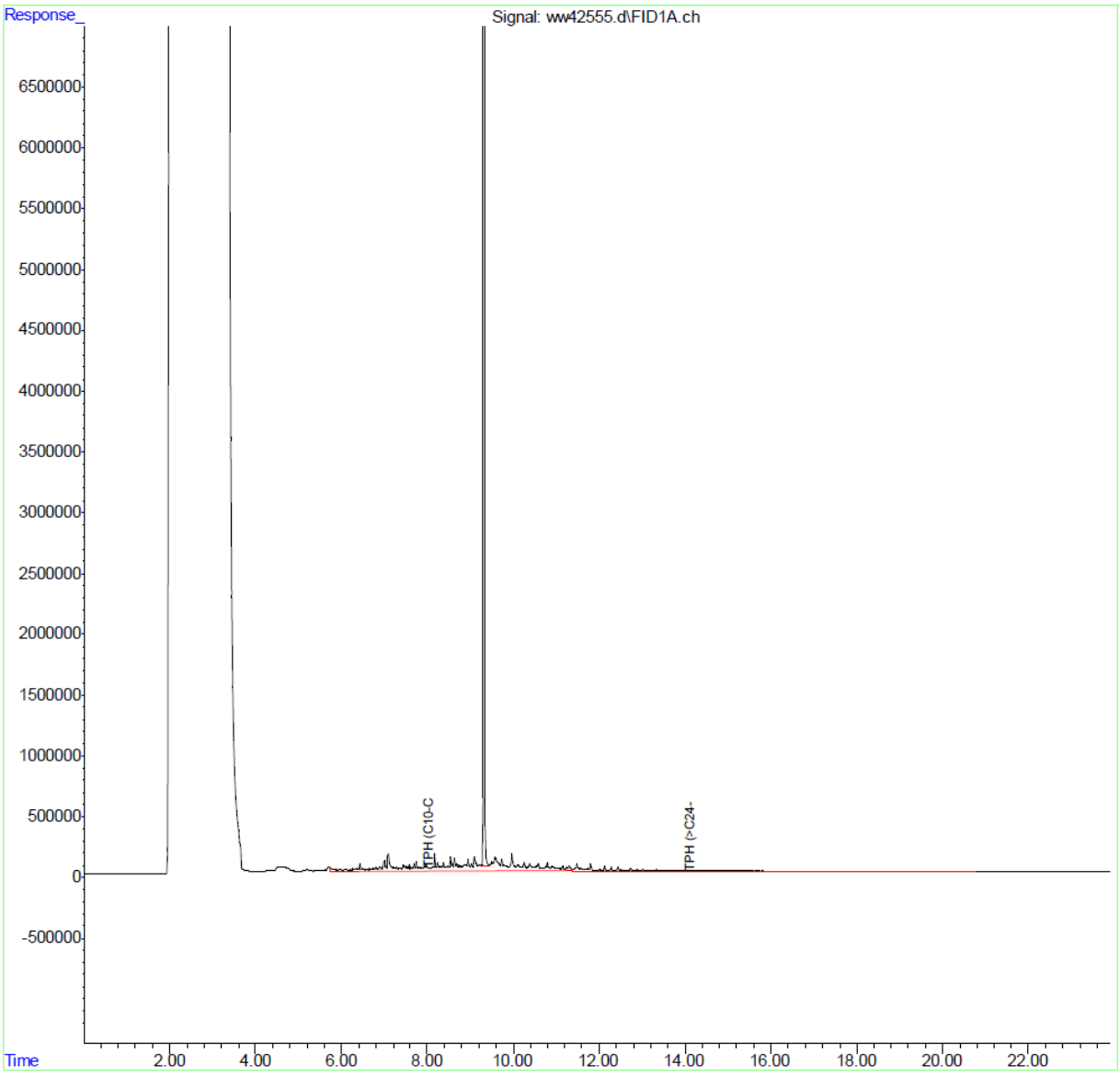


Location: **RHP04B** Sample ID: RHP04B-WGN01LF-2309 Sample Date: 9/11/2023

Lab: SGS

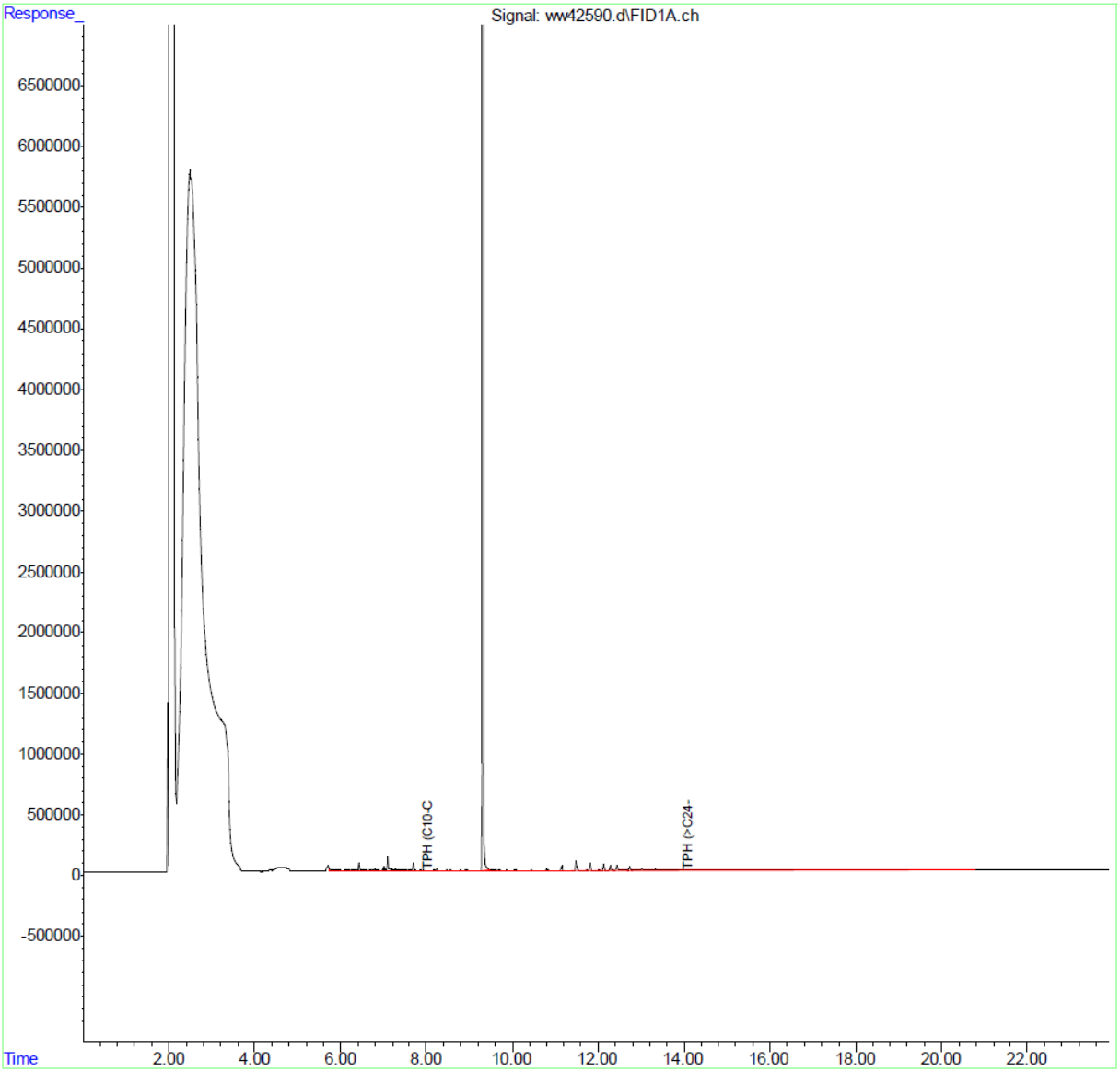
Results (ug/L): **TPH-d (C10 to C24) 88.4 J** **TPH-o (C24 to C40) <160 U**

```
Quant Time: Sep 18 09:59:52 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) <100 U** **TPH-o SGC (C24 to C40) <160 U**

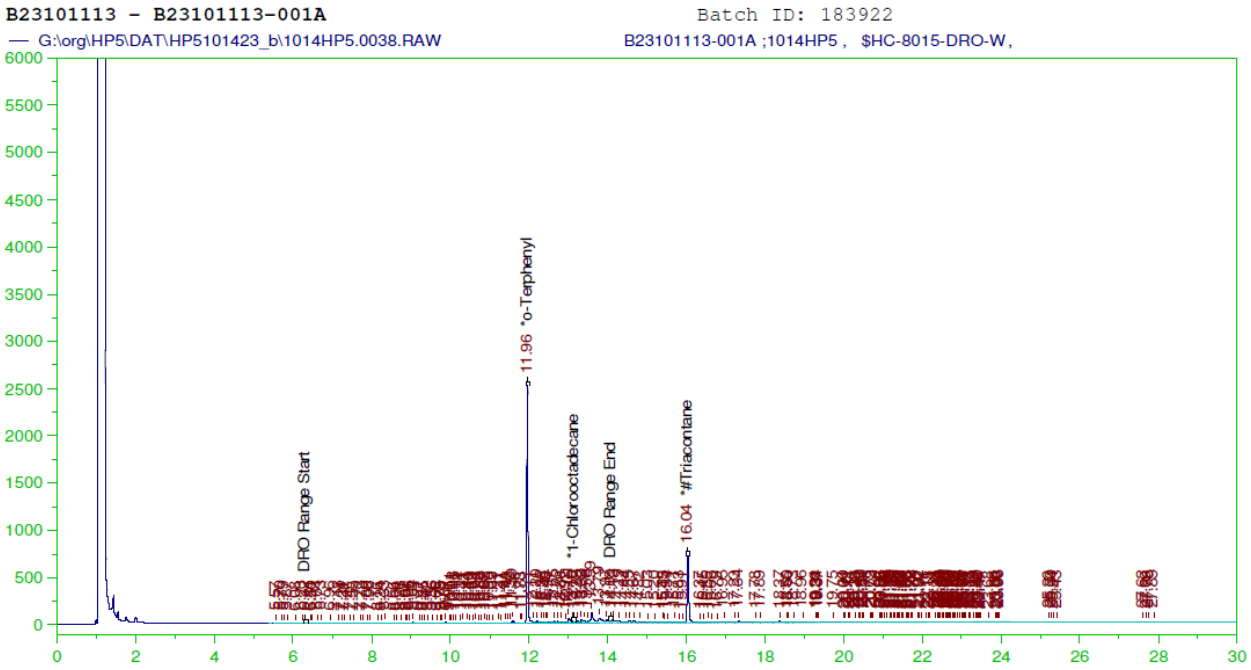
```
Quant Time: Sep 19 10:31:13 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



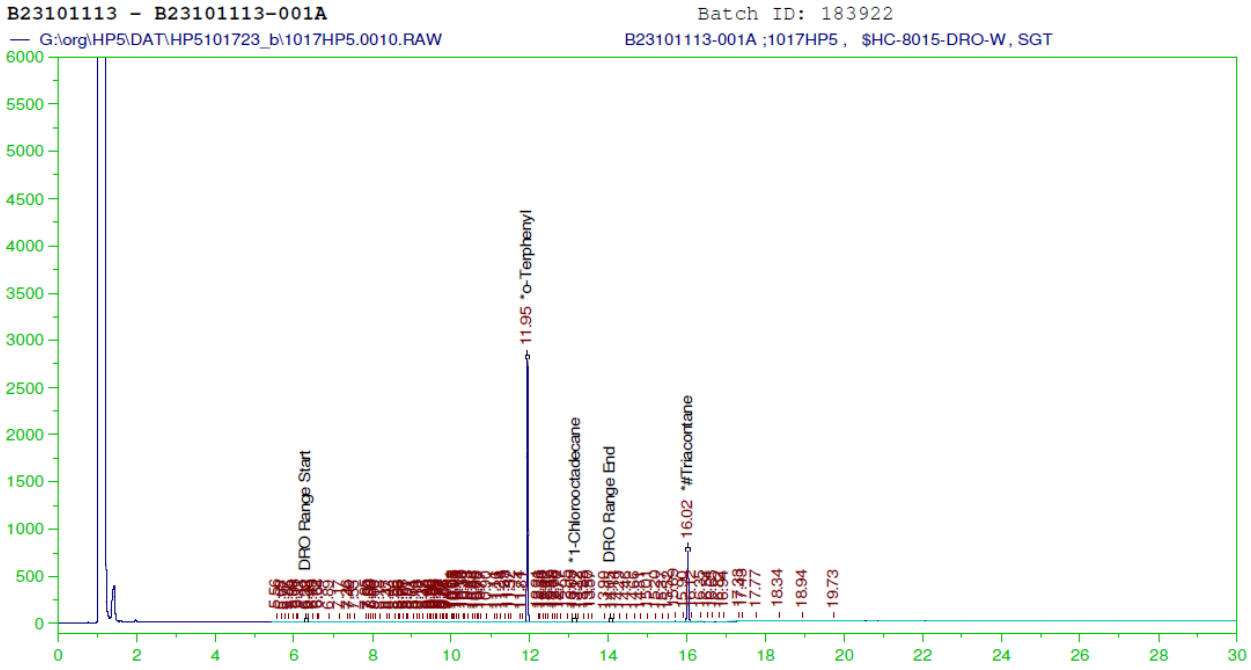
Location: **RHP04B** Sample ID: RHP04B-WGN01LF-23Q4 Sample Date: 10/12/2023

Lab: Energy

Results (ug/L): **TPH-d (C10 to C24) 119 J** **TPH-o (C24 to C40) 150 J**



Results (ug/L): **TPH-d SGC (C10 to C24) <145** **TPH-o SGC (C24 to C40) <145 U**

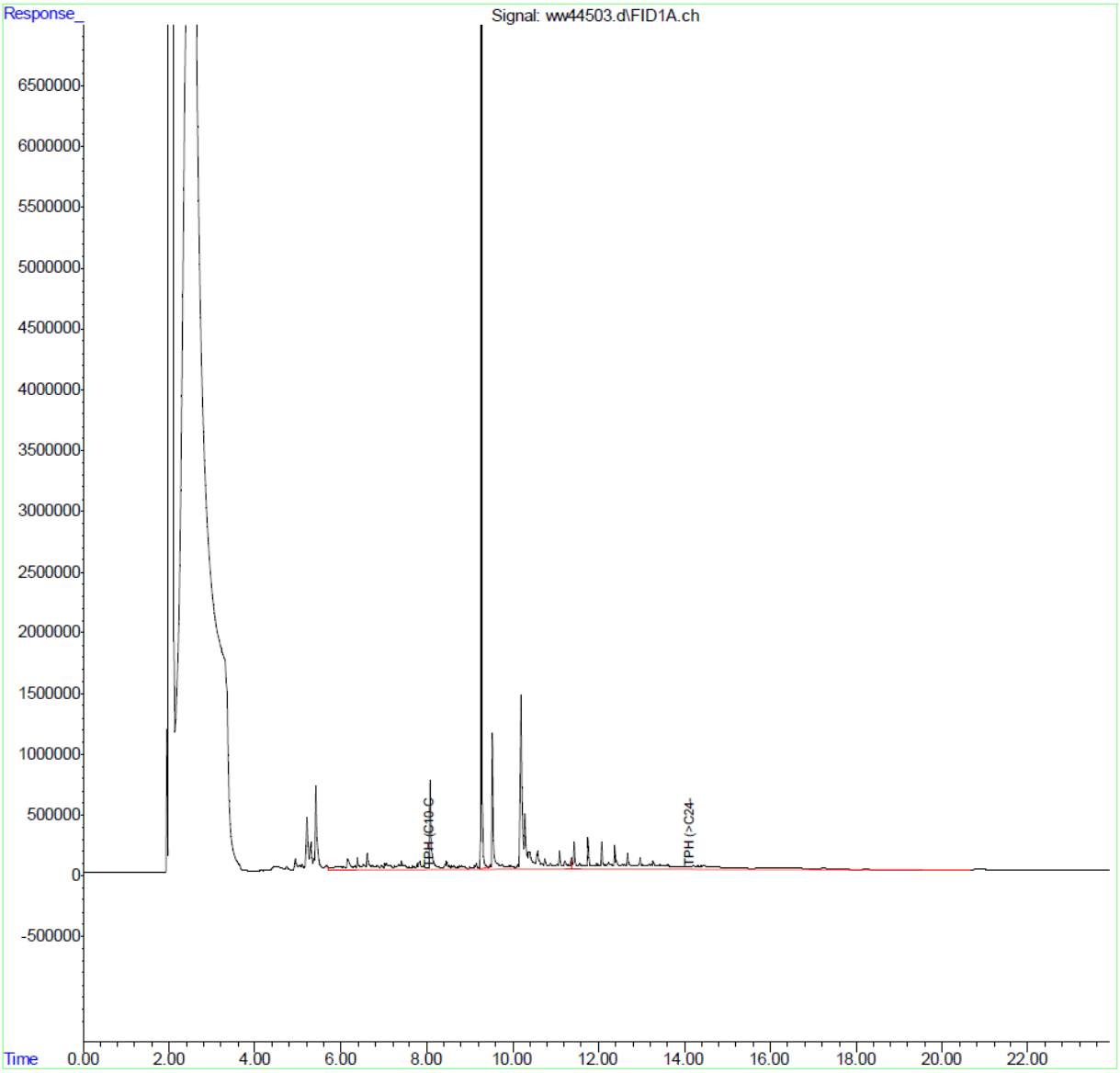


Location: **RHP05** Sample ID: RHP05-WGN01LF-2312-DF Sample Date: 12/6/2023

Lab: SGS

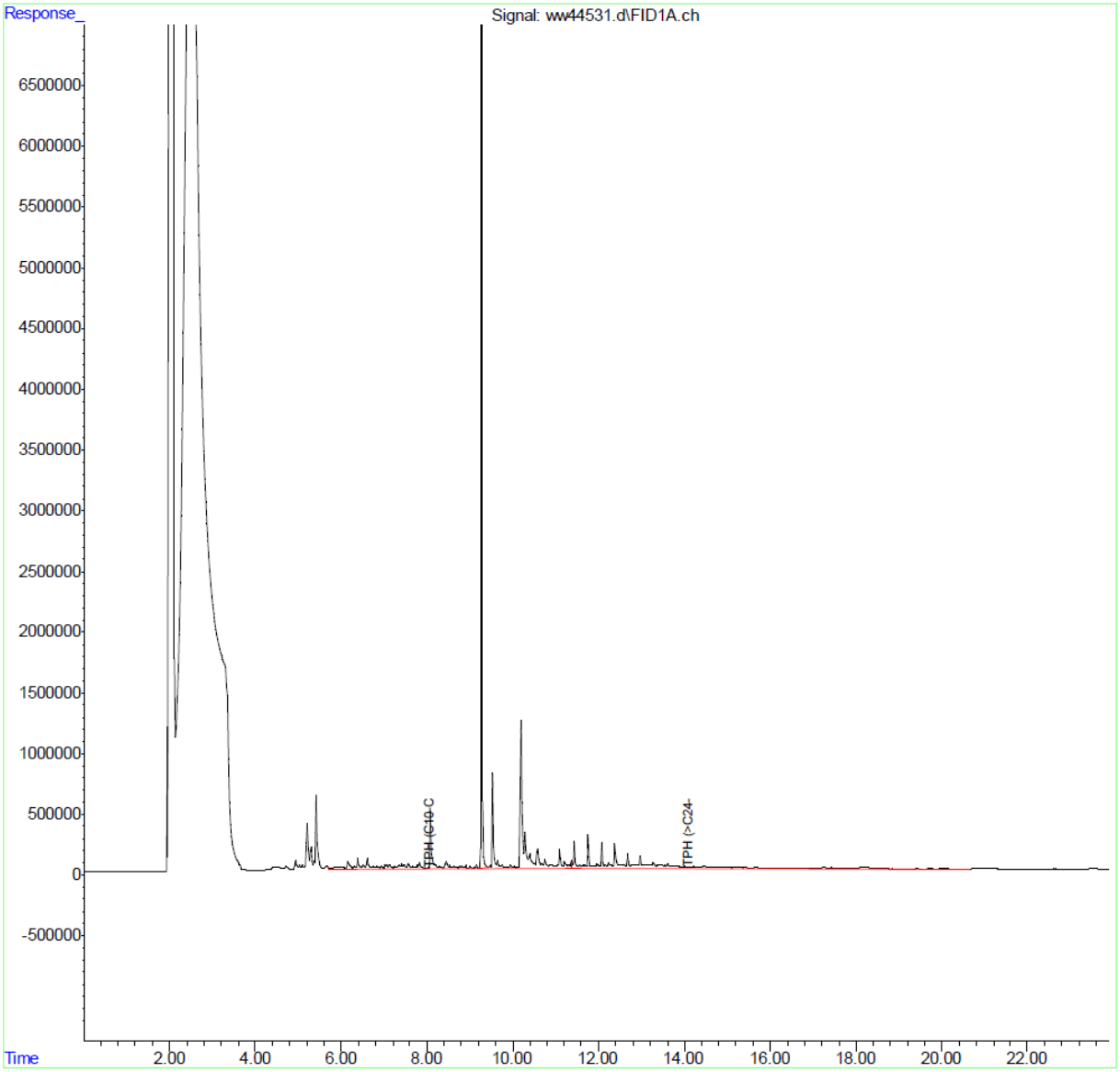
Results (ug/L): **TPH-d (C10 to C24) 135 J** **TPH-o (C24 to C40) 92.7 J**

```
Quant Time: Dec 10 10:29:20 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 112 J** **TPH-o SGC (C24 to C40) <160 U**

```
Quant Time: Dec 10 12:47:00 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

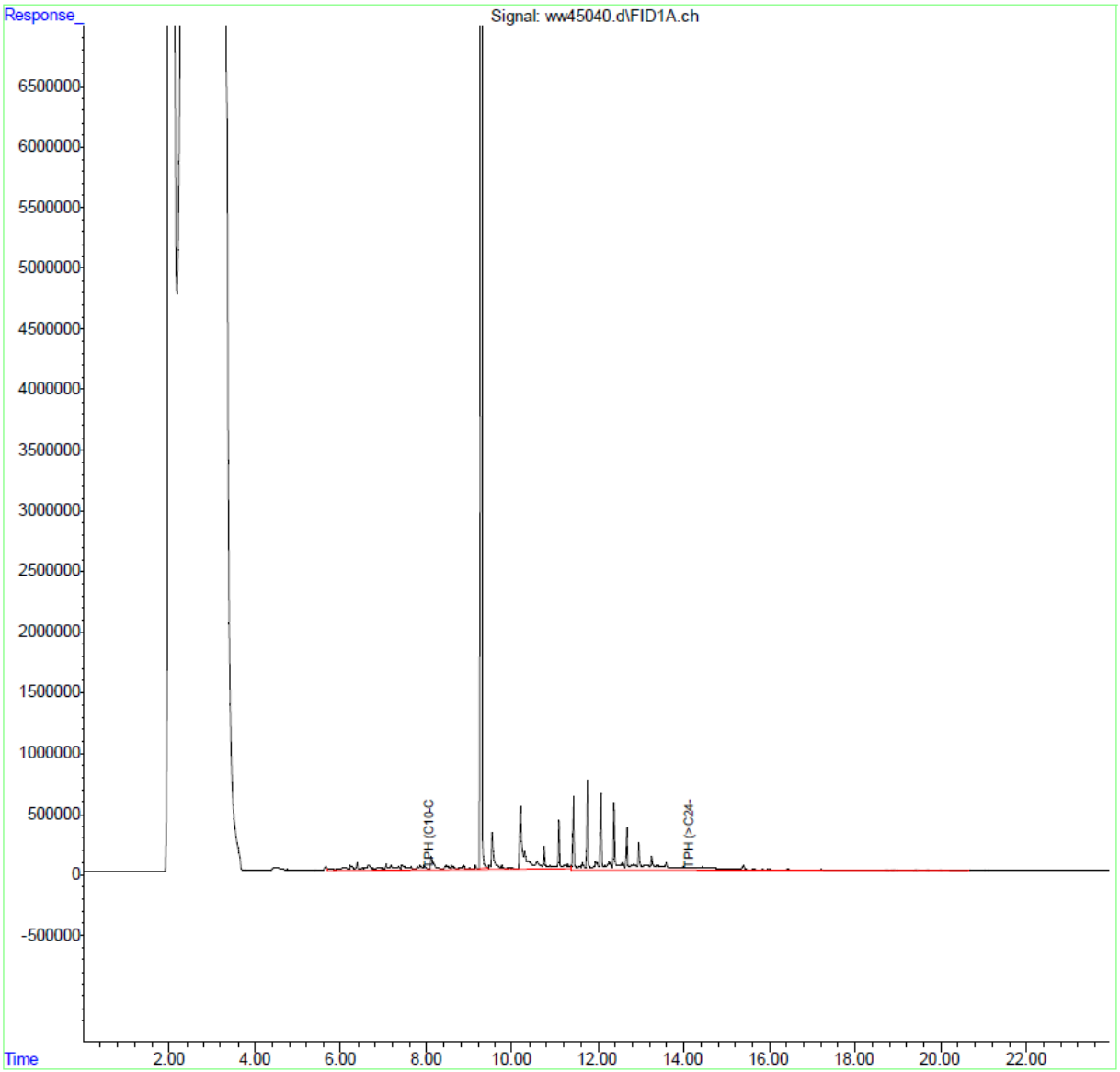


Location: **RHP05** Sample ID: RHP05-WGN01LF-2401-DF Sample Date: 1/3/2024

Lab: SGS

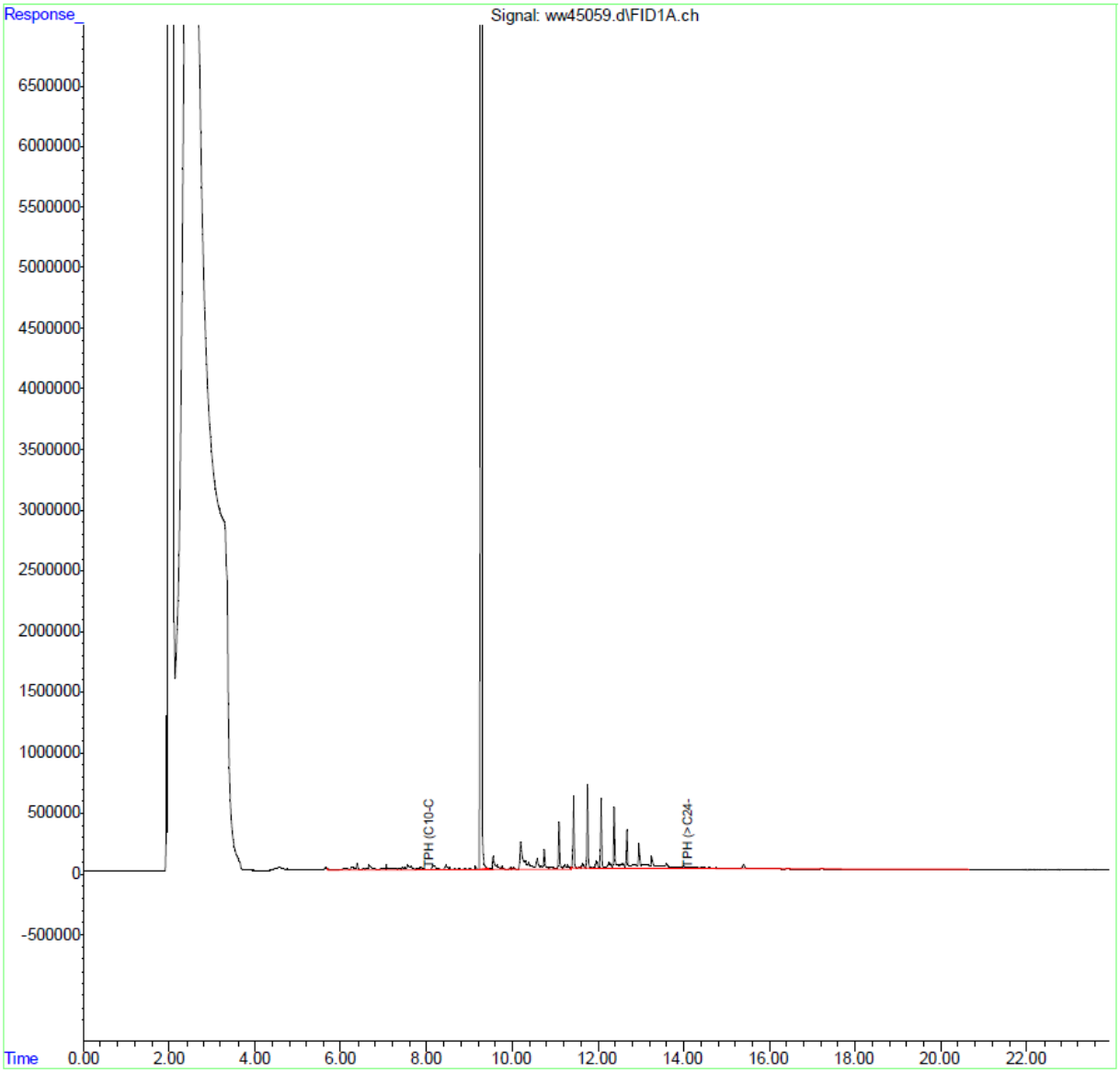
Results (ug/L): **TPH-d (C10 to C24) 80.8 J** **TPH-o (C24 to C40) 108 J**

```
Quant Time: Jan 06 10:42:36 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) <96 U** **TPH-o SGC (C24 to C40) 97.1 J**

```
Quant Time: Jan 06 16:12:01 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

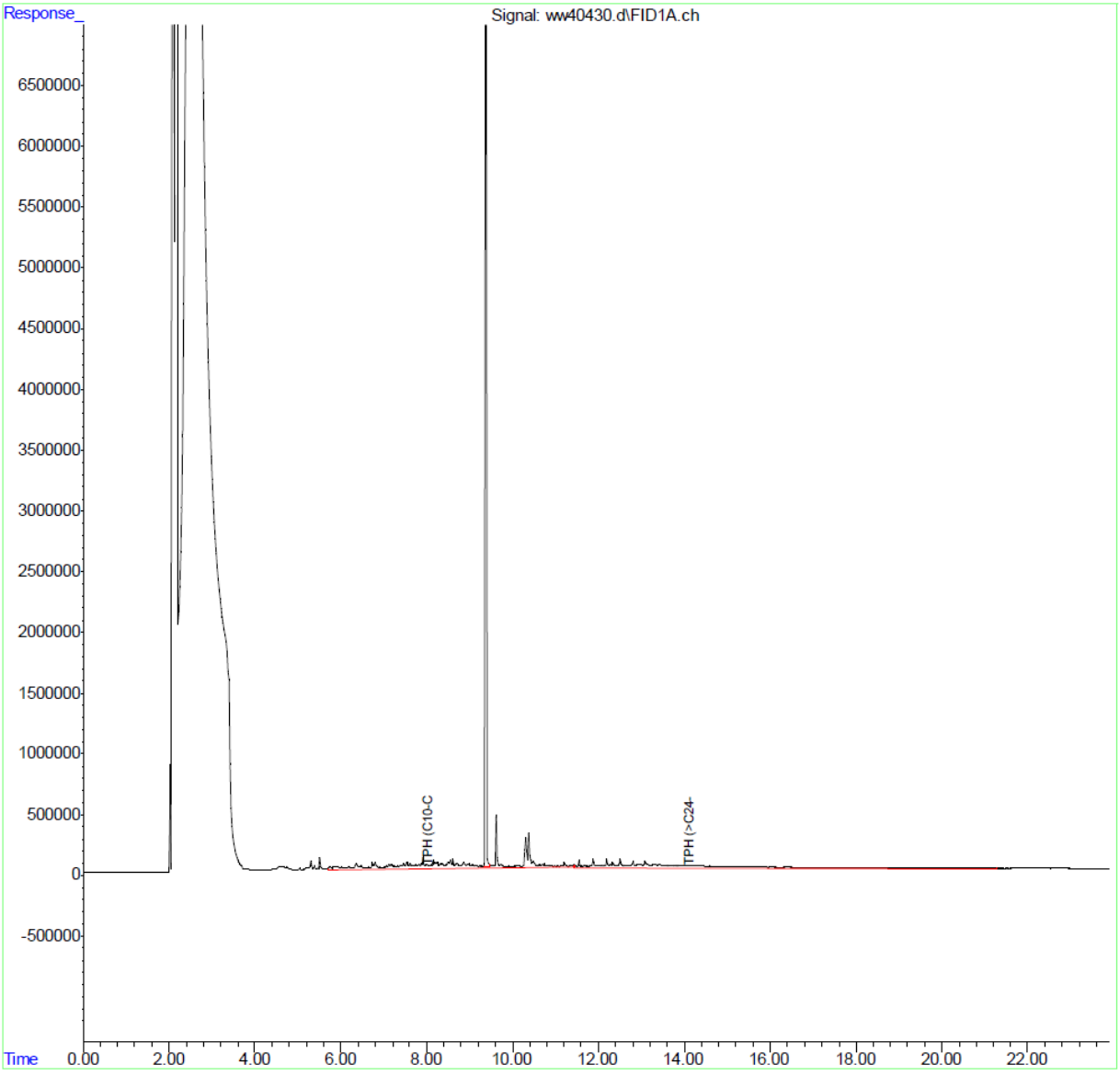


Location: **RHP07** Sample ID: RHP07-WGN01LF-2306WK2 Sample Date: 6/15/2023

Lab: SGS

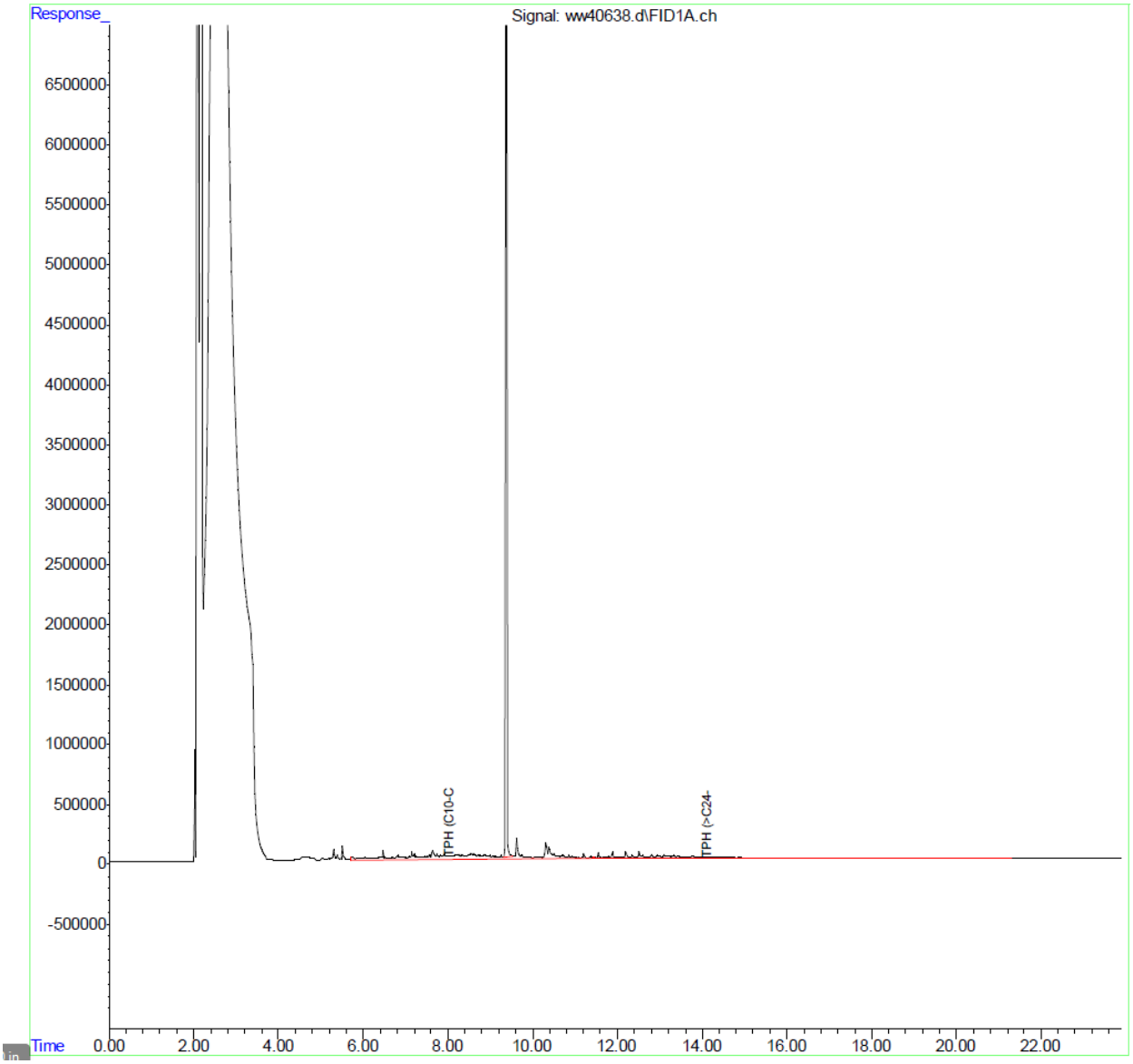
Results (ug/L): **TPH-d (C10 to C24) 91.4 J** **TPH-o (C24 to C40) <170**

```
Quant Time: Jul 19 16:23:12 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_080922_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Wed Aug 10 09:31:47 2022
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) <100 U** **TPH-o SGC (C24 to C40) <170 U**

```
Quant Time: Sep 12 19:56:07 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_080922_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Wed Aug 10 09:31:47 2022
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

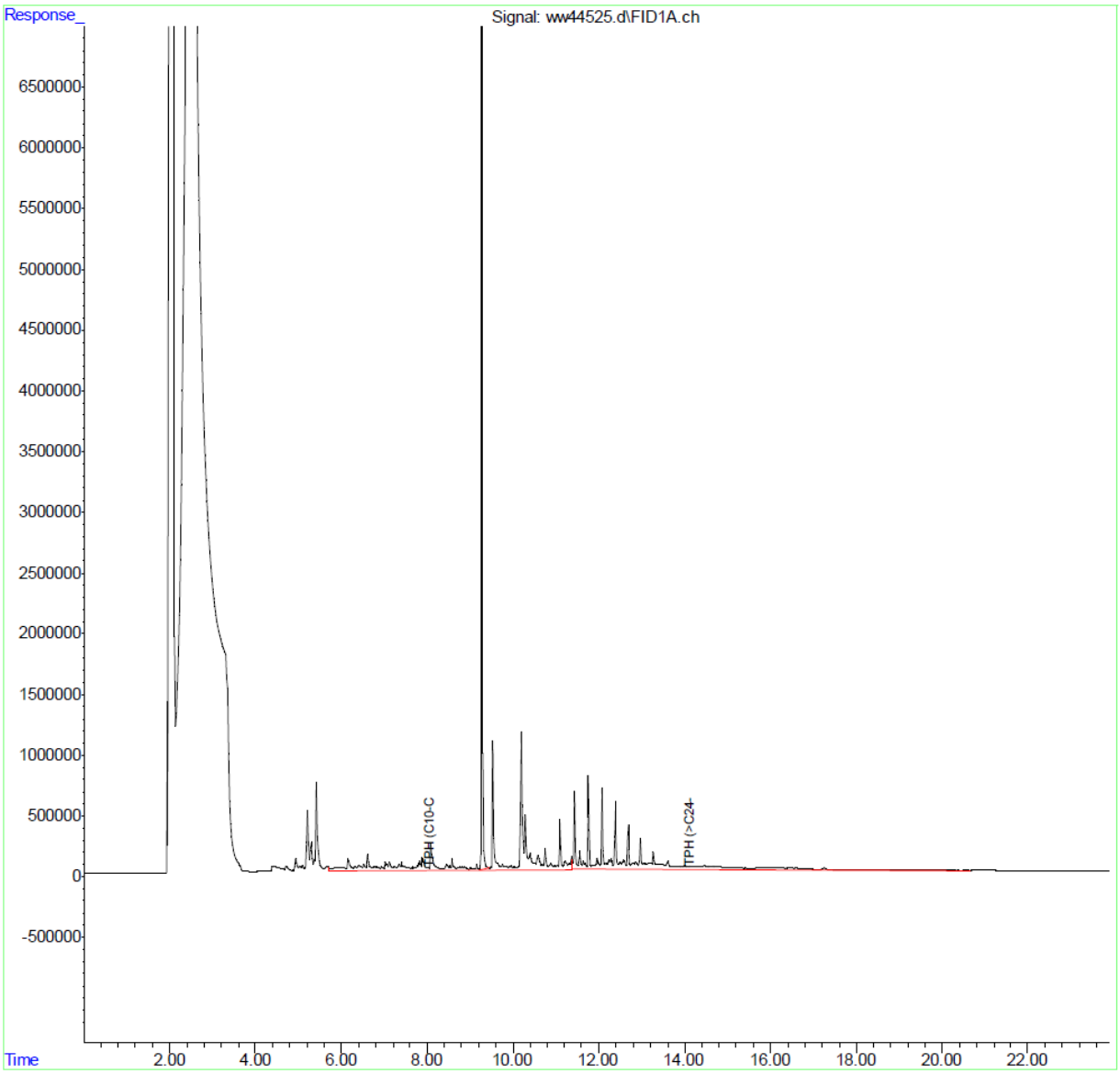


Location: **NMW25** Sample ID: NMW25-WGN01LF-2312 Sample Date: 12/7/2023

Lab: SGS

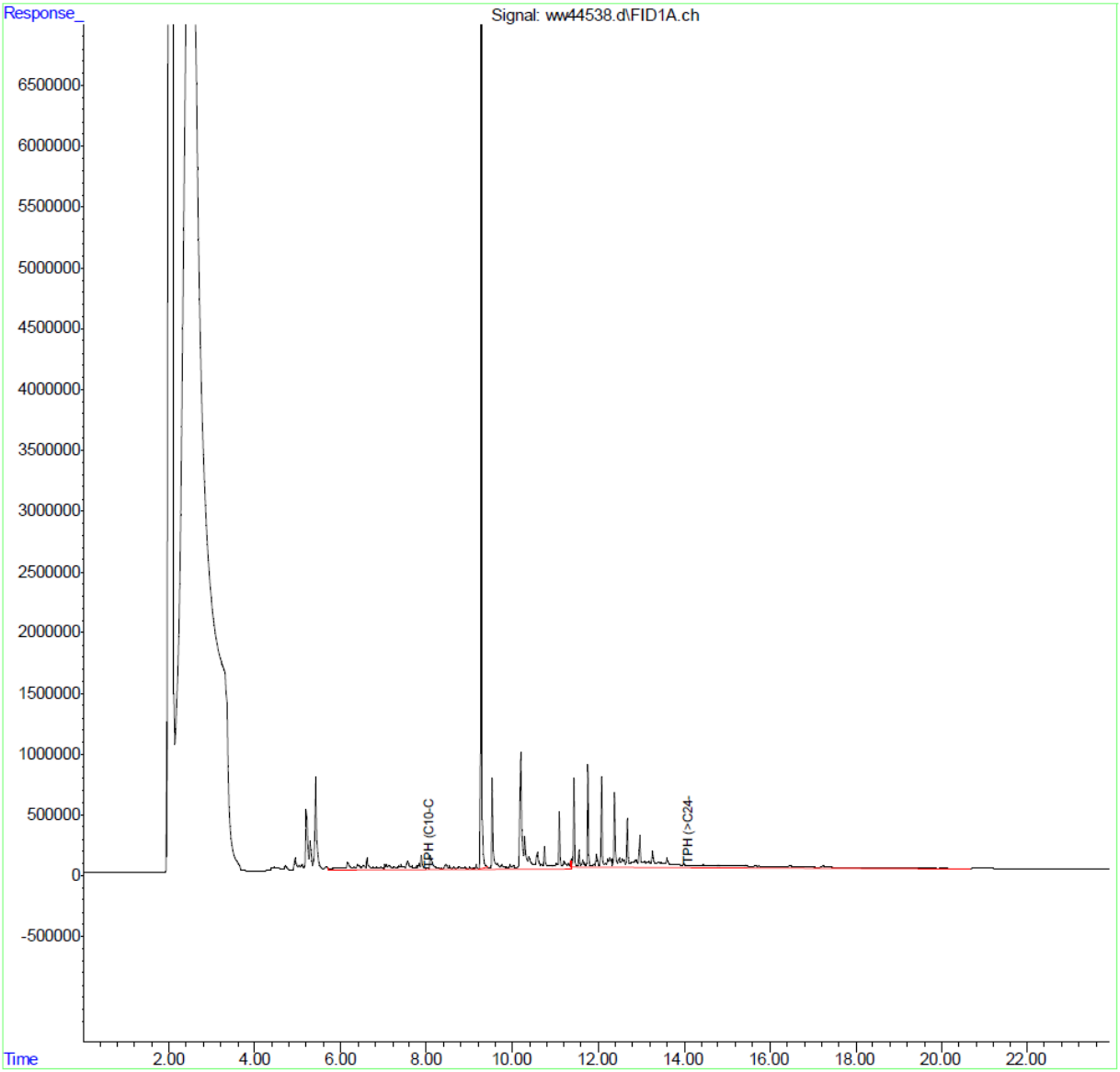
Results (ug/L): **TPH-d (C10 to C24) 81.7 J** **TPH-o (C24 to C40) 114 J**

```
Quant Time: Dec 10 10:30:04 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) <100 U** **TPH-o SGC (C24 to C40) 101 J**

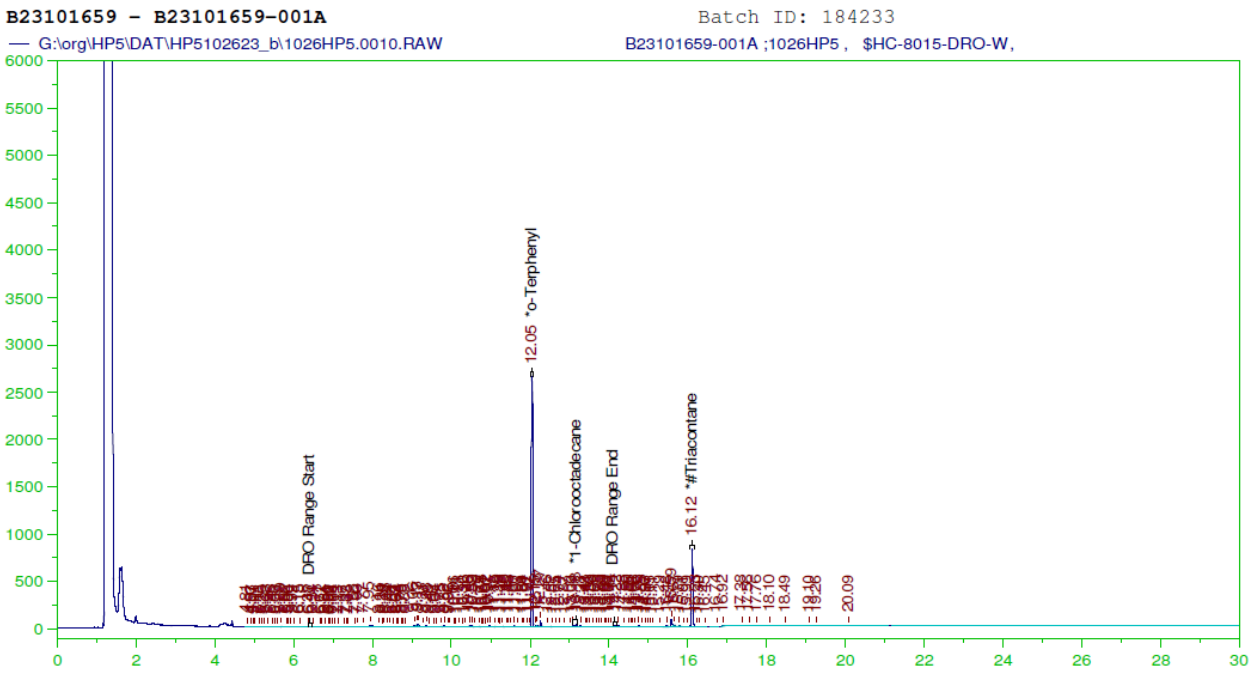
```
Quant Time: Dec 11 10:15:37 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Location: **NMW30** Sample ID: NMW30-WGN01LF-2312 Sample Date: 10/19/2023

Lab: Energy

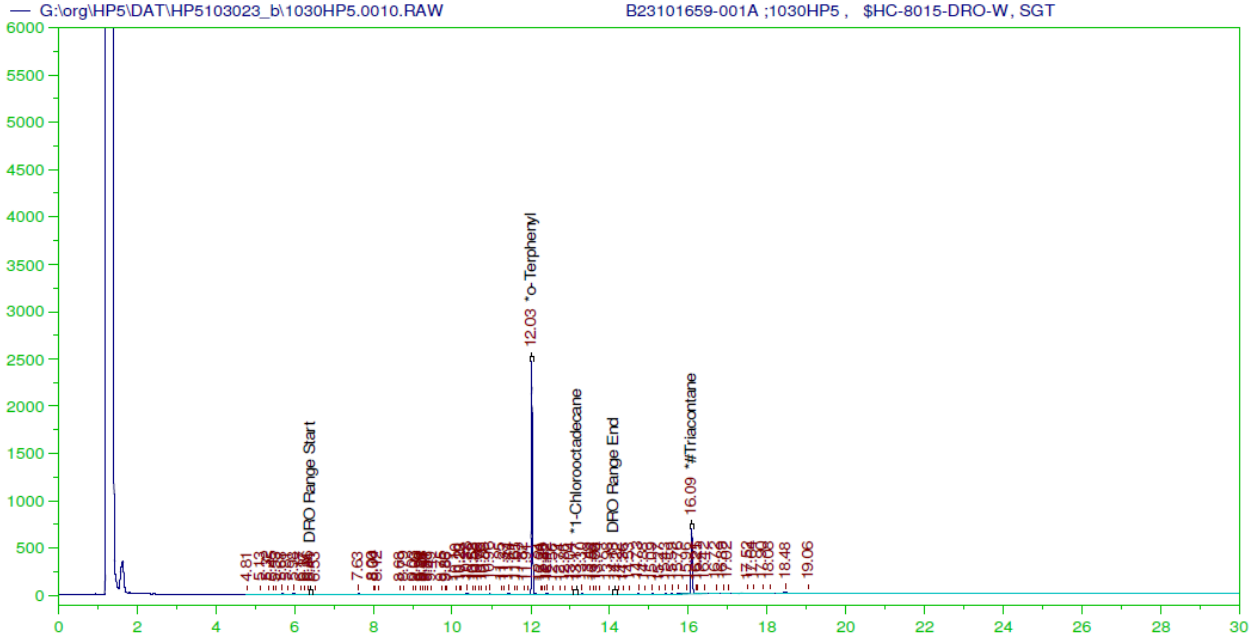
Results (ug/L): **TPH-d (C10 to C24) 55.3 J** **TPH-o (C24 to C40) <145 U**



Results (ug/L): **TPH-d SGC (C10 to C24) <145 U** **TPH-o SGC (C24 to C40) <145 U**

B23101659 - B23101659-001A Batch ID: 184233

G:\org\HP5\DAT\HP5103023_b\1030HP5.0010.RAW B23101659-001A ;1030HP5 , $HC-8015-DRO-W, SGT

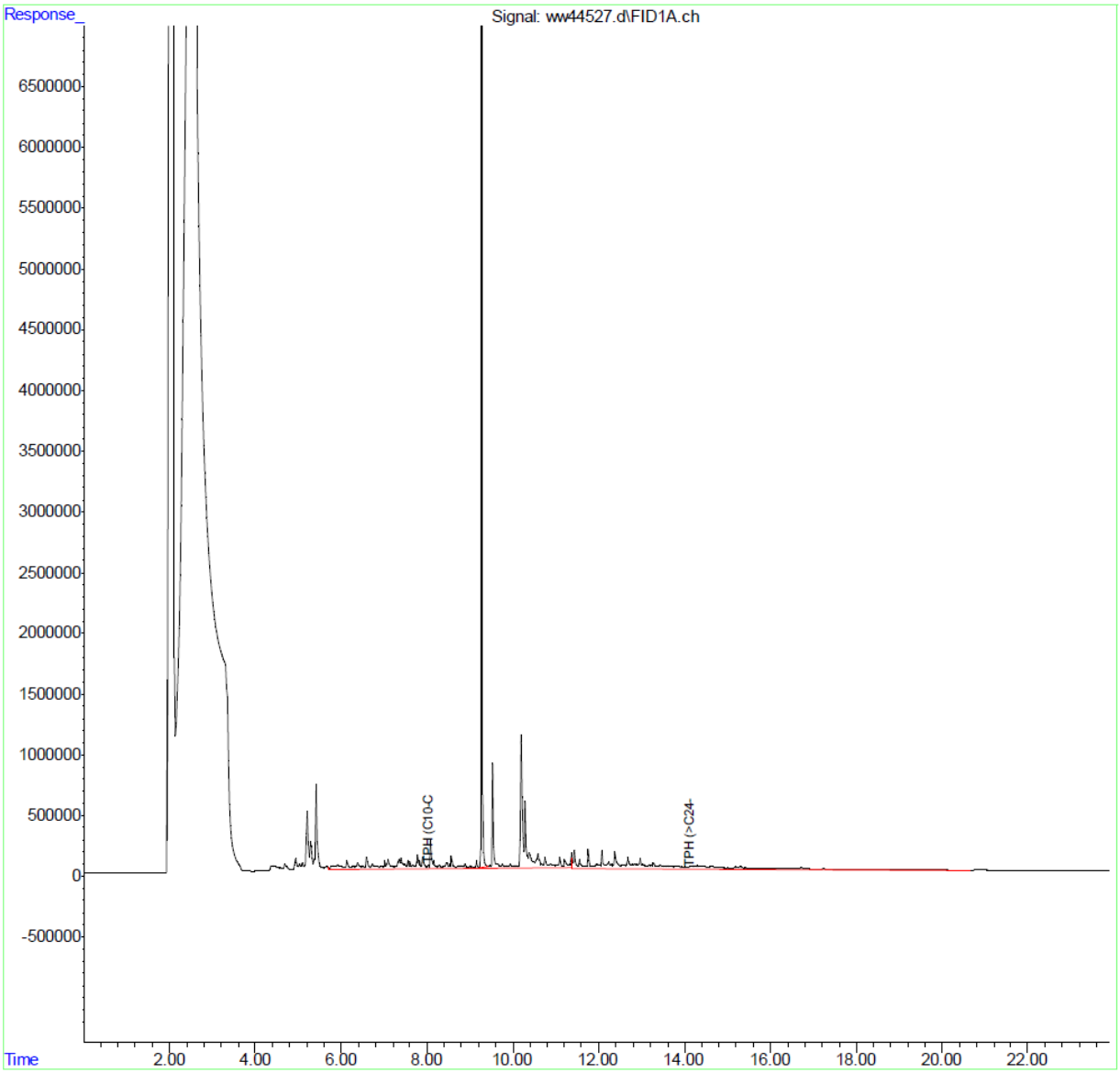


Location: **NMW30** Sample ID: NMW30-WGN01LF-2312 Sample Date: 12/7/2023

Lab: SGS

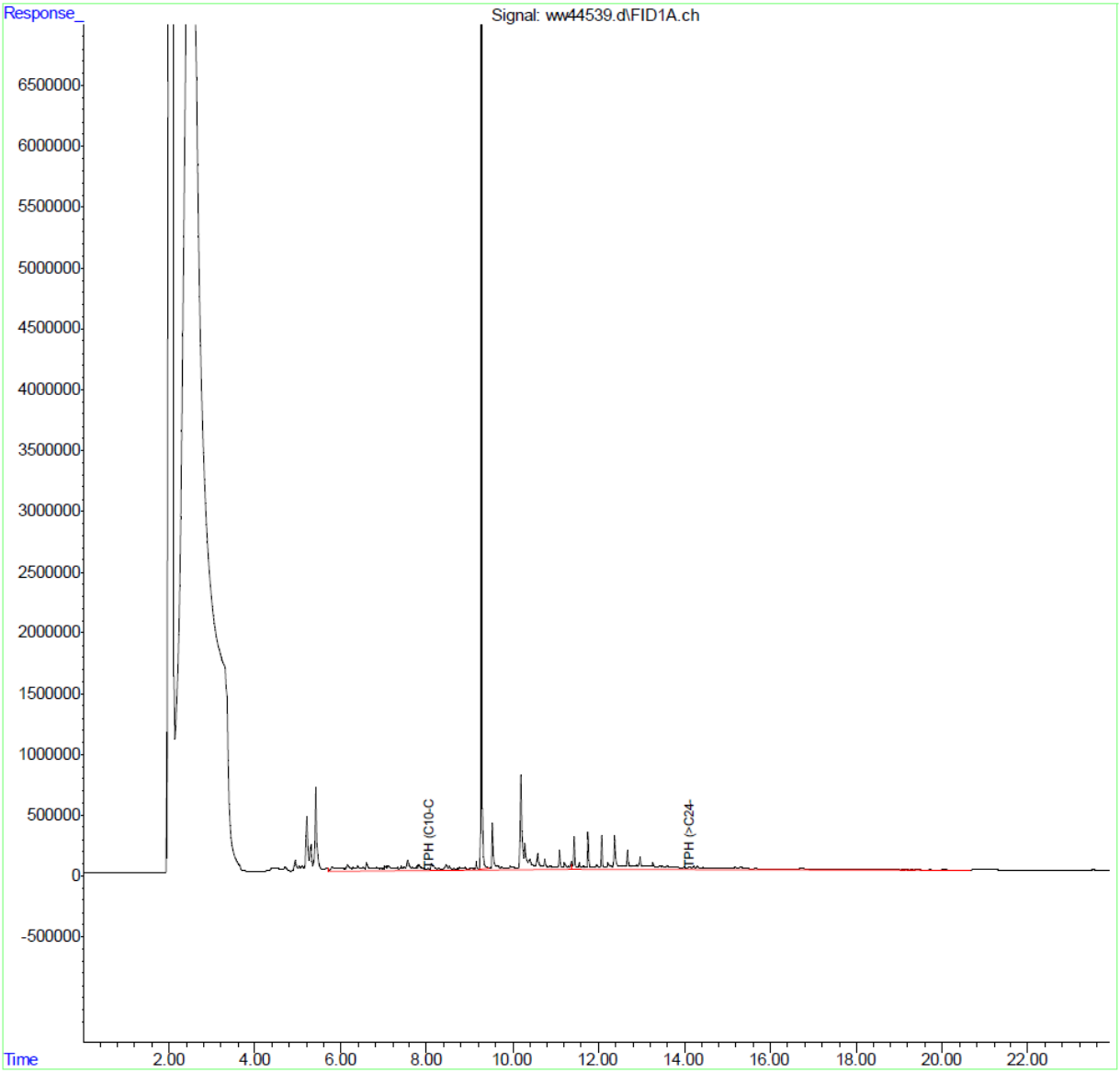
Results (ug/L): **TPH-d (C10 to C24) 103 J** **TPH-o (C24 to C40) 94 J**

```
Quant Time: Dec 10 10:30:08 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) <100 U** **TPH-o SGC (C24 to C40) <160 U**

```
Quant Time: Dec 11 10:15:40 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

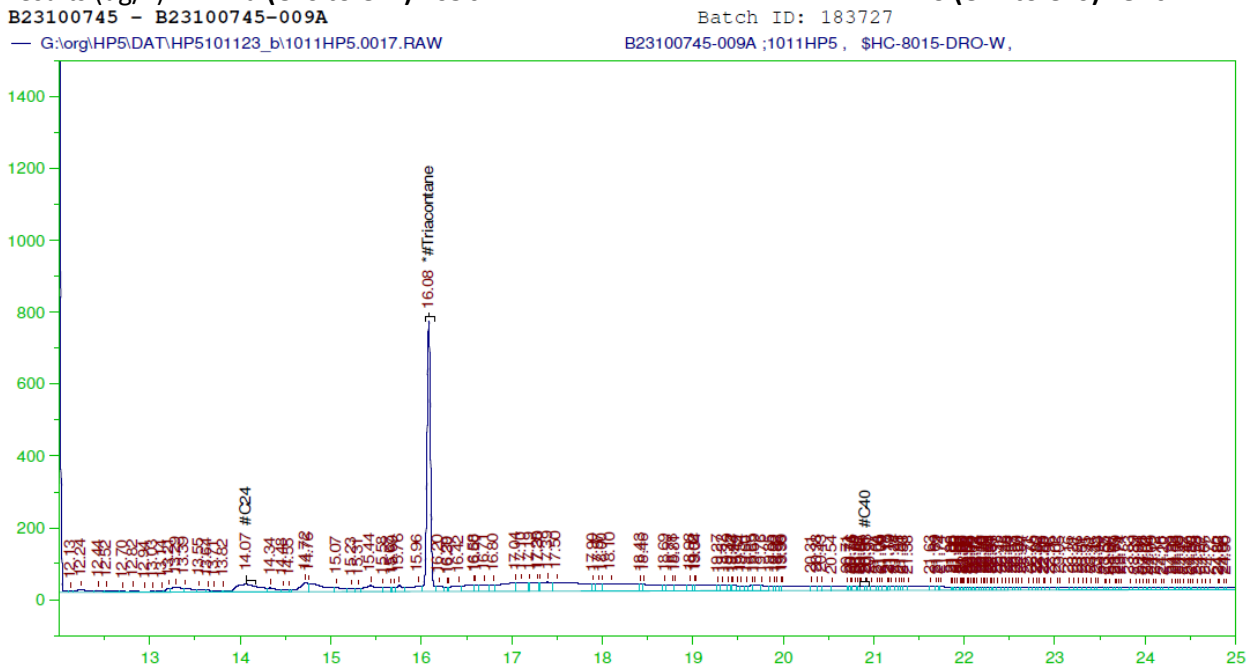


++++++++

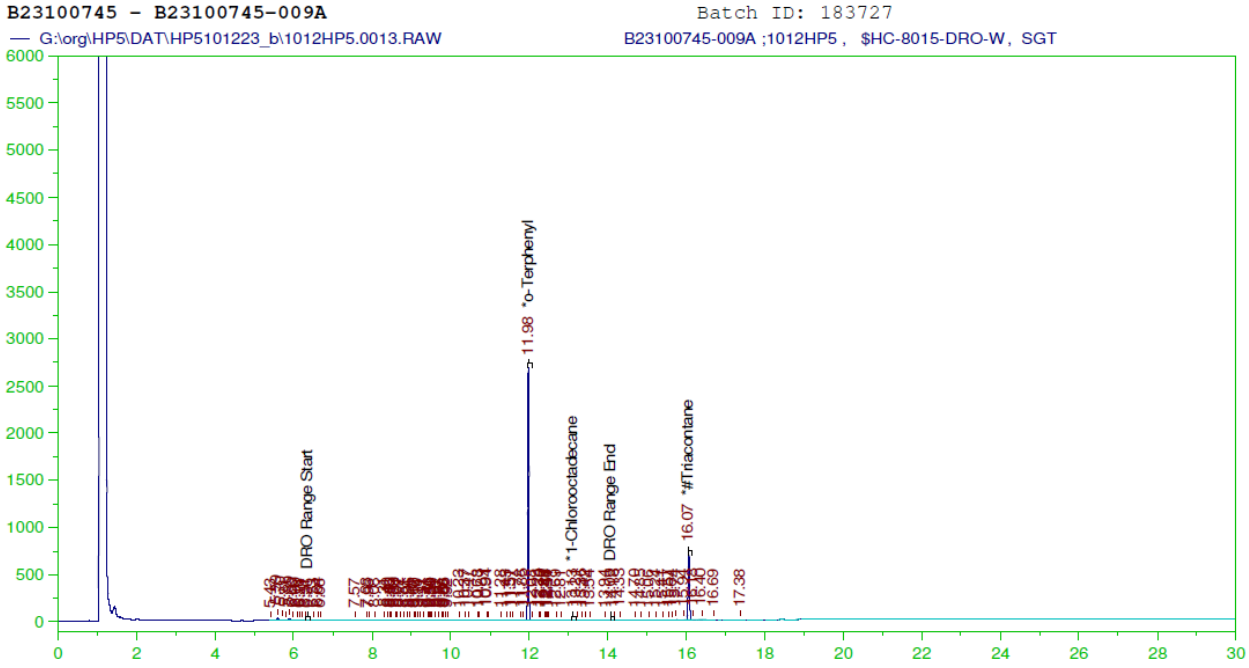
Location: **NMW33** Sample ID: NMW33-WGN01LF-23Q4 Sample Date: 10/9/2023

Lab: Energy

Results (ug/L): **TPH-d (C10 to C24) 105 J** **TPH-o (C24 to C40) 281 J**



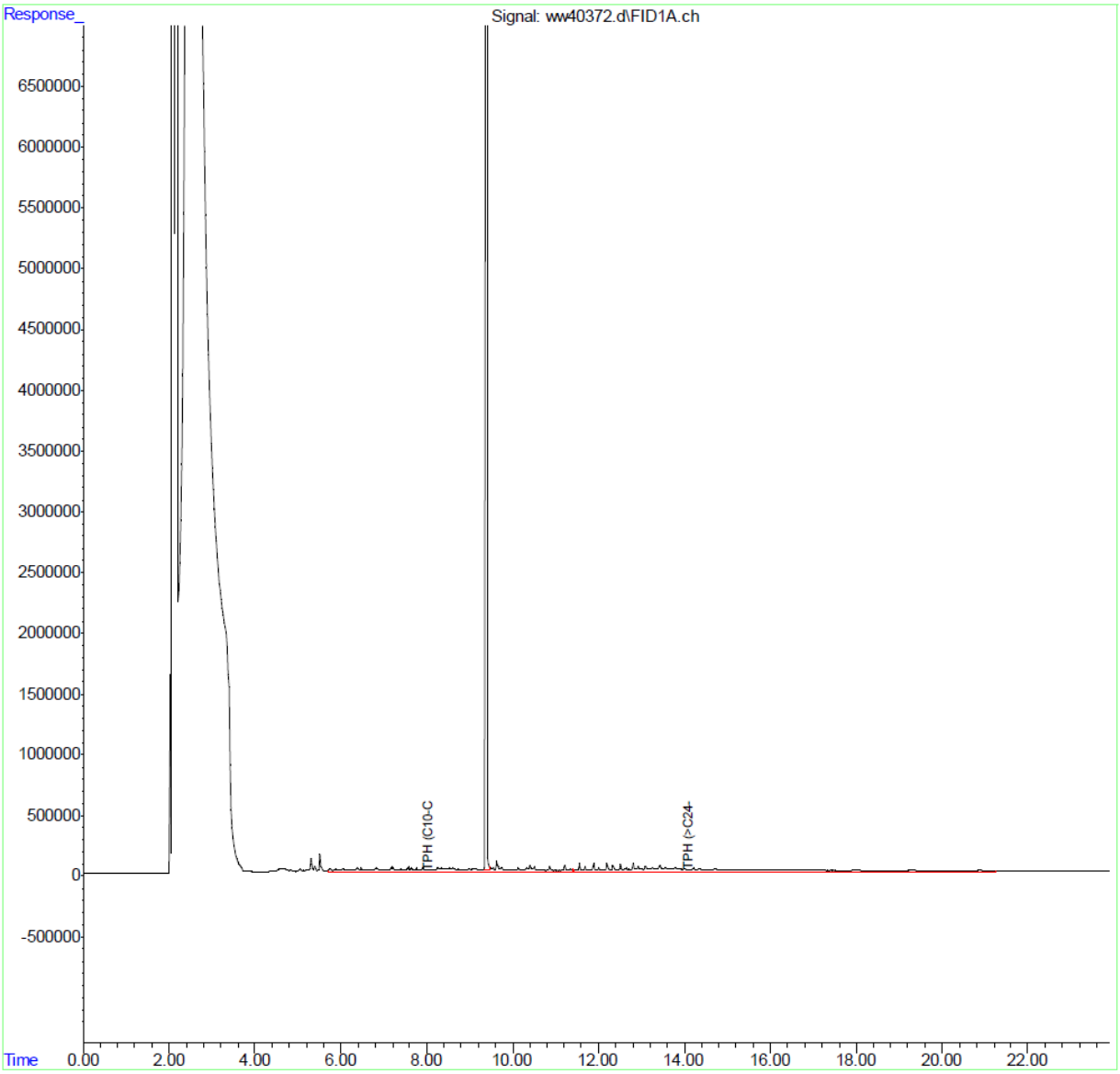
Results (ug/L): **TPH-d SGC (C10 to C24) <141 U** **TPH-o SGC (C24 to C40) <141 U**



Method Blank Associated with SDG FC7026

Sample ID: RHP04B-WGN01LF-2306WK2, RHP07-WGN01LF-2306WK2
Sample Date: 6/14/23, 6/15/23
Lab: SGS

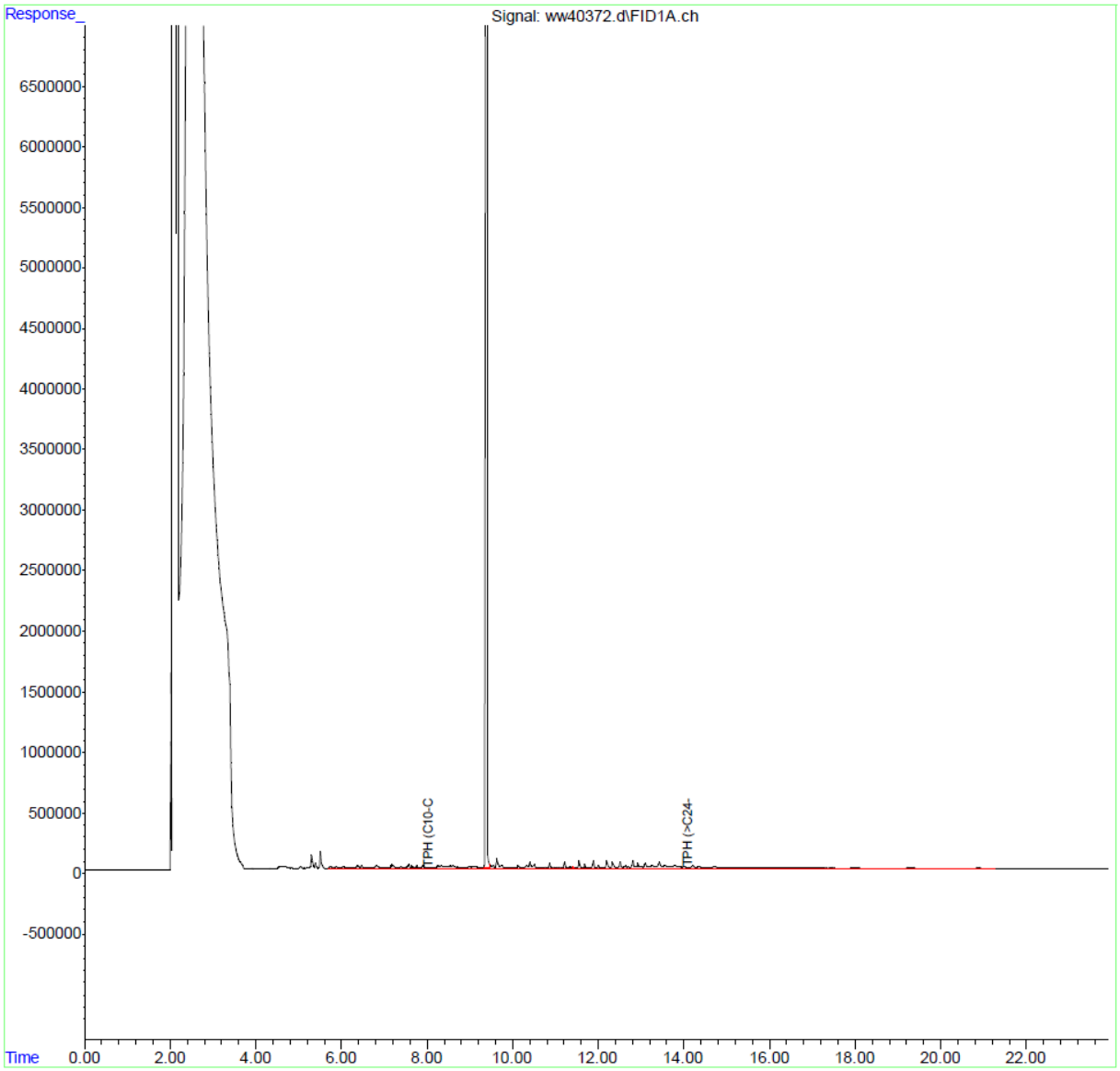
```
Quant Time: Jun 22 11:11:32 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_080922_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Wed Aug 10 09:31:47 2022
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Method Blank Associated with SDG FC7026

Sample ID: RHMW02-WGN01LF-2306WK2, RHMW05-WGN01LF-2306WK2, RHMW17-WGFD01LF-2306WK2, RHMW17-WGN01LF-2306WK2
Sample Date: 6/15/23
Lab: SGS

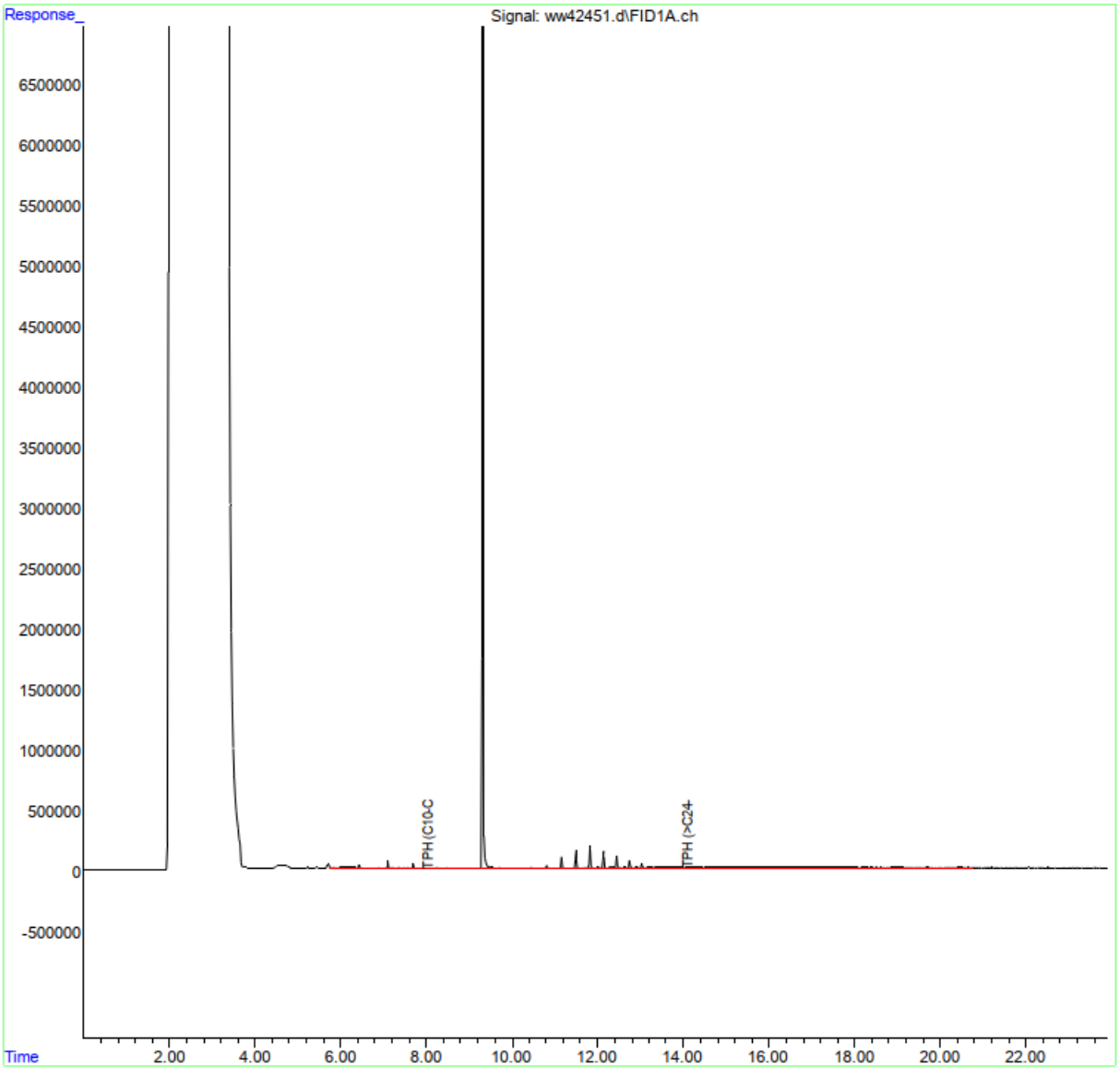
```
Quant Time: Jun 22 11:11:32 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_080922_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Wed Aug 10 09:31:47 2022
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Method Blank Associated with SDG FC9377

Sample ID: RHMW01R-WGN01LF-2309
Sample Date: 9/5/2023
Lab: SGS

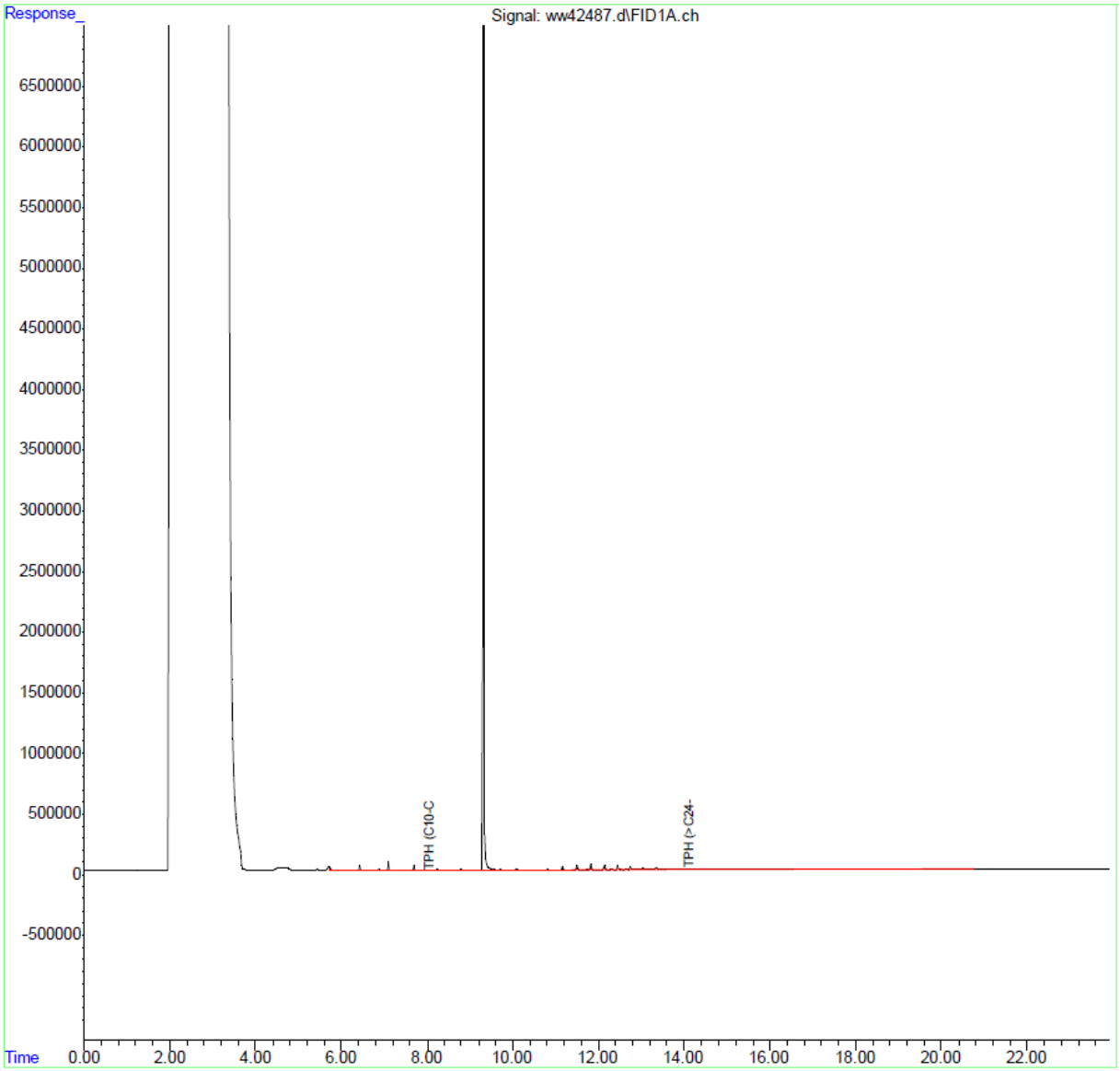
```
Quant Time: Sep 15 10:45:20 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Method Blank Associated with SDG FC9446

Sample ID: RHMW02-WGN01LF-2309
Sample Date: 9/7/2023
Lab: SGS

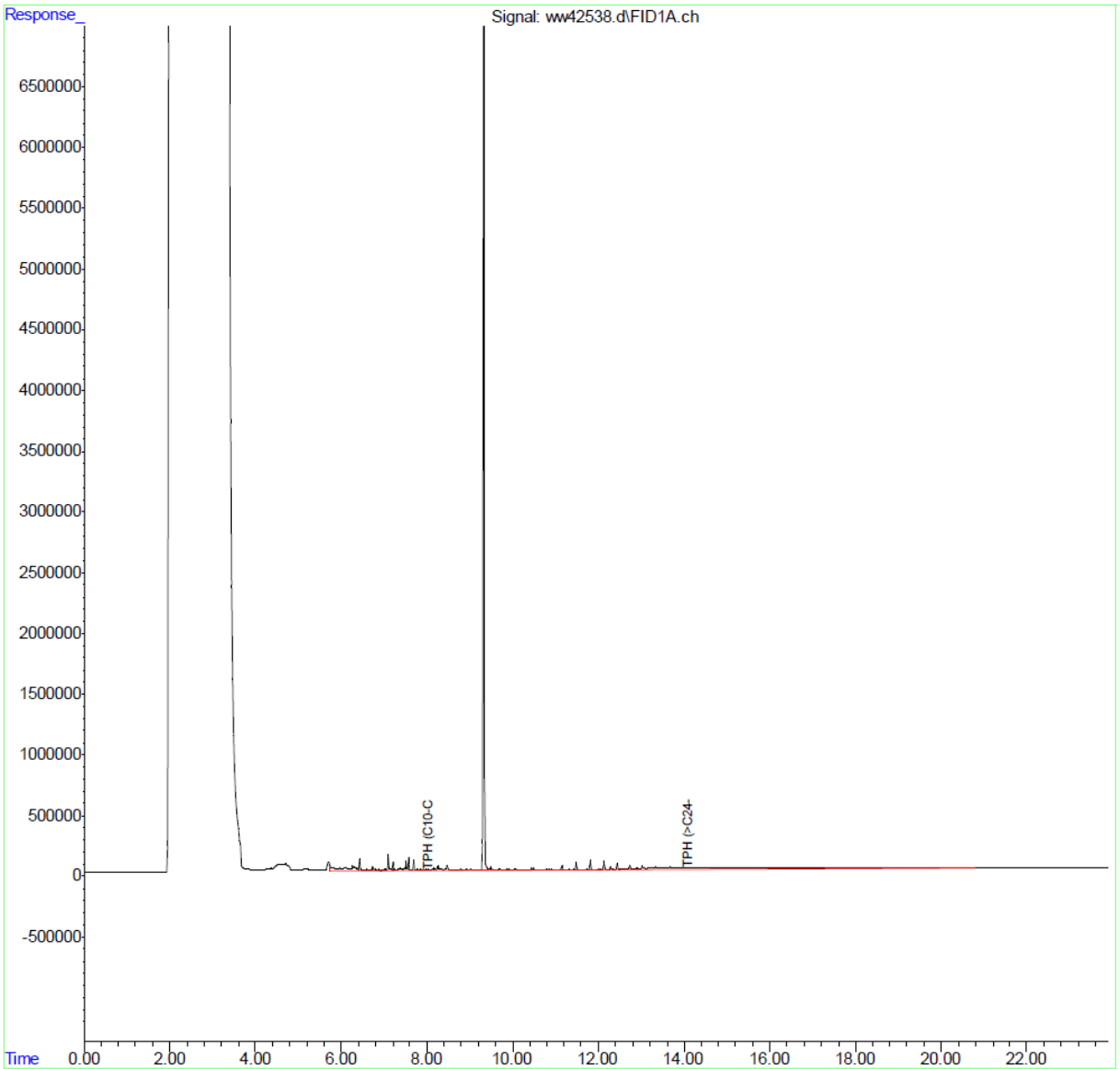
```
Quant Time: Sep 16 14:58:03 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Method Blank Associated with SDG FC9542

Sample ID: RHP04B-WGN01LF-2309
Sample Date: 9/11/2023
Lab: SGS

```
Quant Time: Sep 18 10:03:29 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

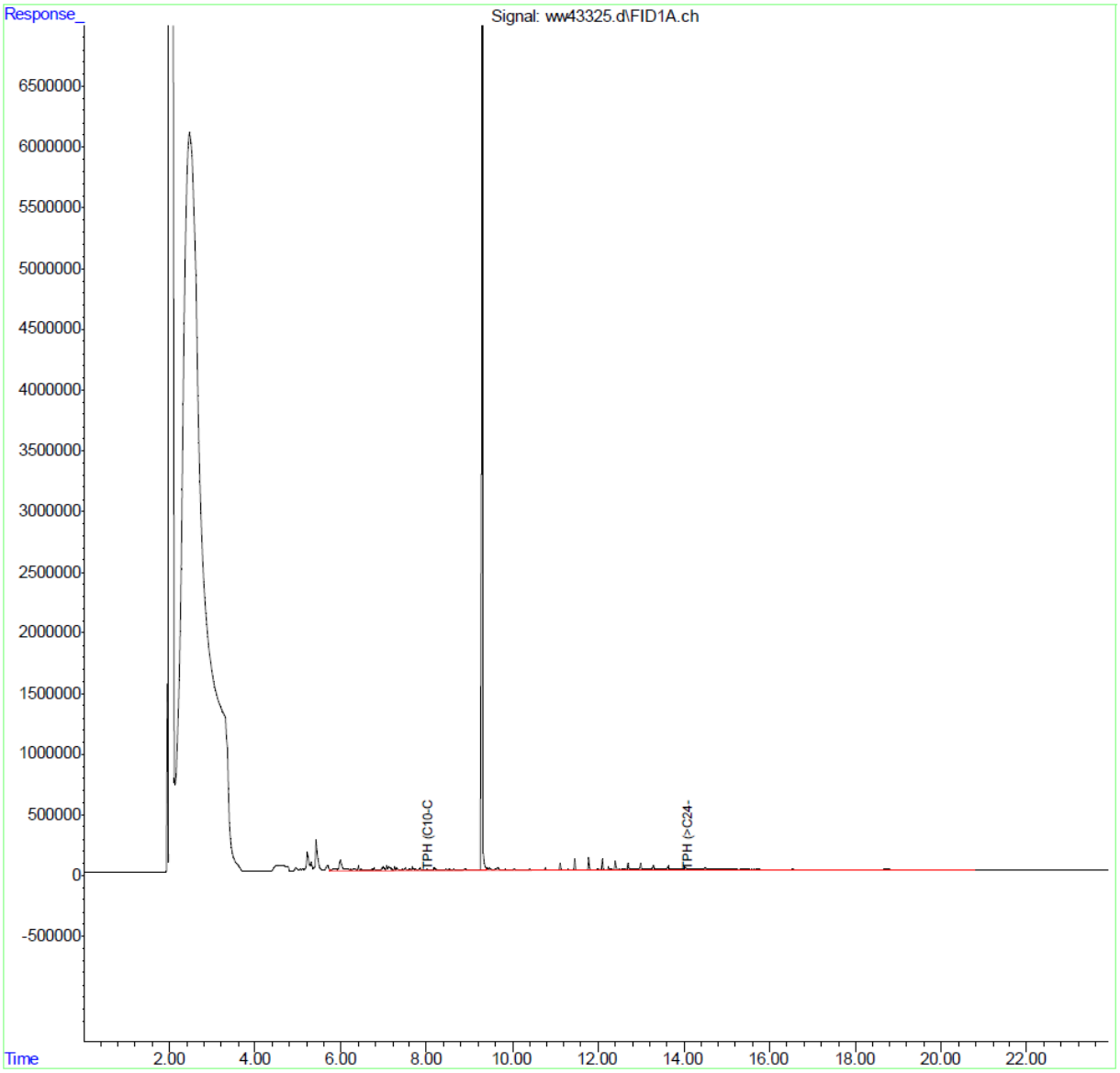


Method Blank Associated with SDG FC10295

Sample ID: RHMW01R-WGN01LF-2310, RHMW19-WGN01LF-2310

Sample Date: 10/4/23, 10/5/23
Lab: SGS

```
Quant Time: Oct 16 09:56:46 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

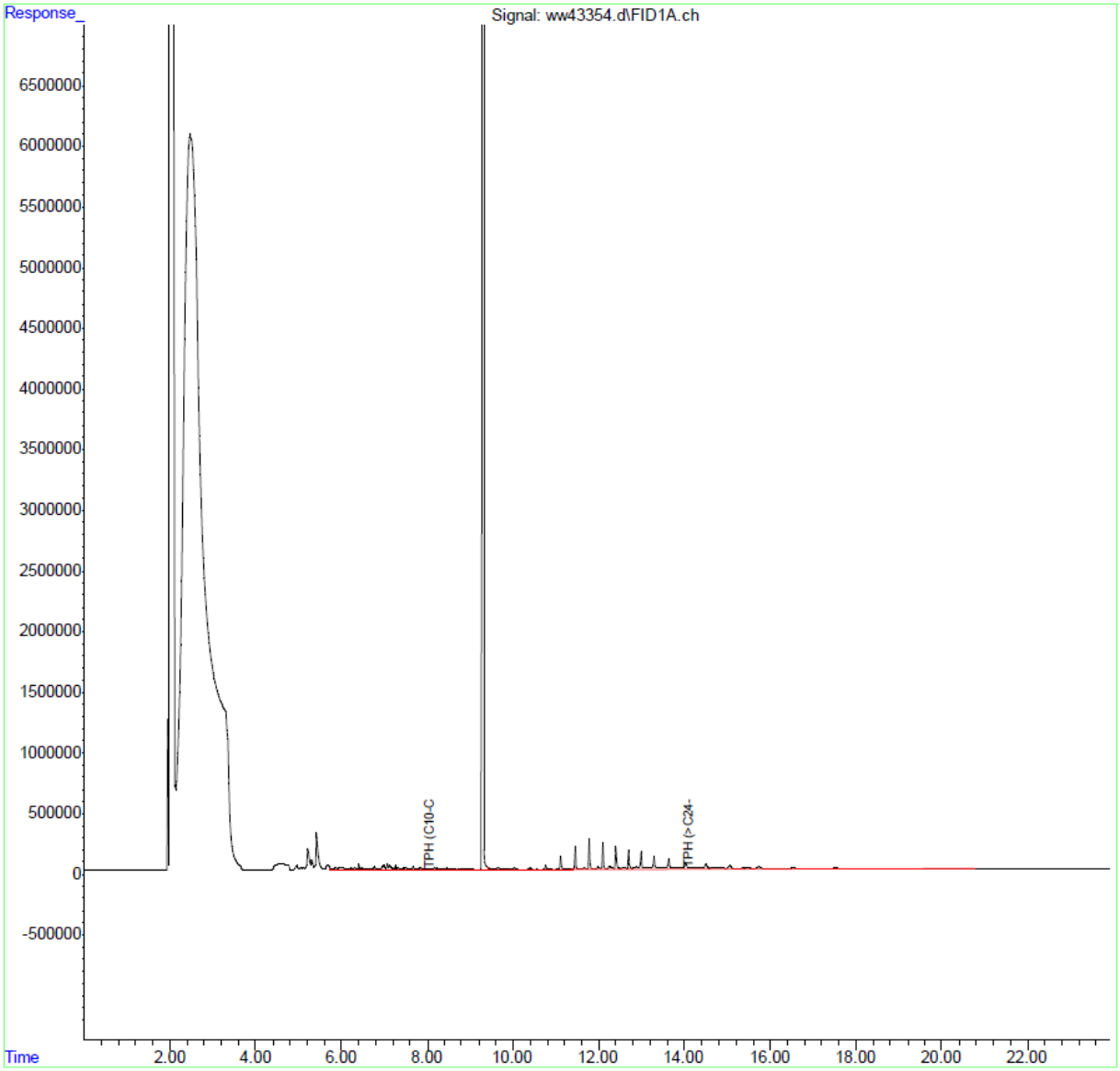


Method Blank Associated with SDG FC10336

Sample ID: RHMW02-WGN01LF-2310, RHMW04-WGN01LF-2310, RHMW13-05-WGN01G-2310

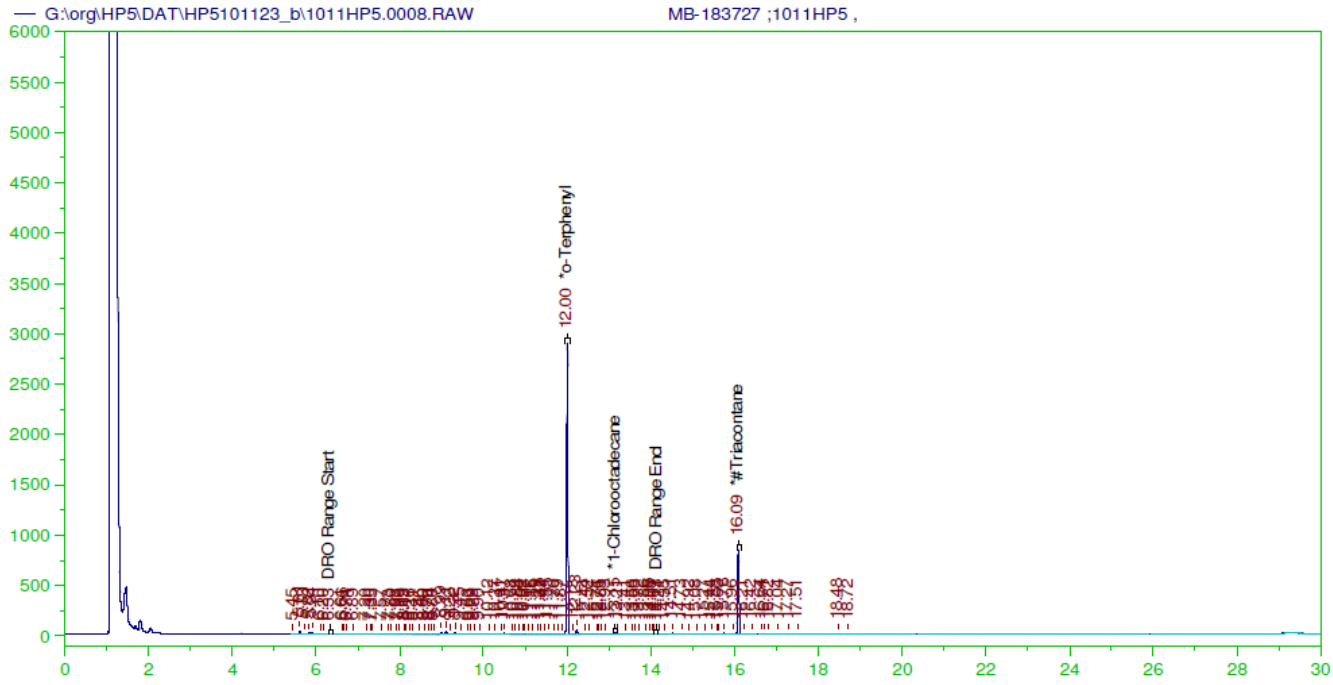
Sample Date: 10/5/23, 10/6/23
Lab: SGS

```
Quant Time: Oct 16 11:56:04 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



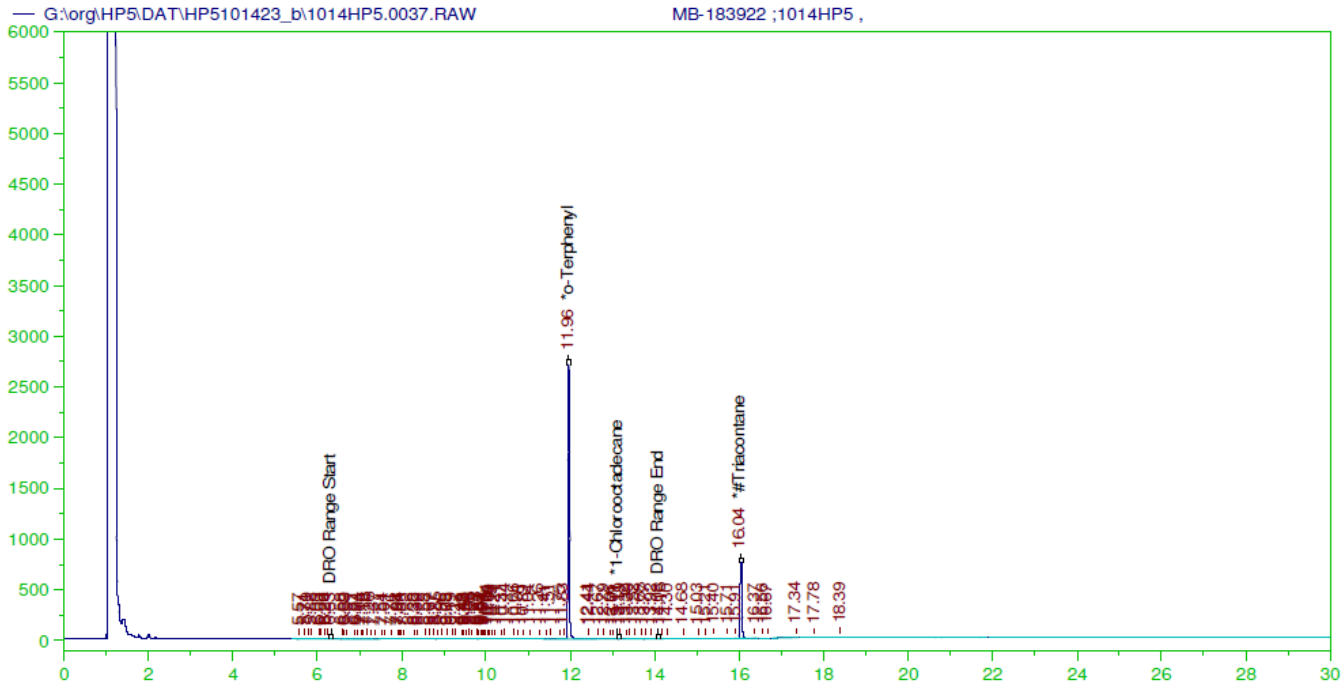
Method Blank Associated with SDG B231000745

Sample ID: NMW33-WGN01LF-23Q4, RHMW03-WGN01LF-23Q4
Sample Date: 10/9/2023
Lab: Energy



Method Blank Associated with SDG B23101113

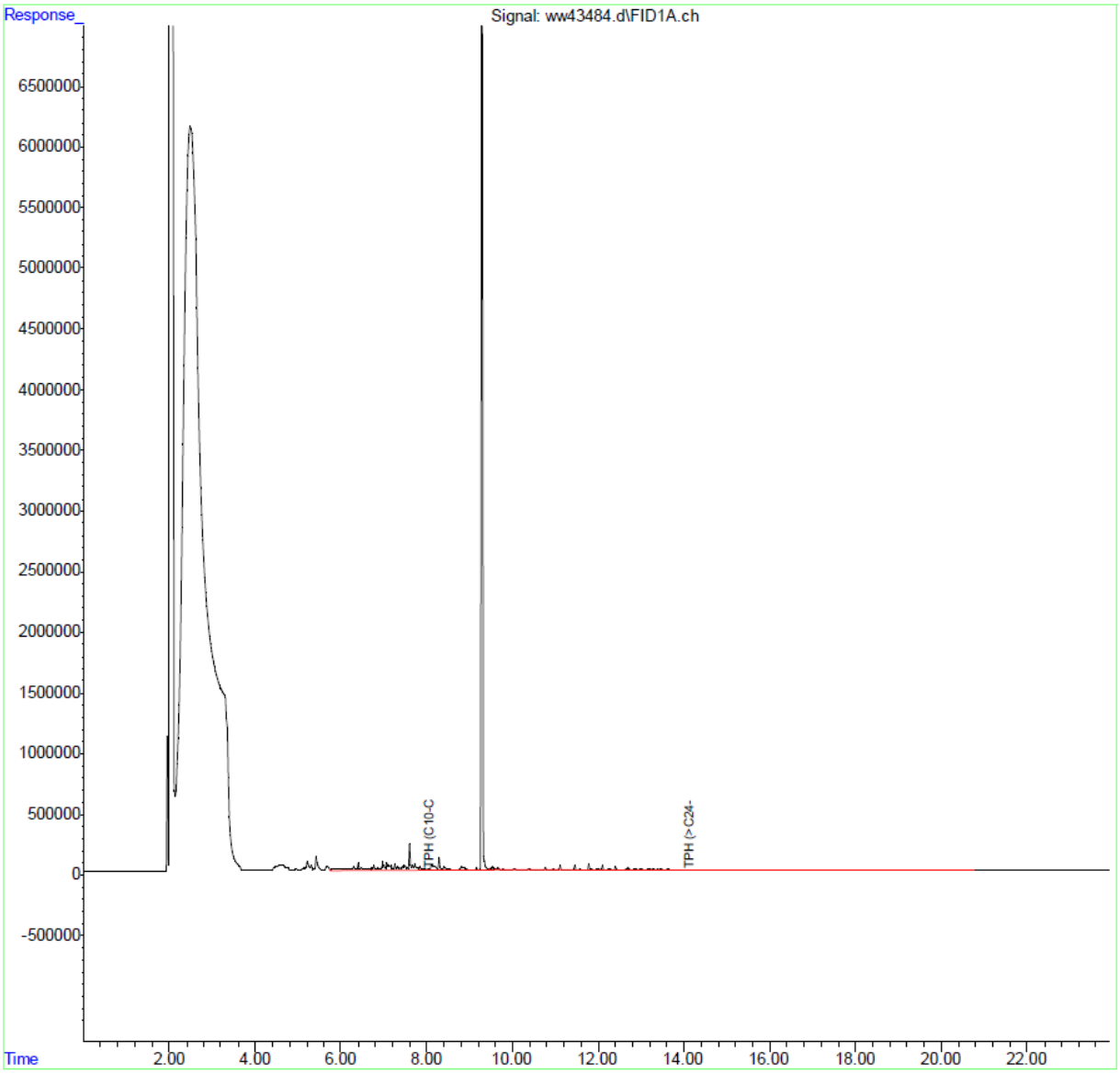
Sample ID: RHMW13-04-WGN01G-23Q4, RHMW2254-01-WGN01LF-23Q4, RHP04B-WGN01LF-23Q4
Sample Date: 10/10/2023, 10/12/2023
Lab: Energy



Method Blank Associated with SDG FC10534

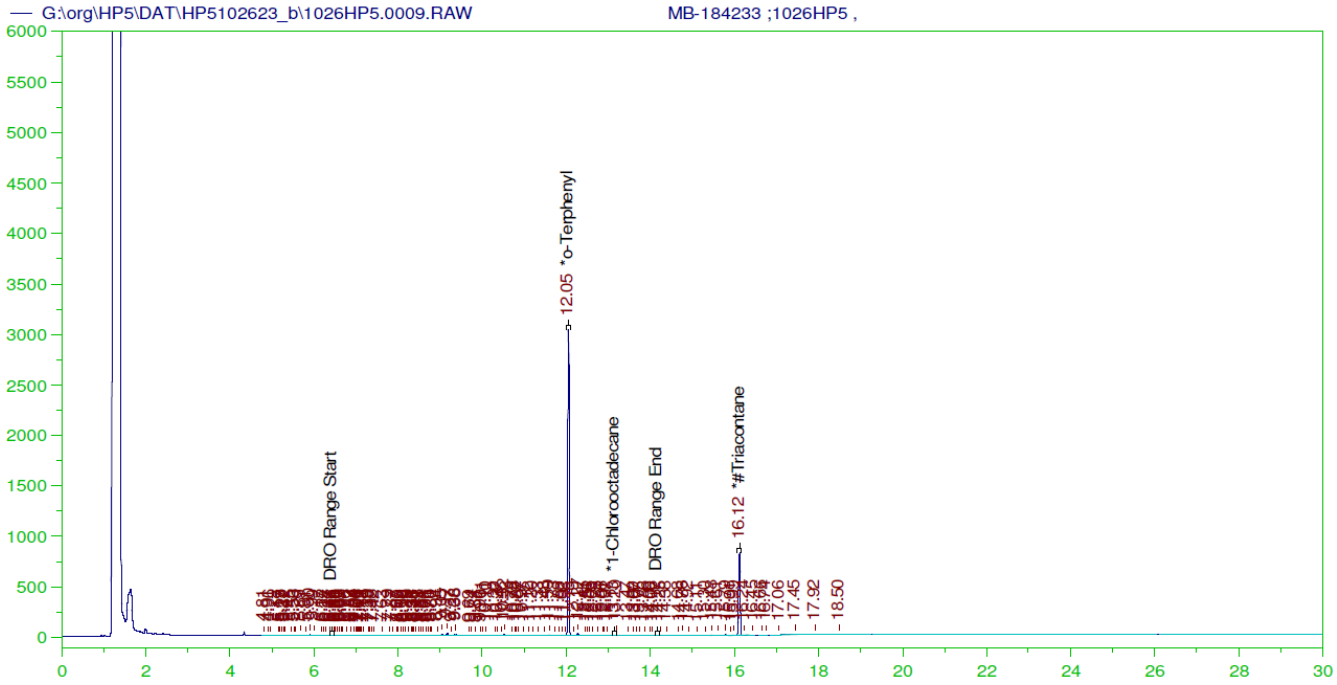
Sample ID: RHMW01R-WGN01LF-2310WK3-DF
Sample Date: 10/17/2023
Lab: SGS

```
Quant Time: Oct 19 12:37:13 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Method Blank Associated with SDG B23101659

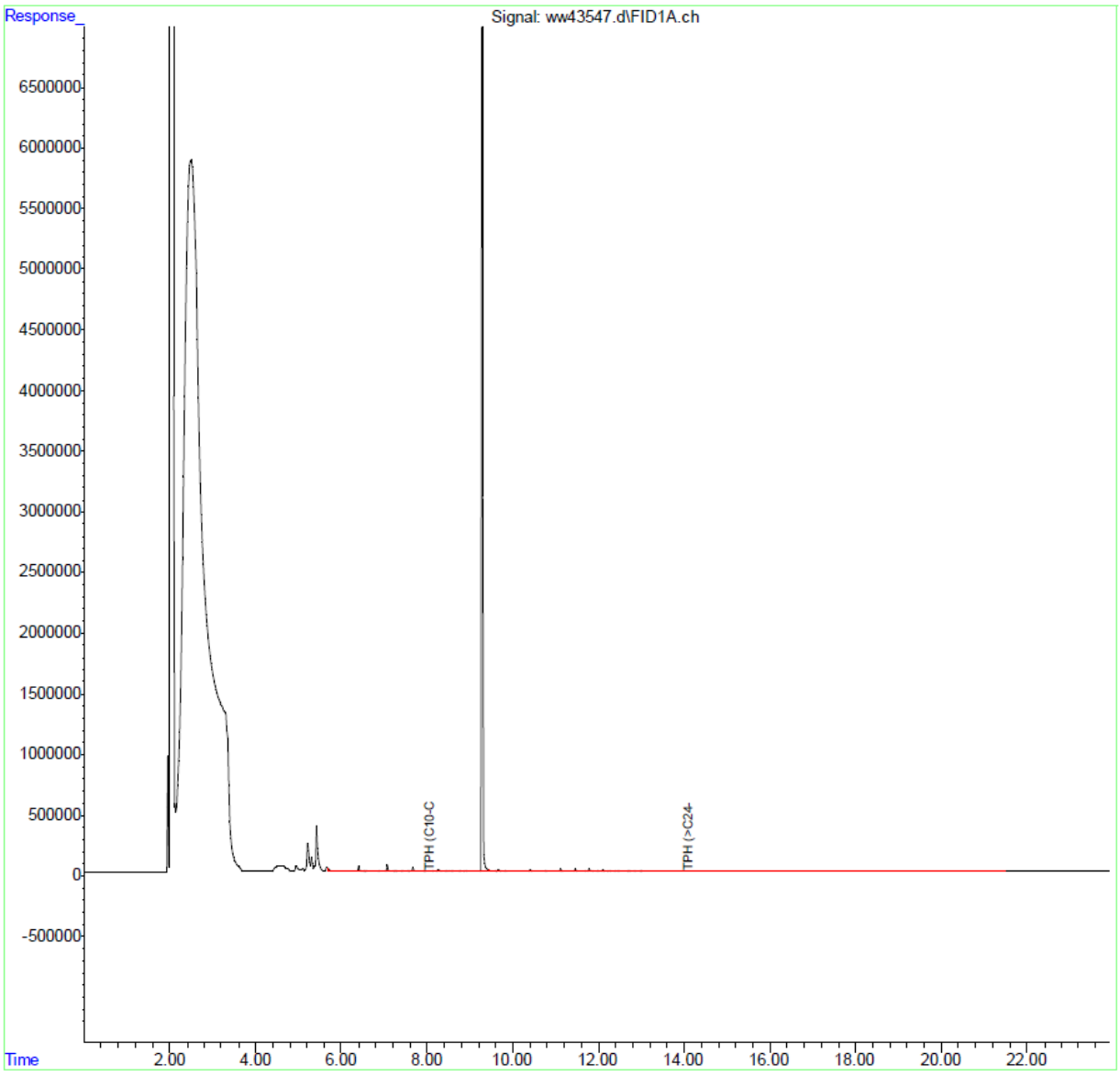
Sample ID: NMW30-WGN01LF-23Q4
Sample Date: 10/19/2023
Lab: Energy



Method Blank Associated with SDG FC10638

Sample ID: RHMW02-WGN01LF-2310WK3-DF, RHMW02-WGFD01LF-2310WK3-DF
Sample Date: 10/20/2023
Lab: SGS

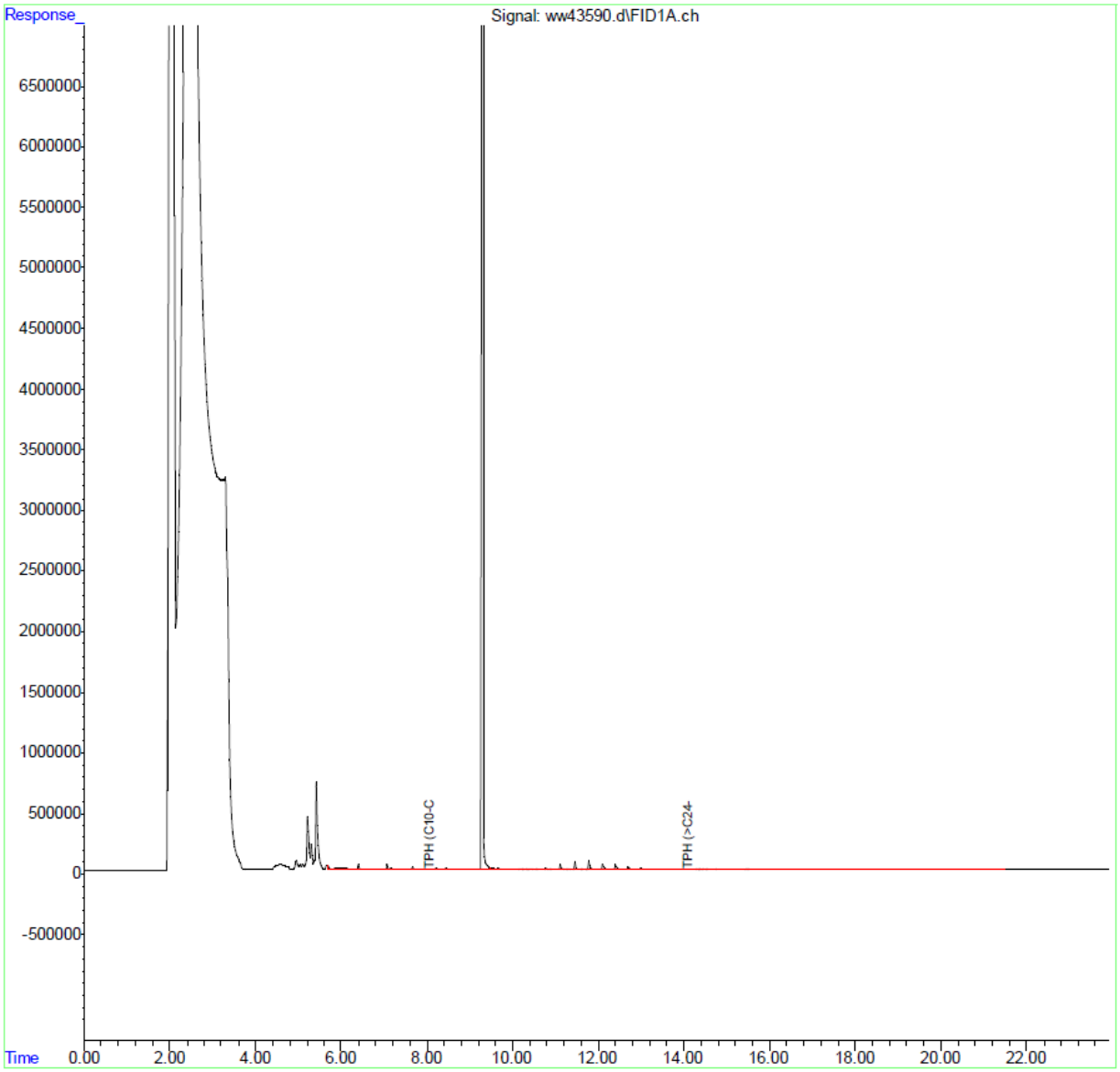
```
Quant Time: Oct 24 10:20:47 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Method Blank Associated with SDG FC10716

Sample ID: RHMW14-03-WGN01G-2310WK4-DF, RHMW01R-WGN01LF-2310WK4-DF
Sample Date: 10/24/2023
Lab: SGS

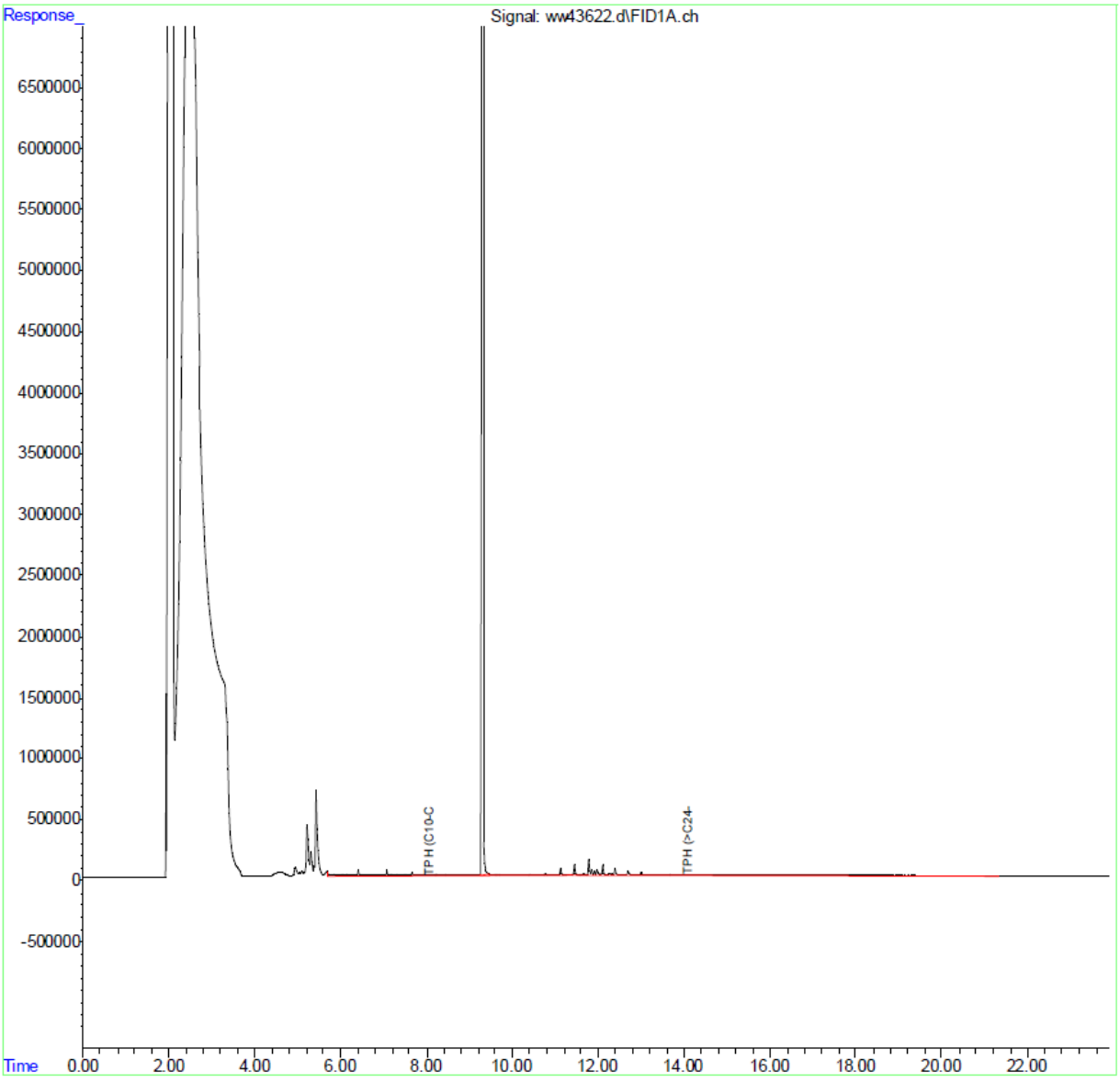
```
Quant Time: Oct 27 10:05:49 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Method Blank Associated with SDG FC10745

Sample ID: RHMW17-WGN01LF-2310WK4-DF
Sample Date: 10/25/2023
Lab: SGS

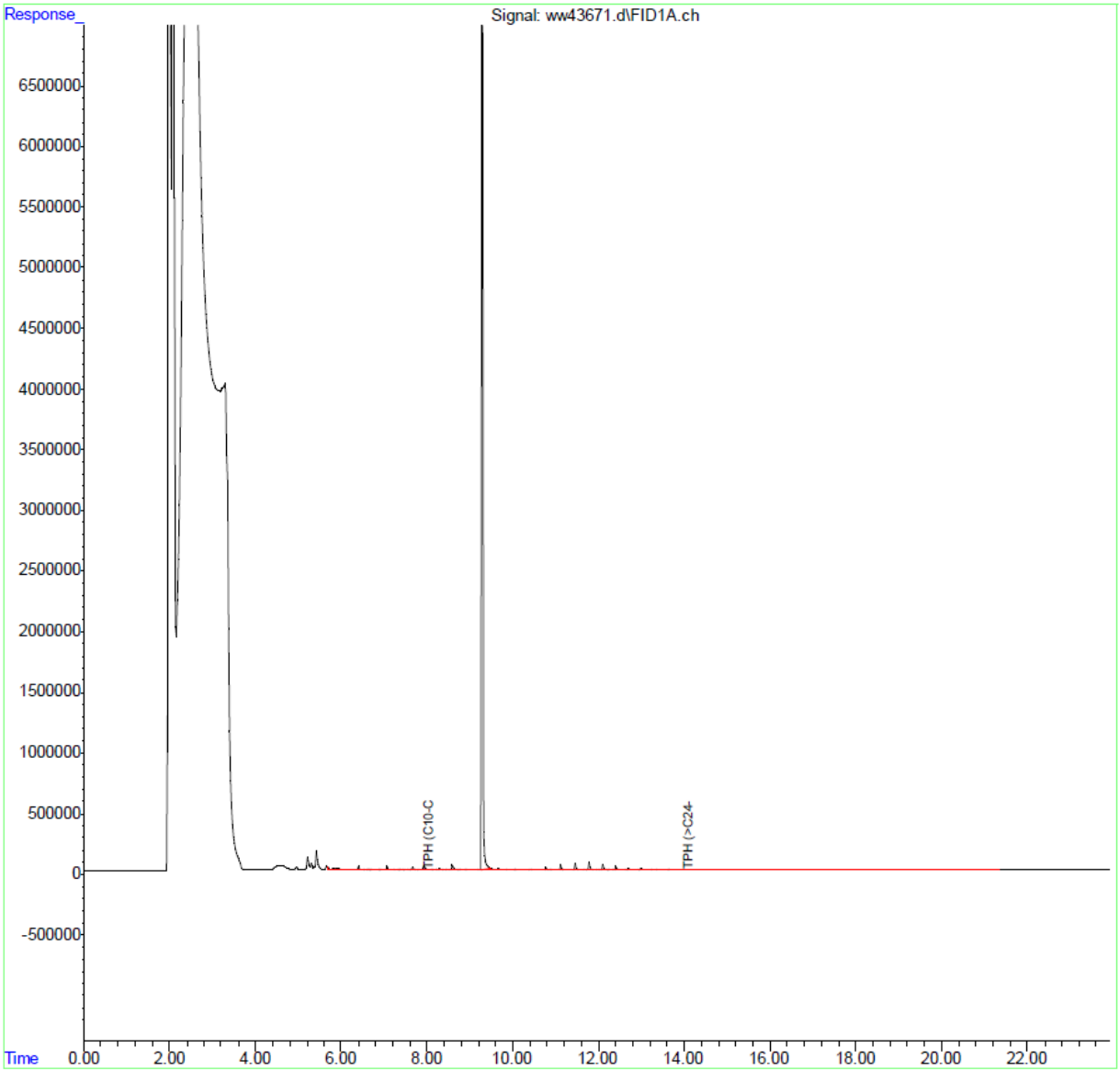
```
Quant Time: Oct 28 10:34:55 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Method Blank Associated with SDG FC10809

Sample ID: RHMW02-WGN01LF-2310WK4-DF, RHMW02-WGFD01LF-2310WK4-DF
Sample Date: 10/27/2023
Lab: SGS

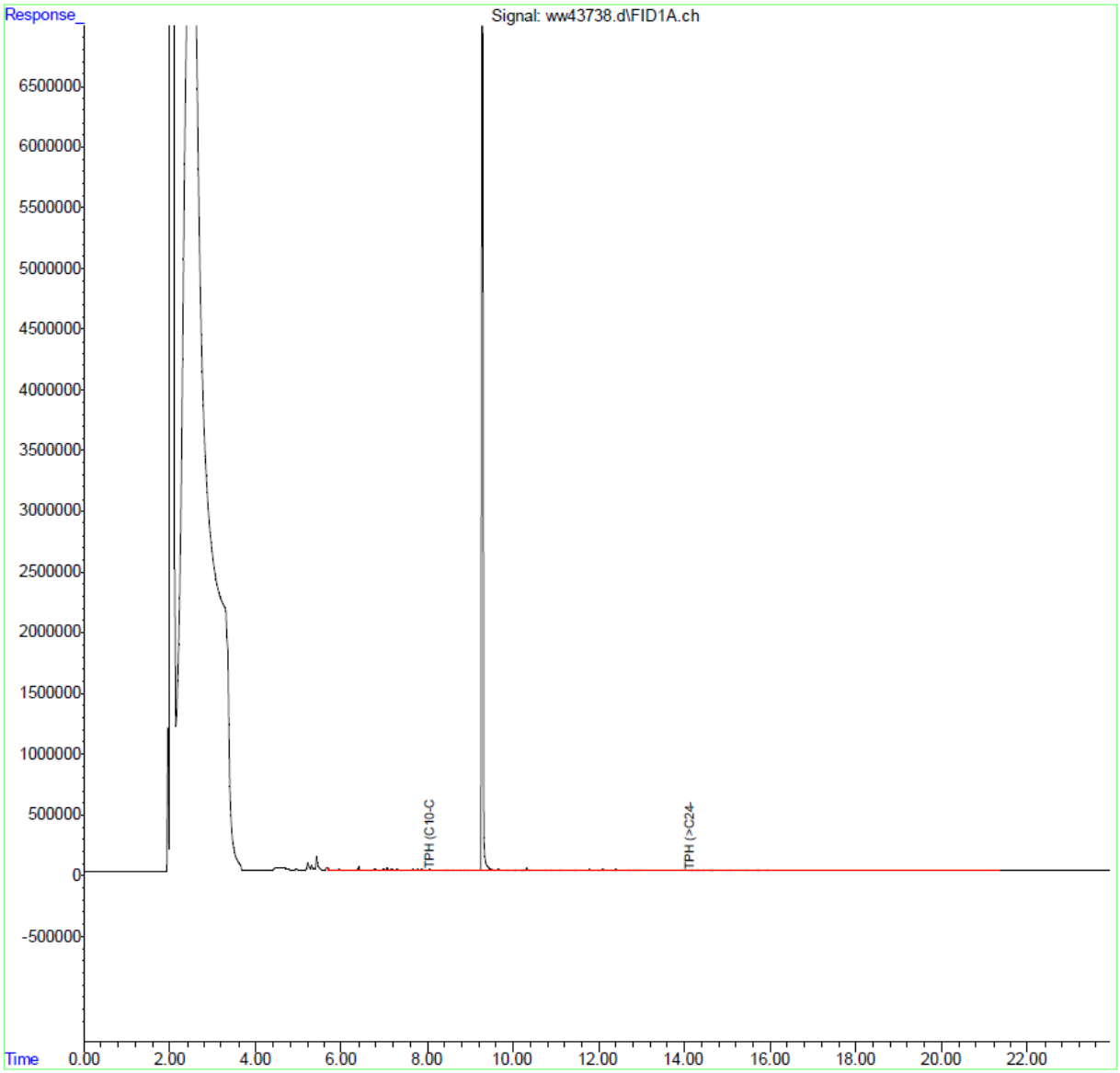
```
Quant Time: Oct 30 14:50:46 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Method Blank Associated with SDG FC10882

Sample ID: RHMW01R-WGN01LF-2310WK5-DF
Sample Date: 10/31/2023
Lab: SGS

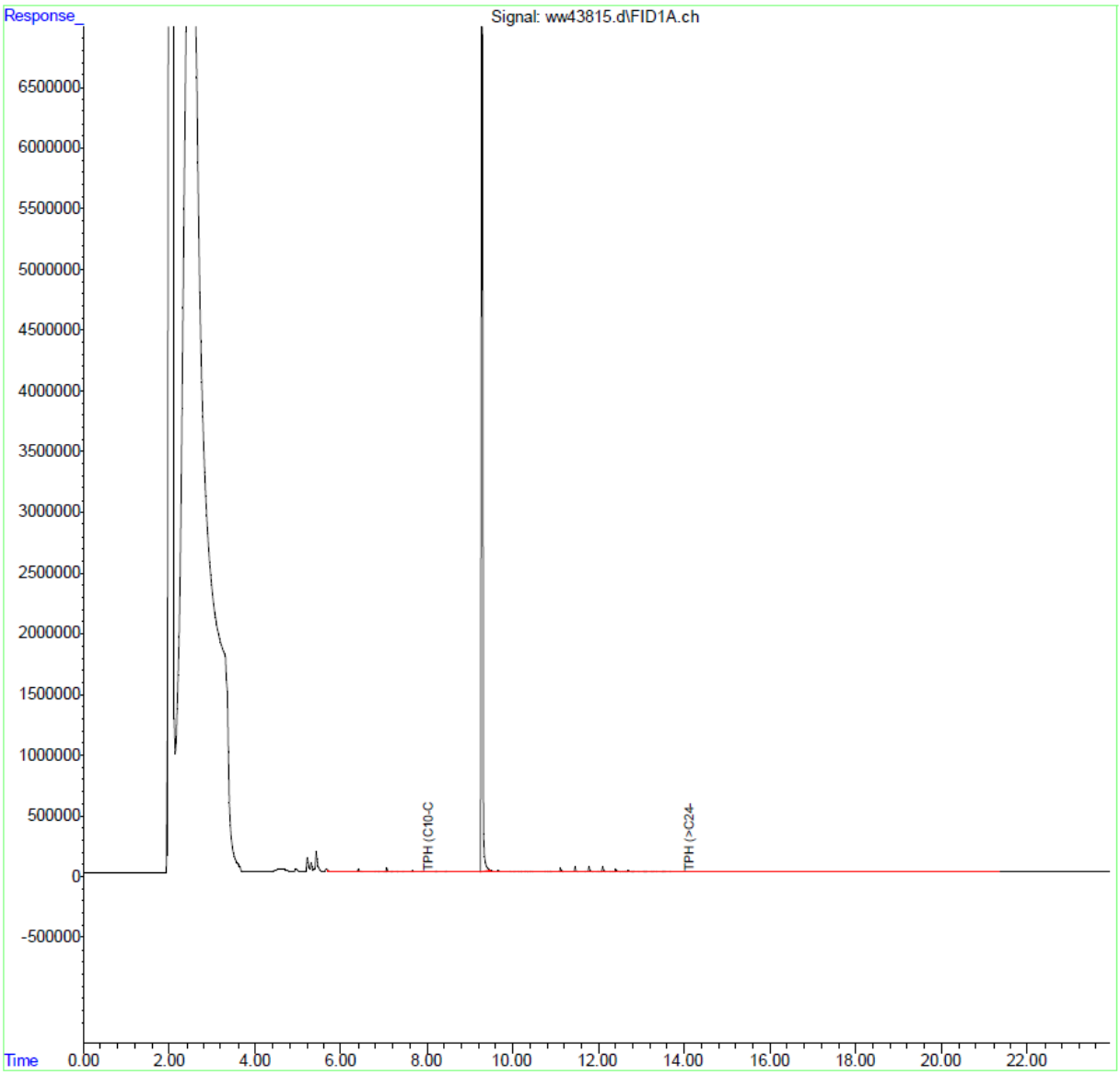
```
Quant Time: Nov 02 13:36:37 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Method Blank Associated with SDG FC10974

Sample ID: RHMW02-WGN01LF-2310WK5-DF, RHMW02-WGFD01LF-2310WK5-DF
Sample Date: 11/3/2023
Lab: SGS

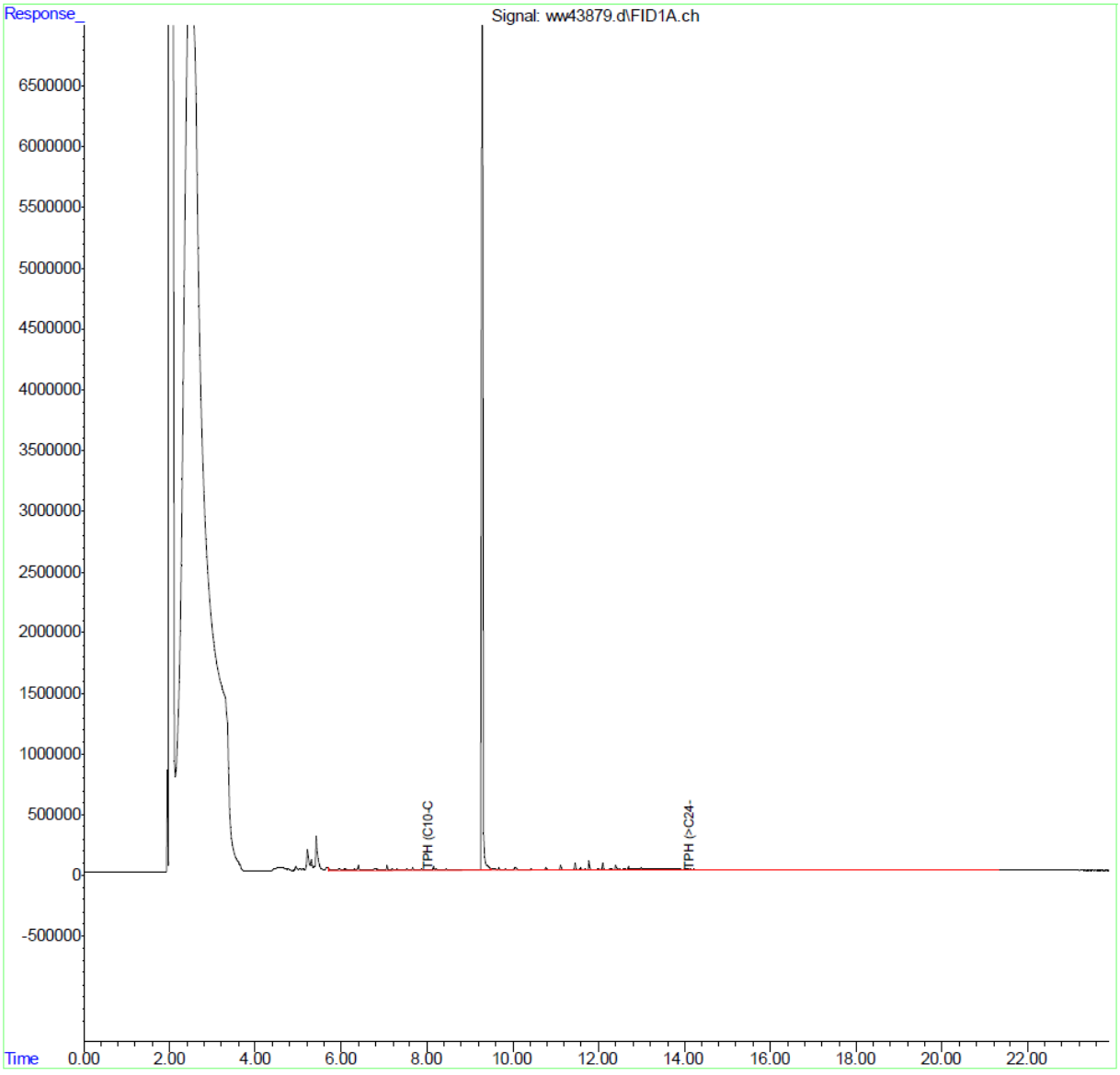
```
Quant Time: Nov 06 07:38:23 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Method Blank Associated with SDG FC11019

Sample ID: RHMW01R-WGN01LF-2311-DF
Sample Date: 11/6/2023
Lab: SGS

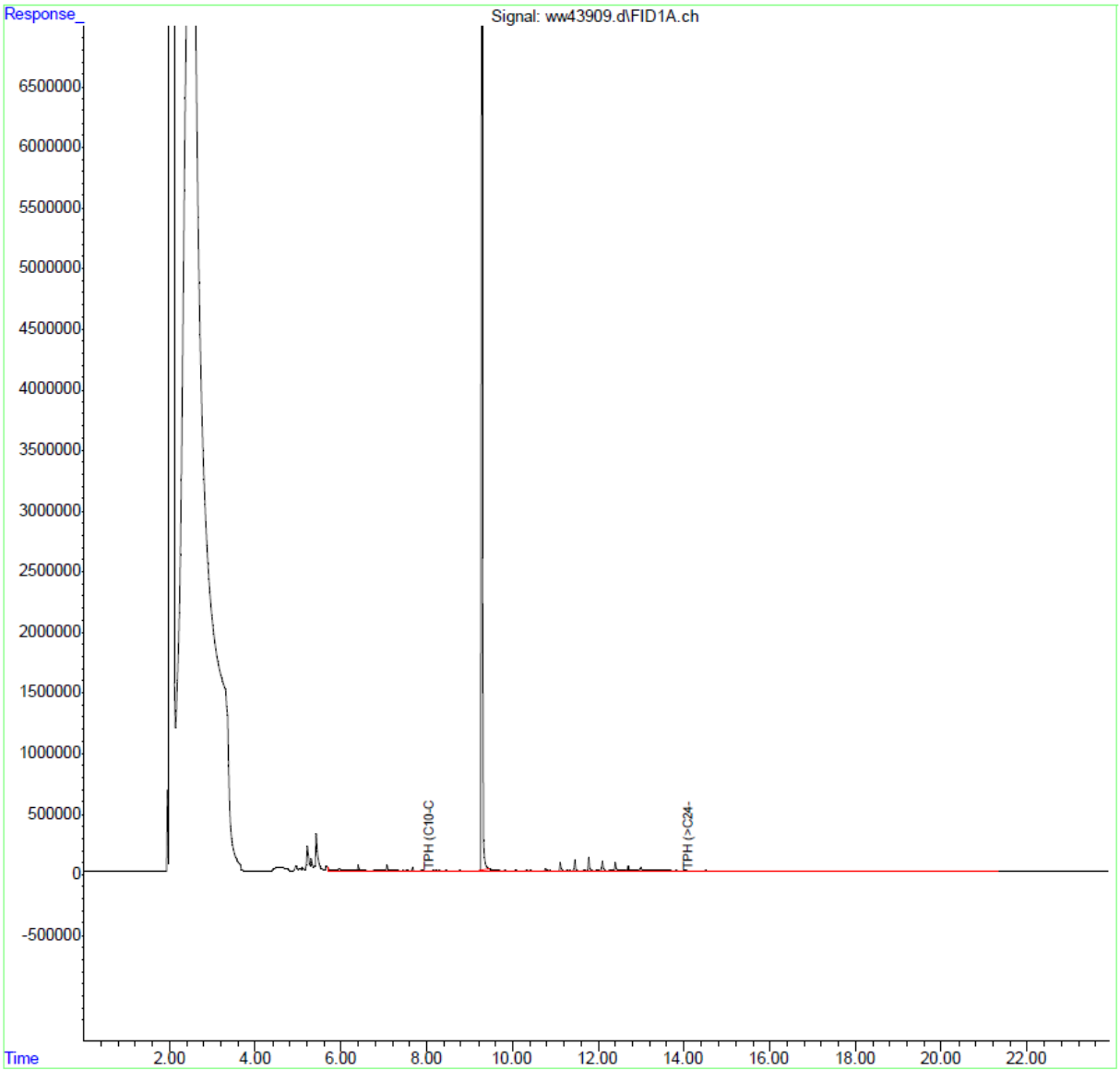
```
Quant Time: Nov 08 16:43:47 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Method Blank Associated with SDG FC11063

Sample ID: RHMW01R-WGN01LF-2311, RHMW02-WGFD01LF-2311-DF, RHMW02-WGN01LF-2311-DF
Sample Date: 11/7/2023
Lab: SGS

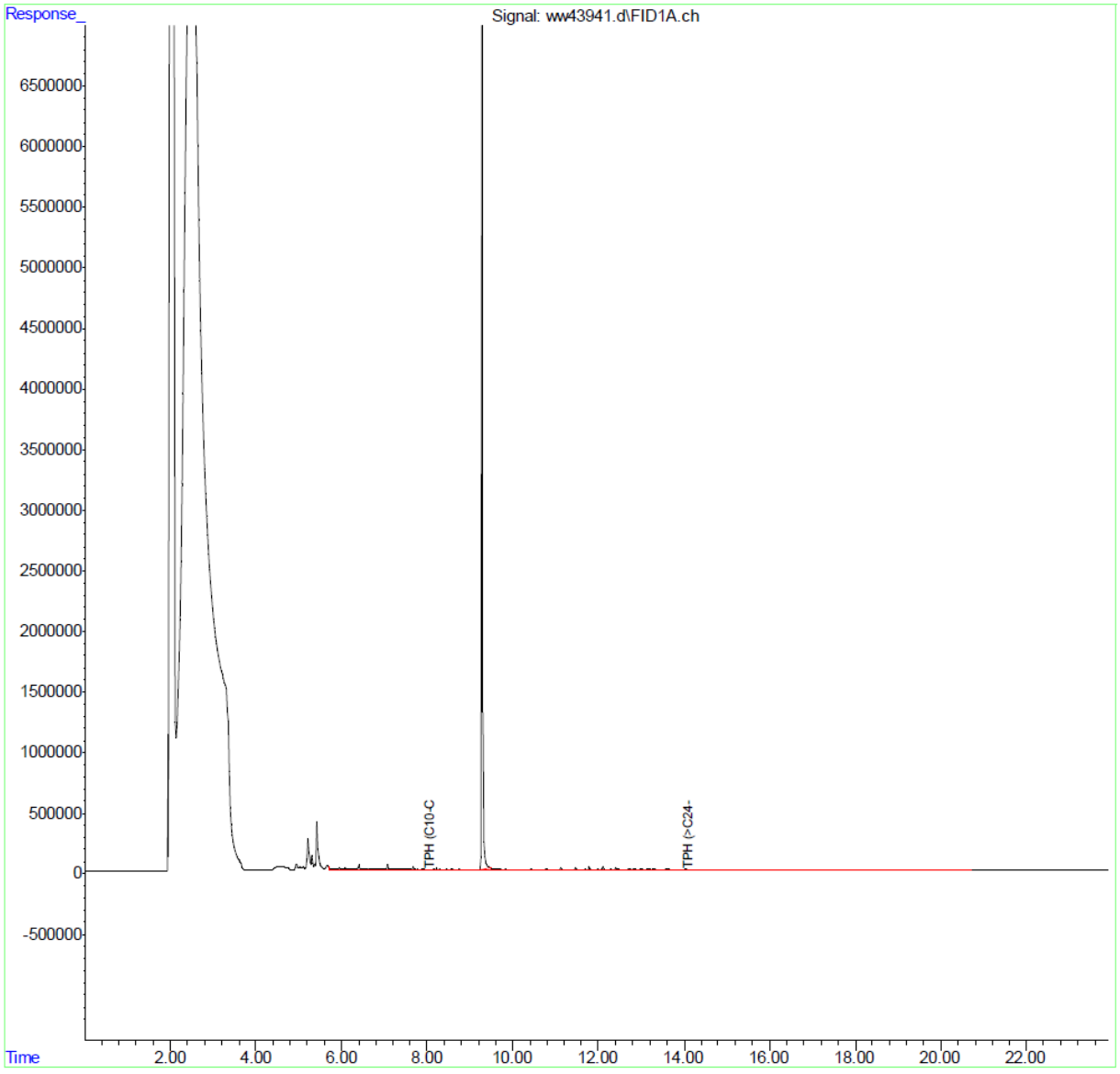
```
Quant Time: Nov 10 09:41:52 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Method Blank Associated with SDG FC11097

Sample ID: RHP02-WGN01LF-2311-DF
Sample Date: 11/8/2023
Lab: SGS

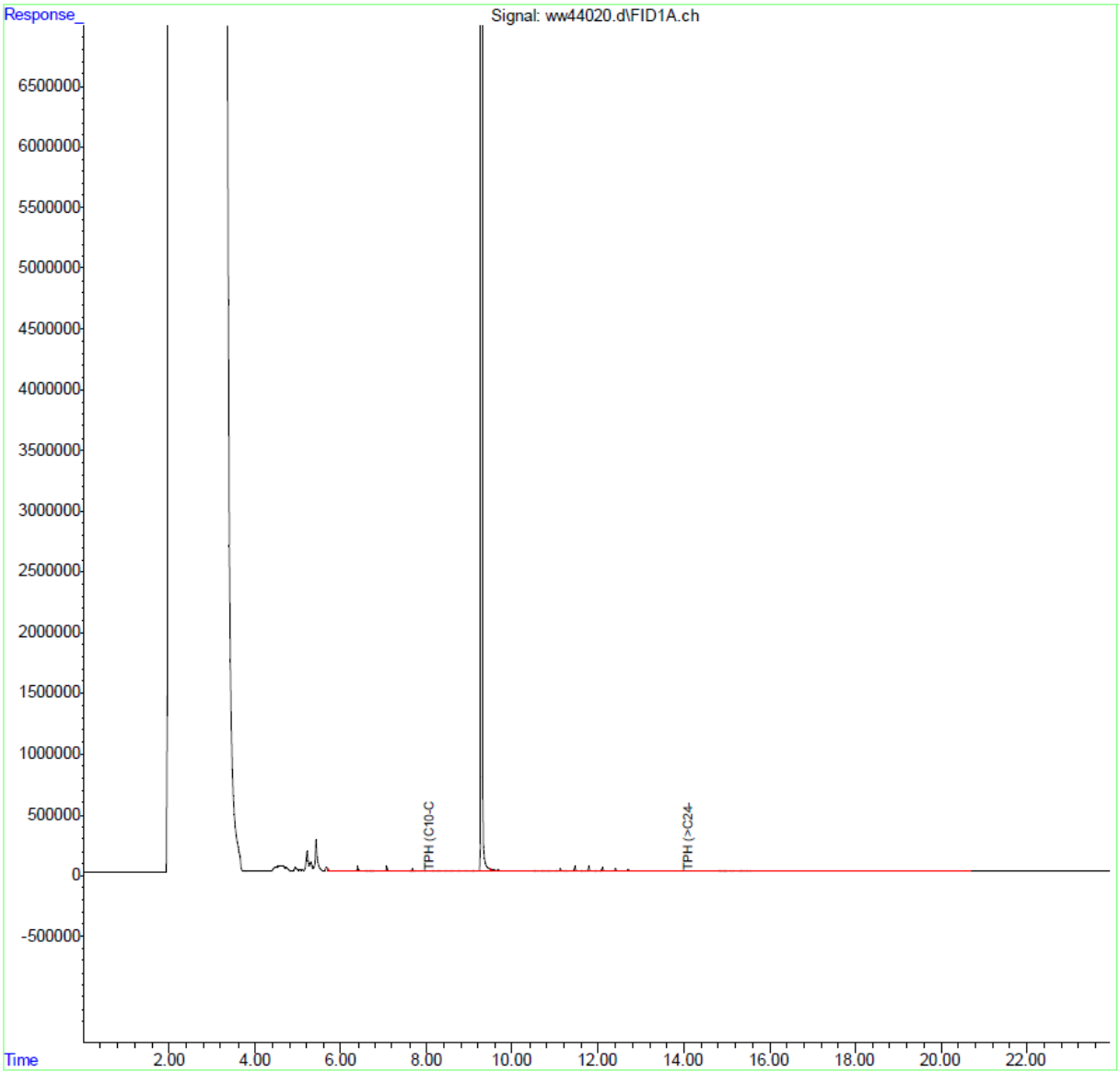
```
Quant Time: Nov 10 15:42:56 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Method Blank Associated with SDG FC11221

Sample ID: RHMW01R-WGN01LF-2311WK2-DF
Sample Date: 11/13/2023
Lab: SGS

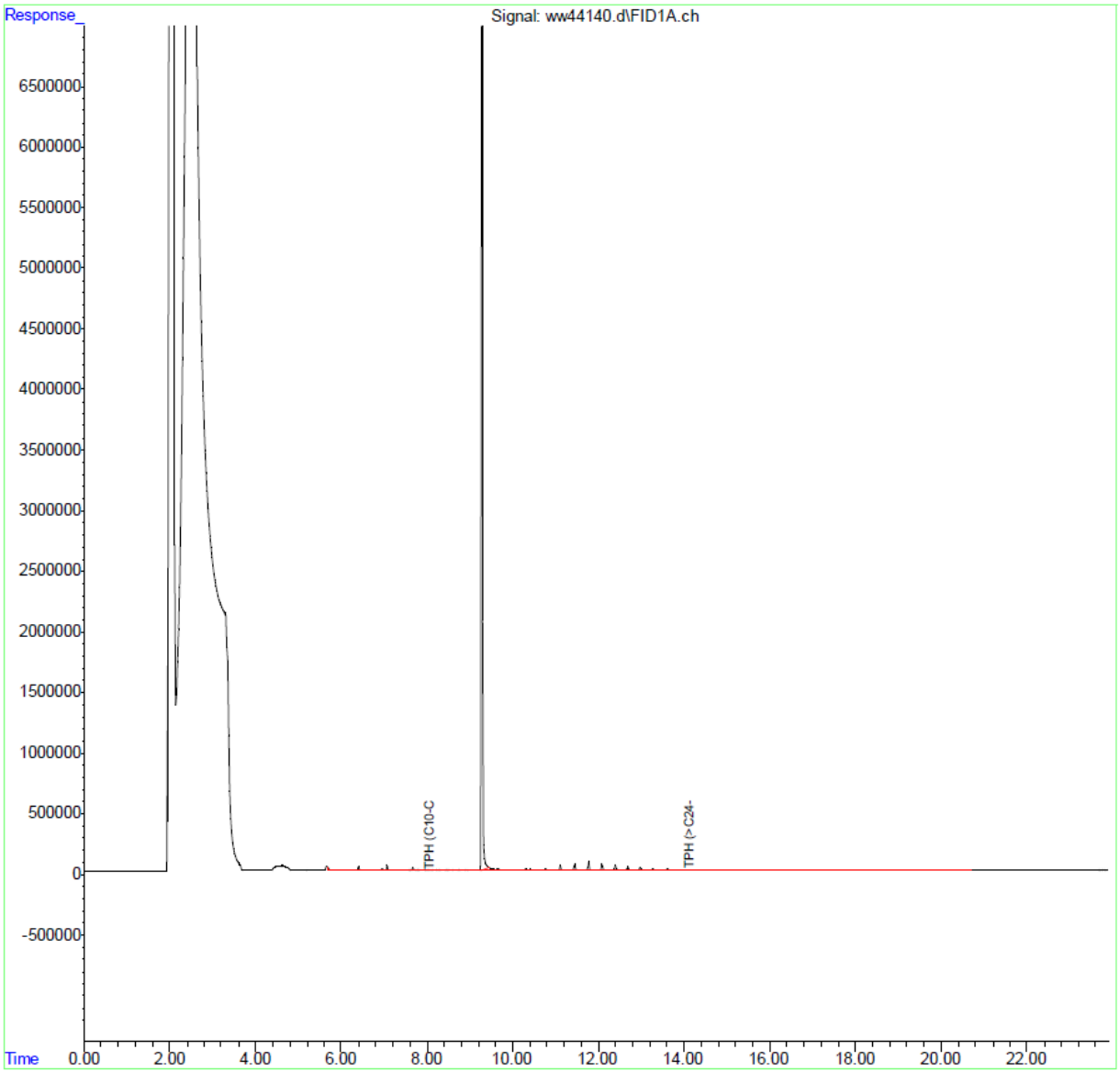
```
Quant Time: Nov 15 13:11:58 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Method Blank Associated with SDG FC11366

Sample ID: RHMW02-WGN01LF-2311WK2-DF, RHMW02-WGFD01LF-2311WK2-DF, RHMW03-WGN01LF-2311WK2-DF
Sample Date: 11/17/2023
Lab: SGS

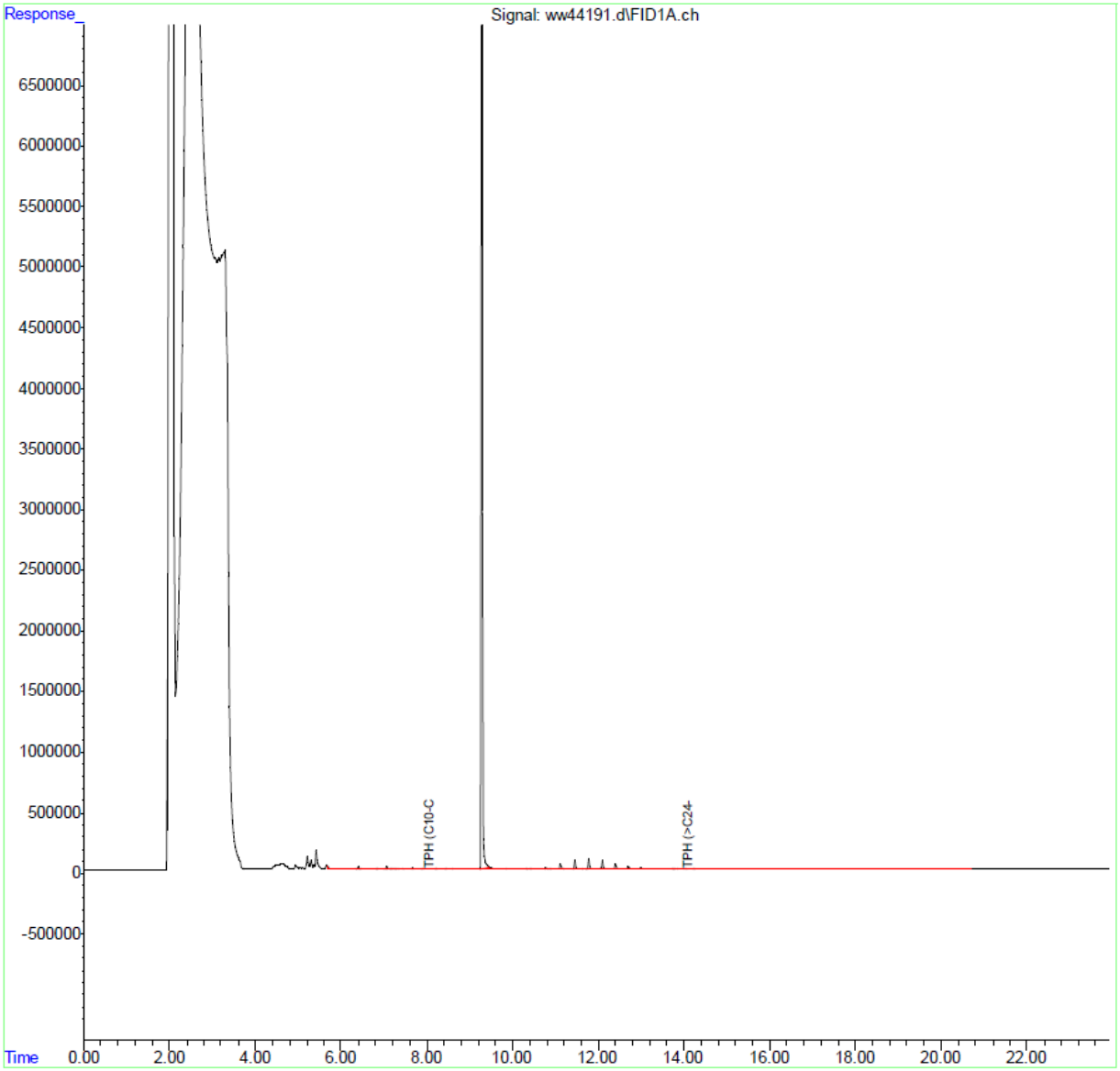
```
Quant Time: Nov 20 09:37:22 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Method Blank Associated with SDG FC11473

Sample ID: RHMW02-WGN01LF-2311WK3-DF, RHMW02-WGFD01LF-2311WK3-DF, RHMW03-WGN01LF-2311WK3-DF
Sample Date: 11/21/2023
Lab: SGS

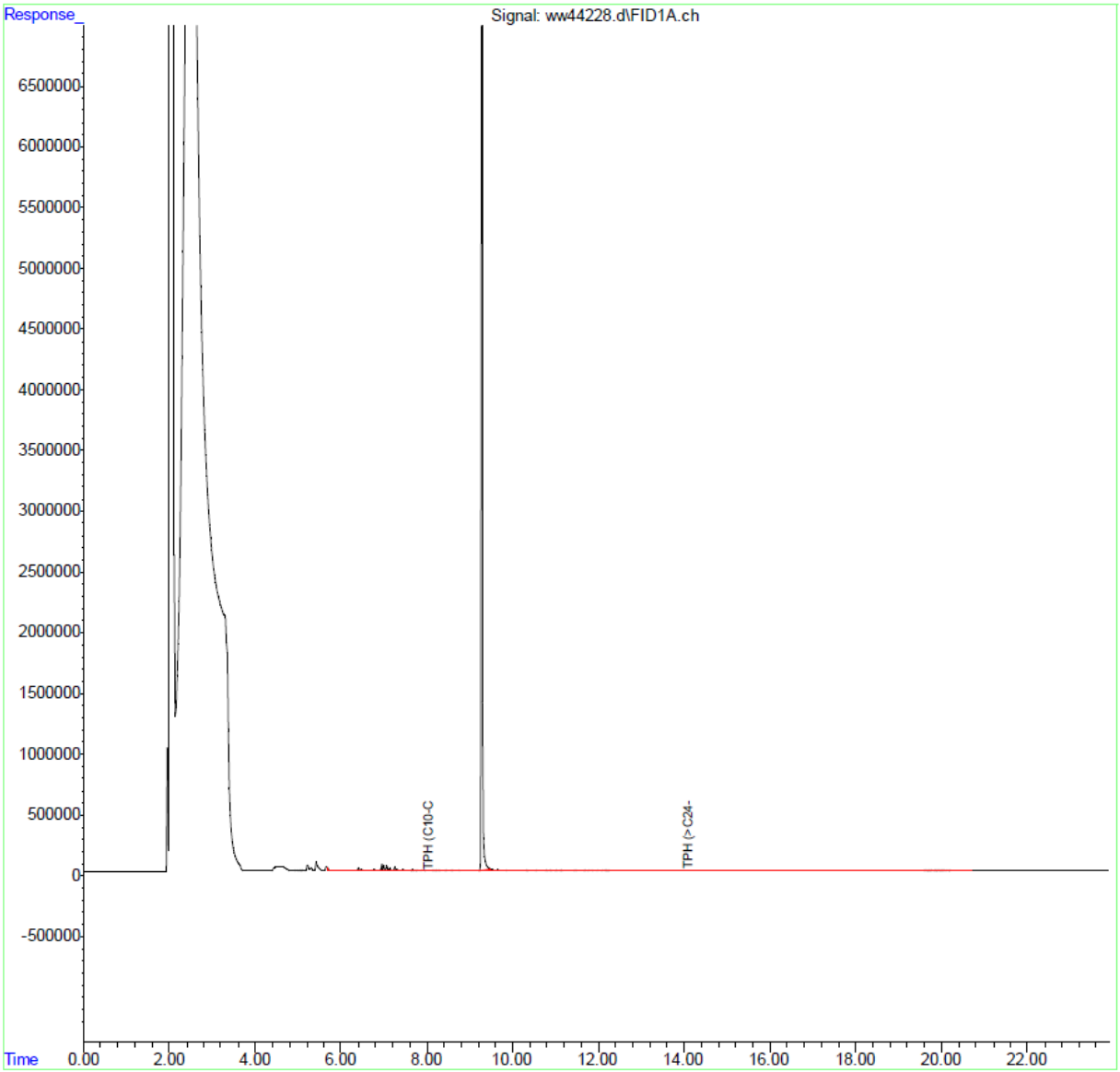
```
Quant Time: Nov 24 08:38:11 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Method Blank Associated with SDG FC11474

Sample ID: RHP02-WGN01LF-2311WK3-DF
Sample Date: 11/22/2023
Lab: SGS

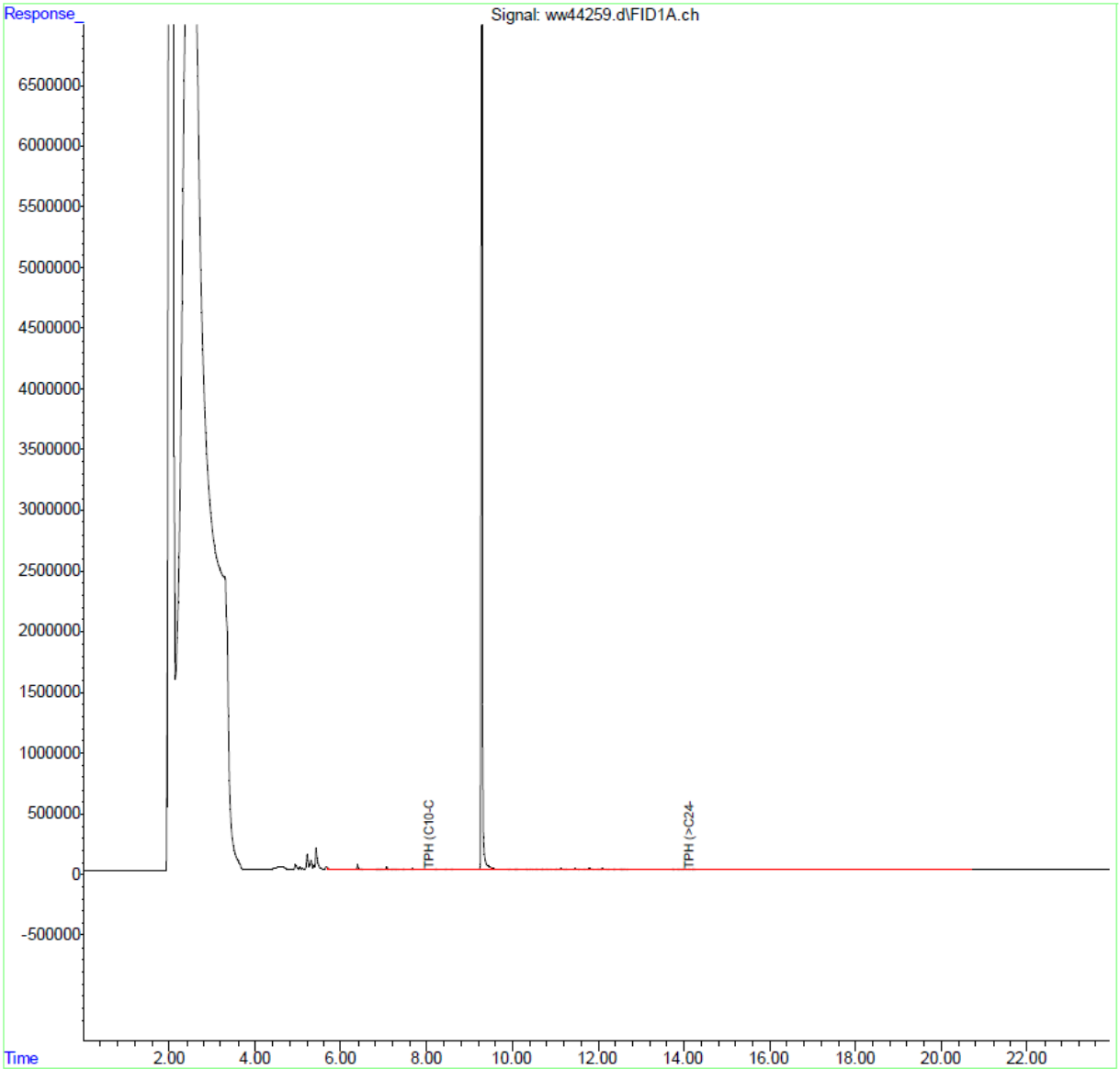
```
Quant Time: Nov 25 08:39:04 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Method Blank Associated with SDG FC11477

Sample ID: RHMW01R-WGN01LF-2311WK3-DF
Sample Date: 11/24/2023
Lab: SGS

```
Quant Time: Nov 27 12:32:04 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

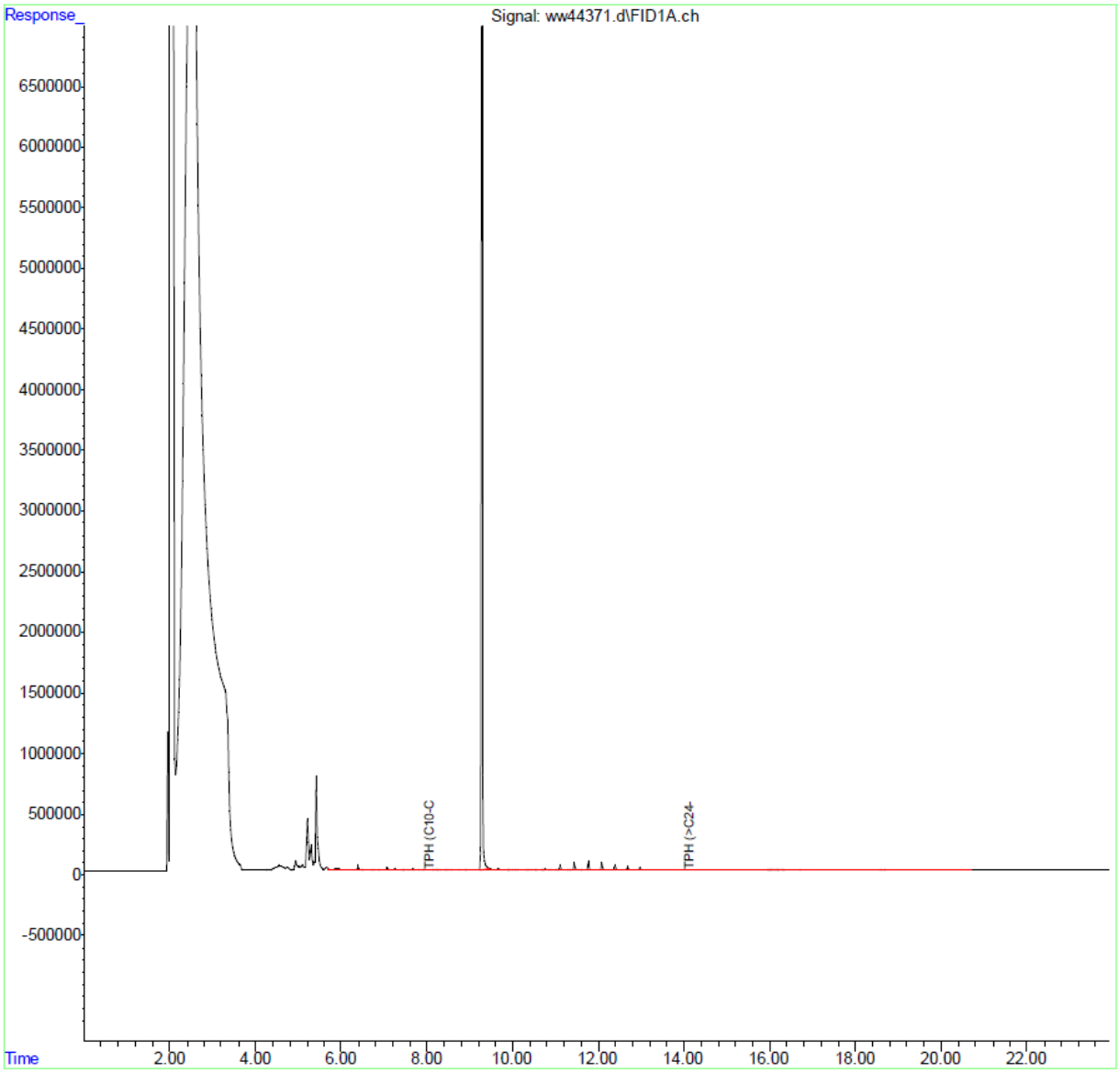


Method Blank Associated with SDG FC11651

Sample ID: RHMW01R-WGN01LF-2311WK4-DF, RHMW02-WGN01LF-2311WK4-DF, RHMW02-WGFD01LF-2311WK4-DF

Sample Date: 12/1/2023
Lab: SGS

```
Quant Time: Dec 04 09:34:57 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

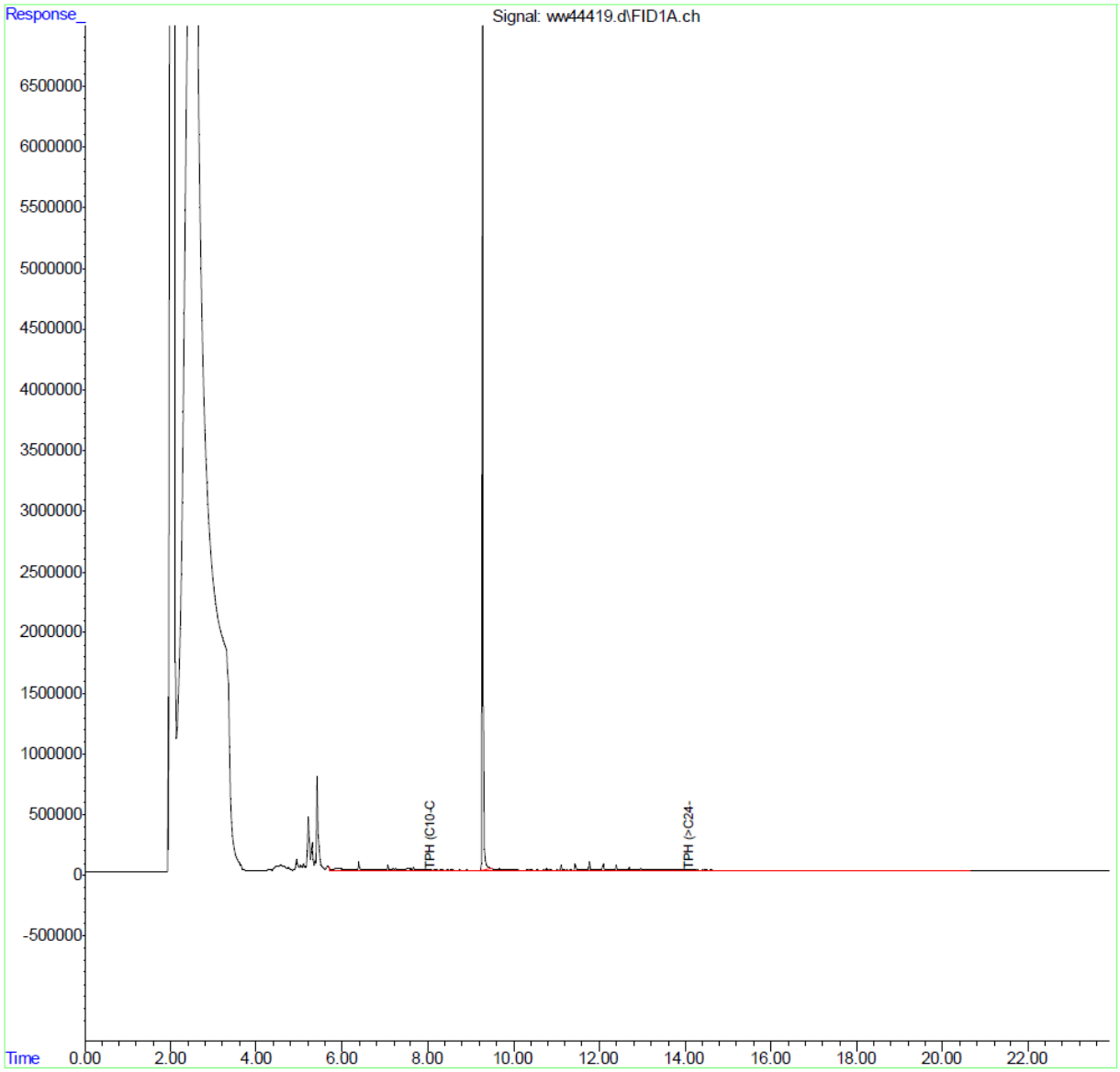


Method Blank Associated with SDG FC11688

Sample ID: RHMW09-WGN01LF-2312-DF

Sample Date: 12/4/2023
Lab: SGS

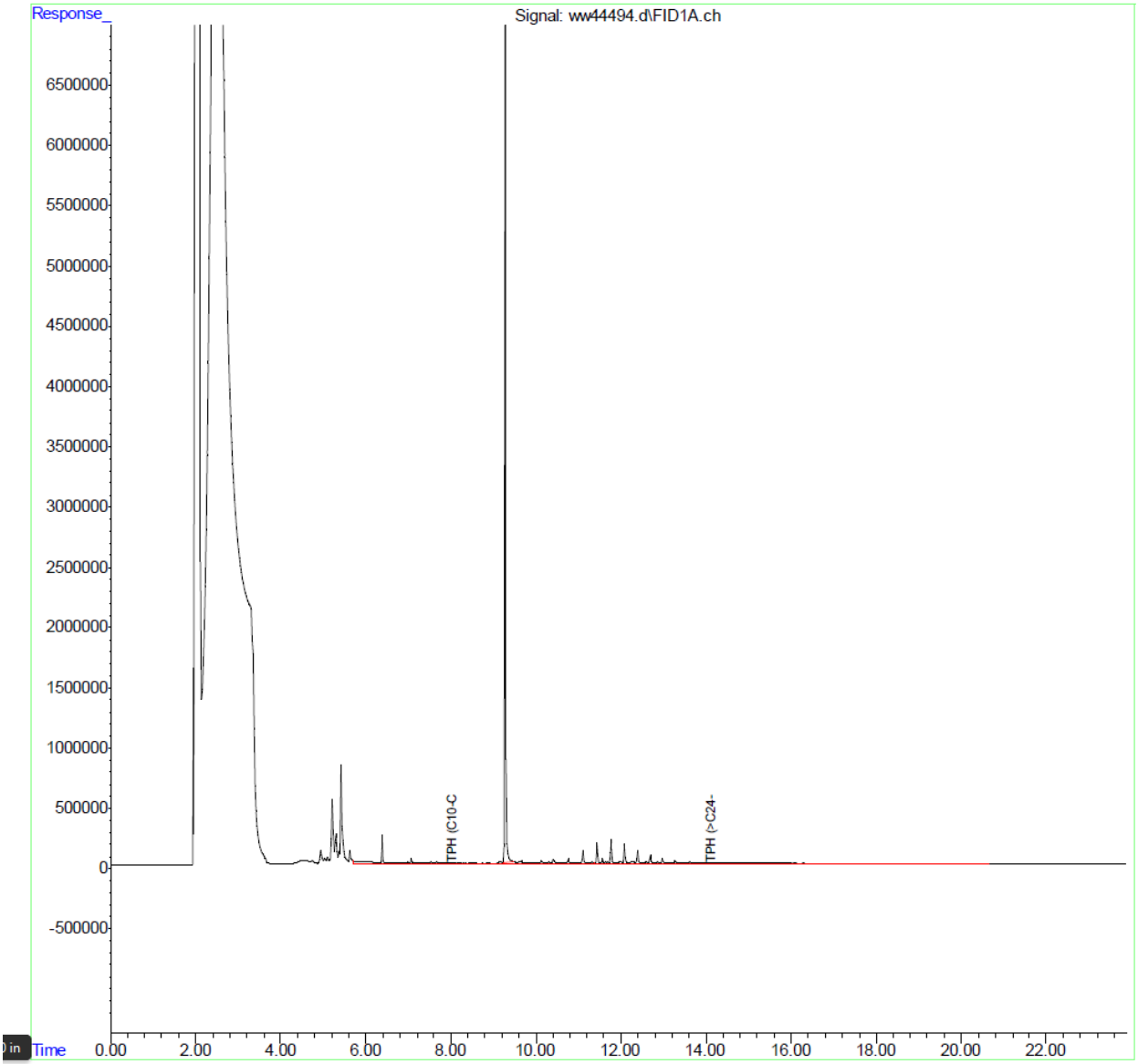
```
Quant Time: Dec 06 14:03:21 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Method Blank Associated with SDG FC11754

Sample ID: RHP05-WGN01LF-2312-DF
Sample Date: 12/6/2023
Lab: SGS

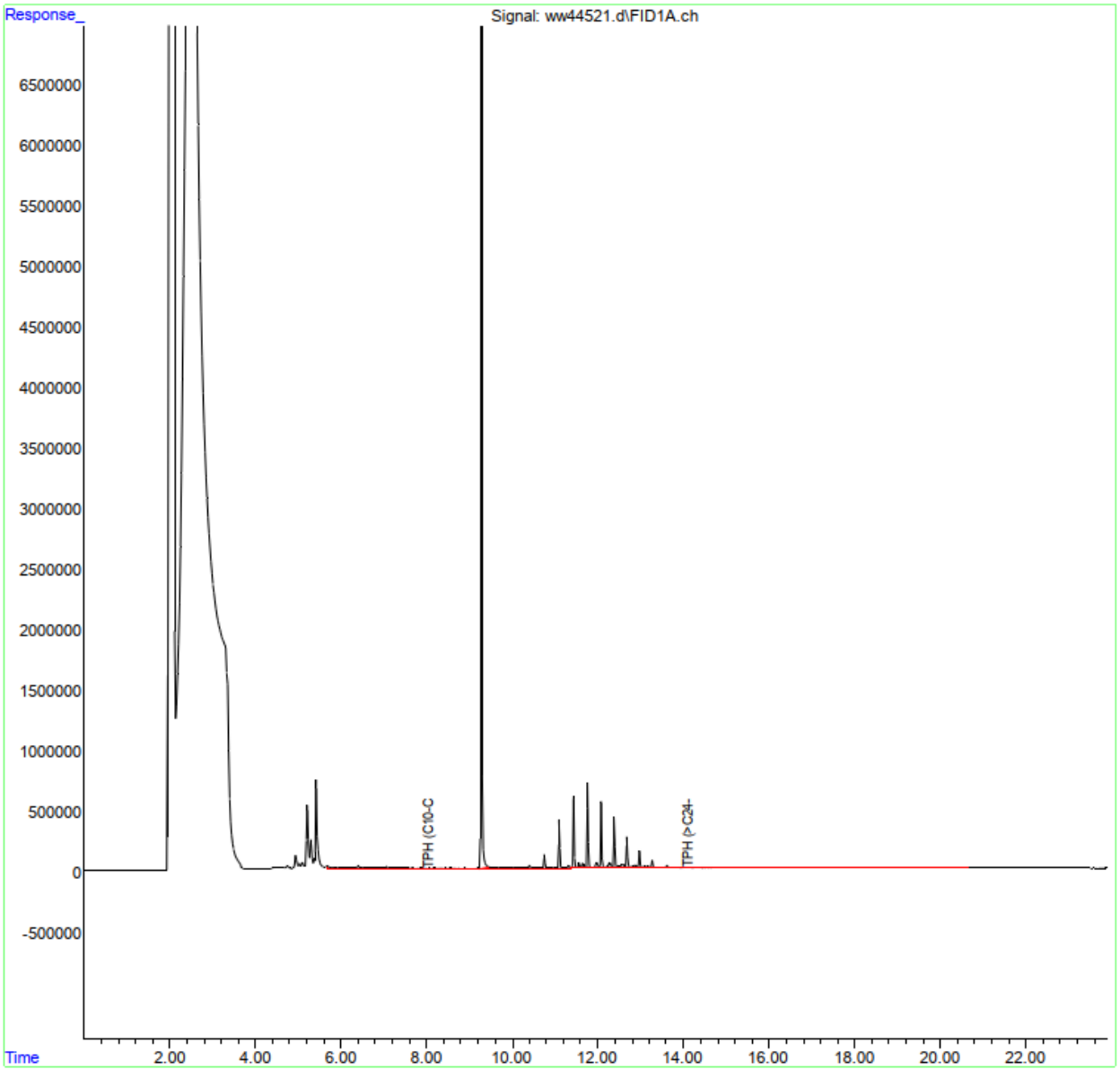
```
Quant Time: Dec 10 10:29:02 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Method Blank Associated with SDG FC11804

Sample ID: NMW25-WGN01LF-2312, NMW30-WGN01LF-2312
Sample Date: 12/7/2023
Lab: SGS

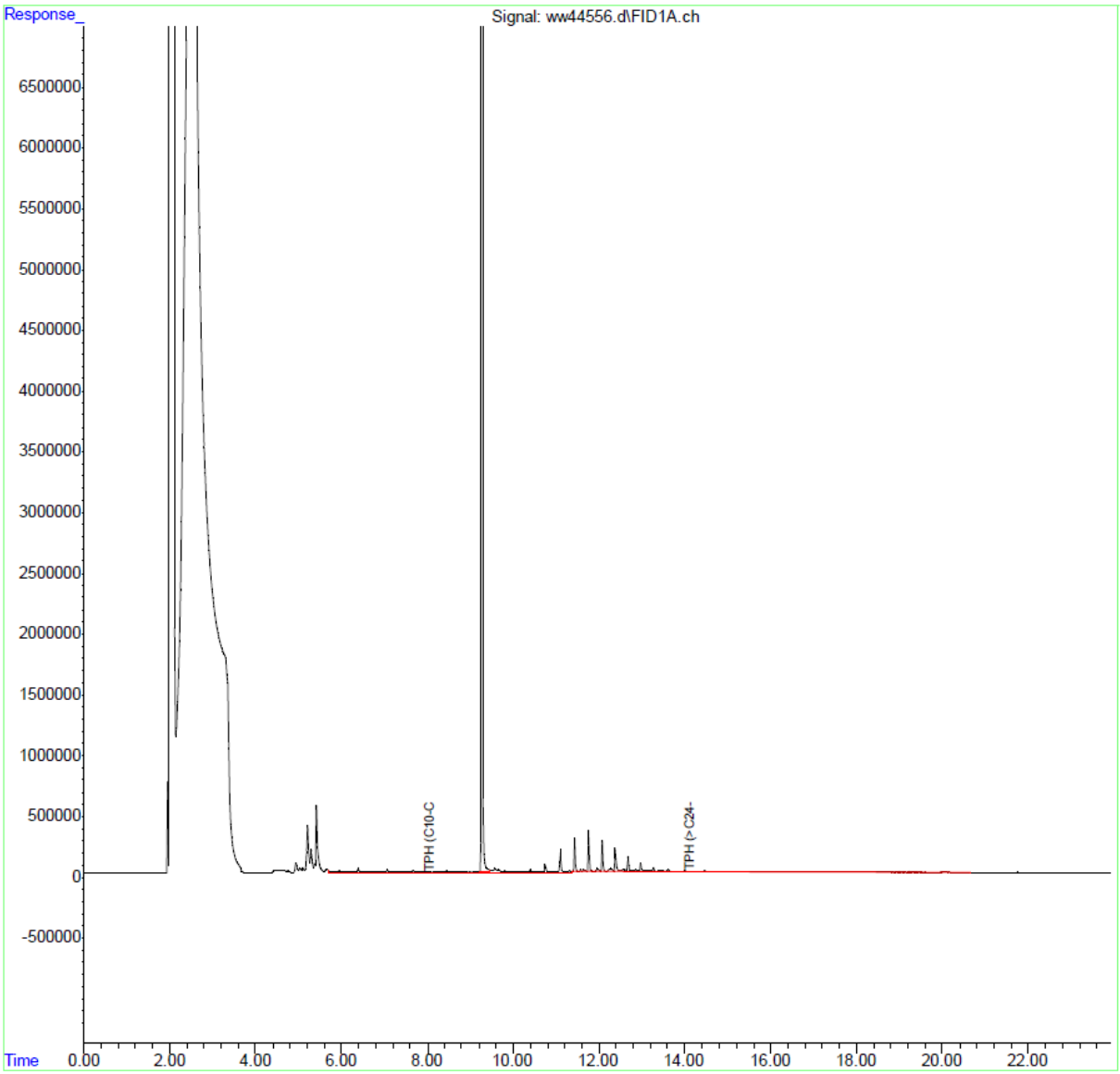
```
Quant Time: Dec 10 10:29:56 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Method Blank Associated with SDG FC11848

Sample ID: RHMW01R-WGFD01LF-2312-DF, RHMW01R-WGN01LF-2312-DF, RHMW02-WGFD01LF-2312-DF, RHMW02-WGN01LF-2312-DF
Sample Date: 12/8/2023
Lab: SGS

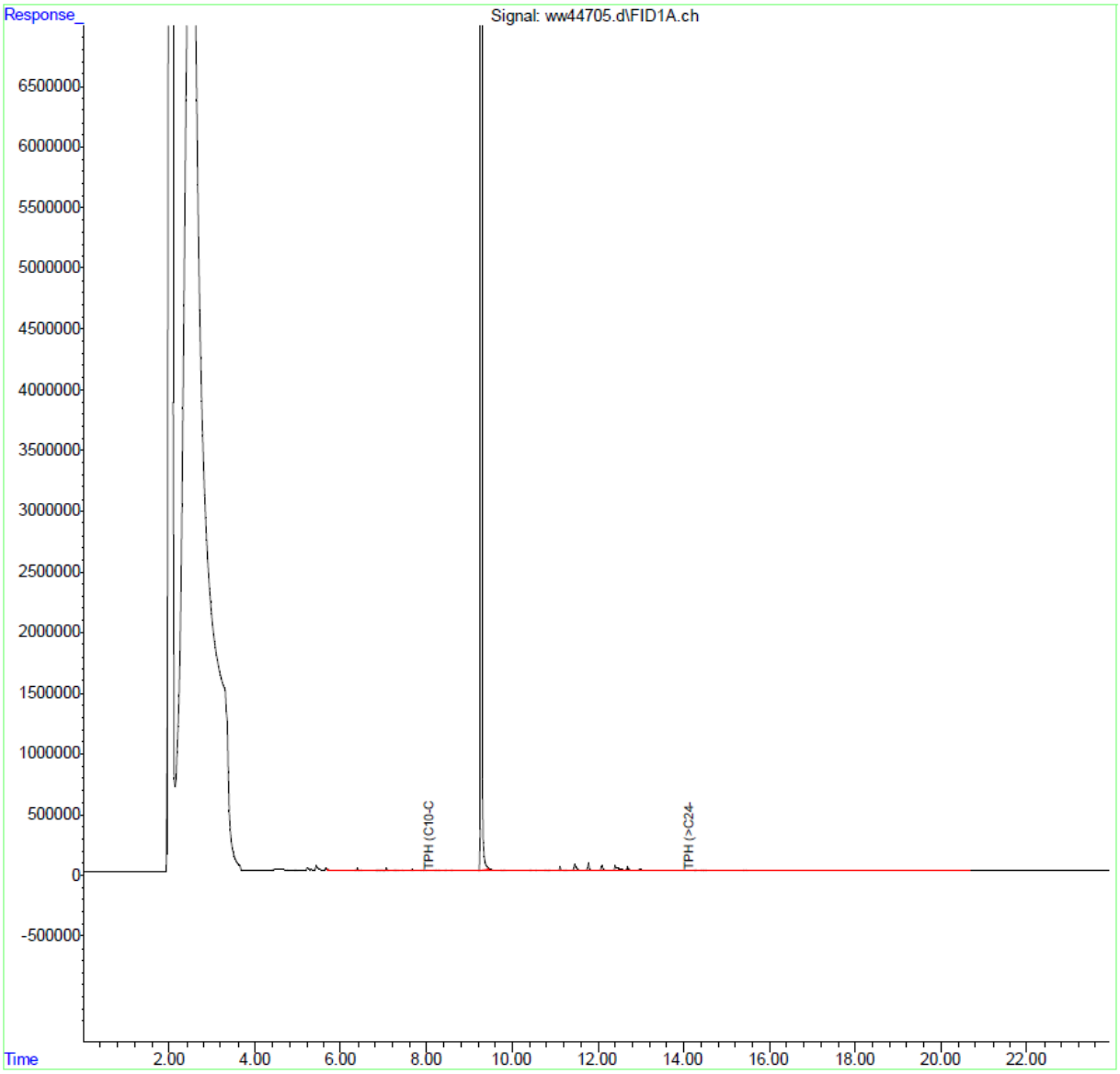
```
Quant Time: Dec 11 13:22:27 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Method Blank Associated with SDG FC12040

Sample ID: RHMW01R-WGN01LF-2312WK2-DF, RHMW01R-WGFD01LF-2312WK2-DF, RHMW02-WGN01LF-2312WK2-DF, RHMW02-WGFD01LF-2312WK2-DF
Sample Date: 12/15/2023
Lab: SGS

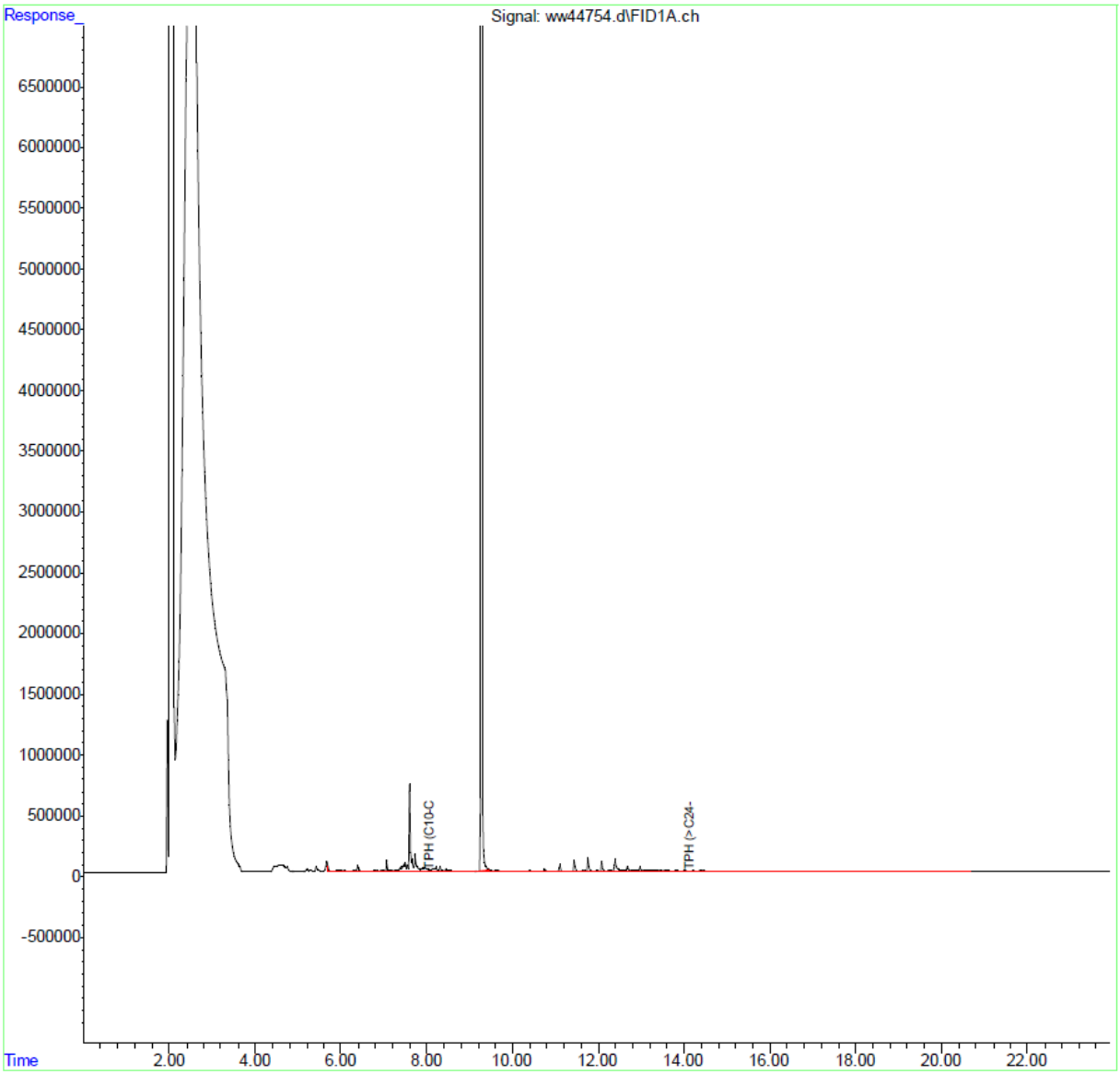
```
Quant Time: Dec 18 10:01:38 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Method Blank Associated with SDG FC12097

Sample ID: RHP02-WGN01LF-2312WK3-DF, RHMW08-WGN01LF-2312WK3-DF
Sample Date: 12/18/2023
Lab: SGS

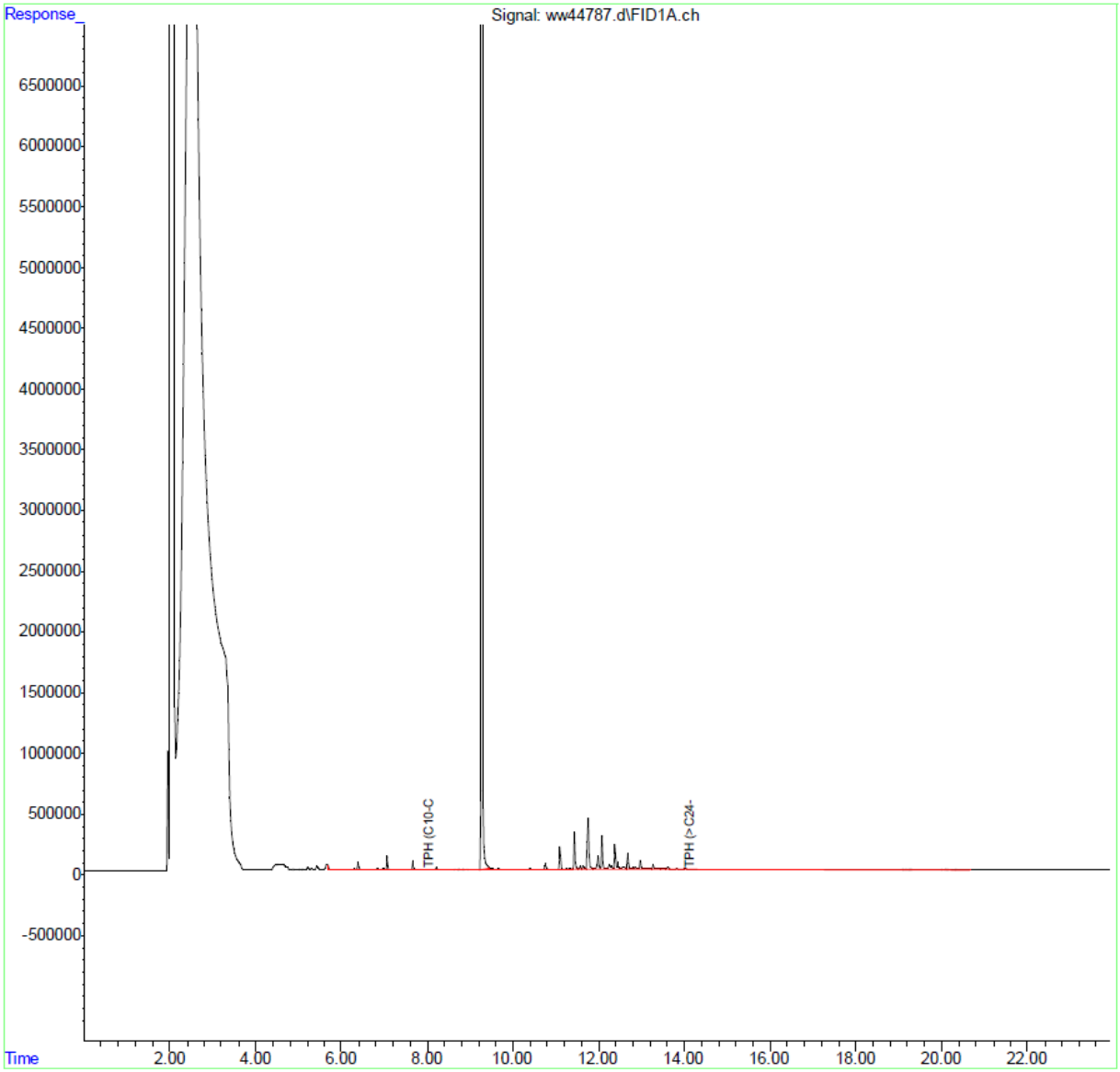
```
Quant Time: Dec 20 14:56:31 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Method Blank Associated with SDG FC12136

Sample ID: RHMW01R-WGFD01LF-2312WK3-DF, RHMW02-WGN01LF-2312WK3-DF, RHMW02-WGFD01LF-2312WK3-DF
Sample Date: 12/19/2023
Lab: SGS

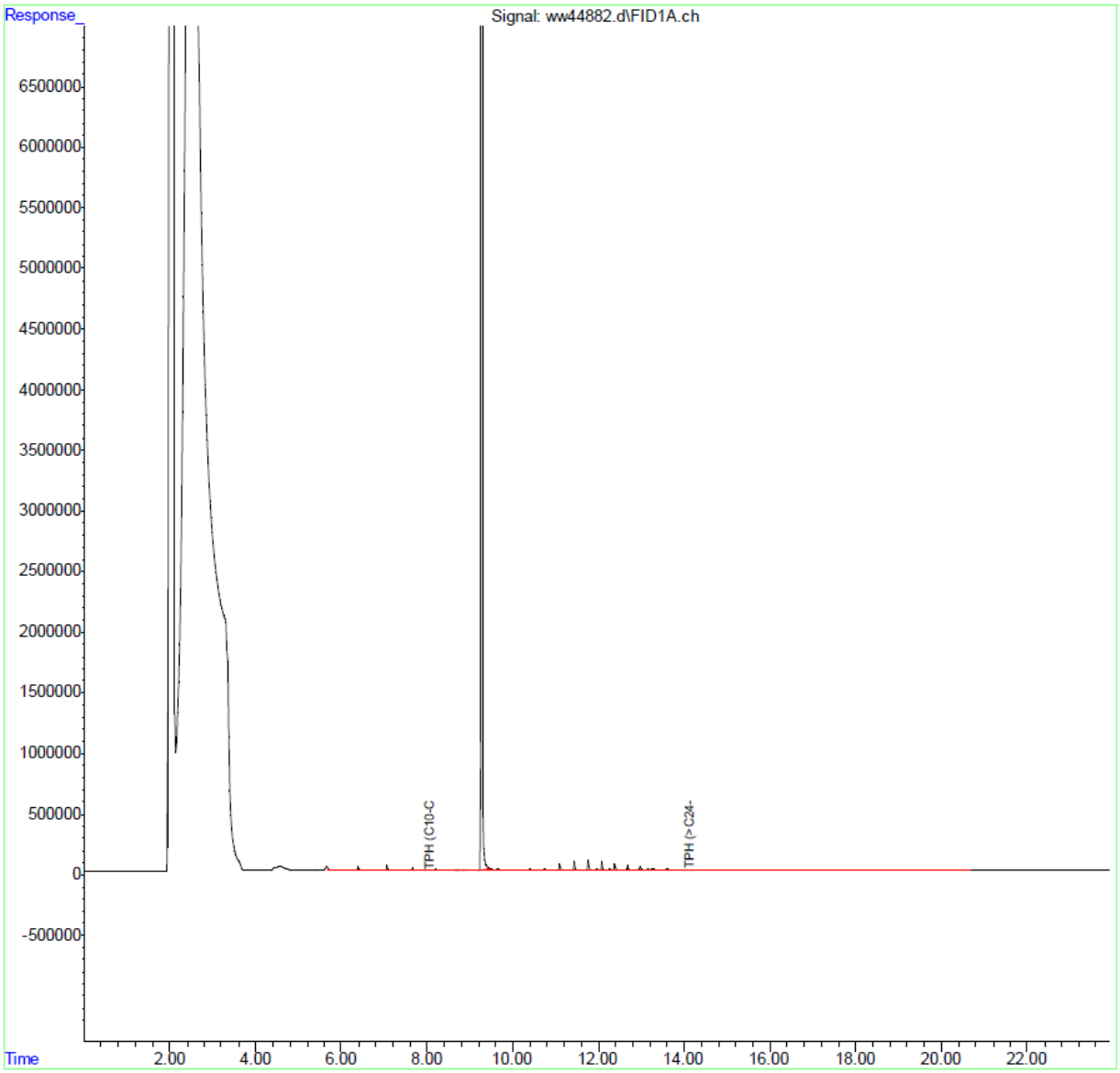
```
Quant Time: Dec 21 13:18:04 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Method Blank Associated with SDG FC12235

Sample ID: RHMW01R-WGN01LF-2312WK4-DF, RHMW01R-WGFD01LF-2312WK4-DF, RHMW08-WGN01LF-2312WK4-DF, RHMW02-WGN01LF-2312WK4-DF, RHMW02-WGFD01LF-2312WK4-DF
Sample Date: 12/26/2023
Lab: SGS

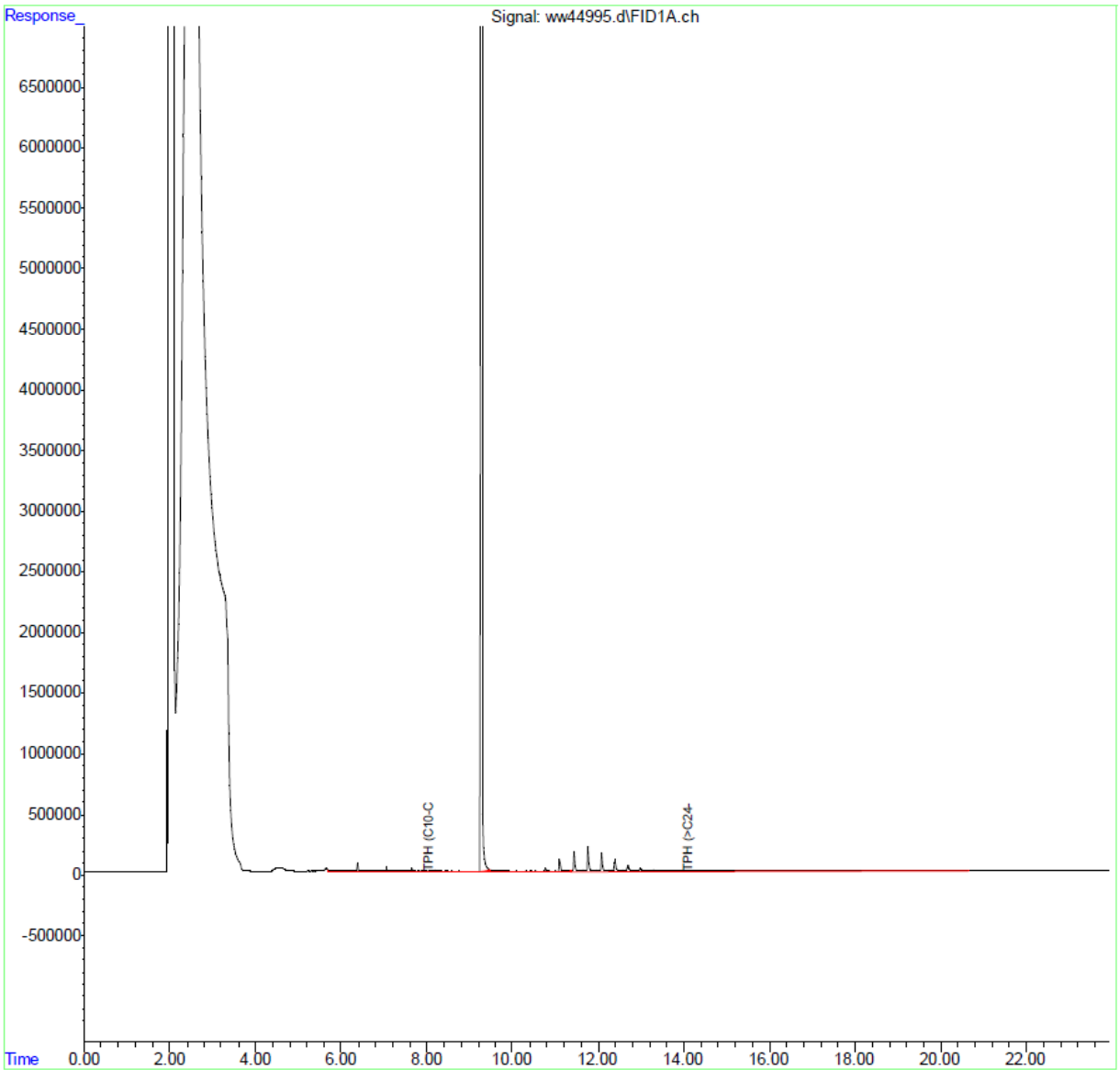
```
Quant Time: Dec 28 16:21:57 2023
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Method Blank Associated with SDG FC12337

Sample ID: RHMW18-WGN01LF-2312-DF
Sample Date: 12/31/2023
Lab: SGS

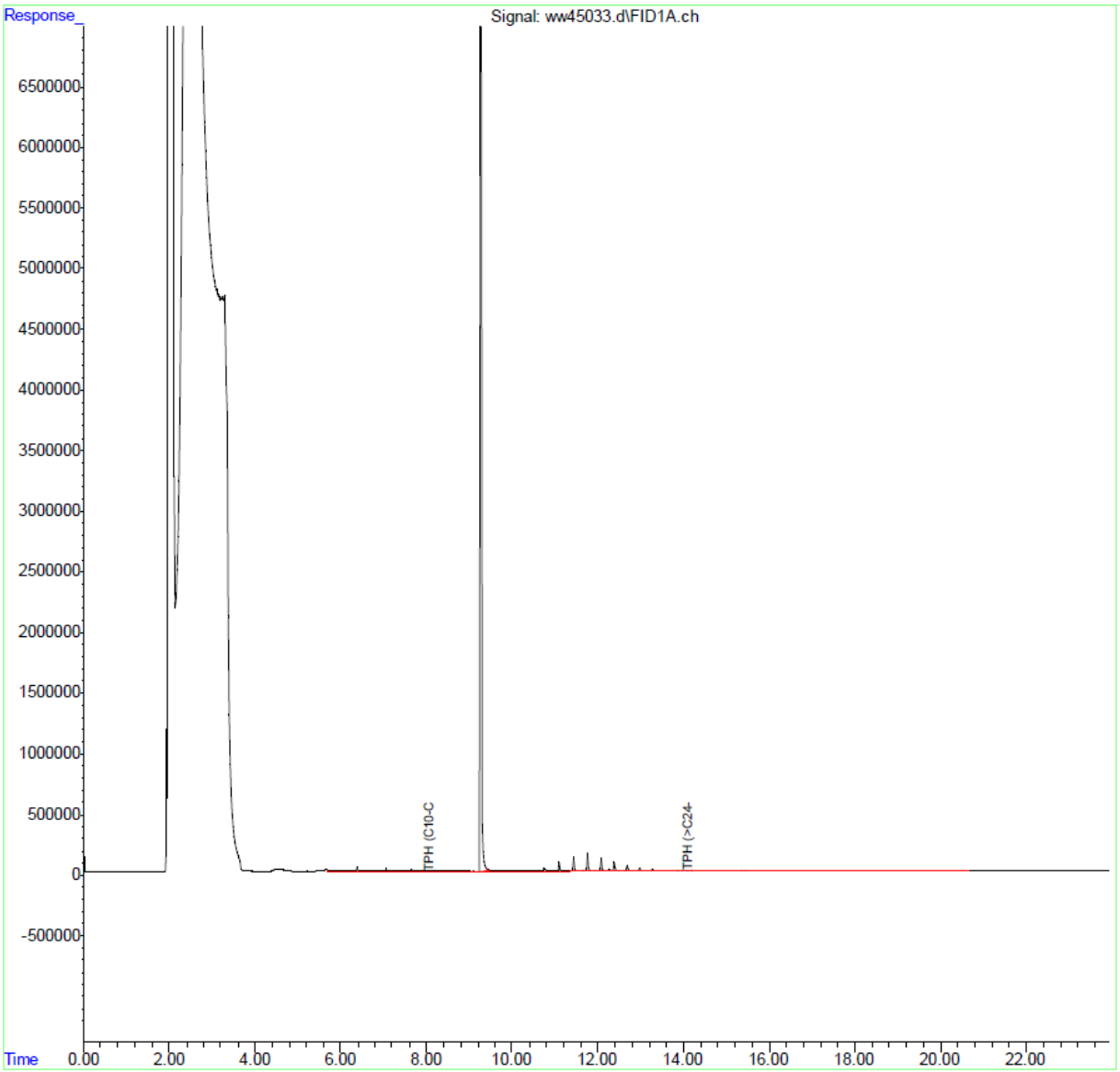
```
Quant Time: Jan 04 14:24:33 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Method Blank Associated with SDG FC12382

Sample ID: RHMW17-WGN01LF-2401-DF, RHMW17-WGFD01LF-2401-DF, RHMW20-WGN01LF-2401-DF, RHMW18-WGN01LF-2401-DF, RHP05-WGN01LF-2401-DF
Sample Date: 1/3/2024
Lab: SGS

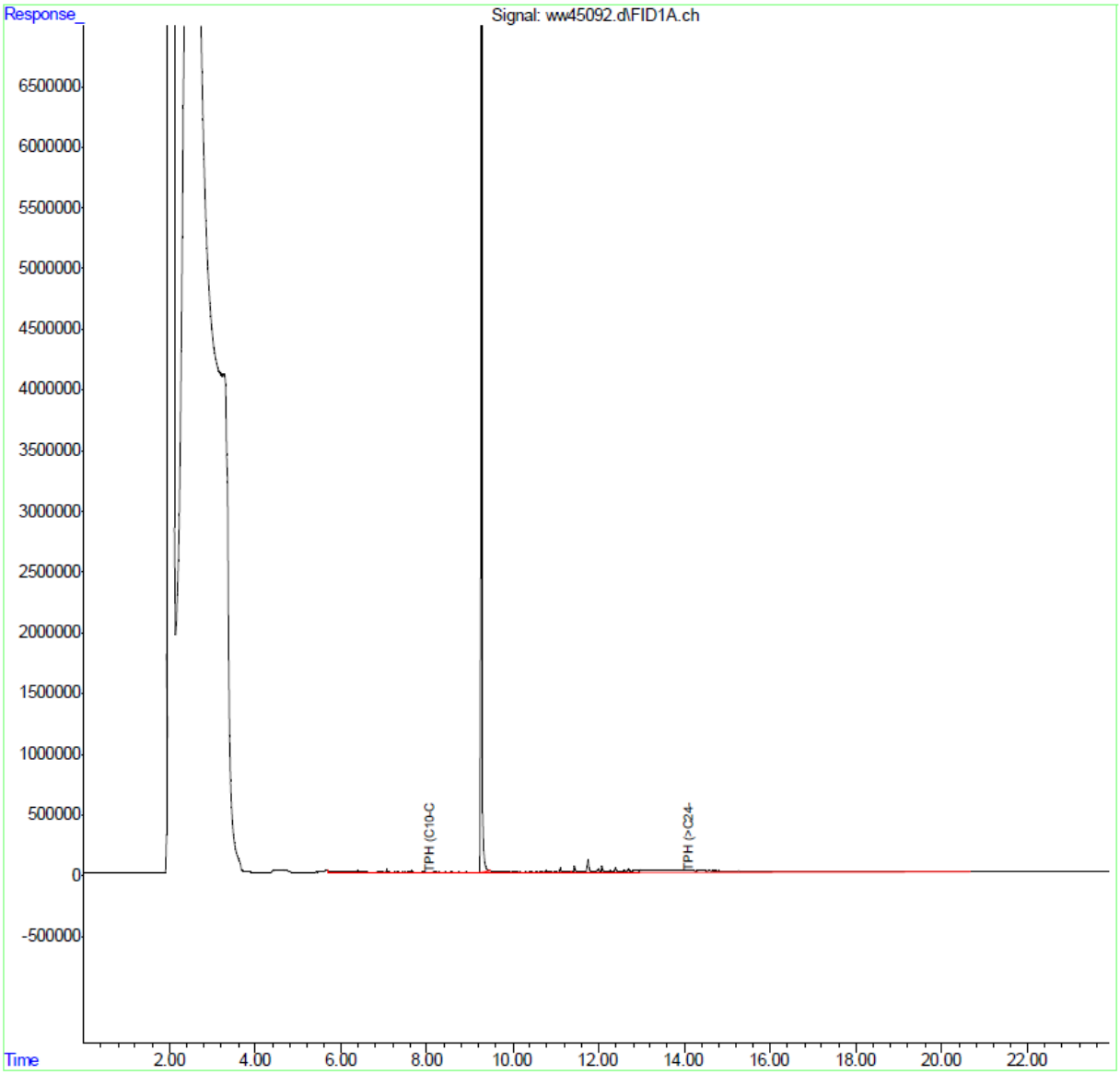
```
Quant Time: Jan 05 15:00:20 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Method Blank Associated with SDG FC12419

Sample ID: RHMW01R-WGN01LF-2401-DF, RHMW01R-WGFD01LF-2401-DF, RHMW02-WGN01LF-2401-DF
Sample Date: 1/5/2024
Lab: SGS

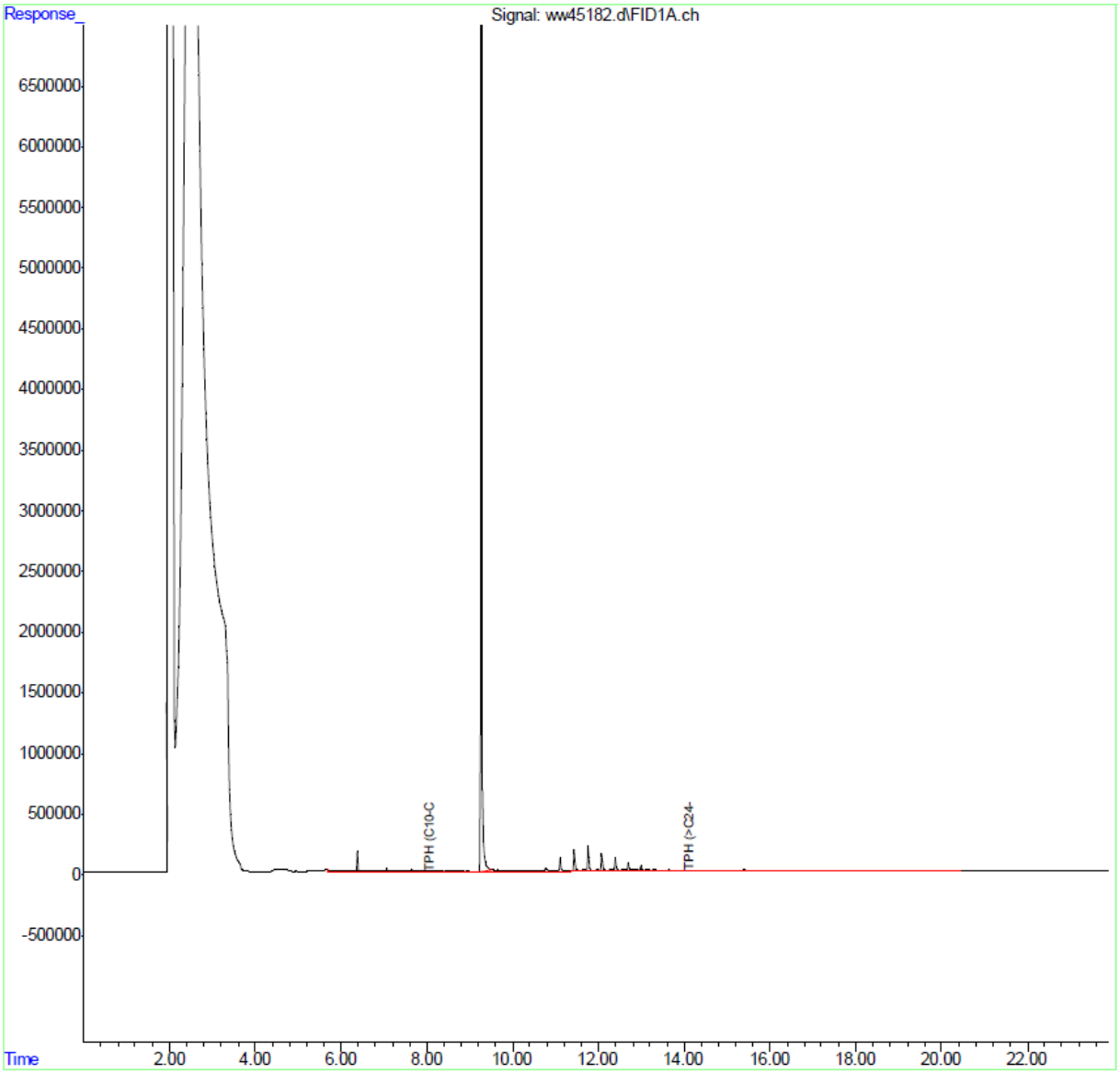
```
Quant Time: Jan 08 09:59:34 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Method Blank Associated with SDG FC12522

Sample ID: RHMW18-WGN01LF-2401WK2-DF
Sample Date: 1/10/2024
Lab: SGS

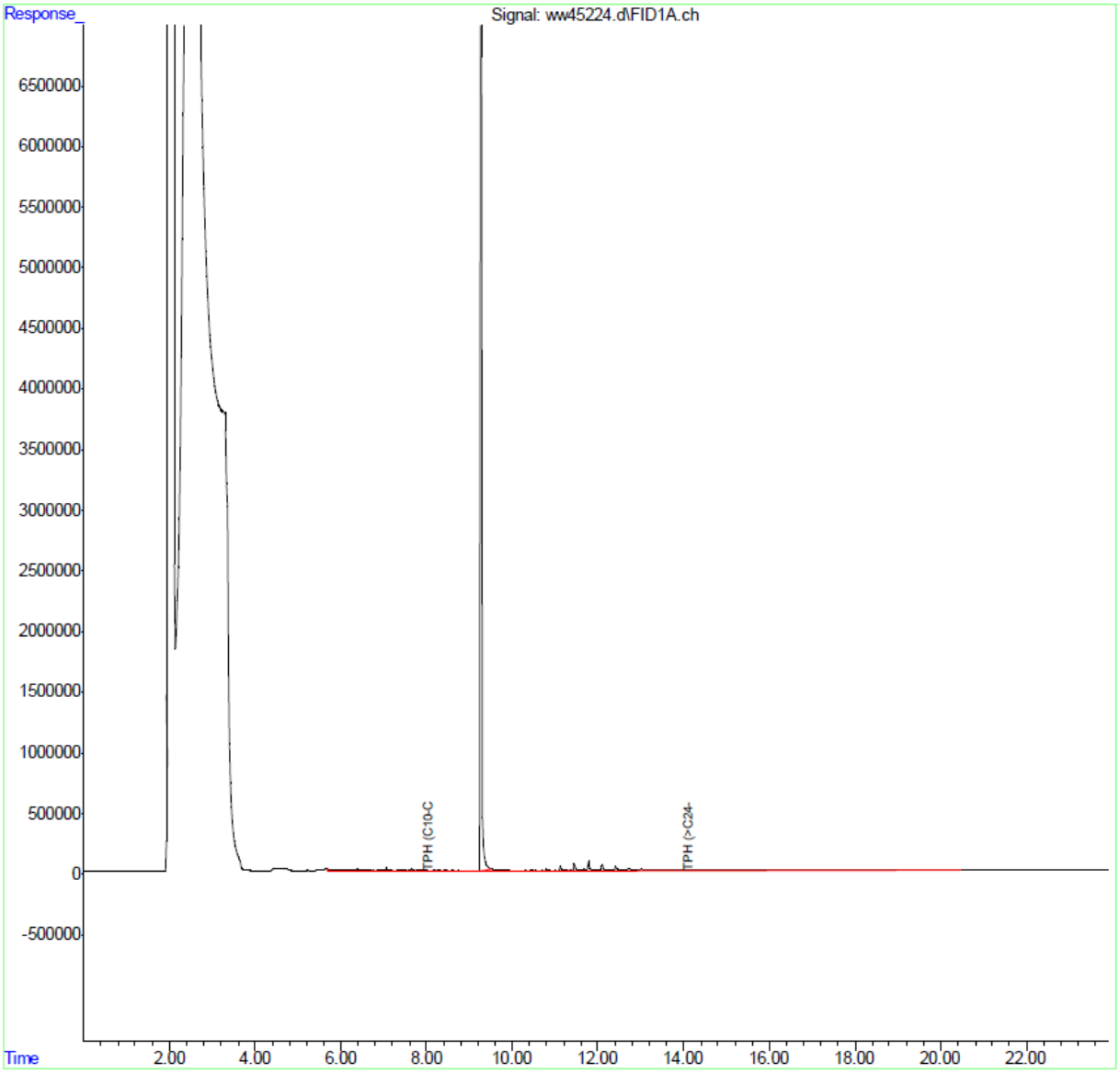
```
Quant Time: Jan 12 14:09:28 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Method Blank Associated with SDG FC12560

Sample ID: RHMW01R-WGN01LF-2401WK2-DF, RHMW01R-WGFD01LF-2401WK2-DF, RHMW02-WGN01LF-2401WK2-DF, RHMW02-WGFD01LF-2401WK2-DF
Sample Date: 1/12/2024
Lab: SGS

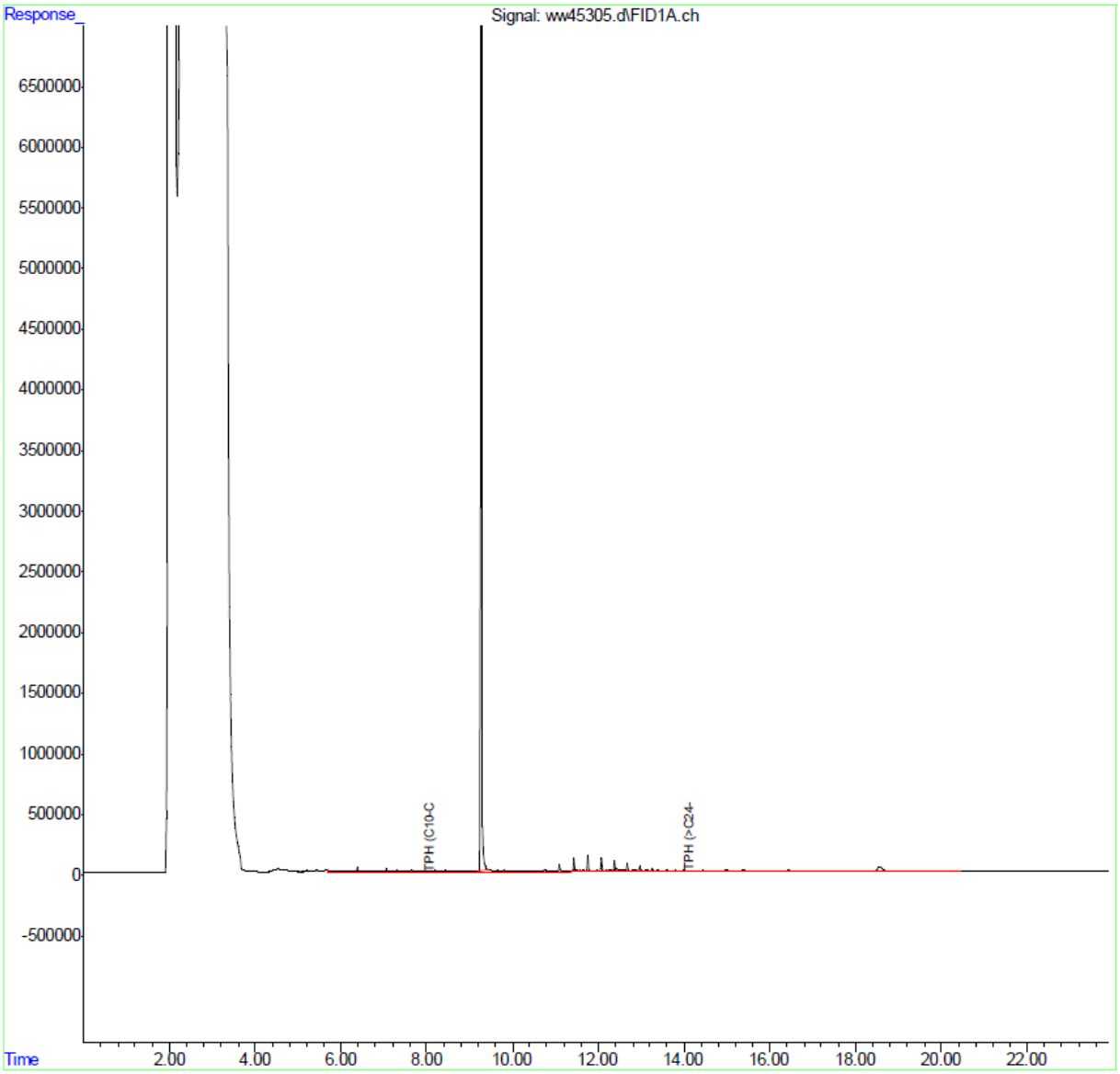
```
Quant Time: Jan 15 10:08:31 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Method Blank Associated with SDG FC12611

Sample ID: RHMW19-WGN01LF-2401WK3-DF
Sample Date: 1/16/2024
Lab: SGS

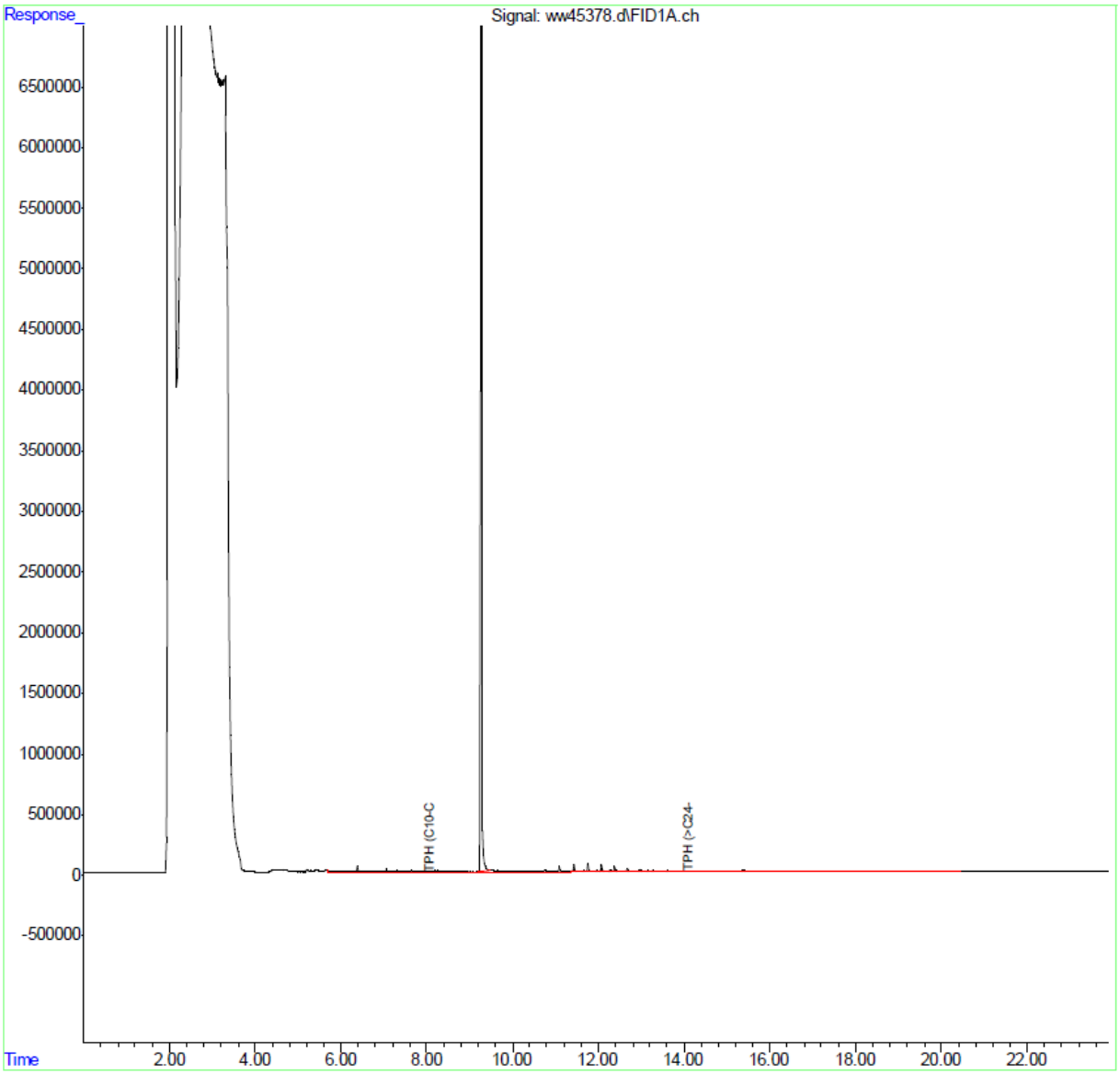
```
Quant Time: Jan 18 16:16:16 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Method Blank Associated with SDG FC12701

Sample ID: RHMW01R-WGN01LF-2401WK3-DF, RHMW01R-WGFD01LF-2401WK3-DF, RHMW02-WGN01LF-2401WK3-DF, RHMW02-WGFD01LF-2401WK3-DF
Sample Date: 1/19/2024
Lab: SGS

```
Quant Time: Jan 22 09:47:19 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Appendix C – Index of Soil Vapor Analytical Data

Files listed in this appendix are available for download from the JBPHH Red Hill Bulk Fuel Storage Facility Environmental Data Management System (EDMS) at https://synectics.net. Appendix E provides database navigation tips.

Below-Tank Sampling Locations:

- Laboratory Report, SDG 493985, Level 4, October 2023
- Laboratory Report, SDG 496176, Level 4, November 2023
- Laboratory Report, SDG 498060, Level 4, December 2023

Appendix D – Index of Groundwater Analytical Data

Files listed in this appendix are available for download from the JBPHH Red Hill Bulk Fuel Storage Facility Environmental Data Management System (EDMS) at https://synectics.net. Appendix E provides database navigation tips.

- Table D-1: Index of Analytical Laboratory Reports and Data Validation Reports, by Sample Collection Date

Table D-1: Index of Analytical Laboratory Reports and Data Validation Reports, by Sample Collection Date

Sample Location Identifier	Sample ID	SDG	Sample Collection Date	Laboratory	Level 2 Lab Report PDF	Level 4 Lab Report PDF	DVR PDF
June 2023 Monthly Sampling							
RHMW09	RHMW09-WGN01LF-2306WK2	FC7026	6/13/2023	SGS Orlando	Laboratory Report, SDG FC7026, Level 2, Revision 5	Laboratory Report, SDG FC7026, Level 4, Revision 5	Data Validation Report, Level 2B, SDG FC7026
RHMW19	RHMW19-WGN01LF-2306WK2	FC7026	6/13/2023	SGS Orlando	Laboratory Report, SDG FC7026, Level 2, Revision 5	Laboratory Report, SDG FC7026, Level 4, Revision 5	Data Validation Report, Level 2B, SDG FC7026
RHMW03	RHMW03-WGN01LF-2306WK2	FC7026	6/14/2023	SGS Orlando	Laboratory Report, SDG FC7026, Level 2, Revision 5	Laboratory Report, SDG FC7026, Level 4, Revision 5	Data Validation Report, Level 2B, SDG FC7026
RHMW04	RHMW04-WGN01LF-2306WK2	FC7026	6/14/2023	SGS Orlando	Laboratory Report, SDG FC7026, Level 2, Revision 5	Laboratory Report, SDG FC7026, Level 4, Revision 5	Data Validation Report, Level 2B, SDG FC7026
RHMW06	RHMW06-WGN01LF-2306WK2	FC7026	6/14/2023	SGS Orlando	Laboratory Report, SDG FC7026, Level 2, Revision 5	Laboratory Report, SDG FC7026, Level 4, Revision 5	Data Validation Report, Level 2B, SDG FC7026
RHMW10	RHMW10-WGN01LF-2306WK2	FC7026	6/14/2023	SGS Orlando	Laboratory Report, SDG FC7026, Level 2, Revision 5	Laboratory Report, SDG FC7026, Level 4, Revision 5	Data Validation Report, Level 2B, SDG FC7026
RHMW20	RHMW20-WGN01LF-2306WK2	FC7026	6/14/2023	SGS Orlando	Laboratory Report, SDG FC7026, Level 2, Revision 5	Laboratory Report, SDG FC7026, Level 4, Revision 5	Data Validation Report, Level 2B, SDG FC7026
RHP04A	RHP04A-WGN01LF-2306WK2	FC7027	6/14/2023	SGS Orlando	Laboratory Report, SDG FC7027, Level 2, Revision 3	Laboratory Report, SDG FC7027, Level 4, Revision 3	Data Validation Report, Level 2B, SDG FC7027
RHP04B	RHP04B-WGN01LF-2306WK2	FC7027	6/14/2023	SGS Orlando	Laboratory Report, SDG FC7027, Level 2, Revision 3	Laboratory Report, SDG FC7027, Level 4, Revision 3	Data Validation Report, Level 2B, SDG FC7027
RHMW01R	RHMW01R-WGN01LF-2306WK2	FC7026	6/15/2023	SGS Orlando	Laboratory Report, SDG FC7026, Level 2, Revision 5	Laboratory Report, SDG FC7026, Level 4, Revision 5	Data Validation Report, Level 2B, SDG FC7026
RHMW02	RHMW02-WGN01LF-2306WK2	FC7026	6/15/2023	SGS Orlando	Laboratory Report, SDG FC7026, Level 2, Revision 5	Laboratory Report, SDG FC7026, Level 4, Revision 5	Data Validation Report, Level 2B, SDG FC7026
RHMW05	RHMW05-WGN01LF-2306WK2	FC7026	6/15/2023	SGS Orlando	Laboratory Report, SDG FC7026, Level 2, Revision 5	Laboratory Report, SDG FC7026, Level 4, Revision 5	Data Validation Report, Level 2B, SDG FC7026
RHMW17	RHMW17-WGFD01LF-2306WK2	FC7026	6/15/2023	SGS Orlando	Laboratory Report, SDG FC7026, Level 2, Revision 5	Laboratory Report, SDG FC7026, Level 4, Revision 5	Data Validation Report, Level 2B, SDG FC7026
RHMW17	RHMW17-WGN01LF-2306WK2	FC7026	6/15/2023	SGS Orlando	Laboratory Report, SDG FC7026, Level 2, Revision 5	Laboratory Report, SDG FC7026, Level 4, Revision 5	Data Validation Report, Level 2B, SDG FC7026
RHP07	RHP07-WGN01LF-2306WK2	FC7027	6/15/2023	SGS Orlando	Laboratory Report, SDG FC7027, Level 2, Revision 3	Laboratory Report, SDG FC7027, Level 4, Revision 3	Data Validation Report, Level 2B, SDG FC7027
September 2023 Monthly Sampling							
HDMW2253-03	HDMW2253-03-WGN01LF-2309	FC9377	9/5/2023	SGS Orlando	Laboratory Report, SDG FC9377, Level 2, Revision 1	Laboratory Report, SDG FC9377, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC9377
HDMW2253-03	HDMW2253-03-WGN01LF-2309	K2310020	9/5/2023	ALS Kelso	Laboratory Report, SDG K2310020, Level 2	Laboratory Report, SDG K2310020, Level 4	Data Validation Report, Level S2BVEM, SDG K2310020
RHMW01R	RHMW01R-WGN01LF-2309	FC9377	9/5/2023	SGS Orlando	Laboratory Report, SDG FC9377, Level 2, Revision 1	Laboratory Report, SDG FC9377, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC9377
RHMW01R	RHMW01R-WGN01LF-2309	K2310020	9/5/2023	ALS Kelso	Laboratory Report, SDG K2310020, Level 2	Laboratory Report, SDG K2310020, Level 4	Data Validation Report, Level S2BVEM, SDG K2310020
RHMW05	RHMW05-WGN01LF-2309	FC9377	9/5/2023	SGS Orlando	Laboratory Report, SDG FC9377, Level 2, Revision 1	Laboratory Report, SDG FC9377, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC9377
RHMW05	RHMW05-WGN01LF-2309	K2310020	9/5/2023	ALS Kelso	Laboratory Report, SDG K2310020, Level 2	Laboratory Report, SDG K2310020, Level 4	Data Validation Report, Level S2BVEM, SDG K2310020
RHMW09	RHMW09-WGN01LF-2309	FC9377	9/5/2023	SGS Orlando	Laboratory Report, SDG FC9377, Level 2, Revision 1	Laboratory Report, SDG FC9377, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC9377
RHMW09	RHMW09-WGN01LF-2309	K2310020	9/5/2023	ALS Kelso	Laboratory Report, SDG K2310020, Level 2	Laboratory Report, SDG K2310020, Level 4	Data Validation Report, Level S2BVEM, SDG K2310020
RHMW10	RHMW10-WGN01LF-2309	FC9377	9/5/2023	SGS Orlando	Laboratory Report, SDG FC9377, Level 2, Revision 1	Laboratory Report, SDG FC9377, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC9377
RHMW10	RHMW10-WGN01LF-2309	K2310020	9/5/2023	ALS Kelso	Laboratory Report, SDG K2310020, Level 2	Laboratory Report, SDG K2310020, Level 4	Data Validation Report, Level S2BVEM, SDG K2310020
RHMW13-05	RHMW13-05-WGN01G-2309	FC9377	9/5/2023	SGS Orlando	Laboratory Report, SDG FC9377, Level 2, Revision 1	Laboratory Report, SDG FC9377, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC9377
RHMW13-05	RHMW13-05-WGN01G-2309	K2310020	9/5/2023	ALS Kelso	Laboratory Report, SDG K2310020, Level 2	Laboratory Report, SDG K2310020, Level 4	Data Validation Report, Level S2BVEM, SDG K2310020
RHMW19	RHMW19-WGN01LF-2309	FC9377	9/5/2023	SGS Orlando	Laboratory Report, SDG FC9377, Level 2, Revision 1	Laboratory Report, SDG FC9377, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC9377
RHMW19	RHMW19-WGN01LF-2309	K2310020	9/5/2023	ALS Kelso	Laboratory Report, SDG K2310020, Level 2	Laboratory Report, SDG K2310020, Level 4	Data Validation Report, Level S2BVEM, SDG K2310020
RHMW08	RHMW08-WGN01LF-2309	K2310020	9/6/2023	ALS Kelso	Laboratory Report, SDG K2310020, Level 2	Laboratory Report, SDG K2310020, Level 4	Data Validation Report, Level S2BVEM, SDG K2310020
RHMW20	RHMW20-WGN01LF-2309	K2310020	9/6/2023	ALS Kelso	Laboratory Report, SDG K2310020, Level 2	Laboratory Report, SDG K2310020, Level 4	Data Validation Report, Level S2BVEM, SDG K2310020
RHMW2254-01	RHMW2254-01-WGN01LF-2309	K2310020	9/6/2023	ALS Kelso	Laboratory Report, SDG K2310020, Level 2	Laboratory Report, SDG K2310020, Level 4	Data Validation Report, Level S2BVEM, SDG K2310020
RHP01	RHP01-WGN01LF-2309	K2310020	9/6/2023	ALS Kelso	Laboratory Report, SDG K2310020, Level 2	Laboratory Report, SDG K2310020, Level 4	Data Validation Report, Level S2BVEM, SDG K2310020
RHP02	RHP02-WGN01LF-2309	K2310020	9/6/2023	ALS Kelso	Laboratory Report, SDG K2310020, Level 2	Laboratory Report, SDG K2310020, Level 4	Data Validation Report, Level S2BVEM, SDG K2310020
RHP07	RHP07-WGN01LF-2309	K2310020	9/6/2023	ALS Kelso	Laboratory Report, SDG K2310020, Level 2	Laboratory Report, SDG K2310020, Level 4	Data Validation Report, Level S2BVEM, SDG K2310020
NMW25	NMW25-WGN01LF-2309	FC9446	9/7/2023	SGS Orlando	Laboratory Report, SDG FC9446, Level 2, Revision 2	Laboratory Report, SDG FC9446, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC9446
RHMW02	RHMW02-WGN01LF-2309	FC9446	9/7/2023	SGS Orlando	Laboratory Report, SDG FC9446, Level 2, Revision 2	Laboratory Report, SDG FC9446, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC9446
RHMW03	RHMW03-WGN01LF-2309	FC9446	9/7/2023	SGS Orlando	Laboratory Report, SDG FC9446, Level 2, Revision 2	Laboratory Report, SDG FC9446, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC9446
RHMW12A	RHMW12A-WGN01LF-2309	FC9446	9/7/2023	SGS Orlando	Laboratory Report, SDG FC9446, Level 2, Revision 2	Laboratory Report, SDG FC9446, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC9446
RHMW15-05	RHMW15-05-WGN01G-2309	FC9446	9/7/2023	SGS Orlando	Laboratory Report, SDG FC9446, Level 2, Revision 2	Laboratory Report, SDG FC9446, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC9446
RHMW16	RHMW16-WGN01LF-2309	FC9446	9/7/2023	SGS Orlando	Laboratory Report, SDG FC9446, Level 2, Revision 2	Laboratory Report, SDG FC9446, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC9446
RHP06	RHP06-WGFD01LF-2309	FC9446	9/7/2023	SGS Orlando	Laboratory Report, SDG FC9446, Level 2, Revision 2	Laboratory Report, SDG FC9446, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC9446
RHP06	RHP06-WGN01LF-2309	FC9446	9/7/2023	SGS Orlando	Laboratory Report, SDG FC9446, Level 2, Revision 2	Laboratory Report, SDG FC9446, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC9446
NMW24	NMW24-WGN01LF-2309	FC9543	9/8/2023	SGS Orlando	Laboratory Report, SDG FC9543, Level 2, Revision 1	Laboratory Report, SDG FC9543, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC9543
RHMW04	RHMW04-WGN01LF-2309	FC9543	9/8/2023	SGS Orlando	Laboratory Report, SDG FC9543, Level 2, Revision 2	Laboratory Report, SDG FC9543, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC9543
RHMW06	RHMW06-WGN01LF-2309	FC9543	9/8/2023	SGS Orlando	Laboratory Report, SDG FC9543, Level 2, Revision 3	Laboratory Report, SDG FC9543, Level 4, Revision 3	Data Validation Report, Level 2B, SDG FC9543
RHMW17	RHMW17-WGFD01LF-2309	FC9543	9/8/2023	SGS Orlando	Laboratory Report, SDG FC9543, Level 2, Revision 4	Laboratory Report, SDG FC9543, Level 4, Revision 4	Data Validation Report, Level 2B, SDG FC9543
RHMW17	RHMW17-WGN01LF-2309	FC9543	9/8/2023	SGS Orlando	Laboratory Report, SDG FC9543, Level 2, Revision 5	Laboratory Report, SDG FC9543, Level 4, Revision 5	Data Validation Report, Level 2B, SDG FC9543
RHP03	RHP03-WGN01LF-2309	FC9543	9/8/2023	SGS Orlando	Laboratory Report, SDG FC9543, Level 2, Revision 6	Laboratory Report, SDG FC9543, Level 4, Revision 6	Data Validation Report, Level 2B, SDG FC9543
RHP04C	RHP04C-WGFD01LF-2309	FC9543	9/8/2023	SGS Orlando	Laboratory Report, SDG FC9543, Level 2, Revision 7	Laboratory Report, SDG FC9543, Level 4, Revision 7	Data Validation Report, Level 2B, SDG FC9543
RHP04C	RHP04C-WGN01LF-2309	FC9543	9/8/2023	SGS Orlando	Laboratory Report, SDG FC9543, Level 2, Revision 8	Laboratory Report, SDG FC9543, Level 4, Revision 8	Data Validation Report, Level 2B, SDG FC9543
RHP05	RHP05-WGN01LF-2309	FC9543	9/8/2023	SGS Orlando	Laboratory Report, SDG FC9543, Level 2, Revision 9	Laboratory Report, SDG FC9543, Level 4, Revision 9	Data Validation Report, Level 2B, SDG FC9543
RHP04A	RHP04A-WGN01LF-2309	FC9542	9/11/2023	SGS Orlando	Laboratory Report, SDG FC9542, Level 2, Revision 2	Laboratory Report, SDG FC9542, Level 4, Revision 2	Data Validation Report, Level 4, SDG FC9542
RHP04A	RHP04A-WGN01LF-2309	K2310236	9/11/2023	ALS Kelso	Laboratory Report, SDG K2310236, Level 2, Revision 1	Laboratory Report, SDG K2310236, Level 4, Revision 1	Data Validation Report, Level S2BVEM, SDG K2310236
RHP04B	RHP04B-WGN01LF-2309	FC9542	9/11/2023	SGS Orlando	Laboratory Report, SDG FC9542, Level 2, Revision 3	Laboratory Report, SDG FC9542, Level 4, Revision 3	Data Validation Report, Level 4, SDG FC9542
RHP04B	RHP04B-WGN01LF-2309	K2310236	9/11/2023	ALS Kelso	Laboratory Report, SDG K2310236, Level 2, Revision 2	Laboratory Report, SDG K2310236, Level 4, Revision 2	Data Validation Report, Level S2BVEM, SDG K2310236
RHP08	RHP08-WGN01LF-2309	FC9542	9/11/2023	SGS Orlando	Laboratory Report, SDG FC9542, Level 2, Revision 4	Laboratory Report, SDG FC9542, Level 4, Revision 4	Data Validation Report, Level 4, SDG FC9542
RHP08	RHP08-WGN01LF-2309	K2310236	9/11/2023	ALS Kelso	Laboratory Report, SDG K2310236, Level 2, Revision 3	Laboratory Report, SDG K2310236, Level 4, Revision 3	Data Validation Report, Level S2BVEM, SDG K2310236
NMW32	NMW32-WGN01LF-2309	FC9641	9/13/2023	SGS Orlando	Laboratory Report, SDG FC9641, Level 2, Revision 2	Laboratory Report, SDG FC9641, Level 4, Revision 2	Data Validation Report, Level 4, SDG FC9641
October 2023 Monthly Sampling							
NMW24	NMW24-WGN01LF-2310	B23100338	10/2/2023	Energy	Laboratory Report, SDG B23100338, Level 2	Laboratory Report, SDG B23100338, Level 4	Data Validation Report, Level S4VEM, SDG B23100338
NMW24	NMW24-WGN01LF-2310	FC10161	10/2/2023	SGS Orlando	Laboratory Report, SDG FC10161, Level 2, Revision 3	Laboratory Report, SDG FC10161, Level 4, Revision 3	Data Validation Report, Level 4, SDG FC10161, Revision
NMW24	NMW24-WGN01LF-2310	K2311233	10/2/2023	ALS Kelso	Laboratory Report, SDG K2311233, Level 2	Laboratory Report, SDG K2311233, Level 4	Data Validation Report, Level S2BVEM, SDG K2311233
NMW25	NMW25-WGN01LF-2310	B23100338	10/2/2023	Energy	Laboratory Report, SDG B23100338, Level 2	Laboratory Report, SDG B23100338, Level 4	Data Validation Report, Level S4VEM, SDG B23100338
NMW25	NMW25-WGN01LF-2310	FC10161	10/2/2023	SGS Orlando	Laboratory Report, SDG FC10161, Level 2, Revision 3	Laboratory Report, SDG FC10161, Level 4, Revision 3	Data Validation Report, Level 4, SDG FC10161, Revision
NMW25	NMW25-WGN01LF-2310	K2311233	10/2/2023	ALS Kelso	Laboratory Report, SDG K2311233, Level 2	Laboratory Report, SDG K2311233, Level 4	Data Validation Report, Level S2BVEM, SDG K2311233
RHMW11-05	RHMW11-05-WGN01G-2310	FC10202	10/2/2023	SGS Orlando	Laboratory Report, SDG FC10202, Level 2, Revision 2	Laboratory Report, SDG FC10202, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC10202
RHMW11-05	RHMW11-05-WGN01G-2310	K2311233	10/2/2023	ALS Kelso	Laboratory Report, SDG K2311233, Level 2	Laboratory Report, SDG K2311233, Level 4	Data Validation Report, Level S2BVEM, SDG K2311233
RHMW14-03	RHMW14-03-WGN01G-2310	FC10202	10/2/2023	SGS Orlando	Laboratory Report, SDG FC10202, Level 2, Revision 2	Laboratory Report, SDG FC10202, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC10202
RHMW14-03	RHMW14-03-WGN01G-2310	K2311233	10/2/2023	ALS Kelso	Laboratory Report, SDG K2311233, Level 2	Laboratory Report, SDG K2311233, Level 4	Data Validation Report, Level S2BVEM, SDG K2311233
RHP05	RHP05-WGN01LF-2310	B23100338	10/2/2023	Energy	Laboratory Report, SDG B23100338, Level 2	Laboratory Report, SDG B23100338, Level 4	Data Validation Report, Level S4VEM, SDG B23100338
RHP05	RHP05-WGN01LF-2310	FC10161	10/2/2023	SGS Orlando	Laboratory Report, SDG FC10161, Level 2, Revision 3	Laboratory Report, SDG FC10161, Level 4, Revision 3	Data Validation Report, Level 4, SDG FC10161, Revision
RHP05	RHP05-WGN01LF-2310	K2311233	10/2/2023	ALS Kelso	Laboratory Report, SDG K2311233, Level 2	Laboratory Report, SDG K2311233, Level 4	Data Validation Report, Level S2BVEM, SDG K2311233
RHP06	RHP06-WGN01LF-2310	B23100338	10/2/2023	Energy	Laboratory Report, SDG B23100338, Level 2	Laboratory Report, SDG B23100338, Level 4	Data Validation Report, Level S4VEM, SDG B23100338
RHP06	RHP06-WGFD01LF-2310	FC10161	10/2/2023	SGS Orlando	Laboratory Report, SDG FC10161, Level 2, Revision 3	Laboratory Report, SDG FC10161, Level 4, Revision 3	Data Validation Report, Level 4, SDG FC10161, Revision
RHP06	RHP06-WGN01LF-2310	FC10161	10/2/2023	SGS Orlando	Laboratory Report, SDG FC10161, Level 2, Revision 3	Laboratory Report, SDG FC10161, Level 4, Revision 3	Data Validation Report, Level 4, SDG FC10161, Revision
RHP06	RHP06-WGN01LF-2310	K2311233	10/2/2023	ALS Kelso	Laboratory Report, SDG K2311233, Level 2	Laboratory Report, SDG K2311233, Level 4	Data Validation Report, Level S2BVEM, SDG K2311233
HDMW2253-03	HDMW2253-03-WGN01LF-2310	FC10202	10/3/2023	SGS Orlando	Laboratory Report, SDG FC10202, Level 2, Revision 2	Laboratory Report, SDG FC10202, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC10202
HDMW2253-03	HDMW2253-03-WGN01LF-2310	K2311233	10/3/2023	ALS Kelso	Laboratory Report, SDG K2311233, Level 2	Laboratory Report, SDG K2311233, Level 4	Data Validation Report, Level S2BVEM, SDG K2311233
NMW32	NMW32-WGN01LF-2310	B23100338	10/3/2023	Energy	Laboratory Report, SDG B23100338, Level 2	Laboratory Report, SDG B23100338, Level 4	Data Validation Report, Level S4VEM, SDG B23100338
NMW32	NMW32-WGN01LF-2310	FC10202	10/3/2023	SGS Orlando	Laboratory Report, SDG FC10202, Level 2, Revision 2	Laboratory Report, SDG FC10202, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC10202
NMW32	NMW32-WGN01LF-2310	K2311233	10/3/2023	ALS Kelso	Laboratory Report, SDG K2311233, Level 2	Laboratory Report, SDG K2311233, Level 4	Data Validation Report, Level S2BVEM, SDG K2311233
NMW33	NMW33-WGN01LF-2310	B23100338	10/3/2023	Energy	Laboratory Report, SDG B23100338, Level 2	Laboratory Report, SDG B23100338, Level 4	Data Validation Report, Level S4VEM, SDG B23100338
NMW33	NMW33-WGN01LF-2310	FC10202	10/3/2023	SGS Orlando	Laboratory Report, SDG FC10202, Level 2, Revision 2	Laboratory Report, SDG FC10202, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC10202
NMW33	NMW33-WGN01LF-2310	K2311328	10/3/2023	ALS Kelso	Laboratory Report, SDG K2311328, Level 2	Laboratory Report, SDG K2311328, Level 4	Data Validation Report, Level S2BVEM, SDG K2311328
RHMW12A	RHMW12A-WGN01LF-2310	B23100338	10/3/2023	Energy	Laboratory Report, SDG B23100338, Level 2	Laboratory Report, SDG B23100338, Level 4	Data Validation Report, Level S4VEM, SDG B23100338
RHMW12A	RHMW12A-WGN01LF-2310	FC10202	10/3/2023	SGS Orlando	Laboratory Report, SDG FC10202, Level 2, Revision 2	Laboratory Report, SDG FC10202, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC10202
RHMW12A	RHMW12A-WGN01LF-2310	K2311328	10/3/2023	ALS Kelso	Laboratory Report, SDG K2311328, Level 2	Laboratory Report, SDG K2311328, Level 4	Data Validation Report, Level S2BVEM, SDG K2311328
RHP08	RHP08-WGN01LF-2310	B23100338	10/3/2023	Energy	Laboratory Report, SDG B23100338, Level 2	Laboratory Report, SDG B23100338, Level 4	Data Validation Report, Level S4VEM, SDG B23100338
RHP08	RHP08-WGN01LF-2310	FC10202	10/3/2023	SGS Orlando	Laboratory Report, SDG FC10202, Level 2, Revision 2	Laboratory Report, SDG FC10202, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC10202
RHP08	RHP08-WGN01LF-2310	K2311328	10/3/2023	ALS Kelso	Laboratory Report, SDG K2311328, Level 2	Laboratory Report, SDG K2311328, Level 4	Data Validation Report, Level S2BVEM, SDG K2311328
RHMW01R	RHMW01R-WGN01LF-2310	FC10295	10/4/2023	SGS Orlando	Laboratory Report, SDG FC10295, Level 2, Revision 3	Laboratory Report, SDG FC10295, Level 4, Revision 3	Data Validation Report, Level 2B, SDG FC10295
RHMW01R	RHMW01R-WGN01LF-2310	K2311474	10/4/2023	ALS Kelso	Laboratory Report, SDG K2311474, Level 2	Laboratory Report, SDG K2311474, Level 4	Data Validation Report, Level S2BVEM, SDG K2311474
RHMW05	RHMW05-WGN01LF-2310	FC10295	10/4/2023	SGS Orlando	Laboratory Report, SDG FC10295, Level 2, Revision 3	Laboratory Report, SDG FC10295, Level 4, Revision 3	Data Validation Report, Level 2B, SDG FC10295
RHMW05	RHMW05-WGN01LF-2310	K2311474	10/4/2023	ALS Kelso	Laboratory Report, SDG K2311474, Level 2	Laboratory Report, SDG K2311474, Level 4	Data Validation Report, Level S2BVEM, SDG K2311474
RHMW08	RHMW08-WGFD01LF-2310	FC10248	10/4/2023	SGS Orlando	Laboratory Report, SDG FC10248, Level 2, Revision 2	Laboratory Report, SDG FC10248, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC10248
RHMW08	RHMW08-WGN01LF-2310	FC10248	10/4/2023	SGS Orlando	Laboratory Report, SDG FC10248, Level 2, Revision 2	Laboratory Report, SDG FC10248, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC10248
RHMW08	RHMW08-WGN01LF-2310	K2311474	10/4/2023	ALS Kelso	Laboratory Report, SDG K2311474, Level 2	Laboratory Report, SDG K2311474, Level 4	Data Validation Report, Level S2BVEM, SDG K2311474
RHMW15-05	RHMW15-05-WGN01G-2310	FC10248	10/4/2023	SGS Orlando	Laboratory Report, SDG FC10248, Level 2, Revision 2	Laboratory Report, SDG FC10248, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC10248
RHMW15-05	RHMW15-05-WGN01G-2310	K2311474	10/4/2023	ALS Kelso	Laboratory Report, SDG K2311474, Level 2	Laboratory Report, SDG K2311474, Level 4	Data Validation Report, Level S2BVEM, SDG K2311474
RHMW17	RHMW17-WGFD01LF-2310	FC10248	10/4/2023	SGS Orlando	Laboratory Report, SDG FC10248, Level 2, Revision 2	Laboratory Report, SDG FC10248, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC10248
RHMW17	RHMW17-WGN01LF-2310	FC10248	10/4/2023	SGS Orlando	Laboratory Report, SDG FC10248, Level 2, Revision 2	Laboratory Report, SDG FC10248, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC10248
RHMW17	RHMW17-WGN01LF-2310	K2311474	10/4/2023	ALS Kelso	Laboratory Report, SDG K2311474, Level 2	Laboratory Report, SDG K2311474, Level 4	Data Validation Report, Level S2BVEM, SDG K2311474
RHP01	RHP01-WGN01LF-2310	B23100765	10/4/2023	Energy	Laboratory Report, SDG B23100765, Level 2	Laboratory Report, SDG B23100765, Level 4	Data Validation Report, Level S2BVEM, SDG B23100765
RHP01	RHP01-WGN01LF-2310	FC10295	10/4/2023	SGS Orlando	Laboratory Report, SDG FC10295, Level 2, Revision 3	Laboratory Report, SDG FC10295, Level 4, Revision 3	Data Validation Report, Level 2B, SDG FC10295
RHP01	RHP01-WGN01LF-2310	K2311474	10/4/2023	ALS Kelso	Laboratory Report, SDG K2311474, Level 2	Laboratory Report, SDG K2311474, Level 4	Data Validation Report, Level S2BVEM, SDG K2311474
RHMW09	RHMW09-WGN01LF-2310	FC10295	10/5/2023	SGS Orlando	Laboratory Report, SDG FC10295, Level 2, Revision 3	Laboratory Report, SDG FC10295, Level 4, Revision 3	Data Validation Report, Level 2B, SDG FC10295
RHMW09	RHMW09-WGN01LF-2310	K2311474	10/5/2023	ALS Kelso	Laboratory Report, SDG K2311474, Level 2	Laboratory Report, SDG K2311474, Level 4	Data Validation Report, Level S2BVEM, SDG K2311474
RHMW10	RHMW10-WGN01LF-2310	FC10295	10/5/2023	SGS Orlando	Laboratory Report, SDG FC10295, Level 2, Revision 3	Laboratory Report, SDG FC10295, Level 4, Revision 3	Data Validation Report, Level 2B, SDG FC10295
RHMW10	RHMW10-WGN01LF-2310	K2311474	10/5/2023	ALS Kelso	Laboratory Report, SDG K2311474, Level 2	Laboratory Report, SDG K2311474, Level 4	Data Validation Report, Level S2BVEM, SDG K2311474
RHMW13-05	RHMW13-05-WGN01G-2310	FC10336	10/5/2023	SGS Orlando	Laboratory Report, SDG FC10336, Level 2, Revision 2	Laboratory Report, SDG FC10336, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC10336
RHMW13-05	RHMW13-05-WGN01G-2310	K2311474	10/5/2023	ALS Kelso	Laboratory Report, SDG K2311474, Level 2	Laboratory Report, SDG K2311474, Level 4	Data Validation Report, Level S2BVEM, SDG K2311474
RHMW16	RHMW16-WGN01LF-2310	FC10295	10/5/2023	SGS Orlando	Laboratory Report, SDG FC10295, Level 2, Revision 3	Laboratory Report, SDG FC10295, Level 4, Revision 3	Data Validation Report, Level 2B, SDG FC10295
RHMW16	RHMW16-WGN01LF-2310	K2311474	10/5/2023	ALS Kelso	Laboratory Report, SDG K2311474, Level 2	Laboratory Report, SDG K2311474, Level 4	Data Validation Report, Level S2BVEM, SDG K2311474
RHMW19	RHMW19-WGN01LF-2310	B23100765	10/5/2023	Energy	Laboratory Report, SDG B23100765, Level 2	Laboratory Report, SDG B23100765, Level 4	Data Validation Report, Level S2BVEM, SDG B23100765
RHMW19	RHMW19-WGN01LF-2310	FC10295	10/5/2023	SGS Orlando	Laboratory Report, SDG FC10295, Level 2, Revision 3	Laboratory Report, SDG FC10295, Level 4, Revision 3	Data Validation Report, Level 2B, SDG FC10295
RHMW19	RHMW19-WGN01LF-2310	K2311474	10/5/2023	ALS Kelso	Laboratory Report, SDG K2311474, Level 2	Laboratory Report, SDG K2311474, Level 4	Data Validation Report, Level S2BVEM, SDG K2311474
RHMW20	RHMW20-WGN01LF-2310	B23100765	10/5/2023	Energy	Laboratory Report, SDG B23100765, Level 2	Laboratory Report, SDG B23100765, Level 4	Data Validation Report, Level S2BVEM, SDG B23100765
RHMW20	RHMW20-WGN01LF-2310	FC10295	10/5/2023	SGS Orlando	Laboratory Report, SDG FC10295, Level 2, Revision 3	Laboratory Report, SDG FC10295, Level 4, Revision 3	Data Validation Report, Level 2B, SDG FC10295
RHMW20	RHMW20-WGN01LF-2310	K2311474	10/5/2023	ALS Kelso	Laboratory Report, SDG K2311474, Level 2	Laboratory Report, SDG K2311474, Level 4	Data Validation Report, Level S2BVEM, SDG K2311474
RHMW2254-01	RHMW2254-01-WGN01LF-2310	FC10295	10/5/2023	SGS Orlando	Laboratory Report, SDG FC10295, Level 2, Revision 3	Laboratory Report, SDG FC10295, Level 4, Revision 3	Data Validation Report, Level 2B, SDG FC10295
RHMW2254-01	RHMW2254-01-WGN01LF-2310	K2311474	10/5/2023	ALS Kelso	Laboratory Report, SDG K2311474, Level 2	Laboratory Report, SDG K2311474, Level 4	Data Validation Report, Level S2BVEM, SDG K2311474
RHP07	RHP07-WGN01LF-2310	B23100765	10/5/2023	Energy	Laboratory Report, SDG B23100765, Level 2	Laboratory Report, SDG B23100765, Level 4	Data Validation Report, Level S2BVEM, SDG B23100765
RHP07	RHP07-WGN01LF-2310	FC10295	10/5/2023	SGS Orlando	Laboratory Report, SDG FC10295, Level 2, Revision 3	Laboratory Report, SDG FC10295, Level 4, Revision 3	Data Validation Report, Level 2B, SDG FC10295
RHP07	RHP07-WGN01LF-2310	K2311474	10/5/2023	ALS Kelso	Laboratory Report, SDG K2311474, Level 2	Laboratory Report, SDG K2311474, Level 4	Data Validation Report, Level S2BVEM, SDG K2311474
RHMW02	RHMW02-WGN01LF-2310	FC10336	10/6/2023	SGS Orlando	Laboratory Report, SDG FC10336, Level 2, Revision 2	Laboratory Report, SDG FC10336, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC10336
RHMW02	RHMW02-WGN01LF-2310	K2311474	10/6/2023	ALS Kelso	Laboratory Report, SDG K2311474, Level 2	Laboratory Report, SDG K2311474, Level 4	Data Validation Report, Level S2BVEM, SDG K2311474
RHMW03	RHMW03-WGN01LF-2310	B23100765	10/6/2023	Energy	Laboratory Report, SDG B23100765, Level 2	Laboratory Report, SDG B23100765, Level 4	Data Validation Report, Level S2BVEM, SDG B23100765
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Table D-1: Index of Analytical Laboratory Reports and Data Validation Reports, by Sample Collection Date (cont'd)

Sample Location Identifier	Sample ID	SDG	Sample Collection Date	Laboratory	Level 2 Lab Report PDF	Level 4 Lab Report PDF	DVR PDF
RHMW16	RHMW16-WGN01LF-2310WK4-DF	23J0296	10/26/2023	APPL	Laboratory Report, SDG 23J0296, Level 2	Laboratory Report, SDG 23J0296, Level 4	Data Validation Report, Level S2BVEM SDG 23J0296
RHP03	RHP03-WGN01LF-2310WK4-DF	FC10788	10/26/2023	SGS Orlando	Laboratory Report, SDG FC10788, Level 2	Laboratory Report, SDG FC10788, Level 4	Data Validation Report, Level 2B SDG FC10788
RHP03	RHP03-WGN01LF-2310WK4-DF	23J0296	10/26/2023	APPL	Laboratory Report, SDG 23J0296, Level 2	Laboratory Report, SDG 23J0296, Level 4	Data Validation Report, Level S2BVEM SDG 23J0296
RHP05	RHP05-WGN01LF-2310WK4-DF	FC10788	10/26/2023	SGS Orlando	Laboratory Report, SDG FC10788, Level 2	Laboratory Report, SDG FC10788, Level 4	Data Validation Report, Level 2B SDG FC10788
RHP05	RHP05-WGN01LF-2310WK4-DF	23J0296	10/26/2023	APPL	Laboratory Report, SDG 23J0296, Level 2	Laboratory Report, SDG 23J0296, Level 4	Data Validation Report, Level S2BVEM SDG 23J0296
RHP06	RHP06-WGFD01LF-2310WK4-DF	FC10809	10/27/2023	SGS Orlando	Laboratory Report, SDG FC10809, Level 2	Laboratory Report, SDG FC10809, Level 4	Data Validation Report, Level 2B SDG FC10809
RHP06	RHP06-WGN01LF-2310WK4-DF	FC10809	10/27/2023	SGS Orlando	Laboratory Report, SDG FC10809, Level 2	Laboratory Report, SDG FC10809, Level 4	Data Validation Report, Level 2B SDG FC10809
RHP06	RHP06-WGFD01LF-2310WK4-DF	23J0313	10/27/2023	APPL	Laboratory Report, SDG 23J0313, Level 2	Laboratory Report, SDG 23J0313, Level 4	Data Validation Report, Level S2BVEM 23J0313
RHP06	RHP06-WGN01LF-2310WK4-DF	23J0313	10/27/2023	APPL	Laboratory Report, SDG 23J0313, Level 2	Laboratory Report, SDG 23J0313, Level 4	Data Validation Report, Level S2BVEM 23J0313
RHP08	RHP08-WGN01LF-2310WK4-DF	FC10809	10/27/2023	SGS Orlando	Laboratory Report, SDG FC10809, Level 2	Laboratory Report, SDG FC10809, Level 4	Data Validation Report, Level 2B SDG FC10809
RHP08	RHP08-WGN01LF-2310WK4-DF	23J0313	10/27/2023	APPL	Laboratory Report, SDG 23J0313, Level 2	Laboratory Report, SDG 23J0313, Level 4	Data Validation Report, Level S2BVEM 23J0313
RHMW02	RHMW02-WGFD01LF-2310WK4-DF	FC10809	10/27/2023	SGS Orlando	Laboratory Report, SDG FC10809, Level 2	Laboratory Report, SDG FC10809, Level 4	Data Validation Report, Level 2B SDG FC10809
RHMW02	RHMW02-WGN01LF-2310WK4-DF	FC10809	10/27/2023	SGS Orlando	Laboratory Report, SDG FC10809, Level 2	Laboratory Report, SDG FC10809, Level 4	Data Validation Report, Level 2B SDG FC10809
RHMW03	RHMW03-WGN01LF-2310WK4-DF	FC10809	10/27/2023	SGS Orlando	Laboratory Report, SDG FC10809, Level 2	Laboratory Report, SDG FC10809, Level 4	Data Validation Report, Level 2B SDG FC10809
RHMW04	RHMW04-WGN01LF-2310WK5-DF	FC10844	10/30/2023	SGS Orlando	Laboratory Report, SDG FC10844, Level 2	Laboratory Report, SDG FC10844, Level 4	Data Validation Report, Level 2B SDG FC10844
RHMW04	RHMW04-WGN01LF-2310WK5-DF	23J0325	10/30/2023	APPL	Laboratory Report, SDG 23J0325, Level 2	Laboratory Report, SDG 23J0325, Level 4	Data Validation Report, Level S2BVEM 23J0325
RHMW06	RHMW06-WGN01LF-2310WK5-DF	FC10844	10/30/2023	SGS Orlando	Laboratory Report, SDG FC10844, Level 2	Laboratory Report, SDG FC10844, Level 4	Data Validation Report, Level 2B SDG FC10844
RHMW06	RHMW06-WGN01LF-2310WK5-DF	23J0325	10/30/2023	APPL	Laboratory Report, SDG 23J0325, Level 2	Laboratory Report, SDG 23J0325, Level 4	Data Validation Report, Level S2BVEM 23J0325
RHMW09	RHMW09-WGN01LF-2310WK5-DF	FC10844	10/30/2023	SGS Orlando	Laboratory Report, SDG FC10844, Level 2	Laboratory Report, SDG FC10844, Level 4	Data Validation Report, Level 2B SDG FC10844
RHMW09	RHMW09-WGN01LF-2310WK5-DF	23J0325	10/30/2023	APPL	Laboratory Report, SDG 23J0325, Level 2	Laboratory Report, SDG 23J0325, Level 4	Data Validation Report, Level S2BVEM 23J0325
RHMW11-05	RHMW11-05-WGN01G-2310WK5-DF	FC10844	10/30/2023	SGS Orlando	Laboratory Report, SDG FC10844, Level 2	Laboratory Report, SDG FC10844, Level 4	Data Validation Report, Level 2B SDG FC10844
RHMW11-05	RHMW11-05-WGN01G-2310WK5-DF	23J0325	10/30/2023	APPL	Laboratory Report, SDG 23J0325, Level 2	Laboratory Report, SDG 23J0325, Level 4	Data Validation Report, Level S2BVEM 23J0325
RHMW14-03	RHMW14-03-WGN01G-2310WK5-DF	FC10844	10/30/2023	SGS Orlando	Laboratory Report, SDG FC10844, Level 2	Laboratory Report, SDG FC10844, Level 4	Data Validation Report, Level 2B SDG FC10844
RHMW14-03	RHMW14-03-WGN01G-2310WK5-DF	23J0325	10/30/2023	APPL	Laboratory Report, SDG 23J0325, Level 2	Laboratory Report, SDG 23J0325, Level 4	Data Validation Report, Level S2BVEM 23J0325
RHMW19	RHMW19-WGN01LF-2310WK5-DF	FC10844	10/30/2023	SGS Orlando	Laboratory Report, SDG FC10844, Level 2	Laboratory Report, SDG FC10844, Level 4	Data Validation Report, Level 2B SDG FC10844
RHMW19	RHMW19-WGN01LF-2310WK5-DF	23J0325	10/30/2023	APPL	Laboratory Report, SDG 23J0325, Level 2	Laboratory Report, SDG 23J0325, Level 4	Data Validation Report, Level S2BVEM 23J0325
RHMW10	RHMW10-WGN01LF-2310WK5-DF	FC10882	10/31/2023	SGS Orlando	Laboratory Report, SDG FC10882, Level 2	Laboratory Report, SDG FC10882, Level 4	Data Validation Report, Level 2B SDG FC10882
RHMW10	RHMW10-WGN01LF-2310WK5-DF	23K0001	10/31/2023	APPL	Laboratory Report, SDG 23K0001, Level 2	Laboratory Report, SDG 23K0001, Level 4	Data Validation Report, Level S2BVEM 23K0001
RHMW13-04	RHMW13-04-WGN01G-2310WK5-DF	FC10882	10/31/2023	SGS Orlando	Laboratory Report, SDG FC10882, Level 2	Laboratory Report, SDG FC10882, Level 4	Data Validation Report, Level 2B SDG FC10882
RHMW13-04	RHMW13-04-WGN01G-2310WK5-DF	23K0001	10/31/2023	APPL	Laboratory Report, SDG 23K0001, Level 2	Laboratory Report, SDG 23K0001, Level 4	Data Validation Report, Level S2BVEM 23K0001
RHMW16	RHMW16-WGN01LF-2310WK5-DF	FC10882	10/31/2023	SGS Orlando	Laboratory Report, SDG FC10882, Level 2	Laboratory Report, SDG FC10882, Level 4	Data Validation Report, Level 2B SDG FC10882
RHMW16	RHMW16-WGN01LF-2310WK5-DF	23K0001	10/31/2023	APPL	Laboratory Report, SDG 23K0001, Level 2	Laboratory Report, SDG 23K0001, Level 4	Data Validation Report, Level S2BVEM 23K0001
RHMW01R	RHMW01R-WGN01LF-2310WK5-DF	FC10882	10/31/2023	SGS Orlando	Laboratory Report, SDG FC10882, Level 2	Laboratory Report, SDG FC10882, Level 4	Data Validation Report, Level 2B SDG FC10882
RHMW05	RHMW05-WGN01LF-2310WK5-DF	FC10882	10/31/2023	SGS Orlando	Laboratory Report, SDG FC10882, Level 2	Laboratory Report, SDG FC10882, Level 4	Data Validation Report, Level 2B SDG FC10882
RHMW2254-01	RHMW2254-01-WGF01LF-2310WK5-DF	FC10882	10/31/2023	SGS Orlando	Laboratory Report, SDG FC10882, Level 2	Laboratory Report, SDG FC10882, Level 4	Data Validation Report, Level 2B SDG FC10882
RHMW2254-01	RHMW2254-01-WGN01LF-2310WK5-DF	FC10882	10/31/2023	SGS Orlando	Laboratory Report, SDG FC10882, Level 2	Laboratory Report, SDG FC10882, Level 4	Data Validation Report, Level 2B SDG FC10882
RHP07	RHP07-WGN01LF-2310WK5-DF	FC10882	10/31/2023	SGS Orlando	Laboratory Report, SDG FC10882, Level 2	Laboratory Report, SDG FC10882, Level 4	Data Validation Report, Level 2B SDG FC10882
2023 Fourth Quarter Groundwater LTM Sampling							
HDMW2253-03	HDMW2253-03-WGN01LF-23Q4	23J0035	10/3/2023	APPL	Laboratory Report, SDG 23J0035, Level 2	Laboratory Report, SDG 23J0035, Level 4	Data Validation Report, Level S2BVEM 23J0035
HDMW2253-03	HDMW2253-03-WGN01LF-23Q4	B23100332	10/3/2023	Energy	Laboratory Report, SDG B23100332, Level 2	Laboratory Report, SDG B23100332, Stage 4	Data Validation Report, Level S2BVEM B23100332
HDMW2253-03	HDMW2253-03-WGN01LF-23Q4	FC10199	10/3/2023	SGS Orlando	Laboratory Report, SDG FC10199 Level 2 Revision 3	Laboratory Report, SDG FC10199 Level 4 Revision 3	Data Validation Report, Level S2BVEM, SDG FC10199 REV 1
NMW33	NMW33-WGN01LF-23Q4	23J0094	10/9/2023	APPL	Laboratory Report, SDG 23J0094 APPL L2 DOD FINAL 10 26 23 1752 Level 2	aboratory Report, SDG 23J0094 APPL L4 DOD (Rev0) Level 4	Data Validation Report, Level S2BVEM 23J0094
NMW33	NMW33-WGN01LF-23Q4	B23100745	10/9/2023	Energy	Laboratory Report, SDG B23100745, Level 2	Laboratory Report, SDG B23100745, Stage 4	Data Validation Report, Level S2BVEM B23100745
NMW33	NMW33-WGN01LF-23Q4	FC10327	10/9/2023	SGS Orlando	Laboratory Report, SDG FC10327 Level 2 Revision 3	Laboratory Report, SDG FC10327 Level 4 Revision 3	Data Validation Report, Level S2BVEM, SDG FC10327 REV 1
RHMW02	RHMW02-WGN01LF-23Q4	23J0093	10/9/2023	APPL	Laboratory Report, SDG 23J0093 APPL L2 DOD FINAL 10 24 23 1148 Level 2	Laboratory Report, SDG 23J0093 APPL L4 DOD FINAL 10 24 23 1148 Level 4	Data Validation Report, Level S2BVEM 23J0093
RHMW02	RHMW02-WGN01LF-23Q4	B23100745	10/9/2023	Energy	Laboratory Report, SDG B23100745, Level 2	Laboratory Report, SDG B23100745, Stage 4	Data Validation Report, Level S2BVEM B23100745
RHMW02	RHMW02-WGN01LF-23Q4	FC10327	10/9/2023	SGS Orlando	Laboratory Report, SDG FC10327 Level 2 Revision 3	Laboratory Report, SDG FC10327 Level 4 Revision 3	Data Validation Report, Level S2BVEM, SDG FC10327 REV 1
RHMW03	RHMW03-WGN01LF-23Q4	23J0095	10/9/2023	APPL	Laboratory Report, SDG 23J0095 APPL L2 DOD FINAL 10 26 23 1820 Level 2	Laboratory Report, SDG 23J0095 APPL L4 DOD (Rev0) Level 4	Data Validation Report, Level S2BVEM 23J0095
RHMW03	RHMW03-WGN01LF-23Q4	B23100745	10/9/2023	Energy	Laboratory Report, SDG B23100745, Level 2	Laboratory Report, SDG B23100745, Stage 4	Data Validation Report, Level S2BVEM B23100745
RHMW03	RHMW03-WGN01LF-23Q4	FC10327	10/9/2023	SGS Orlando	Laboratory Report, SDG FC10327 Level 2 Revision 3	Laboratory Report, SDG FC10327 Level 4 Revision 3	Data Validation Report, Level S2BVEM, SDG FC10327 REV 1
RHMW11-05	RHMW11-05-WGN01G-23Q4	23J0095	10/9/2023	APPL	Laboratory Report, SDG 23J0095 APPL L2 DOD FINAL 10 26 23 1820 Level 2	Laboratory Report, SDG 23J0095 APPL L4 DOD (Rev0) Level 4	Data Validation Report, Level S2BVEM 23J0095
RHMW11-05	RHMW11-05-WGN01G-23Q4	B23100868	10/9/2023	Energy	Laboratory Report, SDG B23100868, Level 2	Laboratory Report, SDG B23100868, Stage 4	Data Validation Report, Level S4VEM B23100868
RHMW11-05	RHMW11-05-WGN01G-23Q4	FC10364	10/9/2023	SGS Orlando	Laboratory Report, SDG FC10364 Level 2 Revision 2	Laboratory Report, SDG FC10364 Level 4 Revision 2	Data Validation Report, Level S4VEM FC10364 REV 1
RHMW14-03	RHMW14-03-WGN01G-23Q4	23J0095	10/9/2023	APPL	Laboratory Report, SDG 23J0095 APPL L2 DOD FINAL 10 26 23 1820 Level 2	Laboratory Report, SDG 23J0095 APPL L4 DOD (Rev0) Level 4	Data Validation Report, Level S2BVEM 23J0095
RHMW14-03	RHMW14-03-WGN01G-23Q4	B23100745	10/9/2023	Energy	Laboratory Report, SDG B23100745, Level 2	Laboratory Report, SDG B23100745, Stage 4	Data Validation Report, Level S2BVEM B23100745
RHMW14-03	RHMW14-03-WGN01G-23Q4	FC10327	10/9/2023	SGS Orlando	Laboratory Report, SDG FC10327 Level 2 Revision 3	Laboratory Report, SDG FC10327 Level 4 Revision 3	Data Validation Report, Level S2BVEM, SDG FC10327 REV 1
RHP01	RHP01-WGN01LF-23Q4	23J0092	10/9/2023	APPL	Laboratory Report, SDG 23J0092 APPL L2 DOD FINAL 10 24 23 1330 Level 2	Laboratory Report, SDG 23J0092 APPL L4 DOD FINAL 10 24 23 1330 Level 4	Data Validation Report, Level S2BVEM 23J0092
RHP01	RHP01-WGN01LF-23Q4	B23100745	10/9/2023	Energy	Laboratory Report, SDG B23100745, Level 2	Laboratory Report, SDG B23100745, Stage 4	Data Validation Report, Level S2BVEM B23100745
RHP01	RHP01-WGN01LF-23Q4	FC10327	10/9/2023	SGS Orlando	Laboratory Report, SDG FC10327 Level 2 Revision 3	Laboratory Report, SDG FC10327 Level 4 Revision 3	Data Validation Report, Level S2BVEM, SDG FC10327 REV 1
NMW32	NMW32-WGN01LF-23Q4	23J0098	10/10/2023	APPL	Laboratory Report, SDG 23J0098 APPL L2 DOD FINAL 10 27 23 0943	Laboratory Report, SDG 23J0098 APPL L4 DOD (Rev0) Level 4	Data Validation Report, Level S2BVEM 23J0098
NMW32	NMW32-WGN01LF-23Q4	B23100868	10/10/2023	Energy	Laboratory Report, SDG B23100868, Level 2	Laboratory Report, SDG B23100868, Stage 4	Data Validation Report, Level S4VEM B23100868
NMW32	NMW32-WGN01LF-23Q4	FC10364	10/10/2023	SGS Orlando	Laboratory Report, SDG FC10364 Level 2 Revision 2	Laboratory Report, SDG FC10364 Level 4 Revision 2	Data Validation Report, Level S4VEM FC10364 REV 1
RHMW05	RHMW05-WGN01LF-23Q4	23J0116	10/10/2023	APPL	Laboratory Report, SDG 23J0116 APPL L2 DOD Rev 1	Laboratory Report, SDG 23J0116 APPL L4 DOD (Rev1)	Data Validation Report, Level S2BVEM 23J0116
RHMW05	RHMW05-WGN01LF-23Q4	B23101127	10/10/2023	Energy	Laboratory Report, SDG B23101127, Level 2	Laboratory Report, SDG B23101127, Stage 4	Data Validation Report, Level S2BVEM B23101127
RHMW05	RHMW05-WGN01LF-23Q4	FC10364	10/10/2023	SGS Orlando	Laboratory Report, SDG FC10364 Level 2 Revision 2	Laboratory Report, SDG FC10364 Level 4 Revision 2	Data Validation Report, Level S4VEM FC10364 REV 1
RHMW10	RHMW10-WGFD01LF-23Q4	23J0116	10/10/2023	APPL	Laboratory Report, SDG 23J0116 APPL L2 DOD Rev 1	Laboratory Report, SDG 23J0116 APPL L4 DOD (Rev1)	Data Validation Report, Level S2BVEM 23J0116
RHMW10	RHMW10-WGN01LF-23Q4	23J0116	10/10/2023	APPL	Laboratory Report, SDG 23J0116 APPL L2 DOD Rev 1	Laboratory Report, SDG 23J0116 APPL L4 DOD (Rev1)	Data Validation Report, Level S2BVEM 23J0116
RHMW10	RHMW10-WGFD01LF-23Q4	B23100868	10/10/2023	Energy	Laboratory Report, SDG B23100868, Level 2	Laboratory Report, SDG B23100868, Stage 4	Data Validation Report, Level S4VEM B23100868
RHMW10	RHMW10-WGN01LF-23Q4	B23100868	10/10/2023	Energy	Laboratory Report, SDG B23100868, Level 2	Laboratory Report, SDG B23100868, Stage 4	Data Validation Report, Level S4VEM B23100868
RHMW10	RHMW10-WGFD01LF-23Q4	FC10364	10/10/2023	SGS Orlando	Laboratory Report, SDG FC10364 Level 2 Revision 2	Laboratory Report, SDG FC10364 Level 4 Revision 2	Data Validation Report, Level S4VEM FC10364 REV 1
RHMW10	RHMW10-WGN01LF-23Q4	FC10364	10/10/2023	SGS Orlando	Laboratory Report, SDG FC10364 Level 2 Revision 2	Laboratory Report, SDG FC10364 Level 4 Revision 2	Data Validation Report, Level S4VEM FC10364 REV 1
RHMW13-04	RHMW13-04-WGN01G-23Q4	23J0131	10/10/2023	APPL	Laboratory Report, SDG 23J0131 APPL L2 DOD FINAL 11 14 23 1250 Level 2	Laboratory Report, SDG 23J0131 APPL L4 DOD (Rev0) Level 4	Data Validation Report, Level S2BVEM 23J0131
RHMW13-04	RHMW13-04-WGN01G-23Q4	B23101113	10/10/2023	Energy	Laboratory Report, SDG B23101113, Level 2	Laboratory Report, SDG B23101113, Stage 4	Data Validation Report, Level S2BVEM B23101113
RHMW13-04	RHMW13-04-WGN01G-23Q4	FC10448	10/10/2023	SGS Orlando	Laboratory Report, SDG FC10448 Level 2 Revision 2	Laboratory Report, SDG FC10448 Level 4 Revision 2	Data Validation Report, Level S2BVEM, SDG FC10448
RHMW20	RHMW20-WGN01LF-23Q4	23J0132	10/10/2023	APPL	Laboratory Report, SDG 23J0132 APPL L2 DOD FINAL 11 14 23 1308. Level 2pdf	Laboratory Report, SDG 23J0132 APPL L4 DOD (Rev0) Level 4	Data Validation Report, Level S2BVEM 23J0132
RHMW20	RHMW20-WGN01LF-23Q4	B23101127	10/10/2023	Energy	Laboratory Report, SDG B23101127, Level 2	Laboratory Report, SDG B23101127, Stage 4	Data Validation Report, Level S2BVEM B23101127
RHMW20	RHMW20-WGN01LF-23Q4	FC10442	10/10/2023	SGS Orlando	Laboratory Report, SDG FC10442 Level 2 Revision 2	Laboratory Report, SDG FC10442 Level 4 Revision 2	Data Validation Report, Level S2BVEM, SDG FC10442 REV 1
RHP07	RHP07-WGN01LF-23Q4	23J0098	10/10/2023	APPL	Laboratory Report, SDG 23J0098 APPL L2 DOD FINAL 10 27 23 0943	Laboratory Report, SDG 23J0098 APPL L4 DOD (Rev0) Level 4	Data Validation Report, Level S2BVEM 23J0098
RHP07	RHP07-WGN01LF-23Q4	B23100868	10/10/2023	Energy	Laboratory Report, SDG B23100868, Level 2	Laboratory Report, SDG B23100868, Stage 4	Data Validation Report, Level S4VEM B23100868
RHP07	RHP07-WGN01LF-23Q4	FC10364	10/10/2023	SGS Orlando	Laboratory Report, SDG FC10364 Level 2 Revision 2	Laboratory Report, SDG FC10364 Level 4 Revision 2	Data Validation Report, Level S4VEM FC10364 REV 1
RHMW08	RHMW08-WGFD01LF-23Q4	23J0132	10/11/2023	APPL	Laboratory Report, SDG 23J0132 APPL L2 DOD FINAL 11 14 23 1308. Level 2pdf	Laboratory Report, SDG 23J0132 APPL L4 DOD (Rev0) Level 4	Data Validation Report, Level S2BVEM 23J0132
RHMW08	RHMW08-WGN01LF-23Q4	23J0132	10/11/2023	APPL	Laboratory Report, SDG 23J0132 APPL L2 DOD FINAL 11 14 23 1308. Level 2pdf	Laboratory Report, SDG 23J0132 APPL L4 DOD (Rev0) Level 4	Data Validation Report, Level S2BVEM 23J0132
RHMW08	RHMW08-WGFD01LF-23Q4	B23101127	10/11/2023	Energy	Laboratory Report, SDG B23101127, Level 2	Laboratory Report, SDG B23101127, Stage 4	Data Validation Report, Level S2BVEM B23101127
RHMW08	RHMW08-WGN01LF-23Q4	B23101127	10/11/2023	Energy	Laboratory Report, SDG B23101127, Level 2	Laboratory Report, SDG B23101127, Stage 4	Data Validation Report, Level S2BVEM B23101127
RHMW08	RHMW08-WGFD01LF-23Q4	FC10442	10/11/2023	SGS Orlando	Laboratory Report, SDG FC10442 Level 2 Revision 2	Laboratory Report, SDG FC10442 Level 4 Revision 2	Data Validation Report, Level S2BVEM, SDG FC10442 REV 1
RHMW08	RHMW08-WGN01LF-23Q4	FC10442	10/11/2023	SGS Orlando	Laboratory Report, SDG FC10442 Level 2 Revision 2	Laboratory Report, SDG FC10442 Level 4 Revision 2	Data Validation Report, Level S2BVEM, SDG FC10442 REV 1
RHMW15-05	RHMW15-05-WGN01G-23Q4	23J0132	10/11/2023	APPL	Laboratory Report, SDG 23J0132 APPL L2 DOD FINAL 11 14 23 1308. Level 2pdf	Laboratory Report, SDG 23J0132 APPL L4 DOD (Rev0) Level 4	Data Validation Report, Level S2BVEM 23J0132
RHMW15-05	RHMW15-05-WGN01G-23Q4	B23101127	10/11/2023	Energy	Laboratory Report, SDG B23101127, Level 2	Laboratory Report, SDG B23101127, Stage 4	Data Validation Report, Level S2BVEM B23101127
RHMW15-05	RHMW15-05-WGN01G-23Q4	FC10442	10/11/2023	SGS Orlando	Laboratory Report, SDG FC10442 Level 2 Revision 2	Laboratory Report, SDG FC10442 Level 4 Revision 2	Data Validation Report, Level S2BVEM, SDG FC10442 REV 1
RHMW17	RHMW17-WGN01LF-23Q4	23J0124	10/11/2023	APPL	Laboratory Report, SDG 23J0124 APPL L2 DOD FINAL 11 10 23 1551 Level 2	Laboratory Report, SDG 23J0124 APPL L4 DOD (Rev0) Level 4	Data Validation Report, Level S2BVEM 23J0124
RHMW17	RHMW17-WGN01LF-23Q4	B23101127	10/11/2023	Energy	Laboratory Report, SDG B23101127, Level 2	Laboratory Report, SDG B23101127, Stage 4	Data Validation Report, Level S2BVEM B23101127
RHMW17	RHMW17-WGN01LF-23Q4	FC10442	10/11/2023	SGS Orlando	Laboratory Report, SDG FC10442 Level 2 Revision 2	Laboratory Report, SDG FC10442 Level 4 Revision 2	Data Validation Report, Level S2BVEM, SDG FC10442 REV 1
RHP06	RHP06-WGFD01LF-23Q4	23J0132	10/11/2023	APPL	Laboratory Report, SDG 23J0132 APPL L2 DOD FINAL 11 14 23 1308. Level 2pdf	Laboratory Report, SDG 23J0132 APPL L4 DOD (Rev0) Level 4	Data Validation Report, Level S2BVEM 23J0132
RHP06	RHP06-WGN01LF-23Q4	23J0132	10/11/2023	APPL	Laboratory Report, SDG 23J0132 APPL L2 DOD FINAL 11 14 23 1308. Level 2pdf	Laboratory Report, SDG 23J0132 APPL L4 DOD (Rev0) Level 4	Data Validation Report, Level S2BVEM 23J0132
RHP06	RHP06-WGFD01LF-23Q4	B23101127	10/11/2023	Energy	Laboratory Report, SDG B23101127, Level 2	Laboratory Report, SDG B23101127, Stage 4	Data Validation Report, Level S2BVEM B23101127
RHP06	RHP06-WGN01LF-23Q4	B23101127	10/11/2023	Energy	Laboratory Report, SDG B23101127, Level 2	Laboratory Report, SDG B23101127, Stage 4	Data Validation Report, Level S2BVEM B23101127
RHP06	RHP06-WGFD01LF-23Q4	FC10442	10/11/2023	SGS Orlando	Laboratory Report, SDG FC10442 Level 2 Revision 2	Laboratory Report, SDG FC10442 Level 4 Revision 2	Data Validation Report, Level S2BVEM, SDG FC10442 REV 1
RHP06	RHP06-WGN01LF-23Q4	FC10442	10/11/2023	SGS Orlando	Laboratory Report, SDG FC10442 Level 2 Revision 2	Laboratory Report, SDG FC10442 Level 4 Revision 2	Data Validation Report, Level S2BVEM, SDG FC10442 REV 1
RHP08	RHP08-WGN01LF-23Q4	23J0132	10/11/2023	APPL	Laboratory Report, SDG 23J0132 APPL L2 DOD FINAL 11 14 23 1308. Level 2pdf	Laboratory Report, SDG 23J0132 APPL L4 DOD (Rev0) Level 4	Data Validation Report, Level S2BVEM 23J0132
RHP08	RHP08-WGN01LF-23Q4	B23101127	10/11/2023	Energy	Laboratory Report, SDG B23101127, Level 2	Laboratory Report, SDG B23101127, Stage 4	Data Validation Report, Level S2BVEM B23101127
RHP08	RHP08-WGN01LF-23Q4	FC10442	10/11/2023	SGS Orlando	Laboratory Report, SDG FC10442 Level 2 Revision 2	Laboratory Report, SDG FC10442 Level 4 Revision 2	Data Validation Report, Level S2BVEM, SDG FC10442 REV 1
RHMW01R	RHMW01R-WGN01LF-23Q4	23J0127	10/12/2023	APPL	Laboratory Report, SDG 23J0127 APPL L2 DOD FINAL 11 14 23 0825 Level 2	Laboratory Report, SDG 23J0127 APPL L4 DOD (Rev0) Level 4	Data Validation Report, Level S2BVEM 23J0127
RHMW01R	RHMW01R-WGN01LF-23Q4	B23101113	10/12/2023	Energy	Laboratory Report, SDG B23101113, Level 2	Laboratory Report, SDG B23101113, Stage 4	Data Validation Report, Level S2BVEM B23101113
RHMW01R	RHMW01R-WGN01LF-23Q4	FC10448	10/12/2023	SGS Orlando	Laboratory Report, SDG FC10448 Level 2 Revision 2	Laboratory Report, SDG FC10448 Level 4 Revision 2	Data Validation Report, Level S2BVEM, SDG FC10448
RHMW09	RHMW09-WGN01LF-23Q4	23J0131	10/12/2023	APPL	Laboratory Report, SDG 23J0131 APPL L2 DOD FINAL 11 14 23 1250 Level 2	Laboratory Report, SDG 23J0131 APPL L4 DOD (Rev0) Level 4	Data Validation Report, Level S2BVEM 23J0131
RHMW09	RHMW09-WGN01LF-23Q4	B23101113	10/12/2023	Energy	Laboratory Report, SDG B23101113, Level 2	Laboratory Report, SDG B23101113, Stage 4	Data Validation Report, Level S2BVEM B23101113
RHMW09	RHMW09-WGN01LF-23Q4	FC10448	10/12/2023	SGS Orlando	Laboratory Report, SDG FC10448 Level 2 Revision 2	Laboratory Report, SDG FC10448 Level 4 Revision 2	Data Validation Report, Level S2BVEM, SDG FC10448
RHMW12A	RHMW12A-WGN01LF-23Q4	23J0131	10/12/2023	APPL	Laboratory Report, SDG 23J0131 APPL L2 DOD FINAL 11 14 23 1250 Level 2	Laboratory Report, SDG 23J0131 APPL L4 DOD (Rev0) Level 4	Data Validation Report, Level S2BVEM 23J0131
RHMW12A	RHMW12A-WGN01LF-23Q4	B23101113	10/12/2023	Energy	Laboratory Report, SDG B23101113, Level 2	Laboratory Report, SDG B23101113, Stage 4	Data Validation Report, Level S2BVEM B23101113
RHMW12A	RHMW12A-WGN01LF-23Q4	FC10448	10/12/2023	SGS Orlando	Laboratory Report, SDG FC10448 Level 2 Revision 2	Laboratory Report, SDG FC10448 Level 4 Revision 2	Data Validation Report, Level S2BVEM, SDG FC10448
RHMW16	RHMW16-WGFD01LF-23Q4	23J0131	10/12/2023	APPL	Laboratory Report, SDG 23J0131 APPL L2 DOD FINAL 11 14 23 1250 Level 2	Laboratory Report, SDG 23J0131 APPL L4 DOD (Rev0) Level 4	Data Validation Report, Level S2BVEM 23J0131
RHMW16	RHMW16-WGN01LF-23Q4	23J0131	10/12/2023	APPL	Laboratory Report, SDG 23J0131 APPL L2 DOD FINAL 11 14 23 1250 Level 2	Laboratory Report, SDG 23J0131 APPL L4 DOD (Rev0) Level 4	Data Validation Report, Level S2BVEM 23J0131
RHMW16	RHMW16-WGFD01LF-23Q4	B23101113	10/12/2023	Energy	Laboratory Report, SDG B23101113, Level 2	Laboratory Report, SDG B23101113, Stage 4	Data Validation Report, Level S2BVEM B23101113
RHMW16	RHMW16-WGN01LF-23Q4	B23101113	10/12/2023	Energy	Laboratory Report, SDG B23101113, Level 2	Laboratory Report, SDG B23101113, Stage 4	Data Validation Report, Level S2BVEM B23101113
RHMW16	RHMW16-WGFD01LF-23Q4	FC10448	10/12/2023	SGS Orlando	Laboratory Report, SDG FC10448 Level 2 Revision 2	Laboratory Report, SDG FC10448 Level 4 Revision 2	Data Validation Report, Level S2BVEM, SDG FC10448
RHMW16	RHMW16-WGN01LF-23Q4	FC10448	10/12/2023	SGS Orlando	Laboratory Report, SDG FC10448 Level 2 Revision 2	Laboratory Report, SDG FC10448 Level 4 Revision 2	Data Validation Report, Level S2BVEM, SDG FC10448
RHMW19	RHMW19-WGN01LF-23Q4	23J0131	10/12/2023	APPL	Laboratory Report, SDG 23J0131 APPL L2 DOD FINAL 11 14 23 1250 Level 2	Laboratory Report, SDG 23J0131 APPL L4 DOD (Rev0) Level 4	Data Validation Report, Level S2BVEM 23J0131
RHMW19	RHMW19-WGN01LF-23Q4	B23101113	10/12/2023	Energy	Laboratory Report, SDG B23101113, Level 2	Laboratory Report, SDG B23101113, Stage 4	Data Validation Report, Level S2BVEM B23101113
RHMW19	RHMW19-WGN01LF-23Q4	FC10448	10/12/2023	SGS Orlando	Laboratory Report, SDG FC10448 Level 2 Revision 2	Laboratory Report, SDG FC10448 Level 4 Revision 2	Data Validation Report, Level S2BVEM, SDG FC10448
RHMW2254-01	RHMW2254-01-WGN01LF-23Q4	23J0127	10/12/2023	APPL	Laboratory Report, SDG 23J0127 APPL L2 DOD FINAL 11 14 23 0825 Level 2	Laboratory Report, SDG 23J0127 APPL L4 DOD (Rev0) Level 4	Data Validation Report, Level S2BVEM 23J0127
RHMW2254-01	RHMW2254-01-WGN01LF-23Q4	B23101113	10/12/2023	Energy	Laboratory Report, SDG B23101113, Level 2	Laboratory Report, SDG B23101113, Stage 4	Data Validation Report, Level S2BVEM B23101113
RHMW2254-01	RHMW2254-01-WGN01LF-23Q4	FC10448	10/12/2023	SGS Orlando	Laboratory Report, SDG FC10448 Level 2 Revision 2	Laboratory Report, SDG FC10448 Level 4 Revision 2	Data Validation Report, Level S2BVEM, SDG FC10448
RHP04A	RHP04A-WGN01LF-23Q4	23J0127	10/12/2023	APPL	Laboratory Report, SDG 23J0127 APPL L2 D

Table D-1: Index of Analytical Laboratory Reports and Data Validation Reports, by Sample Collection Date (cont'd)

Sample Location Identifier	Sample ID	SDG	Sample Collection Date	Laboratory	Level 2 Lab Report PDF	Level 4 Lab Report PDF	DVR PDF
RHP04B	RHP04B-WGN01LF-2311-DF	FC11063B	11/7/2023	SGS Orlando	Laboratory Report, SDG FC11063B, Level 2	Laboratory Report, SDG FC11063B, Level 4	Data Validation Report, Level 2B, SDG FC11063B
RHP04B	RHP04B-WGN01LF-2311-DF	K2312760	11/7/2023	ALS Kelso	Laboratory Report, SDG K2312760, Level 2	Laboratory Report, SDG K2312760, Level 4	Data Validation Report, Level S2BVEM, SDG K2312760
RHMW15-05	RHMW15-05-WGN01G-2311-DF	FC11097	11/8/2023	SGS Orlando	Laboratory Report, SDG FC11097, Level 2	Laboratory Report, SDG FC11097, Level 4	Data Validation Report, Level 2B, SDG FC11097
RHMW15-05	RHMW15-05-WGN01G-2311-DF	FC11097B	11/8/2023	SGS Orlando	Laboratory Report, SDG FC11097B, Level 2	Laboratory Report, SDG FC11097B, Level 4	Data Validation Report, Level 2B, SDG FC11097B
RHMW15-05	RHMW15-05-WGN01G-2311-DF	K2312749	11/8/2023	ALS Kelso	Laboratory Report, SDG K2312749, Level 2	Laboratory Report, SDG K2312749, Level 4	Data Validation Report, Level S2BVEM, SDG K2312749
RHMW17	RHMW17-WGFD01LF-2311-DF	FC11097	11/8/2023	SGS Orlando	Laboratory Report, SDG FC11097, Level 2	Laboratory Report, SDG FC11097, Level 4	Data Validation Report, Level 2B, SDG FC11097
RHMW17	RHMW17-WGN01LF-2311-DF	FC11097	11/8/2023	SGS Orlando	Laboratory Report, SDG FC11097, Level 2	Laboratory Report, SDG FC11097, Level 4	Data Validation Report, Level 2B, SDG FC11097
RHMW17	RHMW17-WGN01LF-2311-DF	FC11097B	11/8/2023	SGS Orlando	Laboratory Report, SDG FC11097B, Level 2	Laboratory Report, SDG FC11097B, Level 4	Data Validation Report, Level 2B, SDG FC11097B
RHMW17	RHMW17-WGN01LF-2311-DF	K2312749	11/8/2023	ALS Kelso	Laboratory Report, SDG K2312749, Level 2	Laboratory Report, SDG K2312749, Level 4	Data Validation Report, Level S2BVEM, SDG K2312749
RHP02	RHP02-WGN01LF-2311-DF	FC11097	11/8/2023	SGS Orlando	Laboratory Report, SDG FC11097, Level 2	Laboratory Report, SDG FC11097, Level 4	Data Validation Report, Level 2B, SDG FC11097
RHP02	RHP02-WGN01LF-2311-DF	FC11097B	11/8/2023	SGS Orlando	Laboratory Report, SDG FC11097B, Level 2	Laboratory Report, SDG FC11097B, Level 4	Data Validation Report, Level 2B, SDG FC11097B
RHP02	RHP02-WGN01LF-2311-DF	K2312749	11/8/2023	ALS Kelso	Laboratory Report, SDG K2312749, Level 2	Laboratory Report, SDG K2312749, Level 4	Data Validation Report, Level S2BVEM, SDG K2312749
RHP03	RHP03-WGN01LF-2311-DF	FC11097	11/8/2023	SGS Orlando	Laboratory Report, SDG FC11097, Level 2	Laboratory Report, SDG FC11097, Level 4	Data Validation Report, Level 2B, SDG FC11097
RHP03	RHP03-WGN01LF-2311-DF	FC11097B	11/8/2023	SGS Orlando	Laboratory Report, SDG FC11097B, Level 2	Laboratory Report, SDG FC11097B, Level 4	Data Validation Report, Level 2B, SDG FC11097B
RHP03	RHP03-WGN01LF-2311-DF	K2312749	11/8/2023	ALS Kelso	Laboratory Report, SDG K2312749, Level 2	Laboratory Report, SDG K2312749, Level 4	Data Validation Report, Level S2BVEM, SDG K2312749
RHP05	RHP05-WGN01LF-2311-DF	FC11097	11/8/2023	SGS Orlando	Laboratory Report, SDG FC11097, Level 2	Laboratory Report, SDG FC11097, Level 4	Data Validation Report, Level 2B, SDG FC11097
RHP05	RHP05-WGN01LF-2311-DF	FC11097B	11/8/2023	SGS Orlando	Laboratory Report, SDG FC11097B, Level 2	Laboratory Report, SDG FC11097B, Level 4	Data Validation Report, Level 2B, SDG FC11097B
RHP05	RHP05-WGN01LF-2311-DF	K2312749	11/8/2023	ALS Kelso	Laboratory Report, SDG K2312749, Level 2	Laboratory Report, SDG K2312749, Level 4	Data Validation Report, Level S2BVEM, SDG K2312749
RHP06	RHP06-WGN01LF-2311-DF	FC11097	11/8/2023	SGS Orlando	Laboratory Report, SDG FC11097, Level 2	Laboratory Report, SDG FC11097, Level 4	Data Validation Report, Level 2B, SDG FC11097
RHP06	RHP06-WGN01LF-2311-DF	FC11097B	11/8/2023	SGS Orlando	Laboratory Report, SDG FC11097B, Level 2	Laboratory Report, SDG FC11097B, Level 4	Data Validation Report, Level 2B, SDG FC11097B
RHP06	RHP06-WGN01LF-2311-DF	K2312749	11/8/2023	ALS Kelso	Laboratory Report, SDG K2312749, Level 2	Laboratory Report, SDG K2312749, Level 4	Data Validation Report, Level S2BVEM, SDG K2312749
NMW24	NMW24-WGN01LF-2311	FC11161	11/9/2023	SGS Orlando	Laboratory Report, SDG FC11161, Level 2, Revision 1	Laboratory Report, SDG FC11161, Level 4, Revision 1	Data Validation Report, Level 4, SDG FC11161, Revision 1
NMW24	NMW24-WGN01LF-2311	K2312820	11/9/2023	ALS Kelso	Laboratory Report, SDG K2312820, Level 2	Laboratory Report, SDG K2312820, Level 4	Data Validation Report, Level S2BVEM, SDG K2312820
NMW25	NMW25-WGN01LF-2311	FC11161	11/9/2023	SGS Orlando	Laboratory Report, SDG FC11161, Level 2, Revision 1	Laboratory Report, SDG FC11161, Level 4, Revision 1	Data Validation Report, Level 4, SDG FC11161, Revision 1
NMW25	NMW25-WGN01LF-2311	K2312820	11/9/2023	ALS Kelso	Laboratory Report, SDG K2312820, Level 2	Laboratory Report, SDG K2312820, Level 4	Data Validation Report, Level S2BVEM, SDG K2312820
NMW30	NMW30-WGN01LF-2311	FC11161	11/9/2023	SGS Orlando	Laboratory Report, SDG FC11161, Level 2, Revision 1	Laboratory Report, SDG FC11161, Level 4, Revision 1	Data Validation Report, Level 4, SDG FC11161, Revision 1
NMW30	NMW30-WGN01LF-2311	K2312820	11/9/2023	ALS Kelso	Laboratory Report, SDG K2312820, Level 2	Laboratory Report, SDG K2312820, Level 4	Data Validation Report, Level S2BVEM, SDG K2312820
RHMW12A	RHMW12A-WGN01LF-2311	FC11161	11/9/2023	SGS Orlando	Laboratory Report, SDG FC11161, Level 2, Revision 1	Laboratory Report, SDG FC11161, Level 4, Revision 1	Data Validation Report, Level 4, SDG FC11161, Revision 1
RHMW12A	RHMW12A-WGN01LF-2311	K2312820	11/9/2023	ALS Kelso	Laboratory Report, SDG K2312820, Level 2	Laboratory Report, SDG K2312820, Level 4	Data Validation Report, Level S2BVEM, SDG K2312820
RHMW13-04	RHMW13-04-WGN01G-2311-DF	FC11133	11/9/2023	SGS Orlando	Laboratory Report, SDG FC11133, Level 2, Revision 1	Laboratory Report, SDG FC11133, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC11133
RHMW13-04	RHMW13-04-WGN01G-2311-DF	FC11133B	11/9/2023	SGS Orlando	Laboratory Report, SDG FC11133B, Level 2	Laboratory Report, SDG FC11133B, Level 4	Data Validation Report, Level 2B, SDG FC11133B
RHMW13-04	RHMW13-04-WGN01G-2311-DF	K2312824	11/9/2023	ALS Kelso	Laboratory Report, SDG K2312824, Level 2	Laboratory Report, SDG K2312824, Level 4	Data Validation Report, Level S2BVEM, SDG K2312824
RHMW20	RHMW20-WGN01LF-2311-DF	FC11133	11/9/2023	SGS Orlando	Laboratory Report, SDG FC11133, Level 2, Revision 1	Laboratory Report, SDG FC11133, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC11133
RHMW20	RHMW20-WGN01LF-2311-DF	FC11133B	11/9/2023	SGS Orlando	Laboratory Report, SDG FC11133B, Level 2	Laboratory Report, SDG FC11133B, Level 4	Data Validation Report, Level 2B, SDG FC11133B
RHMW20	RHMW20-WGN01LF-2311-DF	K2312824	11/9/2023	ALS Kelso	Laboratory Report, SDG K2312824, Level 2	Laboratory Report, SDG K2312824, Level 4	Data Validation Report, Level S2BVEM, SDG K2312824
NMW32	NMW32-WGN01LF-2311	FC11172	11/10/2023	SGS Orlando	Laboratory Report, SDG FC11172, Level 2	Laboratory Report, SDG FC11172, Level 4	Data Validation Report, Level 2B, SDG FC11172
NMW32	NMW32-WGN01LF-2311	K2312867	11/10/2023	ALS Kelso	Laboratory Report, SDG K2312867, Level 2	Laboratory Report, SDG K2312867, Level 4	Data Validation Report, Level S2BVEM, SDG K2312867
NMW33	NMW33-WGN01LF-2311	FC11172	11/10/2023	SGS Orlando	Laboratory Report, SDG FC11172, Level 2	Laboratory Report, SDG FC11172, Level 4	Data Validation Report, Level 2B, SDG FC11172
NMW33	NMW33-WGN01LF-2311	K2312867	11/10/2023	ALS Kelso	Laboratory Report, SDG K2312867, Level 2	Laboratory Report, SDG K2312867, Level 4	Data Validation Report, Level S2BVEM, SDG K2312867
RHMW03	RHMW03-WGN01LF-2311-DF	FC11171	11/10/2023	SGS Orlando	Laboratory Report, SDG FC11171, Level 2, Revision 2	Laboratory Report, SDG FC11171, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC11171
RHMW03	RHMW03-WGN01LF-2311-DF	FC11171B	11/10/2023	SGS Orlando	Laboratory Report, SDG FC11171B, Level 2	Laboratory Report, SDG FC11171B, Level 4	Data Validation Report, Level 2B, SDG FC11171B
RHMW03	RHMW03-WGN01LF-2311-DF	K2312868	11/10/2023	ALS Kelso	Laboratory Report, SDG K2312868, Level 2	Laboratory Report, SDG K2312868, Level 4	Data Validation Report, Level S2BVEM, SDG K2312868
RHMW05	RHMW05-WGN01LF-2311-DF	FC11171	11/10/2023	SGS Orlando	Laboratory Report, SDG FC11171, Level 2, Revision 2	Laboratory Report, SDG FC11171, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC11171
RHMW05	RHMW05-WGN01LF-2311-DF	FC11171B	11/10/2023	SGS Orlando	Laboratory Report, SDG FC11171B, Level 2	Laboratory Report, SDG FC11171B, Level 4	Data Validation Report, Level 2B, SDG FC11171B
RHMW05	RHMW05-WGN01LF-2311-DF	K2312868	11/10/2023	ALS Kelso	Laboratory Report, SDG K2312868, Level 2	Laboratory Report, SDG K2312868, Level 4	Data Validation Report, Level S2BVEM, SDG K2312868
RHMW08	RHMW08-WGFD01LF-2311-DF	FC11171	11/10/2023	SGS Orlando	Laboratory Report, SDG FC11171, Level 2, Revision 2	Laboratory Report, SDG FC11171, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC11171
RHMW08	RHMW08-WGN01LF-2311-DF	FC11171	11/10/2023	SGS Orlando	Laboratory Report, SDG FC11171, Level 2, Revision 2	Laboratory Report, SDG FC11171, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC11171
RHMW08	RHMW08-WGN01LF-2311-DF	FC11171B	11/10/2023	SGS Orlando	Laboratory Report, SDG FC11171B, Level 2	Laboratory Report, SDG FC11171B, Level 4	Data Validation Report, Level 2B, SDG FC11171B
RHMW08	RHMW08-WGN01LF-2311-DF	K2312868	11/10/2023	ALS Kelso	Laboratory Report, SDG K2312868, Level 2	Laboratory Report, SDG K2312868, Level 4	Data Validation Report, Level S2BVEM, SDG K2312868
RHMW10	RHMW10-WGN01LF-2311-DF	FC11171	11/10/2023	SGS Orlando	Laboratory Report, SDG FC11171, Level 2, Revision 2	Laboratory Report, SDG FC11171, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC11171
RHMW10	RHMW10-WGN01LF-2311-DF	FC11171B	11/10/2023	SGS Orlando	Laboratory Report, SDG FC11171B, Level 2	Laboratory Report, SDG FC11171B, Level 4	Data Validation Report, Level 2B, SDG FC11171B
RHMW10	RHMW10-WGN01LF-2311-DF	K2312868	11/10/2023	ALS Kelso	Laboratory Report, SDG K2312868, Level 2	Laboratory Report, SDG K2312868, Level 4	Data Validation Report, Level S2BVEM, SDG K2312868
RHP07	RHP07-WGN01LF-2311-DF	FC11171	11/10/2023	SGS Orlando	Laboratory Report, SDG FC11171, Level 2, Revision 2	Laboratory Report, SDG FC11171, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC11171
RHP07	RHP07-WGN01LF-2311-DF	FC11171B	11/10/2023	SGS Orlando	Laboratory Report, SDG FC11171B, Level 2	Laboratory Report, SDG FC11171B, Level 4	Data Validation Report, Level 2B, SDG FC11171B
RHP07	RHP07-WGN01LF-2311-DF	K2312868	11/10/2023	ALS Kelso	Laboratory Report, SDG K2312868, Level 2	Laboratory Report, SDG K2312868, Level 4	Data Validation Report, Level S2BVEM, SDG K2312868
November 2023 Defueling							
RHMW15-05	RHMW15-05-WGN01G-2310WK5-DF	FC10911	11/1/2023	SGS Orlando	Laboratory Report, SDG FC10911, Level 2	Laboratory Report, SDG FC10911, Level 4	Data Validation Report, Level 2B SDG FC10911
RHMW15-05	RHMW15-05-WGN01G-2310WK5-DF	23K0012	11/1/2023	APPL	Laboratory Report, SDG 23K0012, Level 2	Laboratory Report, SDG 23K0012, Level 4	Data Validation Report, Level S2BVEM 23K0012
RHP01	RHP01-WGN01LF-2310WK5-DF	FC10911	11/1/2023	SGS Orlando	Laboratory Report, SDG FC10911, Level 2	Laboratory Report, SDG FC10911, Level 4	Data Validation Report, Level 2B SDG FC10911
RHP01	RHP01-WGN01LF-2310WK5-DF	23K0012	11/1/2023	APPL	Laboratory Report, SDG 23K0012, Level 2	Laboratory Report, SDG 23K0012, Level 4	Data Validation Report, Level S2BVEM 23K0012
RHP02	RHP02-WGN01LF-2310WK5-DF	FC10911	11/1/2023	SGS Orlando	Laboratory Report, SDG FC10911, Level 2	Laboratory Report, SDG FC10911, Level 4	Data Validation Report, Level 2B SDG FC10911
RHP02	RHP02-WGN01LF-2310WK5-DF	23K0012	11/1/2023	APPL	Laboratory Report, SDG 23K0012, Level 2	Laboratory Report, SDG 23K0012, Level 4	Data Validation Report, Level S2BVEM 23K0012
RHP04C	RHP04C-WGN01LF-2310WK5-DF	FC10911	11/1/2023	SGS Orlando	Laboratory Report, SDG FC10911, Level 2	Laboratory Report, SDG FC10911, Level 4	Data Validation Report, Level 2B SDG FC10911
RHP04C	RHP04C-WGN01LF-2310WK5-DF	23K0012	11/1/2023	APPL	Laboratory Report, SDG 23K0012, Level 2	Laboratory Report, SDG 23K0012, Level 4	Data Validation Report, Level S2BVEM 23K0012
RHMW08	RHMW08-WGN01LF-2310WK5-DF	FC10911	11/1/2023	SGS Orlando	Laboratory Report, SDG FC10911, Level 2	Laboratory Report, SDG FC10911, Level 4	Data Validation Report, Level 2B SDG FC10911
RHMW17	RHMW17-WGN01LF-2310WK5-DF	FC10943	11/2/2023	SGS Orlando	Laboratory Report, SDG FC10943, Level 2	Laboratory Report, SDG FC10943, Level 4	Data Validation Report, Level 2B SDG FC10943
RHMW17	RHMW17-WGN01LF-2310WK5-DF	23K0019	11/2/2023	APPL	Laboratory Report, SDG 23K0019, Level 2	Laboratory Report, SDG 23K0019, Level 4	Data Validation Report, Level S4VEM 23K0019
RHMW20	RHMW20-WGN01LF-2310WK5-DF	FC10943	11/2/2023	SGS Orlando	Laboratory Report, SDG FC10943, Level 2	Laboratory Report, SDG FC10943, Level 4	Data Validation Report, Level 2B SDG FC10943
RHMW20	RHMW20-WGN01LF-2310WK5-DF	23K0019	11/2/2023	APPL	Laboratory Report, SDG 23K0019, Level 2	Laboratory Report, SDG 23K0019, Level 4	Data Validation Report, Level S4VEM 23K0019
RHP03	RHP03-WGN01LF-2310WK5-DF	FC10943	11/2/2023	SGS Orlando	Laboratory Report, SDG FC10943, Level 2	Laboratory Report, SDG FC10943, Level 4	Data Validation Report, Level 2B SDG FC10943
RHP03	RHP03-WGN01LF-2310WK5-DF	23K0019	11/2/2023	APPL	Laboratory Report, SDG 23K0019, Level 2	Laboratory Report, SDG 23K0019, Level 4	Data Validation Report, Level S4VEM 23K0019
RHP05	RHP05-WGN01LF-2310WK5-DF	FC10943	11/2/2023	SGS Orlando	Laboratory Report, SDG FC10943, Level 2	Laboratory Report, SDG FC10943, Level 4	Data Validation Report, Level 2B SDG FC10943
RHP05	RHP05-WGN01LF-2310WK5-DF	23K0019	11/2/2023	APPL	Laboratory Report, SDG 23K0019, Level 2	Laboratory Report, SDG 23K0019, Level 4	Data Validation Report, Level S4VEM 23K0019
RHP06	RHP06-WGFD01LF-2310WK5-DF	FC10943	11/2/2023	SGS Orlando	Laboratory Report, SDG FC10943, Level 2	Laboratory Report, SDG FC10943, Level 4	Data Validation Report, Level 2B SDG FC10943
RHP06	RHP06-WGN01LF-2310WK5-DF	FC10943	11/2/2023	SGS Orlando	Laboratory Report, SDG FC10943, Level 2	Laboratory Report, SDG FC10943, Level 4	Data Validation Report, Level 2B SDG FC10943
RHP06	RHP06-WGFD01LF-2310WK5-DF	23K0019	11/2/2023	APPL	Laboratory Report, SDG 23K0019, Level 2	Laboratory Report, SDG 23K0019, Level 4	Data Validation Report, Level S4VEM 23K0019
RHP06	RHP06-WGN01LF-2310WK5-DF	23K0019	11/2/2023	APPL	Laboratory Report, SDG 23K0019, Level 2	Laboratory Report, SDG 23K0019, Level 4	Data Validation Report, Level S4VEM 23K0019
RHP08	RHP08-WGN01LF-2310WK5-DF	FC10943	11/2/2023	SGS Orlando	Laboratory Report, SDG FC10943, Level 2	Laboratory Report, SDG FC10943, Level 4	Data Validation Report, Level 2B SDG FC10943
RHP08	RHP08-WGN01LF-2310WK5-DF	23K0019	11/2/2023	APPL	Laboratory Report, SDG 23K0019, Level 2	Laboratory Report, SDG 23K0019, Level 4	Data Validation Report, Level S4VEM 23K0019
RHP04A	RHP04A-WGN01LF-2310WK5-DF	FC10974	11/3/2023	SGS Orlando	Laboratory Report, SDG FC10974, Level 2, Revision 1	Laboratory Report, SDG FC10974, Level 4	Data Validation Report, Level 2B SDG FC10974
RHP04A	RHP04A-WGN01LF-2310WK5-DF	23K0034	11/3/2023	APPL	Laboratory Report, SDG 23K0034, Level 2	Laboratory Report, SDG 23K0034, Level 4	Data Validation Report, Level S2BVEM 23K0034
RHP04B	RHP04B-WGN01LF-2310WK5-DF	FC10974	11/3/2023	SGS Orlando	Laboratory Report, SDG FC10974, Level 2, Revision 1	Laboratory Report, SDG FC10974, Level 4	Data Validation Report, Level 2B SDG FC10974
RHP04B	RHP04B-WGN01LF-2310WK5-DF	23K0034	11/3/2023	APPL	Laboratory Report, SDG 23K0034, Level 2	Laboratory Report, SDG 23K0034, Level 4	Data Validation Report, Level S2BVEM 23K0034
RHMW02	RHMW02-WGFD01LF-2310WK5-DF	FC10974	11/3/2023	SGS Orlando	Laboratory Report, SDG FC10974, Level 2, Revision 1	Laboratory Report, SDG FC10974, Level 4	Data Validation Report, Level 2B SDG FC10974
RHMW02	RHMW02-WGN01LF-2310WK5-DF	FC10974	11/3/2023	SGS Orlando	Laboratory Report, SDG FC10974, Level 2, Revision 1	Laboratory Report, SDG FC10974, Level 4	Data Validation Report, Level 2B SDG FC10974
RHMW03	RHMW03-WGN01LF-2310WK5-DF	FC10974	11/3/2023	SGS Orlando	Laboratory Report, SDG FC10974, Level 2, Revision 1	Laboratory Report, SDG FC10974, Level 4	Data Validation Report, Level 2B SDG FC10974
RHMW09	RHMW09-WGN01LF-2311-DF	23K0041	11/6/2023	APPL	Laboratory Report, SDG 23K0041, Level 2	Laboratory Report, SDG 23K0041, Level 4	Data Validation Report, Level S2BVEM SDG 23K0041
RHMW11-05	RHMW11-05-WGN01G-2311-DF	23K0041	11/6/2023	APPL	Laboratory Report, SDG 23K0041, Level 2	Laboratory Report, SDG 23K0041, Level 4	Data Validation Report, Level S2BVEM SDG 23K0041
RHMW14-03	RHMW14-03-WGN01G-2311-DF	23K0041	11/6/2023	APPL	Laboratory Report, SDG 23K0041, Level 2	Laboratory Report, SDG 23K0041, Level 4	Data Validation Report, Level S2BVEM SDG 23K0041
RHMW16	RHMW16-WGN01LF-2311-DF	23K0041	11/6/2023	APPL	Laboratory Report, SDG 23K0041, Level 2	Laboratory Report, SDG 23K0041, Level 4	Data Validation Report, Level S2BVEM SDG 23K0041
RHMW19	RHMW19-WGN01LF-2311-DF	23K0041	11/6/2023	APPL	Laboratory Report, SDG 23K0041, Level 2	Laboratory Report, SDG 23K0041, Level 4	Data Validation Report, Level S2BVEM SDG 23K0041
RHP01	RHP01-WGN01LF-2311-DF	23K0041	11/6/2023	APPL	Laboratory Report, SDG 23K0041, Level 2	Laboratory Report, SDG 23K0041, Level 4	Data Validation Report, Level S2BVEM SDG 23K0041
RHP04C	RHP04C-WGFD01LF-2311-DF	23K0041	11/6/2023	APPL	Laboratory Report, SDG 23K0041, Level 2	Laboratory Report, SDG 23K0041, Level 4	Data Validation Report, Level S2BVEM SDG 23K0041
RHP04C	RHP04C-WGN01LF-2311-DF	23K0041	11/6/2023	APPL	Laboratory Report, SDG 23K0041, Level 2	Laboratory Report, SDG 23K0041, Level 4	Data Validation Report, Level S2BVEM SDG 23K0041
RHP08	RHP08-WGN01LF-2311-DF	23K0041	11/6/2023	APPL	Laboratory Report, SDG 23K0041, Level 2	Laboratory Report, SDG 23K0041, Level 4	Data Validation Report, Level S2BVEM SDG 23K0041
RHMW04	RHMW04-WGN01LF-2311-DF	23K0050	11/7/2023	APPL	Laboratory Report, SDG 23K0050, Level 2	Laboratory Report, SDG 23K0050, Level 4	Data Validation Report, Level S2BVEM SDG 23K0050
RHMW06	RHMW06-WGN01LF-2311-DF	23K0050	11/7/2023	APPL	Laboratory Report, SDG 23K0050, Level 2	Laboratory Report, SDG 23K0050, Level 4	Data Validation Report, Level S2BVEM SDG 23K0050
RHP04A	RHP04A-WGN01LF-2311-DF	23K0050	11/7/2023	APPL	Laboratory Report, SDG 23K0050, Level 2	Laboratory Report, SDG 23K0050, Level 4	Data Validation Report, Level S2BVEM SDG 23K0050
RHP04B	RHP04B-WGN01LF-2311-DF	23K0050	11/7/2023	APPL	Laboratory Report, SDG 23K0050, Level 2	Laboratory Report, SDG 23K0050, Level 4	Data Validation Report, Level S2BVEM SDG 23K0050
RHMW15-05	RHMW15-05-WGN01G-2311-DF	23K0068	11/8/2023	APPL	Laboratory Report, SDG 23K0068, Level 2	Laboratory Report, SDG 23K0068, Level 4	Data Validation Report, Level S2BVEM 23K0068
RHMW17	RHMW17-WGFD01LF-2311-DF	23K0068	11/8/2023	APPL	Laboratory Report, SDG 23K0068, Level 2	Laboratory Report, SDG 23K0068, Level 4	Data Validation Report, Level S2BVEM 23K0068
RHMW17	RHMW17-WGN01LF-2311-DF	23K0068	11/8/2023	APPL	Laboratory Report, SDG 23K0068, Level 2	Laboratory Report, SDG 23K0068, Level 4	Data Validation Report, Level S2BVEM 23K0068
RHP02	RHP02-WGN01LF-2311-DF	23K0068	11/8/2023	APPL	Laboratory Report, SDG 23K0068, Level 2	Laboratory Report, SDG 23K0068, Level 4	Data Validation Report, Level S2BVEM 23K0068
RHP03	RHP03-WGN01LF-2311-DF	23K0068	11/8/2023	APPL	Laboratory Report, SDG 23K0068, Level 2	Laboratory Report, SDG 23K0068, Level 4	Data Validation Report, Level S2BVEM 23K0068
RHP05	RHP05-WGN01LF-2311-DF	23K0068	11/8/2023	APPL	Laboratory Report, SDG 23K0068, Level 2	Laboratory Report, SDG 23K0068, Level 4	Data Validation Report, Level S2BVEM 23K0068
RHP06	RHP06-WGN01LF-2311-DF	23K0068	11/8/2023	APPL	Laboratory Report, SDG 23K0068, Level 2	Laboratory Report, SDG 23K0068, Level 4	Data Validation Report, Level S2BVEM 23K0068
RHMW13-04	RHMW13-04-WGN01G-2311-DF	23K0084	11/9/2023	APPL	Laboratory Report, SDG 23K0084, Level 2	Laboratory Report, SDG 23K0084, Level 4	Data Validation Report, Level S2BVEM 23K0084
RHMW20	RHMW20-WGN01LF-2311-DF	23K0084	11/9/2023	APPL	Laboratory Report, SDG 23K0084, Level 2	Laboratory Report, SDG 23K0084, Level 4	Data Validation Report, Level S2BVEM 23K0084
RHMW10	RHMW10-WGN01LF-2311WK2-DF	FC11221	11/13/2023	SGS Orlando	Laboratory Report, SDG FC11221, Level 2	Laboratory Report, SDG FC11221, Level 4	Data Validation Report, Level 2B SDG FC11221
RHMW10	RHMW10-WGN01LF-2311-DF	23K0088	11/10/2023	APPL	Laboratory Report, SDG 23K0088, Level 2	Laboratory Report, SDG 23K0088 Level 4	Data Validation Report, Level S2BVEM 23K0088
RHMW04	RHMW04-WGN01LF-2311WK2-DF	FC11221	11/13/2023	SGS Orlando	Laboratory Report, SDG FC11221, Level 2	Laboratory Report, SDG FC11221, Level 4	Data Validation Report, Level 2B SDG FC11221
RHMW04	RHMW04-WGN01LF-2311WK2-DF	23K0106	11/13/2023	APPL	Laboratory Report, SDG 23K0106, Level 2	Laboratory Report, SDG 23K0106, Level 4	Data Validation Report, Level S2BVEM 23K0106
RHMW06	RHMW06-WGN01LF-2311WK2-DF	FC11221	11/13/2023	SGS Orlando	Laboratory Report, SDG FC11221, Level 2	Laboratory Report, SDG FC11221, Level 4	Data Validation Report, Level 2B SDG FC11221
RHMW06	RHMW06-WGN01LF-2311WK2-DF	23K0106	11/13/2023	APPL	Laboratory Report, SDG 23K0106, Level 2	Laboratory Report, SDG 23K0106, Level 4	Data Validation Report, Level S2BVEM 23K0106
RHMW10	RHMW10-WGN01LF-2311WK2-DF	23K0106	11/13/2023	APPL	Laboratory Report, SDG 23K0106, Level 2	Laboratory Report, SDG 23K0106, Level 4	Data Validation Report, Level S2BVEM 23K0106
RHMW15-05	RHMW15-05-WGN01G-2311WK2-DF	FC11221	11/13/2023	SGS Orlando	Laboratory Report, SDG FC11221, Level 2	Laboratory Report, SDG FC11221, Level 4	Data Validation Report, Level 2B SDG FC11221
RHMW15-05	RHMW15-05-WGN01G-2311WK2-DF	23K0106	11/13/2023	APPL	Laboratory Report, SDG 23K0106, Level 2	Laboratory Report, SDG 23K0106, Level 4	Data Validation Report, Level S2BVEM 23K0106
RHMW16	RHMW16-WGN01LF-2311WK2-DF	FC11221	11/13/2023	SGS Orlando	Laboratory Report, SDG FC11221, Level 2	Laboratory Report, SDG FC11221, Level 4	Data Validation Report, Level 2B SDG FC11221
RHMW16	RHMW16-WGN01LF-2311WK2-DF	23K0106	11/13/2023	APPL	Laboratory Report, SDG 23K0106, Level 2	Laboratory Report, SDG 23K0106, Level 4	Data Validation Report, Level S2BVEM 23K0106
RHP01	RHP01-WGN01LF-2311WK2-DF	FC11221	11/13/2023	SGS Orlando	Laboratory Report, SDG FC11221, Level 2	Laboratory Report, SDG FC11221, Level 4	Data Validation Report, Level 2B SDG FC11221
RHP01	RHP01-WGN01LF-2311WK2-DF	23K0106	11/13/2023	APPL	Laboratory Report, SDG 23K0106, Level 2	Laboratory Report, SDG 23K0106, Level 4	Data Validation Report, Level S2BVEM 23K0106
RHP08	RHP08-WGN01LF-2311WK2-DF	FC11221	11/13/2023	SGS Orlando	Laboratory Report, SDG FC11221, Level 2	Laboratory Report, SDG FC11221, Level 4	Data Validation Report, Level 2B SDG FC11221
RHP08	RHP08-WGN01LF-2311WK2-DF	23K0106	11/13/2023	APPL	Laboratory Report, SDG 23K0106, Level 2	Laboratory Report, SDG 23K0106, Level 4	Data Validation Report, Level S2BVEM 23K0106
RHMW01R	RHMW01R-WGN01LF-2311WK2-DF	FC11221	11/13/2023	SGS Orlando	Laboratory Report, SDG FC11221, Level 2	Laboratory Report, SDG FC11221, Level 4	Data Validation Report, Level 2B SDG FC11221
RHMW09	RHMW09-WGN01LF-2311WK2-DF	FC11263	11/14/2023	SGS Orlando	Laboratory Report, SDG FC11263, Level 2	Laboratory Report, SDG FC11263, Level 4	Data Validation Report, Level 2B SDG FC11263
RHMW09	RHMW09-WGN01LF-2311WK2-DF	23K0123	11/14/2023	APPL	Laboratory Report, SDG 23K0123, Level 2, Revision 1	Laboratory Report, SDG 23K0123, Level 4, Revision 1	Data Validation Report, Level S2BVEM 23K0123
RHMW13-04	RHMW13-04-WGN01G-2311WK2-DF	FC11263	11/14/2023	SGS Orlando	Laboratory Report, SDG FC11263, Level 2	Laboratory Report, SDG FC11263, Level 4	Data Validation Report, Level 2B SDG FC11263
RHMW13-04	RHMW13-04-WGN01G-2311WK2-DF	23K0123	11/14/2023	APPL	Laboratory Report, SDG 23K0123, Level 2, Revision 1	Laboratory Report, SDG 23K0123, Level 4, Revision 1	Data Validation Report, Level S2BVEM 23K0123
RHMW19	RHMW19-WGN01LF-2311WK2-DF	FC11263	11/14/2023	SGS Orlando	Laboratory Report, SDG FC11263, Level 2	Laboratory Report, SDG FC11263, Level 4	Data Validation Report, Level 2B SDG FC11263
RHMW19	RHMW19-WGN01LF-2311WK2-DF	23K0123	11/14/2023	APPL	Laboratory Report, SDG 23K0123, Level 2, Revision 1	Laboratory Report, SDG 23K0123, Level 4, Revision 1	Data Validation Report, Level S2BVEM 23K0123
RHMW20	RHMW20-WGN01LF-2311WK2-DF	FC11263	11/14/2023	SGS Orlando	Laboratory Report, SDG FC11263, Level 2	Laboratory Report, SDG FC11263, Level 4	Data Validation Report, Level 2B SDG FC11263
RHMW20	RHMW20-WGN01LF-2311WK2-DF	23K0123	11/14/2023	APPL	Laboratory Report, SDG 23K0123, Level 2, Revision 1	Laboratory Report, SDG 23K0123, Level 4, Revision 1	Data Validation Report, Level S2BVEM 23K0123
RHP02	RHP02-WG

Table D-1: Index of Analytical Laboratory Reports and Data Validation Reports, by Sample Collection Date (cont'd)

Sample Location Identifier	Sample ID	SDG	Sample Collection Date	Laboratory	Level 2 Lab Report PDF	Level 4 Lab Report PDF	DVR PDF
RHP04A	RHP04A-WGN01LF-2311WK3-DF	23K0214	11/22/2023	APPL	Laboratory Report, SDG 23K0214, Level 2	Laboratory Report, SDG 23K0214, Level 4	Data Validation Report, Level S2BVEM 23K0214
RHP04B	RHP04B-WGN01LF-2311WK3-DF	FC11474	11/22/2023	SGS Orlando	Laboratory Report, SDG FC11474, Level 2, Revision 1	Laboratory Report, SDG FC11474, Level 4, Revision 1	Data Validation Report, Level 2B SDG FC11474
RHP04B	RHP04B-WGN01LF-2311WK3-DF	23K0214	11/22/2023	APPL	Laboratory Report, SDG 23K0214, Level 2	Laboratory Report, SDG 23K0214, Level 4	Data Validation Report, Level S2BVEM 23K0214
RHP05	RHP05-WGN01LF-2311WK3-DF	FC11474	11/22/2023	SGS Orlando	Laboratory Report, SDG FC11474, Level 2, Revision 1	Laboratory Report, SDG FC11474, Level 4, Revision 1	Data Validation Report, Level 2B SDG FC11474
RHP05	RHP05-WGN01LF-2311WK3-DF	23K0214	11/22/2023	APPL	Laboratory Report, SDG 23K0214, Level 2	Laboratory Report, SDG 23K0214, Level 4	Data Validation Report, Level S2BVEM 23K0214
RHP06	RHP06-WGFD01LF-2311WK3-DF	FC11474	11/22/2023	SGS Orlando	Laboratory Report, SDG FC11474, Level 2, Revision 1	Laboratory Report, SDG FC11474, Level 4, Revision 1	Data Validation Report, Level 2B SDG FC11474
RHP06	RHP06-WGN01LF-2311WK3-DF	FC11474	11/22/2023	SGS Orlando	Laboratory Report, SDG FC11474, Level 2, Revision 1	Laboratory Report, SDG FC11474, Level 4, Revision 1	Data Validation Report, Level 2B SDG FC11474
RHP06	RHP06-WGFD01LF-2311WK3-DF	23K0214	11/22/2023	APPL	Laboratory Report, SDG 23K0214, Level 2	Laboratory Report, SDG 23K0214, Level 4	Data Validation Report, Level S2BVEM 23K0214
RHP06	RHP06-WGN01LF-2311WK3-DF	23K0214	11/22/2023	APPL	Laboratory Report, SDG 23K0214, Level 2	Laboratory Report, SDG 23K0214, Level 4	Data Validation Report, Level S2BVEM 23K0214
RHMW01R	RHMW01R-WGN01LF-2311WK3-DF	FC11477	11/24/2023	SGS Orlando	Laboratory Report, FC11477, Level 2	Laboratory Report, FC11477, Level 4	Data Validation Report, Level 2B SDG FC11477
RHMW04	RHMW04-WGN01LF-2311WK4-DF	FC11512	11/27/2023	SGS Orlando	Laboratory Report, FC11512, Level 2, Revision 1	Laboratory Report, FC11512, Level 4, Revision 1	Data Validation Report, Level 2B SDG FC11512
RHMW04	RHMW04-WGN01LF-2311WK4-DF	23K0219	11/27/2023	APPL	Laboratory Report, SDG 23K0219, Level 2	Laboratory Report, SDG 23K0219, Level 4	Data Validation Report, Level S2BVEM 23K0219
RHMW06	RHMW06-WGN01LF-2311WK4-DF	FC11512	11/27/2023	SGS Orlando	Laboratory Report, FC11512, Level 2, Revision 1	Laboratory Report, FC11512, Level 4, Revision 1	Data Validation Report, Level 2B SDG FC11512
RHMW06	RHMW06-WGN01LF-2311WK4-DF	23K0219	11/27/2023	APPL	Laboratory Report, SDG 23K0219, Level 2	Laboratory Report, SDG 23K0219, Level 4	Data Validation Report, Level S2BVEM 23K0219
RHMW09	RHMW09-WGN01LF-2311WK4-DF	FC11512	11/27/2023	SGS Orlando	Laboratory Report, FC11512, Level 2, Revision 1	Laboratory Report, FC11512, Level 4, Revision 1	Data Validation Report, Level 2B SDG FC11512
RHMW09	RHMW09-WGN01LF-2311WK4-DF	23K0219	11/27/2023	APPL	Laboratory Report, SDG 23K0219, Level 2	Laboratory Report, SDG 23K0219, Level 4	Data Validation Report, Level S2BVEM 23K0219
RHMW11-05	RHMW11-05-WGN01G-2311WK4-DF	FC11512	11/27/2023	SGS Orlando	Laboratory Report, FC11512, Level 2, Revision 1	Laboratory Report, FC11512, Level 4, Revision 1	Data Validation Report, Level 2B SDG FC11512
RHMW11-05	RHMW11-05-WGN01G-2311WK4-DF	23K0219	11/27/2023	APPL	Laboratory Report, SDG 23K0219, Level 2	Laboratory Report, SDG 23K0219, Level 4	Data Validation Report, Level S2BVEM 23K0219
RHMW14-03	RHMW14-03-WGN01G-2311WK4-DF	FC11512	11/27/2023	SGS Orlando	Laboratory Report, FC11512, Level 2, Revision 1	Laboratory Report, FC11512, Level 4, Revision 1	Data Validation Report, Level 2B SDG FC11512
RHMW14-03	RHMW14-03-WGN01G-2311WK4-DF	23K0219	11/27/2023	APPL	Laboratory Report, SDG 23K0219, Level 2	Laboratory Report, SDG 23K0219, Level 4	Data Validation Report, Level S2BVEM 23K0219
RHMW19	RHMW19-WGN01LF-2311WK4-DF	FC11512	11/27/2023	SGS Orlando	Laboratory Report, FC11512, Level 2, Revision 1	Laboratory Report, FC11512, Level 4, Revision 1	Data Validation Report, Level 2B SDG FC11512
RHMW19	RHMW19-WGN01LF-2311WK4-DF	23K0219	11/27/2023	APPL	Laboratory Report, SDG 23K0219, Level 2	Laboratory Report, SDG 23K0219, Level 4	Data Validation Report, Level S2BVEM 23K0219
RHP02	RHP02-WGN01LF-2311WK4-DF	FC11512	11/27/2023	SGS Orlando	Laboratory Report, FC11512, Level 2, Revision 1	Laboratory Report, FC11512, Level 4, Revision 1	Data Validation Report, Level 2B SDG FC11512
RHP02	RHP02-WGN01LF-2311WK4-DF	23K0219	11/27/2023	APPL	Laboratory Report, SDG 23K0219, Level 2	Laboratory Report, SDG 23K0219, Level 4	Data Validation Report, Level S2BVEM 23K0219
RHP03	RHP03-WGN01LF-2311WK4-DF	FC11512	11/27/2023	SGS Orlando	Laboratory Report, FC11512, Level 2, Revision 1	Laboratory Report, FC11512, Level 4, Revision 1	Data Validation Report, Level 2B SDG FC11512
RHP03	RHP03-WGN01LF-2311WK4-DF	23K0219	11/27/2023	APPL	Laboratory Report, SDG 23K0219, Level 2	Laboratory Report, SDG 23K0219, Level 4	Data Validation Report, Level S2BVEM 23K0219
RHMW13-04	RHMW13-04-WGN01G-2311WK4-DF	FC11564	11/28/2023	SGS Orlando	Laboratory Report, SDG FC11564, Level 2	Laboratory Report, SDG FC11564, Level 4	Data Validation Report Level 2B SDG FC11564
RHMW13-04	RHMW13-04-WGN01G-2311WK4-DF	23K0231	11/28/2023	APPL	Laboratory Report, SDG 23K0231, Level 2	Laboratory Report, SDG 23K0231 Level 4	Data Validation Report, Level 4, SDG 23K0231, Revision 1
RHMW16	RHMW16-WGN01LF-2311WK4-DF	FC11564	11/28/2023	SGS Orlando	Laboratory Report, SDG FC11564, Level 2	Laboratory Report, SDG FC11564, Level 4	Data Validation Report Level 2B SDG FC11564
RHMW16	RHMW16-WGN01LF-2311WK4-DF	23K0231	11/28/2023	APPL	Laboratory Report, SDG 23K0231, Level 2	Laboratory Report, SDG 23K0231 Level 4	Data Validation Report, Level 4, SDG 23K0231, Revision 1
RHMW17	RHMW17-WGN01LF-2311WK4-DF	FC11564	11/28/2023	SGS Orlando	Laboratory Report, SDG FC11564, Level 2	Laboratory Report, SDG FC11564, Level 4	Data Validation Report Level 2B SDG FC11564
RHMW17	RHMW17-WGN01LF-2311WK4-DF	23K0231	11/28/2023	APPL	Laboratory Report, SDG 23K0231, Level 2	Laboratory Report, SDG 23K0231 Level 4	Data Validation Report, Level 4, SDG 23K0231, Revision 1
RHP04A	RHP04A-WGN01LF-2311WK4-DF	FC11564	11/28/2023	SGS Orlando	Laboratory Report, SDG FC11564, Level 2	Laboratory Report, SDG FC11564, Level 4	Data Validation Report Level 2B SDG FC11564
RHP04A	RHP04A-WGN01LF-2311WK4-DF	23K0231	11/28/2023	APPL	Laboratory Report, SDG 23K0231, Level 2	Laboratory Report, SDG 23K0231 Level 4	Data Validation Report, Level 4, SDG 23K0231, Revision 1
RHP04B	RHP04B-WGN01LF-2311WK4-DF	FC11564	11/28/2023	SGS Orlando	Laboratory Report, SDG FC11564, Level 2	Laboratory Report, SDG FC11564, Level 4	Data Validation Report Level 2B SDG FC11564
RHP04B	RHP04B-WGN01LF-2311WK4-DF	23K0231	11/28/2023	APPL	Laboratory Report, SDG 23K0231, Level 2	Laboratory Report, SDG 23K0231 Level 4	Data Validation Report, Level 4, SDG 23K0231, Revision 1
RHMW03	RHMW03-WGN01LF-2311WK4-DF	FC11564	11/28/2023	SGS Orlando	Laboratory Report, SDG FC11564, Level 2	Laboratory Report, SDG FC11564, Level 4	Data Validation Report Level 2B SDG FC11564
RHMW05	RHMW05-WGN01LF-2311WK4-DF	FC11564	11/28/2023	SGS Orlando	Laboratory Report, SDG FC11564, Level 2	Laboratory Report, SDG FC11564, Level 4	Data Validation Report Level 2B SDG FC11564
RHMW08	RHMW08-WGN01LF-2311WK4-DF	FC11564	11/28/2023	SGS Orlando	Laboratory Report, SDG FC11564, Level 2	Laboratory Report, SDG FC11564, Level 4	Data Validation Report Level 2B SDG FC11564
RHMW2254-01	RHMW2254-01-WGF01LF-2311WK4-DF	FC11564	11/28/2023	SGS Orlando	Laboratory Report, SDG FC11564, Level 2	Laboratory Report, SDG FC11564, Level 4	Data Validation Report Level 2B SDG FC11564
RHMW2254-01	RHMW2254-01-WGN01LF-2311WK4-DF	FC11564	11/28/2023	SGS Orlando	Laboratory Report, SDG FC11564, Level 2	Laboratory Report, SDG FC11564, Level 4	Data Validation Report Level 2B SDG FC11564
RHP07	RHP07-WGN01LF-2311WK4-DF	FC11564	11/28/2023	SGS Orlando	Laboratory Report, SDG FC11564, Level 2	Laboratory Report, SDG FC11564, Level 4	Data Validation Report Level 2B SDG FC11564
RHMW10	RHMW10-WGN01LF-2311WK4-DF	FC11596	11/29/2023	SGS Orlando	Laboratory Report, SDG FC11596, Level 2	Laboratory Report, SDG FC11596, Level 4	Data Validation Report Level 2B SDG FC11596
RHMW10	RHMW10-WGN01LF-2311WK4-DF	23K0236	11/29/2023	APPL	Laboratory Report, SDG 23K0236, Level 2	Laboratory Report, SDG 23K0236, Level 4	Data Validation Report, Level 2B, SDG 23K0236, Revision 1
RHMW15-05	RHMW15-05-WGN01G-2311WK4-DF	FC11596	11/29/2023	SGS Orlando	Laboratory Report, SDG FC11596, Level 2	Laboratory Report, SDG FC11596, Level 4	Data Validation Report Level 2B SDG FC11596
RHMW20	RHMW20-WGN01LF-2311WK4-DF	FC11596	11/29/2023	SGS Orlando	Laboratory Report, SDG FC11596, Level 2	Laboratory Report, SDG FC11596, Level 4	Data Validation Report Level 2B SDG FC11596
RHMW15-05	RHMW15-05-WGN01G-2311WK4-DF	23K0236	11/29/2023	APPL	Laboratory Report, SDG 23K0236, Level 2	Laboratory Report, SDG 23K0236, Level 4	Data Validation Report, Level 2B, SDG 23K0236, Revision 1
RHMW20	RHMW20-WGN01LF-2311WK4-DF	23K0236	11/29/2023	APPL	Laboratory Report, SDG 23K0236, Level 2	Laboratory Report, SDG 23K0236, Level 4	Data Validation Report, Level 2B, SDG 23K0236, Revision 1
RHP01	RHP01-WGN01LF-2311WK4-DF	FC11596	11/29/2023	SGS Orlando	Laboratory Report, SDG FC11596, Level 2	Laboratory Report, SDG FC11596, Level 4	Data Validation Report Level 2B SDG FC11596
RHP01	RHP01-WGN01LF-2311WK4-DF	23K0236	11/29/2023	APPL	Laboratory Report, SDG 23K0236, Level 2	Laboratory Report, SDG 23K0236, Level 4	Data Validation Report, Level 2B, SDG 23K0236, Revision 1
RHP04C	RHP04C-WGN01LF-2311WK4-DF	FC11596	11/29/2023	SGS Orlando	Laboratory Report, SDG FC11596, Level 2	Laboratory Report, SDG FC11596, Level 4	Data Validation Report Level 2B SDG FC11596
RHP04C	RHP04C-WGN01LF-2311WK4-DF	23K0236	11/29/2023	APPL	Laboratory Report, SDG 23K0236, Level 2	Laboratory Report, SDG 23K0236, Level 4	Data Validation Report, Level 2B, SDG 23K0236, Revision 1
RHP04C	RHP04C-WGN01LF-2311WK4-DF	FC11596	11/29/2023	SGS Orlando	Laboratory Report, SDG FC11596, Level 2	Laboratory Report, SDG FC11596, Level 4	Data Validation Report Level 2B SDG FC11596
RHP04C	RHP04C-WGN01LF-2311WK4-DF	23K0236	11/29/2023	APPL	Laboratory Report, SDG 23K0236, Level 2	Laboratory Report, SDG 23K0236, Level 4	Data Validation Report, Level 2B, SDG 23K0236, Revision 1
RHP05	RHP05-WGN01LF-2311WK4-DF	FC11596	11/29/2023	SGS Orlando	Laboratory Report, SDG FC11596, Level 2	Laboratory Report, SDG FC11596, Level 4	Data Validation Report Level 2B SDG FC11596
RHP05	RHP05-WGN01LF-2311WK4-DF	23K0236	11/29/2023	APPL	Laboratory Report, SDG 23K0236, Level 2	Laboratory Report, SDG 23K0236, Level 4	Data Validation Report, Level 2B, SDG 23K0236, Revision 1
RHP06	RHP06-WGFD01LF-2311WK4-DF	FC11596	11/29/2023	SGS Orlando	Laboratory Report, SDG FC11596, Level 2	Laboratory Report, SDG FC11596, Level 4	Data Validation Report Level 2B SDG FC11596
RHP06	RHP06-WGN01LF-2311WK4-DF	FC11596	11/29/2023	SGS Orlando	Laboratory Report, SDG FC11596, Level 2	Laboratory Report, SDG FC11596, Level 4	Data Validation Report Level 2B SDG FC11596
RHP06	RHP06-WGFD01LF-2311WK4-DF	23K0236	11/29/2023	APPL	Laboratory Report, SDG 23K0236, Level 2	Laboratory Report, SDG 23K0236, Level 4	Data Validation Report, Level 2B, SDG 23K0236, Revision 1
RHP06	RHP06-WGN01LF-2311WK4-DF	23K0236	11/29/2023	APPL	Laboratory Report, SDG 23K0236, Level 2	Laboratory Report, SDG 23K0236, Level 4	Data Validation Report, Level 2B, SDG 23K0236, Revision 1
RHP08	RHP08-WGN01LF-2311WK4-DF	FC11596	11/29/2023	SGS Orlando	Laboratory Report, SDG FC11596, Level 2	Laboratory Report, SDG FC11596, Level 4	Data Validation Report Level 2B SDG FC11596
RHP08	RHP08-WGN01LF-2311WK4-DF	23K0236	11/29/2023	APPL	Laboratory Report, SDG 23K0236, Level 2	Laboratory Report, SDG 23K0236, Level 4	Data Validation Report, Level 2B, SDG 23K0236, Revision 1
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RHMW08	RHMW08-WGN01LF-2312-DF	FC11688	12/4/2023	SGS Orlando	Laboratory Report, SDG FC11688, Level 2	Laboratory Report, SDG FC11688, Level 4	Data Validation Report, Level 2B, SDG FC11688
RHMW08	RHMW08-WGN01LF-2312-DF	FC11688B	12/4/2023	SGS Orlando	Laboratory Report, SDG FC11688B, Level 2	Laboratory Report, SDG FC11688B, Level 4	Data Validation Report, Level 2B, SDG FC11688B
RHMW08	RHMW08-WGN01LF-2312-DF	1236588_EDMS	12/4/2023	SGS Anchorage	Laboratory Report, SDG 1236588, Level 2	Laboratory Report, SDG 1236588, Level 4	Data Validation Report, Level S4VEM, SDG 1236588
RHMW09	RHMW09-WGN01LF-2312-DF	FC11688	12/4/2023	SGS Orlando	Laboratory Report, SDG FC11688, Level 2	Laboratory Report, SDG FC11688, Level 4	Data Validation Report, Level 2B, SDG FC11688
RHMW09	RHMW09-WGN01LF-2312-DF	FC11688B	12/4/2023	SGS Orlando	Laboratory Report, SDG FC11688B, Level 2	Laboratory Report, SDG FC11688B, Level 4	Data Validation Report, Level 2B, SDG FC11688B
RHMW09	RHMW09-WGN01LF-2312-DF	1236588_EDMS	12/4/2023	SGS Anchorage	Laboratory Report, SDG 1236588, Level 2	Laboratory Report, SDG 1236588, Level 4	Data Validation Report, Level S4VEM, SDG 1236588
RHMW11-05	RHMW11-05-WGN01G-2312-DF	FC11688	12/4/2023	SGS Orlando	Laboratory Report, SDG FC11688, Level 2	Laboratory Report, SDG FC11688, Level 4	Data Validation Report, Level 2B, SDG FC11688
RHMW11-05	RHMW11-05-WGN01G-2312-DF	FC11688B	12/4/2023	SGS Orlando	Laboratory Report, SDG FC11688B, Level 2	Laboratory Report, SDG FC11688B, Level 4	Data Validation Report, Level 2B, SDG FC11688B
RHMW11-05	RHMW11-05-WGN01G-2312-DF	1236588_EDMS	12/4/2023	SGS Anchorage	Laboratory Report, SDG 1236588, Level 2	Laboratory Report, SDG 1236588, Level 4	Data Validation Report, Level S4VEM, SDG 1236588
RHMW14-03	RHMW14-03-WGN01G-2312-DF	FC11688	12/4/2023	SGS Orlando	Laboratory Report, SDG FC11688, Level 2	Laboratory Report, SDG FC11688, Level 4	Data Validation Report, Level 2B, SDG FC11688
RHMW14-03	RHMW14-03-WGN01G-2312-DF	FC11688B	12/4/2023	SGS Orlando	Laboratory Report, SDG FC11688B, Level 2	Laboratory Report, SDG FC11688B, Level 4	Data Validation Report, Level 2B, SDG FC11688B
RHMW14-03	RHMW14-03-WGN01G-2312-DF	1236588_EDMS	12/4/2023	SGS Anchorage	Laboratory Report, SDG 1236588, Level 2	Laboratory Report, SDG 1236588, Level 4	Data Validation Report, Level S4VEM, SDG 1236588
RHMW16	RHMW16-WGN01LF-2312-DF	FC11688	12/4/2023	SGS Orlando	Laboratory Report, SDG FC11688, Level 2	Laboratory Report, SDG FC11688, Level 4	Data Validation Report, Level 2B, SDG FC11688
RHMW16	RHMW16-WGN01LF-2312-DF	FC11688B	12/4/2023	SGS Orlando	Laboratory Report, SDG FC11688B, Level 2	Laboratory Report, SDG FC11688B, Level 4	Data Validation Report, Level 2B, SDG FC11688B
RHMW16	RHMW16-WGN01LF-2312-DF	1236588_EDMS	12/4/2023	SGS Anchorage	Laboratory Report, SDG 1236588, Level 2	Laboratory Report, SDG 1236588, Level 4	Data Validation Report, Level S4VEM, SDG 1236588
RHMW19	RHMW19-WGN01LF-2312-DF	FC11688	12/4/2023	SGS Orlando	Laboratory Report, SDG FC11688, Level 2	Laboratory Report, SDG FC11688, Level 4	Data Validation Report, Level 2B, SDG FC11688
RHMW19	RHMW19-WGN01LF-2312-DF	FC11688B	12/4/2023	SGS Orlando	Laboratory Report, SDG FC11688B, Level 2	Laboratory Report, SDG FC11688B, Level 4	Data Validation Report, Level 2B, SDG FC11688B
RHMW19	RHMW19-WGN01LF-2312-DF	1236588_EDMS	12/4/2023	SGS Anchorage	Laboratory Report, SDG 1236588, Level 2	Laboratory Report, SDG 1236588, Level 4	Data Validation Report, Level S4VEM, SDG 1236588
RHP01	RHP01-WGN01LF-2312-DF	FC11688	12/4/2023	SGS Orlando	Laboratory Report, SDG FC11688, Level 2	Laboratory Report, SDG FC11688, Level 4	Data Validation Report, Level 2B, SDG FC11688
RHP01	RHP01-WGN01LF-2312-DF	FC11688B	12/4/2023	SGS Orlando	Laboratory Report, SDG FC11688B, Level 2	Laboratory Report, SDG FC11688B, Level 4	Data Validation Report, Level 2B, SDG FC11688B
RHP01	RHP01-WGN01LF-2312-DF	1236588_EDMS	12/4/2023	SGS Anchorage	Laboratory Report, SDG 1236588, Level 2	Laboratory Report, SDG 1236588, Level 4	Data Validation Report, Level S4VEM, SDG 1236588
RHP04C	RHP04C-WGN01LF-2312-DF	FC11688	12/4/2023	SGS Orlando	Laboratory Report, SDG FC11688, Level 2	Laboratory Report, SDG FC11688, Level 4	Data Validation Report, Level 2B, SDG FC11688
RHP04C	RHP04C-WGN01LF-2312-DF	FC11688B	12/4/2023	SGS Orlando	Laboratory Report, SDG FC11688B, Level 2	Laboratory Report, SDG FC11688B, Level 4	Data Validation Report, Level 2B, SDG FC11688B
RHP04C	RHP04C-WGN01LF-2312-DF	1236588_EDMS	12/4/2023	SGS Anchorage	Laboratory Report, SDG 1236588, Level 2	Laboratory Report, SDG 1236588, Level 4	Data Validation Report, Level S4VEM, SDG 1236588
RHMW04	RHMW04-WGN01LF-2312-DF	FC11717	12/5/2023	SGS Orlando	Laboratory Report, SDG FC11717, Level 2, Revision 2	Laboratory Report, SDG FC11717, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC11717
RHMW04	RHMW04-WGN01LF-2312-DF	FC11717B	12/5/2023	SGS Orlando	Laboratory Report, SDG FC11717B, Level 2	Laboratory Report, SDG FC11717B, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC11717B
RHMW04	RHMW04-WGN01LF-2312-DF	1236605_EDMS	12/5/2023	SGS Anchorage	Laboratory Report, SDG 1236605, Level 2	Laboratory Report, SDG 1236605, Level 4	Data Validation Report, Level S2BVEM, SDG 1236605
RHMW05	RHMW05-WGN01LF-2312-DF	FC11717	12/5/2023	SGS Orlando	Laboratory Report, SDG FC11717, Level 2, Revision 2	Laboratory Report, SDG FC11717, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC11717
RHMW05	RHMW05-WGN01LF-2312-DF	FC11717B	12/5/2023	SGS Orlando	Laboratory Report, SDG FC11717B, Level 2	Laboratory Report, SDG FC11717B, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC11717B
RHMW05	RHMW05-WGN01LF-2312-DF	1236605_EDMS	12/5/2023	SGS Anchorage	Laboratory Report, SDG 1236605, Level 2	Laboratory Report, SDG 1236605, Level 4	Data Validation Report, Level S2BVEM, SDG 1236605
RHMW06	RHMW06-WGN01LF-2312-DF	FC11717	12/5/2023	SGS Orlando	Laboratory Report, SDG FC11717, Level 2, Revision 2	Laboratory Report, SDG FC11717, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC11717
RHMW06	RHMW06-WGN01LF-2312-DF	FC11717B	12/5/2023	SGS Orlando	Laboratory Report, SDG FC11717B, Level 2	Laboratory Report, SDG FC11717B, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC11717B
RHMW06	RHMW06-WGN01LF-2312-DF	1236605_EDMS	12/5/2023	SGS Anchorage	Laboratory Report, SDG 1236605, Level 2	Laboratory Report, SDG 1236605, Level 4	Data Validation Report, Level S2BVEM, SDG 1236605
RHMW10	RHMW10-WGN01LF-2312-DF	FC11717	12/5/2023	SGS Orlando	Laboratory Report, SDG FC11717, Level 2, Revision 2	Laboratory Report, SDG FC11717, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC11717
RHMW10	RHMW10-WGN01LF-2312-DF	FC11717B	12/5/2023	SGS Orlando	Laboratory Report, SDG FC11717B, Level 2	Laboratory Report, SDG FC11717B, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC11717B
RHMW10	RHMW10-WGN01LF-2312-DF	1236605_EDMS	12/5/2023	SGS Anchorage	Laboratory Report, SDG 1236605, Level 2	Laboratory Report, SDG 1236605, Level 4	Data Validation Report, Level S2BVEM, SDG 1236605
RHMW2254-01	RHMW2254-01-WGN01LF-2312-DF	FC11717	12/5/2023	SGS Orlando	Laboratory Report, SDG FC11717, Level 2, Revision 2	Laboratory Report, SDG FC11717, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC11717
RHMW2254-01	RHMW2254-01-WGN01LF-2312-DF	FC11717B	12/5/2023	SGS Orlando	Laboratory Report, SDG FC11717B, Level 2	Laboratory Report, SDG FC11717B, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC11717B
RHMW2254-01	RHMW2254-01-WGN01LF-2312-DF	1236605_EDMS	12/5/2023	SGS Anchorage	Laboratory Report, SDG 1236605, Level 2	Laboratory Report, SDG 1236605, Level 4	Data Validation Report, Level S2BVEM, SDG 1236605
RHP04A	RHP04A-WGN01LF-2312-DF	FC11717	12/5/2023	SGS Orlando	Laboratory Report, SDG FC11717, Level 2, Revision 2	Laboratory Report, SDG FC11717, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC11717
RHP04A	RHP04A-WGN01LF-2312-DF	FC11717B	12/5/2023	SGS Orlando	Laboratory Report, SDG FC11717B, Level 2	Laboratory Report, SDG FC11717B, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC11717B
RHP04A	RHP04A-WGN01LF-2312-DF	1236605_EDMS	12/5/2023	SGS Anchorage	Laboratory Report, SDG 1236605, Level 2	Laboratory Report, SDG 1236605, Level 4	Data Validation Report, Level S2BVEM, SDG 1236605
RHP04B	RHP04B-WGN01LF-2312-DF	FC11717	12/5/2023	SGS Orlando	Laboratory Report, SDG FC11717, Level 2, Revision 2	Laboratory Report, SDG FC11717, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC11717
RHP04B	RHP04B-WGN01LF-2312-DF	FC11717B	12/5/2023	SGS Orlando	Laboratory Report, SDG FC11717B, Level 2	Laboratory Report, SDG FC11717B, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC11717B
RHP04B	RHP04B-WGN01LF-2312-DF	1236605_EDMS	12/5/2023	SGS Anchorage	Laboratory Report, SDG 1236605, Level 2	Laboratory Report, SDG 1236605, Level 4	Data Validation Report, Level S2BVEM, SDG 1236605
RHP07	RHP07-WGN01LF-2312-DF	FC11717	12/5/2023	SGS Orlando	Laboratory Report, SDG FC11717, Level 2, Revision 2	Laboratory Report, SDG FC11717, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC11717
RHP07	RHP07-WGN01LF-2312-DF	FC11717B	12/5/2023	SGS Orlando	Laboratory Report, SDG FC11717B, Level 2	Laboratory Report, SDG FC11717B, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC11717B
RHP07	RHP07-WGN01LF-2312-DF	1236605_EDMS	12/5/2023	SGS Anchorage	Laboratory Report, SDG 1236605, Level 2	Laboratory Report, SDG 1236605, Level 4	Data Validation Report, Level S2BVEM, SDG 1236605
RHP08	RHP08-WGN01LF-2312-DF	FC11717	12/5/2023	SGS Orlando	Laboratory Report, SDG FC11717, Level 2, Revision 2	Laboratory Report, SDG FC11717, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC11717
RHP08	RHP08-WGN01LF-2312-DF	FC11717B	12/5/2023	SGS Orlando	Laboratory Report, SDG FC11717B, Level 2	Laboratory Report, SDG FC11717B, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC11717B
RHP08	RHP08-WGN01LF-2312-DF	1236605_EDMS	12/5/2023	SGS Anchorage	Laboratory Report, SDG 1236605, Level 2	Laboratory Report, SDG 1236605, Level 4	Data Validation Report, Level S2BVEM, SDG 1236605
RHMW15-05	RHMW15-05-WGN01G-2312-DF	FC11754	12/6/2023	SGS Orlando	Laboratory Report, SDG FC11754, Level 2, Revision 4	Laboratory Report, SDG FC11754, Level 4, Revision 4	Data Validation Report, Level 2B, SDG FC11754
RHMW15-05	RHMW15-05-WGN01G-2312-DF	FC11754B	12/6/2023	SGS Orlando	Laboratory Report, SDG FC11754B, Level 2	Laboratory Report, SDG FC11754B, Level 4	Data Validation Report, Level 2B, SDG FC11754B
RHMW15-05	RHMW15-05-WGN01G-2312-DF	1236637_EDMS	12/6/2023	SGS Anchorage	Laboratory Report, SDG 1236637, Level 2	Laboratory Report, SDG 1236637, Level 4	Data Validation Report, Level S2BVEM, SDG 1236637
RHMW17	RHMW17-WGFD01LF-2312-DF	FC11754	12/6/2023	SGS Orlando	Laboratory Report, SDG FC11754, Level 2, Revision 4	Laboratory Report, SDG FC11754, Level 4, Revision 4	Data Validation Report, Level 2B, SDG FC11754
RHMW17	RHMW17-WGN01LF-2312-DF	FC11754	12/6/2023	SGS Orlando	Laboratory Report, SDG FC11754, Level 2, Revision 4	Laboratory Report, SDG FC11754, Level 4, Revision 4	Data Validation Report, Level 2B, SDG FC11754
RHMW17	RHMW17-WGN01LF-2312-DF	FC11754B	12/6/2023	SGS Orlando	Laboratory Report, SDG FC11754B, Level 2	Laboratory Report, SDG FC11754B, Level 4	Data Validation Report, Level 2B, SDG FC11754B
RHMW17	RHMW17-WGN01LF-2312-DF	1236637_EDMS	12/6/2023	SGS Anchorage	Laboratory Report, SDG 1236637, Level 2	Laboratory Report, SDG 1236637, Level 4	Data Validation Report, Level S2BVEM, SDG 1236637
RHP02	RHP02-WGFD01LF-2312-DF	FC11754	12/6/2023	SGS Orlando	Laboratory Report, SDG FC11754, Level 2, Revision 4	Laboratory Report, SDG FC11754, Level 4, Revision 4	Data Validation Report, Level 2B, SDG FC11754
RHP02	RHP02-WGN01LF-2312-DF	FC11754	12/6/2023	SGS Orlando	Laboratory Report, SDG FC11754, Level 2, Revision 4	Laboratory Report, SDG FC11754, Level 4, Revision 4	Data Validation Report, Level 2B, SDG FC11754
RHP02	RHP02-WGN01LF-2312-DF	FC11754B	12/6/2023	SGS Orlando	Laboratory Report, SDG FC11754B, Level 2	Laboratory Report, SDG FC11754B, Level 4	Data Validation Report, Level 2B, SDG FC11754B
RHP02	RHP02-WGN01LF-2312-DF	1236637_EDMS	12/6/2023	SGS Anchorage	Laboratory Report, SDG 1236637, Level 2	Laboratory Report, SDG 1236637, Level 4	Data Validation Report, Level S2BVEM, SDG 1236637
RHP03	RHP03-WGN01LF-2312-DF	FC11754	12/6/2023	SGS Orlando	Laboratory Report, SDG FC11754, Level 2, Revision 4	Laboratory Report, SDG FC11754, Level 4, Revision 4	Data Validation Report, Level 2B, SDG FC11754
RHP03	RHP03-WGN01LF-2312-DF	FC11754B	12/6/2023	SGS Orlando	Laboratory Report, SDG FC11754B, Level 2	Laboratory Report, SDG FC11754B, Level 4	Data Validation Report, Level 2B, SDG FC11754B
RHP03	RHP03-WGN01LF-2312-DF	1236637_EDMS	12/6/2023	SGS Anchorage	Laboratory Report, SDG 1236637, Level 2	Laboratory Report, SDG 1236637, Level 4	Data Validation Report, Level S2BVEM, SDG 1236637
RHP05	RHP05-WGN01LF-2312-DF	FC11754	12/6/2023	SGS Orlando	Laboratory Report, SDG FC11754, Level 2, Revision 4	Laboratory Report, SDG FC11754, Level 4, Revision 4	Data Validation Report, Level 2B, SDG FC

Table D-1: Index of Analytical Laboratory Reports and Data Validation Reports, by Sample Collection Date (cont'd)

Sample Location Identifier	Sample ID	SDG	Sample Collection Date	Laboratory	Level 2 Lab Report PDF	Level 4 Lab Report PDF	DVR PDF
RHMW13-04	RHMW13-04-WGN01G-2312WK2-DF	FC11937	12/12/2023	SGS Orlando	Laboratory Report, SDG FC11937, Level 2, Revision 1	Laboratory Report, SDG FC11937, Level 4, Revision 1	Data Validation Report Level 2B SDG FC11937
RHMW13-04	RHMW13-04-WGN01G-2312WK2-DF	23L0091	12/12/2023	APPL	Laboratory Report, SDG 23L0091, Level 2	Laboratory Report, SDG 23L0091, Level 4	Data Validation Report Level S2BVEM 23L0091
RHMW17	RHMW17-WGFD01LF-2312WK2-DF	FC11937	12/12/2023	SGS Orlando	Laboratory Report, SDG FC11937, Level 2, Revision 1	Laboratory Report, SDG FC11937, Level 4, Revision 1	Data Validation Report Level 2B SDG FC11937
RHMW17	RHMW17-WGN01LF-2312WK2-DF	FC11937	12/12/2023	SGS Orlando	Laboratory Report, SDG FC11937, Level 2, Revision 1	Laboratory Report, SDG FC11937, Level 4, Revision 1	Data Validation Report Level 2B SDG FC11937
RHMW17	RHMW17-WGFD01LF-2312WK2-DF	23L0091	12/12/2023	APPL	Laboratory Report, SDG 23L0091, Level 2	Laboratory Report, SDG 23L0091, Level 4	Data Validation Report Level S2BVEM 23L0091
RHMW17	RHMW17-WGN01LF-2312WK2-DF	23L0091	12/12/2023	APPL	Laboratory Report, SDG 23L0091, Level 2	Laboratory Report, SDG 23L0091, Level 4	Data Validation Report Level S2BVEM 23L0091
RHMW19	RHMW19-WGN01LF-2312WK2-DF	FC11937	12/12/2023	SGS Orlando	Laboratory Report, SDG FC11937, Level 2, Revision 1	Laboratory Report, SDG FC11937, Level 4, Revision 1	Data Validation Report Level 2B SDG FC11937
RHMW19	RHMW19-WGN01LF-2312WK2-DF	23L0091	12/12/2023	APPL	Laboratory Report, SDG 23L0091, Level 2	Laboratory Report, SDG 23L0091, Level 4	Data Validation Report Level S2BVEM 23L0091
RHP04A	RHP04A-WGN01LF-2312WK2-DF	FC11937	12/12/2023	SGS Orlando	Laboratory Report, SDG FC11937, Level 2, Revision 1	Laboratory Report, SDG FC11937, Level 4, Revision 1	Data Validation Report Level 2B SDG FC11937
RHP04A	RHP04A-WGN01LF-2312WK2-DF	23L0091	12/12/2023	APPL	Laboratory Report, SDG 23L0091, Level 2	Laboratory Report, SDG 23L0091, Level 4	Data Validation Report Level S2BVEM 23L0091
RHP04B	RHP04B-WGN01LF-2312WK2-DF	FC11937	12/12/2023	SGS Orlando	Laboratory Report, SDG FC11937, Level 2, Revision 1	Laboratory Report, SDG FC11937, Level 4, Revision 1	Data Validation Report Level 2B SDG FC11937
RHP04B	RHP04B-WGN01LF-2312WK2-DF	23L0091	12/12/2023	APPL	Laboratory Report, SDG 23L0091, Level 2	Laboratory Report, SDG 23L0091, Level 4	Data Validation Report Level S2BVEM 23L0091
RHMW03	RHMW03-WGN01LF-2312WK2-DF	FC11937	12/12/2023	SGS Orlando	Laboratory Report, SDG FC11937, Level 2, Revision 1	Laboratory Report, SDG FC11937, Level 4, Revision 1	Data Validation Report Level 2B SDG FC11937
RHMW05	RHMW05-WGN01LF-2312WK2-DF	FC11937	12/12/2023	SGS Orlando	Laboratory Report, SDG FC11937, Level 2, Revision 1	Laboratory Report, SDG FC11937, Level 4, Revision 1	Data Validation Report Level 2B SDG FC11937
RHMW2254-01	RHMW2254-01-WGN01LF-2312WK2-DF	FC11937	12/12/2023	SGS Orlando	Laboratory Report, SDG FC11937, Level 2, Revision 1	Laboratory Report, SDG FC11937, Level 4, Revision 1	Data Validation Report Level 2B SDG FC11937
RHP07	RHP07-WGN01LF-2312WK2-DF	FC11937	12/12/2023	SGS Orlando	Laboratory Report, SDG FC11937, Level 2, Revision 1	Laboratory Report, SDG FC11937, Level 4, Revision 1	Data Validation Report Level 2B SDG FC11937
RHMW10	RHMW10-WGN01LF-2312WK2-DF	FC11982	12/13/2023	SGS Orlando	Laboratory Report, SDG FC11982, Level 2, Revision 2	Laboratory Report, SDG FC11982, Level 4, Revision 2	Data Validation Report Level 2B SDG FC11982
RHMW10	RHMW10-WGN01LF-2312WK2-DF	FC11982A	12/13/2023	SGS Orlando	Laboratory Report, SDG FC11982A, Level 2, Revision 1	Laboratory Report, SDG FC11982A, Level 4, Revision 1	Data Validation Report Level 2B SDG FC11982A
RHMW10	RHMW10-WGN01LF-2312WK2-DF	23L0108	12/13/2023	APPL	Laboratory Report, SDG 23L0108, Level 2	Laboratory Report, SDG 23L0108, Level 4	Data Validation Report Level S4VEM SDG 23L0108, Revision 1
RHMW11-05	RHMW11-05-WGN01G-2312WK2-DF	FC11982	12/13/2023	SGS Orlando	Laboratory Report, SDG FC11982, Level 2, Revision 2	Laboratory Report, SDG FC11982, Level 4, Revision 2	Data Validation Report Level 2B SDG FC11982
RHMW11-05	RHMW11-05-WGN01G-2312WK2-DF	FC11982A	12/13/2023	SGS Orlando	Laboratory Report, SDG FC11982A, Level 2, Revision 1	Laboratory Report, SDG FC11982A, Level 4, Revision 1	Data Validation Report Level 2B SDG FC11982A
RHMW11-05	RHMW11-05-WGN01G-2312WK2-DF	23L0108	12/13/2023	APPL	Laboratory Report, SDG 23L0108, Level 2	Laboratory Report, SDG 23L0108, Level 4	Data Validation Report Level S4VEM SDG 23L0108, Revision 1
RHMW14-03	RHMW14-03-WGN01G-2312WK2-DF	FC11982	12/13/2023	SGS Orlando	Laboratory Report, SDG FC11982, Level 2, Revision 2	Laboratory Report, SDG FC11982, Level 4, Revision 2	Data Validation Report Level 2B SDG FC11982
RHMW14-03	RHMW14-03-WGN01G-2312WK2-DF	FC11982A	12/13/2023	SGS Orlando	Laboratory Report, SDG FC11982A, Level 2, Revision 1	Laboratory Report, SDG FC11982A, Level 4, Revision 1	Data Validation Report Level 2B SDG FC11982A
RHMW14-03	RHMW14-03-WGN01G-2312WK2-DF	23L0108	12/13/2023	APPL	Laboratory Report, SDG 23L0108, Level 2	Laboratory Report, SDG 23L0108, Level 4	Data Validation Report Level S4VEM SDG 23L0108, Revision 1
RHMW20	RHMW20-WGN01LF-2312WK2-DF	FC11982	12/13/2023	SGS Orlando	Laboratory Report, SDG FC11982, Level 2, Revision 2	Laboratory Report, SDG FC11982, Level 4, Revision 2	Data Validation Report Level 2B SDG FC11982
RHMW20	RHMW20-WGN01LF-2312WK2-DF	FC11982A	12/13/2023	SGS Orlando	Laboratory Report, SDG FC11982A, Level 2, Revision 1	Laboratory Report, SDG FC11982A, Level 4, Revision 1	Data Validation Report Level 2B SDG FC11982A
RHMW20	RHMW20-WGN01LF-2312WK2-DF	23L0108	12/13/2023	APPL	Laboratory Report, SDG 23L0108, Level 2	Laboratory Report, SDG 23L0108, Level 4	Data Validation Report Level S4VEM SDG 23L0108, Revision 1
RHP04C	RHP04C-WGN01LF-2312WK2-DF	FC11982	12/13/2023	SGS Orlando	Laboratory Report, SDG FC11982, Level 2, Revision 2	Laboratory Report, SDG FC11982, Level 4, Revision 2	Data Validation Report Level 2B SDG FC11982
RHP04C	RHP04C-WGN01LF-2312WK2-DF	FC11982A	12/13/2023	SGS Orlando	Laboratory Report, SDG FC11982A, Level 2, Revision 1	Laboratory Report, SDG FC11982A, Level 4, Revision 1	Data Validation Report Level 2B SDG FC11982A
RHP04C	RHP04C-WGN01LF-2312WK2-DF	23L0108	12/13/2023	APPL	Laboratory Report, SDG 23L0108, Level 2	Laboratory Report, SDG 23L0108, Level 4	Data Validation Report Level S4VEM SDG 23L0108, Revision 1
RHP05	RHP05-WGN01LF-2312WK2-DF	FC11982	12/13/2023	SGS Orlando	Laboratory Report, SDG FC11982, Level 2, Revision 2	Laboratory Report, SDG FC11982, Level 4, Revision 2	Data Validation Report Level 2B SDG FC11982
RHP05	RHP05-WGN01LF-2312WK2-DF	FC11982A	12/13/2023	SGS Orlando	Laboratory Report, SDG FC11982A, Level 2, Revision 1	Laboratory Report, SDG FC11982A, Level 4, Revision 1	Data Validation Report Level 2B SDG FC11982A
RHP05	RHP05-WGN01LF-2312WK2-DF	23L0108	12/13/2023	APPL	Laboratory Report, SDG 23L0108, Level 2	Laboratory Report, SDG 23L0108, Level 4	Data Validation Report Level S4VEM SDG 23L0108, Revision 1
RHP06	RHP06-WGN01LF-2312WK2-DF	FC11982	12/13/2023	SGS Orlando	Laboratory Report, SDG FC11982, Level 2, Revision 2	Laboratory Report, SDG FC11982, Level 4, Revision 2	Data Validation Report Level 2B SDG FC11982
RHP06	RHP06-WGN01LF-2312WK2-DF	FC11982A	12/13/2023	SGS Orlando	Laboratory Report, SDG FC11982A, Level 2, Revision 1	Laboratory Report, SDG FC11982A, Level 4, Revision 1	Data Validation Report Level 2B SDG FC11982A
RHP06	RHP06-WGN01LF-2312WK2-DF	23L0108	12/13/2023	APPL	Laboratory Report, SDG 23L0108, Level 2	Laboratory Report, SDG 23L0108, Level 4	Data Validation Report Level S4VEM SDG 23L0108, Revision 1
RHP08	RHP08-WGN01LF-2312WK2-DF	FC11982	12/13/2023	SGS Orlando	Laboratory Report, SDG FC11982, Level 2, Revision 2	Laboratory Report, SDG FC11982, Level 4, Revision 2	Data Validation Report Level 2B SDG FC11982
RHP08	RHP08-WGN01LF-2312WK2-DF	FC11982A	12/13/2023	SGS Orlando	Laboratory Report, SDG FC11982A, Level 2, Revision 1	Laboratory Report, SDG FC11982A, Level 4, Revision 1	Data Validation Report Level 2B SDG FC11982A
RHP08	RHP08-WGN01LF-2312WK2-DF	23L0108	12/13/2023	APPL	Laboratory Report, SDG 23L0108, Level 2	Laboratory Report, SDG 23L0108, Level 4	Data Validation Report Level S4VEM SDG 23L0108, Revision 1
RHMW01R	RHMW01R-WGFD01LF-2312WK2-DF	FC12040	12/15/2023	SGS Orlando	Laboratory Report, SDG FC12040, Level 2, Revision 1	Laboratory Report, SDG FC12040, Level 4, Revision 1	Data Validation Report Level 2B SDG FC12040
RHMW01R	RHMW01R-WGFD01LF-2312WK2-DF	FC12040B	12/15/2023	SGS Orlando	Laboratory Report, SDG FC12040B, Level 2, Revision 1	Laboratory Report, SDG FC12040B, Level 4, Revision 1	Data Validation Report Level 2B SDG FC12040B
RHMW01R	RHMW01R-WGN01LF-2312WK2-DF	FC12040B	12/15/2023	SGS Orlando	Laboratory Report, SDG FC12040B, Level 2, Revision 1	Laboratory Report, SDG FC12040B, Level 4, Revision 1	Data Validation Report Level 2B SDG FC12040B
RHMW01R	RHMW01R-WGN01LF-2312WK2-DF	FC12040	12/15/2023	SGS Orlando	Laboratory Report, SDG FC12040, Level 2, Revision 1	Laboratory Report, SDG FC12040, Level 4, Revision 1	Data Validation Report Level 2B SDG FC12040
RHMW02	RHMW02-WGFD01LF-2312WK2-DF	FC12040B	12/15/2023	SGS Orlando	Laboratory Report, SDG FC12040B, Level 2, Revision 1	Laboratory Report, SDG FC12040B, Level 4, Revision 1	Data Validation Report Level 2B SDG FC12040B
RHMW02	RHMW02-WGFD01LF-2312WK2-DF	FC12040	12/15/2023	SGS Orlando	Laboratory Report, SDG FC12040, Level 2, Revision 1	Laboratory Report, SDG FC12040, Level 4, Revision 1	Data Validation Report Level 2B SDG FC12040
RHMW02	RHMW02-WGN01LF-2312WK2-DF	FC12040	12/15/2023	SGS Orlando	Laboratory Report, SDG FC12040, Level 2, Revision 1	Laboratory Report, SDG FC12040, Level 4, Revision 1	Data Validation Report Level 2B SDG FC12040
RHMW02	RHMW02-WGN01LF-2312WK2-DF	FC12040B	12/15/2023	SGS Orlando	Laboratory Report, SDG FC12040B, Level 2, Revision 1	Laboratory Report, SDG FC12040B, Level 4, Revision 1	Data Validation Report Level 2B SDG FC12040B
RHMW04	RHMW04-WGN01LF-2312WK3-DF	FC12097	12/18/2023	SGS Orlando	Laboratory Report, SDG FC12097, Level 2, Revision 1	Laboratory Report, SDG FC12097, Level 4, Revision 1	Data Validation Report Level 2B SDG FC12097
RHMW04	RHMW04-WGN01LF-2312WK3-DF	23L0150	12/18/2023	APPL	Laboratory Report, SDG 23L0150, Level 2	Laboratory Report, SDG 23L0150, Level 4	Data Validation Report Level S2BVEM 23L0150
RHMW06	RHMW06-WGN01LF-2312WK3-DF	FC12097	12/18/2023	SGS Orlando	Laboratory Report, SDG FC12097, Level 2, Revision 1	Laboratory Report, SDG FC12097, Level 4, Revision 1	Data Validation Report Level 2B SDG FC12097
RHMW06	RHMW06-WGN01LF-2312WK3-DF	23L0150	12/18/2023	APPL	Laboratory Report, SDG 23L0150, Level 2	Laboratory Report, SDG 23L0150, Level 4	Data Validation Report Level S2BVEM 23L0150
RHMW15-05	RHMW15-05-WGN01G-2312WK3-DF	FC12097	12/18/2023	SGS Orlando	Laboratory Report, SDG FC12097, Level 2, Revision 1	Laboratory Report, SDG FC12097, Level 4, Revision 1	Data Validation Report Level 2B SDG FC12097
RHMW15-05	RHMW15-05-WGN01G-2312WK3-DF	23L0150	12/18/2023	APPL	Laboratory Report, SDG 23L0150, Level 2	Laboratory Report, SDG 23L0150, Level 4	Data Validation Report Level S2BVEM 23L0150
RHMW16	RHMW16-WGN01LF-2312WK3-DF	FC12097	12/18/2023	SGS Orlando	Laboratory Report, SDG FC12097, Level 2, Revision 1	Laboratory Report, SDG FC12097, Level 4, Revision 1	Data Validation Report Level 2B SDG FC12097
RHMW16	RHMW16-WGN01LF-2312WK3-DF	23L0150	12/18/2023	APPL	Laboratory Report, SDG 23L0150, Level 2	Laboratory Report, SDG 23L0150, Level 4	Data Validation Report Level S2BVEM 23L0150
RHP01	RHP01-WGN01LF-2312WK3-DF	FC12097	12/18/2023	SGS Orlando	Laboratory Report, SDG FC12097, Level 2, Revision 1	Laboratory Report, SDG FC12097, Level 4, Revision 1	Data Validation Report Level 2B SDG FC12097
RHP01	RHP01-WGN01LF-2312WK3-DF	23L0150	12/18/2023	APPL	Laboratory Report, SDG 23L0150, Level 2	Laboratory Report, SDG 23L0150, Level 4	Data Validation Report Level S2BVEM 23L0150
RHP02	RHP02-WGFD01LF-2312WK3-DF	FC12097	12/18/2023	SGS Orlando	Laboratory Report, SDG FC12097, Level 2, Revision 1	Laboratory Report, SDG FC12097, Level 4, Revision 1	Data Validation Report Level 2B SDG FC12097
RHP02	RHP02-WGN01LF-2312WK3-DF	FC12097	12/18/2023	SGS Orlando	Laboratory Report, SDG FC12097, Level 2, Revision 1	Laboratory Report, SDG FC12097, Level 4, Revision 1	Data Validation Report Level 2B SDG FC12097
RHP02	RHP02-WGFD01LF-2312WK3-DF	23L0150	12/18/2023	APPL	Laboratory Report, SDG 23L0150, Level 2	Laboratory Report, SDG 23L0150, Level 4	Data Validation Report Level S2BVEM 23L0150
RHP02	RHP02-WGN01LF-2312WK3-DF	23L0150	12/18/2023	APPL	Laboratory Report, SDG 23L0150, Level 2	Laboratory Report, SDG 23L0150, Level 4	Data Validation Report Level S2BVEM 23L0150
RHP03	RHP03-WGN01LF-2312WK3-DF	FC12097	12/18/2023	SGS Orlando	Laboratory Report, SDG FC12097, Level 2, Revision 1	Laboratory Report, SDG FC12097, Level 4, Revision 1	Data Validation Report Level 2B SDG FC12097
RHP03	RHP03-WGN01LF-2312WK3-DF	23L0150	12/18/2023	APPL	Laboratory Report, SDG 23L0150, Level 2	Laboratory Report, SDG 23L0150, Level 4	Data Validation Report Level S2BVEM 23L0150
RHMW08	RHMW08-WGN01LF-2312WK3-DF	FC12097	12/18/2023	SGS Orlando	Laboratory Report, SDG FC12097, Level 2, Revision 1	Laboratory Report, SDG FC12097, Level 4, Revision 1	Data Validation Report Level 2B SDG FC12097
RHMW09	RHMW09-WGN01LF-2312WK3-DF	FC12136	12/19/2023	SGS Orlando	Laboratory Report, SDG FC12136, Level 2, Revision 1	Laboratory Report, SDG FC12136, Level 4, Revision 1	Data Validation Report Level 2B SDG FC12136
RHMW09	RHMW09-WGN01LF-2312WK3-DF	23L0161	12/19/2023	APPL	Laboratory Report, SDG 23L0161, Level 2	Laboratory Report, SDG 23L0161, Level 4	Data Validation Report Level S2BVEM 23L0161
RHMW13-04	RHMW13-04-WGN01G-2312WK3-DF	FC12136	12/19/2023	SGS Orlando	Laboratory Report, SDG FC12136, Level 2, Revision 1	Laboratory Report, SDG FC12136, Level 4, Revision 1	Data Validation Report Level 2B SDG FC12136
RHMW13-04	RHMW13-04-WGN01G-2312WK3-DF	23L0161	12/19/2023	APPL	Laboratory Report, SDG 23L0161, Level 2	Laboratory Report, SDG 23L0161, Level 4	Data Validation Report Level S2BVEM 23L0161
RHMW17	RHMW17-WGFD01LF-2312WK3-DF	FC12136	12/19/2023	SGS Orlando	Laboratory Report, SDG FC12136, Level 2, Revision 1	Laboratory Report, SDG FC12136, Level 4, Revision 1	Data Validation Report Level 2B SDG FC12136
RHMW17	RHMW17-WGN01LF-2312WK3-DF	FC12136	12/19/2023	SGS Orlando	Laboratory Report, SDG FC12136, Level 2, Revision 1	Laboratory Report, SDG FC12136, Level 4, Revision 1	Data Validation Report Level 2B SDG FC12136
RHMW17	RHMW17-WGFD01LF-2312WK3-DF	23L0161	12/19/2023	APPL	Laboratory Report, SDG 23L0161, Level 2	Laboratory Report, SDG 23L0161, Level 4	Data Validation Report Level S2BVEM 23L0161
RHMW17	RHMW17-WGN01LF-2312WK3-DF	23L0161	12/19/2023	APPL	Laboratory Report, SDG 23L0161, Level 2	Laboratory Report, SDG 23L0161, Level 4	Data Validation Report Level S2BVEM 23L0161
RHMW19	RHMW19-WGN01LF-2312WK3-DF	FC12136	12/19/2023	SGS Orlando	Laboratory Report, SDG FC12136, Level 2, Revision 1	Laboratory Report, SDG FC12136, Level 4, Revision 1	Data Validation Report Level 2B SDG FC12136
RHMW19	RHMW19-WGN01LF-2312WK3-DF	23L0161	12/19/2023	APPL	Laboratory Report, SDG 23L0161, Level 2	Laboratory Report, SDG 23L0161, Level 4	Data Validation Report Level S2BVEM 23L0161
RHP04A	RHP04A-WGN01LF-2312WK3-DF	FC12136	12/19/2023	SGS Orlando	Laboratory Report, SDG FC12136, Level 2, Revision 1	Laboratory Report, SDG FC12136, Level 4, Revision 1	Data Validation Report Level 2B SDG FC12136
RHP04A	RHP04A-WGN01LF-2312WK3-DF	23L0161	12/19/2023	APPL	Laboratory Report, SDG 23L0161, Level 2	Laboratory Report, SDG 23L0161, Level 4	Data Validation Report Level S2BVEM 23L0161
RHP04B	RHP04B-WGN01LF-2312WK3-DF	FC12136	12/19/2023	SGS Orlando	Laboratory Report, SDG FC12136, Level 2, Revision 1	Laboratory Report, SDG FC12136, Level 4, Revision 1	Data Validation Report Level 2B SDG FC12136
RHP04B	RHP04B-WGN01LF-2312WK3-DF	23L0161	12/19/2023	APPL	Laboratory Report, SDG 23L0161, Level 2	Laboratory Report, SDG 23L0161, Level 4	Data Validation Report Level S2BVEM 23L0161
RHMW01R	RHMW01R-WGFD01LF-2312WK3-DF	FC12136	12/19/2023	SGS Orlando	Laboratory Report, SDG FC12136, Level 2, Revision 1	Laboratory Report, SDG FC12136, Level 4, Revision 1	Data Validation Report Level 2B SDG FC12136
RHMW01R	RHMW01R-WGN01LF-2312WK3-DF	FC12136	12/19/2023	SGS Orlando	Laboratory Report, SDG FC12136, Level 2, Revision 1	Laboratory Report, SDG FC12136, Level 4, Revision 1	Data Validation Report Level 2B SDG FC12136
RHMW02	RHMW02-WGFD01LF-2312WK3-DF	FC12136	12/19/2023	SGS Orlando	Laboratory Report, SDG FC12136, Level 2, Revision 1	Laboratory Report, SDG FC12136, Level 4, Revision 1	Data Validation Report Level 2B SDG FC12136
RHMW02	RHMW02-WGN01LF-2312WK3-DF	FC12136	12/19/2023	SGS Orlando	Laboratory Report, SDG FC12136, Level 2, Revision 1	Laboratory Report, SDG FC12136, Level 4, Revision 1	Data Validation Report Level 2B SDG FC12136
RHMW03	RHMW03-WGN01LF-2312WK3-DF	FC12136	12/19/2023	SGS Orlando	Laboratory Report, SDG FC12136, Level 2, Revision 1	Laboratory Report, SDG FC12136, Level 4, Revision 1	Data Validation Report Level 2B SDG FC12136
RHMW2254-01	RHMW2254-01-WGN01LF-2312WK3-DF	FC12136	12/19/2023	SGS Orlando	Laboratory Report, SDG FC12136, Level 2, Revision 1	Laboratory Report, SDG FC12136, Level 4, Revision 1	Data Validation Report Level 2B SDG FC12136
RHMW10	RHMW10-WGN01LF-2312WK3-DF	FC12167	12/20/2023	SGS Orlando	Laboratory Report, SDG FC12167, Level 2, Revision 1	Laboratory Report, SDG FC12167, Level 4, Revision 1	Data Validation Report Level 2B SDG FC12167
RHMW10	RHMW10-WGN01LF-2312WK3-DF	23L0179	12/20/2023	APPL	Laboratory Report, SDG 23L0179, Level 2	Laboratory Report, SDG 23L0179, Level 4	Data Validation Report Level S2BVEM 23L0179
RHMW11-05	RHMW11-05-WGN01G-2312WK3-DF	FC12167	12/20/2023	SGS Orlando	Laboratory Report, SDG FC12167, Level 2, Revision 1	Laboratory Report, SDG FC12167, Level 4, Revision 1	Data Validation Report Level 2B SDG FC12167
RHMW11-05	RHMW11-05-WGN01G-2312WK3-DF	23L0179	12/20/2023	APPL	Laboratory Report, SDG 23L0179, Level 2	Laboratory Report, SDG 23L0179, Level 4	Data Validation Report Level S2BVEM 23L0179
RHMW14-03	RHMW14-03-WGN01G-2312WK3-DF	FC12167	12/20/2023	SGS Orlando	Laboratory Report, SDG FC12167, Level 2, Revision 1	Laboratory Report, SDG FC12167, Level 4, Revision 1	Data Validation Report Level 2B SDG FC12167
RHMW14-03	RHMW14-03-WGN01G-2312WK3-DF	23L0179	12/20/2023	APPL	Laboratory Report, SDG 23L0179, Level 2	Laboratory Report, SDG 23L0179, Level 4	Data Validation Report Level S2BVEM 23L0179
RHMW20	RHMW20-WGN01LF-2312WK3-DF	FC12167	12/20/2023	SGS Orlando	Laboratory Report, SDG FC12167, Level 2, Revision 1	Laboratory Report, SDG FC12167, Level 4, Revision 1	Data Validation Report Level 2B SDG FC12167
RHMW20	RHMW20-WGN01LF-2312WK3-DF	23L0179	12/20/2023	APPL	Laboratory Report, SDG 23L0179, Level 2	Laboratory Report, SDG 23L0179, Level 4	Data Validation Report Level S2BVEM 23L0179
RHP04C	RHP04C-WGN01LF-2312WK3-DF	FC12167	12/20/2023	SGS Orlando	Laboratory Report, SDG FC12167, Level 2, Revision 1	Laboratory Report, SDG FC12167, Level 4, Revision 1	Data Validation Report Level 2B SDG FC12167
RHP04C	RHP04C-WGN01LF-2312WK3-DF	23L0179	12/20/2023	APPL	Laboratory Report, SDG 23L0179, Level 2	Laboratory Report, SDG 23L0179, Level 4	Data Validation Report Level S2BVEM 23L0179
RHP05	RHP05-WGN01LF-2312WK3-DF	FC12167	12/20/2023	SGS Orlando	Laboratory Report, SDG FC12167, Level 2, Revision 1	Laboratory Report, SDG FC12167, Level 4, Revision 1	Data Validation Report Level 2B SDG FC12167
RHP05	RHP05-WGN01LF-2312WK3-DF	23L0179	12/20/2023	APPL	Laboratory Report, SDG 23L0179, Level 2	Laboratory Report, SDG 23L0179, Level 4	Data Validation Report Level S2BVEM 23L0179
RHP06	RHP06-WGN01LF-2312WK3-DF	FC12167	12/20/2023	SGS Orlando	Laboratory Report, SDG FC12167, Level 2, Revision 1	Laboratory Report, SDG FC12167, Level 4, Revision 1	Data Validation Report Level 2B SDG FC12167
RHP06	RHP06-WGN01LF-2312WK3-DF	23L0179	12/20/2023	APPL	Laboratory Report, SDG 23L0179, Level 2	Laboratory Report, SDG 23L0179, Level 4	Data Validation Report Level S2BVEM 23L0179
RHP08	RHP08-WGN01LF-2312WK3-DF	FC12167	12/20/2023	SGS Orlando	Laboratory Report, SDG FC12167, Level 2, Revision 1	Laboratory Report, SDG FC12167, Level 4, Revision 1	Data Validation Report Level 2B SDG FC12167
RHP08	RHP08-WGN01LF-2312WK3-DF	23L0179	12/20/2023	APPL	Laboratory Report, SDG 23L0179, Level 2	Laboratory Report, SDG 23L0179, Level 4	Data Validation Report Level S2BVEM 23L0179
RHMW05	RHMW05-WGN01LF-2312WK3-DF	FC12219	12/22/2023	SGS Orlando	Laboratory Report, SDG FC12219, Level 2, Revision 1	Laboratory Report, SDG FC12219, Level 4, Revision 1	Data Validation Report Level 2B SDG FC12219
RHP07	RHP07-WGN01LF-2312WK3-DF	FC12219	12/22/2023	SGS Orlando	Laboratory Report, SDG FC12219, Level 2, Revision 1	Laboratory Report, SDG FC12219, Level 4, Revision 1	Data Validation Report Level 2B SDG FC12219
RHMW16	RHMW16-WGN01LF-2312WK4-DF	FC12235	12/26/2023	SGS Orlando	Laboratory Report, SDG FC12235, Level 2, Revision 1	Laboratory Report, SDG FC12235, Level 4, Revision 1	Data Validation Report Level 2B SDG FC12235
RHMW16	RHMW16-WGN01LF-2312WK4-DF	23L0208	12/26/2023	APPL	Laboratory Report, SDG 23L0208, Level 2	Laboratory Report, SDG 23L0208, Level 4, Revision 1	Data Validation Report Level S2BVEM 23L0208
RHP01	RHP01-WGN01LF-2312WK4-DF	FC12235	12/26/2023	SGS Orlando	Laboratory Report, SDG FC12235, Level 2, Revision 1	Laboratory Report, SDG FC12235, Level 4, Revision 1	Data Validation Report Level 2B SDG FC12235
RHP01	RHP01-WGN01LF-2312WK4-DF	23L0208	12/26/2023	APPL	Laboratory Report, SDG 23L0208, Level 2	Laboratory Report, SDG 23L0208, Level 4, Revision 1	Data Validation Report Level S2BVEM 23L0208
RHP02	RHP02-WGFD01LF-2312WK4-DF	FC12235	12/26/2023	SGS Orlando	Laboratory Report, SDG FC12235, Level 2, Revision 1	Laboratory Report, SDG FC12235, Level 4, Revision 1	Data Validation Report Level 2B SDG FC12235
RHP02	RHP02-WGN01LF-2312WK4-DF	FC12235	12/26/2023	SGS Orlando	Laboratory Report, SDG FC12235, Level 2, Revision 1	Laboratory Report, SDG FC12235, Level 4, Revision 1	Data Validation Report Level 2B SDG FC12235
RHP02	RHP02-WGFD01LF-2312WK4-DF	23L0208	12/26/2023	APPL	Laboratory Report, SDG 23L0208, Level 2	Laboratory Report, SDG 23L0208, Level 4, Revision 1	Data Validation Report Level S2BVEM 23L0208
RHP02	RHP02-WGN01LF-2312WK4-DF	23L0208	12/26/2023	APPL	Laboratory Report, SDG 23L0208, Level 2	Laboratory Report, SDG 23L0208, Level 4, Revision 1	Data Validation Report Level S2BVEM 23L0208
RHP03	RHP03-WGN01LF-2312WK4-DF	FC12235	12/26/2023	SGS Orlando	Laboratory Report, SDG FC12235, Level 2, Revision 1	Laboratory Report, SDG FC12235, Level 4, Revision 1	Data Validation Report Level 2B SDG FC12235
RHP03	RHP03-WGN01LF-2312WK4-DF	23L0208	12/26/2023	APPL	Laboratory Report, SDG 23L0208, Level 2	Laboratory Report, SDG 23L0208, Level 4, Revision 1	Data Validation Report Level S2BVEM 23L0208
RHMW01R	RHMW01R-WGFD01LF-2312WK4-DF	FC12235	12/26/2023	SGS Orlando	Laboratory Report, SDG FC12235, Level 2, Revision 1	Laboratory Report, SDG FC12235, Level 4, Revision 1	Data Validation Report Level 2B SDG FC12235
RHMW01R	RHMW01R-WGN01LF-2312WK4-DF	FC12235	12/26/2023	SGS Orlando	Laboratory Report, SDG FC12235, Level 2, Revision 1	Laboratory Report, SDG FC12235, Level 4, Revision 1	Data Validation Report Level 2B SDG FC12235
RHMW02	RHMW02-WGFD01LF-2312WK4-DF	FC12235	12/26/2023	SGS Orlando	Laboratory Report, SDG FC12235, Level 2, Revision 1	Laboratory Report, SDG FC12235, Level 4, Revision 1	Data Validation Report Level 2B SDG FC12235
RHMW02	RHMW02-WGN01LF-2312WK4-DF	FC12235	12/26/2023	SGS Orlando	Laboratory Report, SDG FC12235, Level 2, Revision 1	Laboratory Report, SDG FC12235, Level 4, Revision 1	Data Validation Report Level 2B SDG FC12235
RHMW03	RHMW03-WGN01LF-2312WK4-DF	FC12235	12/26/2023	SGS Orlando	Laboratory Report, SDG FC12235, Level 2, Revision 1	Laboratory Report, SDG FC12235, Level 4, Revision 1	Data Validation Report Level 2B SDG FC12235
RHMW08	RHMW08-WGN01LF-2312WK4-DF	FC12235	12/26/2023	SGS Orlando	Laboratory Report, SDG FC12235, Level 2, Revision 1	Laboratory Report, SDG FC12235, Level 4, Revision 1	Data Validation Report Level 2B SDG FC12235
RHMW2254-01	RHMW2254-01-WGN01LF-2312WK4-DF	FC12235	12/26/2023	SGS Orlando	Laboratory Report, SDG FC12235, Level 2, Revision 1	Laboratory Report, SDG FC12235, Level 4, Revision 1	Data Validation Report Level 2B SDG FC12235
RHMW04	RHMW04-WGN01LF-2312WK4-DF	FC12258	12/27/2023	SGS Orlando	Laboratory Report, SDG FC12258, Level 2	Laboratory Report, SDG FC12258, Level 4	Data Validation Report Level 2B SDG FC12258
RHMW04	RHMW04-WGN01LF-2312WK4-DF	23L0216	12/27/2023	APPL	Laboratory Report, SDG 23L0216, Level 2	Laboratory Report, SDG 23L0216, Level 4, Revision 1	Data Validation Report Level S2BVEM 23L0216
RHMW06	RHMW06-WGN01LF-2312WK4-DF	FC12258	12/27/2023	SGS Orlando	Laboratory Report, SDG FC12258, Level 2	Laboratory Report, SDG FC12258, Level 4	Data Validation Report Level 2B SDG FC12258
RHMW06	RHMW06-WGN01LF-2312WK4-DF	23L0216	12/27/2023	APPL	Laboratory Report, SDG 23L0216, Level 2	Laboratory Report, SDG 23L0216, Level 4, Revision 1	Data Validation Report Level S2BVEM 23L0216
RHMW09	RHMW09-WGN01LF-2312WK4-DF

Table D-1: Index of Analytical Laboratory Reports and Data Validation Reports, by Sample Collection Date (cont'd)

Sample Location Identifier	Sample ID	SDG	Sample Collection Date	Laboratory	Level 2 Lab Report PDF	Level 4 Lab Report PDF	DVR PDF
RHMW16	RHMW16-WGN01LF-2401-DF	FC12382B	1/3/2024	SGS Orlando	Laboratory Report, SDG FC12382B, Level 2	Laboratory Report, SDG FC12382B, Level 4	Data Validation Report, Level 4, SDG FC12382B
RHMW16	RHMW16-WGN01LF-2401-DF	1240064_EDMS	1/3/2024	SGS Anchorage	Laboratory Report, SDG 1240064, Level 2	Laboratory Report, SDG 1240064, Level 4	Data Validation Report, Level S2BVEM, SDG 1240064
RHMW17	RHMW17-WGFD01LF-2401-DF	FC12382	1/3/2024	SGS Orlando	Laboratory Report, SDG FC12382, Level 2, Revision 2	Laboratory Report, SDG FC12382, Level 4, Revision 2	Data Validation Report, Level 4, SDG FC12382
RHMW17	RHMW17-WGN01LF-2401-DF	FC12382	1/3/2024	SGS Orlando	Laboratory Report, SDG FC12382, Level 2, Revision 2	Laboratory Report, SDG FC12382, Level 4, Revision 2	Data Validation Report, Level 4, SDG FC12382
RHMW17	RHMW17-WGN01LF-2401-DF	FC12382B	1/3/2024	SGS Orlando	Laboratory Report, SDG FC12382B, Level 2	Laboratory Report, SDG FC12382B, Level 4	Data Validation Report, Level 4, SDG FC12382B
RHMW17	RHMW17-WGN01LF-2401-DF	1240064_EDMS	1/3/2024	SGS Anchorage	Laboratory Report, SDG 1240064, Level 2	Laboratory Report, SDG 1240064, Level 4	Data Validation Report, Level S2BVEM, SDG 1240064
RHMW18	RHMW18-WGN01LF-2401-DF	FC12382	1/3/2024	SGS Orlando	Laboratory Report, SDG FC12382, Level 2, Revision 2	Laboratory Report, SDG FC12382, Level 4, Revision 2	Data Validation Report, Level 4, SDG FC12382
RHMW18	RHMW18-WGN01LF-2401-DF	FC12382B	1/3/2024	SGS Orlando	Laboratory Report, SDG FC12382B, Level 2	Laboratory Report, SDG FC12382B, Level 4	Data Validation Report, Level 4, SDG FC12382B
RHMW18	RHMW18-WGN01LF-2401-DF	1240064_EDMS	1/3/2024	SGS Anchorage	Laboratory Report, SDG 1240064, Level 2	Laboratory Report, SDG 1240064, Level 4	Data Validation Report, Level S2BVEM, SDG 1240064
RHMW20	RHMW20-WGN01LF-2401-DF	FC12382	1/3/2024	SGS Orlando	Laboratory Report, SDG FC12382, Level 2, Revision 2	Laboratory Report, SDG FC12382, Level 4, Revision 2	Data Validation Report, Level 4, SDG FC12382
RHMW20	RHMW20-WGN01LF-2401-DF	FC12382B	1/3/2024	SGS Orlando	Laboratory Report, SDG FC12382B, Level 2	Laboratory Report, SDG FC12382B, Level 4	Data Validation Report, Level 4, SDG FC12382B
RHMW20	RHMW20-WGN01LF-2401-DF	1240064_EDMS	1/3/2024	SGS Anchorage	Laboratory Report, SDG 1240064, Level 2	Laboratory Report, SDG 1240064, Level 4	Data Validation Report, Level S2BVEM, SDG 1240064
RHP04A	RHP04A-WGN01LF-2401-DF	FC12382	1/3/2024	SGS Orlando	Laboratory Report, SDG FC12382, Level 2, Revision 2	Laboratory Report, SDG FC12382, Level 4, Revision 2	Data Validation Report, Level 4, SDG FC12382
RHP04A	RHP04A-WGN01LF-2401-DF	FC12382B	1/3/2024	SGS Orlando	Laboratory Report, SDG FC12382B, Level 2	Laboratory Report, SDG FC12382B, Level 4	Data Validation Report, Level 4, SDG FC12382B
RHP04A	RHP04A-WGN01LF-2401-DF	1240064_EDMS	1/3/2024	SGS Anchorage	Laboratory Report, SDG 1240064, Level 2	Laboratory Report, SDG 1240064, Level 4	Data Validation Report, Level S2BVEM, SDG 1240064
RHP04B	RHP04B-WGN01LF-2401-DF	FC12382	1/3/2024	SGS Orlando	Laboratory Report, SDG FC12382, Level 2, Revision 2	Laboratory Report, SDG FC12382, Level 4, Revision 2	Data Validation Report, Level 4, SDG FC12382
RHP04B	RHP04B-WGN01LF-2401-DF	FC12382B	1/3/2024	SGS Orlando	Laboratory Report, SDG FC12382B, Level 2	Laboratory Report, SDG FC12382B, Level 4	Data Validation Report, Level 4, SDG FC12382B
RHP04B	RHP04B-WGN01LF-2401-DF	1240064_EDMS	1/3/2024	SGS Anchorage	Laboratory Report, SDG 1240064, Level 2	Laboratory Report, SDG 1240064, Level 4	Data Validation Report, Level S2BVEM, SDG 1240064
RHP05	RHP05-WGN01LF-2401-DF	FC12382	1/3/2024	SGS Orlando	Laboratory Report, SDG FC12382, Level 2, Revision 2	Laboratory Report, SDG FC12382, Level 4, Revision 2	Data Validation Report, Level 4, SDG FC12382
RHP05	RHP05-WGN01LF-2401-DF	FC12382B	1/3/2024	SGS Orlando	Laboratory Report, SDG FC12382B, Level 2	Laboratory Report, SDG FC12382B, Level 4	Data Validation Report, Level 4, SDG FC12382B
RHP05	RHP05-WGN01LF-2401-DF	1240064_EDMS	1/3/2024	SGS Anchorage	Laboratory Report, SDG 1240064, Level 2	Laboratory Report, SDG 1240064, Level 4	Data Validation Report, Level S2BVEM, SDG 1240064
RHMW09	RHMW09-WGN01LF-2401-DF	FC12403	1/4/2024	SGS Orlando	Laboratory Report, SDG FC12403, Level 2, Revision 3	Laboratory Report, SDG FC12403, Level 4, Revision 3	Data Validation Report, Level 2B, SDG FC12403
RHMW09	RHMW09-WGN01LF-2401-DF	FC12403B	1/4/2024	SGS Orlando	Laboratory Report, SDG FC12403B, Level 2	Laboratory Report, SDG FC12403B, Level 4	Data Validation Report, Level 2B, SDG FC12403B
RHMW09	RHMW09-WGN01LF-2401-DF	1240082_EDMS	1/4/2024	SGS Anchorage	Laboratory Report, SDG 1240082, Level 2	Laboratory Report, SDG 1240082, Level 4	Data Validation Report, Level S2BVEM, SDG 1240082
RHMW11-05	RHMW11-05-WGN01G-2401-DF	FC12403	1/4/2024	SGS Orlando	Laboratory Report, SDG FC12403, Level 2, Revision 3	Laboratory Report, SDG FC12403, Level 4, Revision 3	Data Validation Report, Level 2B, SDG FC12403
RHMW11-05	RHMW11-05-WGN01G-2401-DF	FC12403B	1/4/2024	SGS Orlando	Laboratory Report, SDG FC12403B, Level 2	Laboratory Report, SDG FC12403B, Level 4	Data Validation Report, Level 2B, SDG FC12403B
RHMW11-05	RHMW11-05-WGN01G-2401-DF	1240082_EDMS	1/4/2024	SGS Anchorage	Laboratory Report, SDG 1240082, Level 2	Laboratory Report, SDG 1240082, Level 4	Data Validation Report, Level S2BVEM, SDG 1240082
RHMW14-03	RHMW14-03-WGN01G-2401-DF	FC12403	1/4/2024	SGS Orlando	Laboratory Report, SDG FC12403, Level 2, Revision 3	Laboratory Report, SDG FC12403, Level 4, Revision 3	Data Validation Report, Level 2B, SDG FC12403
RHMW14-03	RHMW14-03-WGN01G-2401-DF	FC12403B	1/4/2024	SGS Orlando	Laboratory Report, SDG FC12403B, Level 2	Laboratory Report, SDG FC12403B, Level 4	Data Validation Report, Level 2B, SDG FC12403B
RHMW14-03	RHMW14-03-WGN01G-2401-DF	1240082_EDMS	1/4/2024	SGS Anchorage	Laboratory Report, SDG 1240082, Level 2	Laboratory Report, SDG 1240082, Level 4	Data Validation Report, Level S2BVEM, SDG 1240082
RHMW19	RHMW19-WGN01LF-2401-DF	FC12403	1/4/2024	SGS Orlando	Laboratory Report, SDG FC12403, Level 2, Revision 3	Laboratory Report, SDG FC12403, Level 4, Revision 3	Data Validation Report, Level 2B, SDG FC12403
RHMW19	RHMW19-WGN01LF-2401-DF	FC12403B	1/4/2024	SGS Orlando	Laboratory Report, SDG FC12403B, Level 2	Laboratory Report, SDG FC12403B, Level 4	Data Validation Report, Level 2B, SDG FC12403B
RHMW19	RHMW19-WGN01LF-2401-DF	1240082_EDMS	1/4/2024	SGS Anchorage	Laboratory Report, SDG 1240082, Level 2	Laboratory Report, SDG 1240082, Level 4	Data Validation Report, Level S2BVEM, SDG 1240082
RHMW01R	RHMW01R-WGFD01LF-2401-DF	FC12419	1/5/2024	SGS Orlando	Laboratory Report, SDG FC12419, Level 2, Revision 3	Laboratory Report, SDG FC12419, Level 4, Revision 3	Data Validation Report, Level 2B, SDG FC12419, Revision
RHMW01R	RHMW01R-WGN01LF-2401-DF	FC12419	1/5/2024	SGS Orlando	Laboratory Report, SDG FC12419, Level 2, Revision 3	Laboratory Report, SDG FC12419, Level 4, Revision 3	Data Validation Report, Level 2B, SDG FC12419, Revision
RHMW01R	RHMW01R-WGN01LF-2401-DF	FC12419B	1/5/2024	SGS Orlando	Laboratory Report, SDG FC12419B, Level 2	Laboratory Report, SDG FC12419B, Level 4	Data Validation Report, Level 2B, SDG FC12419B
RHMW01R	RHMW01R-WGN01LF-2401-DF	1240121_EDMS	1/5/2024	SGS Anchorage	Laboratory Report, SDG 1240121, Level 2	Laboratory Report, SDG 1240121, Level 4	Data Validation Report, Level S2BVEM, SDG 1240121
RHMW02	RHMW02-WGN01LF-2401-DF	FC12419	1/5/2024	SGS Orlando	Laboratory Report, SDG FC12419, Level 2, Revision 3	Laboratory Report, SDG FC12419, Level 4, Revision 3	Data Validation Report, Level 2B, SDG FC12419, Revision
RHMW02	RHMW02-WGN01LF-2401-DF	FC12419B	1/5/2024	SGS Orlando	Laboratory Report, SDG FC12419B, Level 2	Laboratory Report, SDG FC12419B, Level 4	Data Validation Report, Level 2B, SDG FC12419B
RHMW02	RHMW02-WGN01LF-2401-DF	1240121_EDMS	1/5/2024	SGS Anchorage	Laboratory Report, SDG 1240121, Level 2	Laboratory Report, SDG 1240121, Level 4	Data Validation Report, Level S2BVEM, SDG 1240121
RHMW15-05	RHMW15-05-WGN01G-2401-DF	FC12419	1/5/2024	SGS Orlando	Laboratory Report, SDG FC12419, Level 2, Revision 3	Laboratory Report, SDG FC12419, Level 4, Revision 3	Data Validation Report, Level 2B, SDG FC12419, Revision
RHMW15-05	RHMW15-05-WGN01G-2401-DF	FC12419B	1/5/2024	SGS Orlando	Laboratory Report, SDG FC12419B, Level 2	Laboratory Report, SDG FC12419B, Level 4	Data Validation Report, Level 2B, SDG FC12419B
RHMW15-05	RHMW15-05-WGN01G-2401-DF	1240121_EDMS	1/5/2024	SGS Anchorage	Laboratory Report, SDG 1240121, Level 2	Laboratory Report, SDG 1240121, Level 4	Data Validation Report, Level S2BVEM, SDG 1240121
RHP04C	RHP04C-WGN01LF-2401-DF	FC12419	1/5/2024	SGS Orlando	Laboratory Report, SDG FC12419, Level 2, Revision 3	Laboratory Report, SDG FC12419, Level 4, Revision 3	Data Validation Report, Level 2B, SDG FC12419, Revision
RHP04C	RHP04C-WGN01LF-2401-DF	FC12419B	1/5/2024	SGS Orlando	Laboratory Report, SDG FC12419B, Level 2	Laboratory Report, SDG FC12419B, Level 4	Data Validation Report, Level 2B, SDG FC12419B
RHP04C	RHP04C-WGN01LF-2401-DF	1240121_EDMS	1/5/2024	SGS Anchorage	Laboratory Report, SDG 1240121, Level 2	Laboratory Report, SDG 1240121, Level 4	Data Validation Report, Level S2BVEM, SDG 1240121
January 2024 Defueling							
RHMW04	RHMW04-WGN01LF-2401-DF	24A0008	1/2/2024	APPL	Laboratory Report, SDG 24A0008, Level 2	Laboratory Report, SDG 24A0008, Level 4	Data Validation Report Level S2BVEM 24A0008
RHMW06	RHMW06-WGN01LF-2401-DF	24A0008	1/2/2024	APPL	Laboratory Report, SDG 24A0008, Level 2	Laboratory Report, SDG 24A0008, Level 4	Data Validation Report Level S2BVEM 24A0008
RHMW10	RHMW10-WGN01LF-2401-DF	24A0008	1/2/2024	APPL	Laboratory Report, SDG 24A0008, Level 2	Laboratory Report, SDG 24A0008, Level 4	Data Validation Report Level S2BVEM 24A0008
RHP01	RHP01-WGN01LF-2401-DF	24A0008	1/2/2024	APPL	Laboratory Report, SDG 24A0008, Level 2	Laboratory Report, SDG 24A0008, Level 4	Data Validation Report Level S2BVEM 24A0008
RHP02	RHP02-WGFD01LF-2401-DF	24A0008	1/2/2024	APPL	Laboratory Report, SDG 24A0008, Level 2	Laboratory Report, SDG 24A0008, Level 4	Data Validation Report Level S2BVEM 24A0008
RHP02	RHP02-WGN01LF-2401-DF	24A0008	1/2/2024	APPL	Laboratory Report, SDG 24A0008, Level 2	Laboratory Report, SDG 24A0008, Level 4	Data Validation Report Level S2BVEM 24A0008
RHP03	RHP03-WGN01LF-2401-DF	24A0008	1/2/2024	APPL	Laboratory Report, SDG 24A0008, Level 2	Laboratory Report, SDG 24A0008, Level 4	Data Validation Report Level S2BVEM 24A0008
RHP06	RHP06-WGN01LF-2401-DF	24A0008	1/2/2024	APPL	Laboratory Report, SDG 24A0008, Level 2	Laboratory Report, SDG 24A0008, Level 4	Data Validation Report Level S2BVEM 24A0008
RHP08	RHP08-WGN01LF-2401-DF	24A0008	1/2/2024	APPL	Laboratory Report, SDG 24A0008, Level 2	Laboratory Report, SDG 24A0008, Level 4	Data Validation Report Level S2BVEM 24A0008
RHMW13-04	RHMW13-04-WGN01G-2401-DF	24A0022	1/3/2024	APPL	Laboratory Report, SDG 24A0022, Level 2	Laboratory Report, SDG 24A0022, Level 4	Data Validation Report Level S4VEM 24A0022
RHMW16	RHMW16-WGN01LF-2401-DF	24A0022	1/3/2024	APPL	Laboratory Report, SDG 24A0022, Level 2	Laboratory Report, SDG 24A0022, Level 4	Data Validation Report Level S4VEM 24A0022
RHMW17	RHMW17-WGFD01LF-2401-DF	24A0022	1/3/2024	APPL	Laboratory Report, SDG 24A0022, Level 2	Laboratory Report, SDG 24A0022, Level 4	Data Validation Report Level S4VEM 24A0022
RHMW17	RHMW17-WGN01LF-2401-DF	24A0022	1/3/2024	APPL	Laboratory Report, SDG 24A0022, Level 2	Laboratory Report, SDG 24A0022, Level 4	Data Validation Report Level S4VEM 24A0022
RHMW18	RHMW18-WGN01LF-2401-DF	24A0022	1/3/2024	APPL	Laboratory Report, SDG 24A0022, Level 2	Laboratory Report, SDG 24A0022, Level 4	Data Validation Report Level S4VEM 24A0022
RHMW20	RHMW20-WGN01LF-2401-DF	24A0022	1/3/2024	APPL	Laboratory Report, SDG 24A0022, Level 2	Laboratory Report, SDG 24A0022, Level 4	Data Validation Report Level S4VEM 24A0022
RHP04A	RHP04A-WGN01LF-2401-DF	24A0022	1/3/2024	APPL	Laboratory Report, SDG 24A0022, Level 2	Laboratory Report, SDG 24A0022, Level 4	Data Validation Report Level S4VEM 24A0022
RHP04B	RHP04B-WGN01LF-2401-DF	24A0022	1/3/2024	APPL	Laboratory Report, SDG 24A0022, Level 2	Laboratory Report, SDG 24A0022, Level 4	Data Validation Report Level S4VEM 24A0022
RHP05	RHP05-WGN01LF-2401-DF	24A0022	1/3/2024	APPL	Laboratory Report, SDG 24A0022, Level 2	Laboratory Report, SDG 24A0022, Level 4	Data Validation Report Level S4VEM 24A0022
RHMW09	RHMW09-WGN01LF-2401-DF	24A0035	1/4/2024	APPL	Laboratory Report, SDG 24A0035, Level 2	Laboratory Report, SDG 24A0035, Level 4	Data Validation Report Level S2BVEM 24A0035
RHMW11-05	RHMW11-05-WGN01G-2401-DF	24A0035	1/4/2024	APPL	Laboratory Report, SDG 24A0035, Level 2	Laboratory Report, SDG 24A0035, Level 4	Data Validation Report Level S2BVEM 24A0035
RHMW14-03	RHMW14-03-WGN01G-2401-DF	24A0035	1/4/2024	APPL	Laboratory Report, SDG 24A0035, Level 2	Laboratory Report, SDG 24A0035, Level 4	Data Validation Report Level S2BVEM 24A0035
RHMW19	RHMW19-WGN01LF-2401-DF	24A0035	1/4/2024	APPL	Laboratory Report, SDG 24A0035, Level 2	Laboratory Report, SDG 24A0035, Level 4	Data Validation Report Level S2BVEM 24A0035
RHMW15-05	RHMW15-05-WGN01G-2401-DF	24A0039	1/5/2024	APPL	Laboratory Report, SDG 24A0039, Level 2	Laboratory Report, SDG 24A0039, Level 4	Data Validation Report Level S2BVEM 24A0039
RHP04C	RHP04C-WGN01LF-2401-DF	24A0039	1/5/2024	APPL	Laboratory Report, SDG 24A0039, Level 2	Laboratory Report, SDG 24A0039, Level 4	Data Validation Report Level S2BVEM 24A0039
RHMW04	RHMW04-WGN01LF-2401WK2-DF	FC12452	1/8/2024	SGS Orlando	Laboratory Report, SDG FC12452, Level 2, Revision 1	Laboratory Report, SDG FC12452, Level 4, Revision 1	Data Validation Report Level 2B SDG FC12452
RHMW04	RHMW04-WGN01LF-2401WK2-DF	24A0050	1/8/2024	APPL	Laboratory Report, SDG 24A0050, Level 2	Laboratory Report, SDG 24A0050, Level 4	Data Validation Report Level S2BVEM 24A0050
RHMW06	RHMW06-WGN01LF-2401WK2-DF	FC12452	1/8/2024	SGS Orlando	Laboratory Report, SDG FC12452, Level 2, Revision 1	Laboratory Report, SDG FC12452, Level 4, Revision 1	Data Validation Report Level 2B SDG FC12452
RHMW06	RHMW06-WGN01LF-2401WK2-DF	24A0050	1/8/2024	APPL	Laboratory Report, SDG 24A0050, Level 2	Laboratory Report, SDG 24A0050, Level 4	Data Validation Report Level S2BVEM 24A0050
RHMW08	RHMW08-WGN01LF-2401WK2-DF	FC12452	1/8/2024	SGS Orlando	Laboratory Report, SDG FC12452, Level 2, Revision 1	Laboratory Report, SDG FC12452, Level 4, Revision 1	Data Validation Report Level 2B SDG FC12452
RHMW15-05	RHMW15-05-WGN01G-2401WK2-DF	FC12452	1/8/2024	SGS Orlando	Laboratory Report, SDG FC12452, Level 2, Revision 1	Laboratory Report, SDG FC12452, Level 4, Revision 1	Data Validation Report Level 2B SDG FC12452
RHMW15-05	RHMW15-05-WGN01G-2401WK2-DF	24A0050	1/8/2024	APPL	Laboratory Report, SDG 24A0050, Level 2	Laboratory Report, SDG 24A0050, Level 4	Data Validation Report Level S2BVEM 24A0050
RHMW16	RHMW16-WGN01LF-2401WK2-DF	FC12452	1/8/2024	SGS Orlando	Laboratory Report, SDG FC12452, Level 2, Revision 1	Laboratory Report, SDG FC12452, Level 4, Revision 1	Data Validation Report Level 2B SDG FC12452
RHMW16	RHMW16-WGN01LF-2401WK2-DF	24A0050	1/8/2024	APPL	Laboratory Report, SDG 24A0050, Level 2	Laboratory Report, SDG 24A0050, Level 4	Data Validation Report Level S2BVEM 24A0050
RHP01	RHP01-WGN01LF-2401WK2-DF	FC12452	1/8/2024	SGS Orlando	Laboratory Report, SDG FC12452, Level 2, Revision 1	Laboratory Report, SDG FC12452, Level 4, Revision 1	Data Validation Report Level 2B SDG FC12452
RHP01	RHP01-WGN01LF-2401WK2-DF	24A0050	1/8/2024	APPL	Laboratory Report, SDG 24A0050, Level 2	Laboratory Report, SDG 24A0050, Level 4	Data Validation Report Level S2BVEM 24A0050
RHP02	RHP02-WGFD01LF-2401WK2-DF	FC12452	1/8/2024	SGS Orlando	Laboratory Report, SDG FC12452, Level 2, Revision 1	Laboratory Report, SDG FC12452, Level 4, Revision 1	Data Validation Report Level 2B SDG FC12452
RHP02	RHP02-WGN01LF-2401WK2-DF	FC12452	1/8/2024	SGS Orlando	Laboratory Report, SDG FC12452, Level 2, Revision 1	Laboratory Report, SDG FC12452, Level 4, Revision 1	Data Validation Report Level 2B SDG FC12452
RHP02	RHP02-WGFD01LF-2401WK2-DF	24A0050	1/8/2024	APPL	Laboratory Report, SDG 24A0050, Level 2	Laboratory Report, SDG 24A0050, Level 4	Data Validation Report Level S2BVEM 24A0050
RHP02	RHP02-WGN01LF-2401WK2-DF	24A0050	1/8/2024	APPL	Laboratory Report, SDG 24A0050, Level 2	Laboratory Report, SDG 24A0050, Level 4	Data Validation Report Level S2BVEM 24A0050
RHP03	RHP03-WGN01LF-2401WK2-DF	FC12452	1/8/2024	SGS Orlando	Laboratory Report, SDG FC12452, Level 2, Revision 1	Laboratory Report, SDG FC12452, Level 4, Revision 1	Data Validation Report Level 2B SDG FC12452
RHP03	RHP03-WGN01LF-2401WK2-DF	24A0050	1/8/2024	APPL	Laboratory Report, SDG 24A0050, Level 2	Laboratory Report, SDG 24A0050, Level 4	Data Validation Report Level S2BVEM 24A0050
RHP06	RHP06-WGN01LF-2401WK2-DF	FC12452	1/8/2024	SGS Orlando	Laboratory Report, SDG FC12452, Level 2, Revision 1	Laboratory Report, SDG FC12452, Level 4, Revision 1	Data Validation Report Level 2B SDG FC12452
RHP06	RHP06-WGN01LF-2401WK2-DF	24A0050	1/8/2024	APPL	Laboratory Report, SDG 24A0050, Level 2	Laboratory Report, SDG 24A0050, Level 4	Data Validation Report Level S2BVEM 24A0050
RHMW03	RHMW03-WGN01LF-2401WK2-DF	FC12486	1/9/2024	SGS Orlando	Laboratory Report, SDG FC12486 Level 2	Laboratory Report, SDG FC12486 Level 4	Data Validation Report Level 2B SDG FC12486
RHMW05	RHMW05-WGN01LF-2401WK2-DF	FC12486	1/9/2024	SGS Orlando	Laboratory Report, SDG FC12486 Level 2	Laboratory Report, SDG FC12486 Level 4	Data Validation Report Level 2B SDG FC12486
RHMW09	RHMW09-WGN01LF-2401WK2-DF	FC12486	1/9/2024	SGS Orlando	Laboratory Report, SDG FC12486 Level 2	Laboratory Report, SDG FC12486 Level 4	Data Validation Report Level 2B SDG FC12486
RHMW09	RHMW09-WGN01LF-2401WK2-DF	24A0057	1/9/2024	APPL	Laboratory Report, SDG 24A0057, Level 2	Laboratory Report, SDG 24A0057, Level 4	Data Validation Report Level S2BVEM 24A0057
RHMW13-04	RHMW13-04-WGN01G-2401WK2-DF	FC12486	1/9/2024	SGS Orlando	Laboratory Report, SDG FC12486 Level 2	Laboratory Report, SDG FC12486 Level 4	Data Validation Report Level 2B SDG FC12486
RHMW13-04	RHMW13-04-WGN01G-2401WK2-DF	24A0057	1/9/2024	APPL	Laboratory Report, SDG 24A0057, Level 2	Laboratory Report, SDG 24A0057, Level 4	Data Validation Report Level S2BVEM 24A0057
RHMW17	RHMW17-WGFD01LF-2401WK2-DF	FC12486	1/9/2024	SGS Orlando	Laboratory Report, SDG FC12486 Level 2	Laboratory Report, SDG FC12486 Level 4	Data Validation Report Level 2B SDG FC12486
RHMW17	RHMW17-WGN01LF-2401WK2-DF	FC12486	1/9/2024	SGS Orlando	Laboratory Report, SDG FC12486 Level 2	Laboratory Report, SDG FC12486 Level 4	Data Validation Report Level 2B SDG FC12486
RHMW17	RHMW17-WGFD01LF-2401WK2-DF	24A0057	1/9/2024	APPL	Laboratory Report, SDG 24A0057, Level 2	Laboratory Report, SDG 24A0057, Level 4	Data Validation Report Level S2BVEM 24A0057
RHMW17	RHMW17-WGN01LF-2401WK2-DF	24A0057	1/9/2024	APPL	Laboratory Report, SDG 24A0057, Level 2	Laboratory Report, SDG 24A0057, Level 4	Data Validation Report Level S2BVEM 24A0057
RHMW19	RHMW19-WGN01LF-2401WK2-DF	FC12486	1/9/2024	SGS Orlando	Laboratory Report, SDG FC12486 Level 2	Laboratory Report, SDG FC12486 Level 4	Data Validation Report Level 2B SDG FC12486
RHMW19	RHMW19-WGN01LF-2401WK2-DF	24A0057	1/9/2024	APPL	Laboratory Report, SDG 24A0057, Level 2	Laboratory Report, SDG 24A0057, Level 4	Data Validation Report Level S2BVEM 24A0057
RHMW2254-01	RHMW2254-01-WGN01LF-2401WK2-DF	FC12486	1/9/2024	SGS Orlando	Laboratory Report, SDG FC12486 Level 2	Laboratory Report, SDG FC12486 Level 4	Data Validation Report Level 2B SDG FC12486
RHP04A	RHP04A-WGN01LF-2401WK2-DF	FC12486	1/9/2024	SGS Orlando	Laboratory Report, SDG FC12486 Level 2	Laboratory Report, SDG FC12486 Level 4	Data Validation Report Level 2B SDG FC12486
RHP04A	RHP04A-WGN01LF-2401WK2-DF	24A0057	1/9/2024	APPL	Laboratory Report, SDG 24A0057, Level 2	Laboratory Report, SDG 24A0057, Level 4	Data Validation Report Level S2BVEM 24A0057
RHP04B	RHP04B-WGN01LF-2401WK2-DF	FC12486	1/9/2024	SGS Orlando	Laboratory Report, SDG FC12486 Level 2	Laboratory Report, SDG FC12486 Level 4	Data Validation Report Level 2B SDG FC12486
RHP04B	RHP04B-WGN01LF-2401WK2-DF	24A0057	1/9/2024	APPL	Laboratory Report, SDG 24A0057, Level 2	Laboratory Report, SDG 24A0057, Level 4	Data Validation Report Level S2BVEM 24A0057
RHP07	RHP07-WGN01LF-2401WK2-DF	FC12486	1/9/2024	SGS Orlando	Laboratory Report, SDG FC12486 Level 2	Laboratory Report, SDG FC12486 Level 4	Data Validation Report Level 2B SDG FC12486
RHMW10	RHMW10-WGN01LF-2401WK2-DF	FC12522	1/10/2024	SGS Orlando	Laboratory Report, SDG FC12522 Level 2, Revision 1	Laboratory Report, SDG FC12522 Level 4, Revision 1	Data Validation Report Level 2B SDG FC12522
RHMW10	RHMW10-WGN01LF-2401WK2-DF	24A0066	1/10/2024	APPL	Laboratory Report, SDG 24A0066, Level 2	Laboratory Report, SDG 24A0066, Level 4	Data Validation Report Level S2BVEM 24A0066
RHMW11-05	RHMW11-05-WGN01G-2401WK2-DF	FC12522	1/10/2024	SGS Orlando	Laboratory Report, SDG FC12522 Level 2, Revision 1	Laboratory Report, SDG FC12522 Level 4, Revision 1	Data Validation Report Level 2B SDG FC12522
RHMW11-05	RHMW11-05-WGN01G-2401WK2-DF	24A0066	1/10/2024	APPL	Laboratory Report, SDG 24A0066, Level 2	Laboratory Report, SDG 24A0066, Level 4	Data Validation Report Level S2BVEM 24A0066
RHMW14-03	RHMW14-03-WGN01G-2401WK2-DF	FC12522	1/10/2024	SGS Orlando	Laboratory Report, SDG FC12522 Level 2, Revision 1	Laboratory Report, SDG FC12522 Level 4, Revision 1	Data Validation Report Level 2B SDG FC12522
RHMW14-03	RHMW14-03-WGN01G-2401WK2-DF	24A0066	1/10/2024	APPL	Laboratory Report, SDG 24A0066, Level 2	Laboratory Report, SDG 24A0066, Level 4	Data Validation Report Level S2BVEM 24A0066
RHMW18	RHMW18-WGN01LF-2401WK2-DF	FC12522	1/10/2024	SGS Orlando	Laboratory Report, SDG FC12522 Level 2, Revision 1	Laboratory Report, SDG FC12522 Level 4, Revision 1	Data Validation Report Level 2B SDG FC12522
RHMW18	RHMW18-WGN01LF-2401WK2-DF	24A0066	1/10/2024	APPL	Laboratory Report, SDG 24A0066, Level 2	Laboratory Report, SDG 24A0066, Level 4	Data Validation Report Level S2BVEM 24A0066
RHMW20	RHMW20-WGN01LF-2401WK2-DF	FC12522	1/10/2024	SGS Orlando	Laboratory Report, SDG FC12522 Level 2, Revision 1	Laboratory Report, SDG FC12522 Level 4, Revision 1	Data Validation Report Level 2B SDG FC12522
RHMW20	RHMW20-WGN01LF-2401WK2-DF	24A0066	1/10/2024	APPL	Laboratory Report, SDG 24A0066, Level 2	Laboratory Report, SDG 24A0066, Level 4	Data Validation Report Level S2BVEM 24A0066
RHP04C	RHP04C-WGN01LF-2401WK2-DF	FC12522	1/10/2024	SGS Orlando	Laboratory Report, SDG FC12522 Level 2, Revision 1	Laboratory Report, SDG FC12522 Level 4, Revision 1	Data Validation Report Level 2B SDG FC12522
RHP04C	RHP04C-WGN01LF-2401WK2-DF	24A0066	1/10/2024	APPL	Laboratory Report, SDG 24A0066, Level 2	Laboratory Report, SDG 24A0066, Level 4	Data Validation Report Level S2BVEM 24A0066
RHP05	RHP05-WGN01LF-2401WK2-DF	FC12522	1/10/2024	SGS Orlando	Laboratory Report, SDG FC12522 Level 2, Revision 1	Laboratory Report, SDG FC12522 Level 4, Revision 1	Data Validation Report Level 2B SDG FC12522
RHP05	RHP05-WGN01LF-2401WK2-DF	24A0066	1/10/2024	APPL	Laboratory Report, SDG 24A0066, Level 2	Laboratory Report, SDG 24A0066, Level 4	Data Validation Report Level S2BVEM 24A0066
RHP08	RHP08-WGN01LF-2401WK2-DF	FC12522	1/10/2024	SGS Orlando	Laboratory Report, SDG FC12522 Level 2, Revision 1	Laboratory Report, SDG FC12522 Level 4, Revision 1	Data Validation Report Level 2B SDG FC12522
RHP08	RHP08-WGN01LF-2401WK2-DF	24A0066	1/10/2024	APPL	Laboratory Report, SDG 24A0066, Level 2	Laboratory Report, SDG 24A0066, Level 4	Data Validation Report Level S2BVEM 24A0066
RHMW01R	RHMW01R-WGFD01LF-2401WK2-DF	FC12560	1/12/2024	SGS Orlando	Laboratory Report, SDG FC12560, Level 2	Laboratory Report, SDG FC12560, Level 4	Data Validation Report Level 2B SDG FC12560
RHMW01R	RHMW01R-WGN01LF-2401WK2-DF	FC12560	1/12/2024	SGS Orlando	Laboratory Report, SDG FC12560, Level 2	Laboratory Report, SDG FC12560, Level 4	Data Validation Report Level 2B SDG FC12560
RHMW02	RHMW02-WGFD01LF-2401WK2-DF	FC12560	1/12/2024	SGS Orlando	Laboratory Report, SDG FC12560, Level 2	Laboratory Report, SDG FC12560, Level 4	Data Validation Report Level 2B SDG FC12560
RHMW02	RHMW02-WGN01LF-2401WK2-DF	FC12560	1/12/2024	SGS Orlando	Laboratory Report, SDG FC12560, Level 2	Laboratory Report, SDG FC12560, Level 4	Data Validation Report Level 2B SDG FC12560
RHMW04	RHMW04-WGN01LF-2401WK3-DF	FC12594	1/15/2024	SGS Orlando	Laboratory Report FC12594 Level 2 Revision 1	Laboratory Report FC12594 Level 4 Revision 1	Data Validation Report Level 2B SDG FC12594
RHMW04	RHMW04-WGN01LF-2401WK3-DF	24A0104	1/15/2024	APPL	Laboratory Report, SDG 24A0104, Level 2	Laboratory Report, SDG 24A0104, Level 4	Data Validation Report Level S2BVEM 24A0104
RHMW06	RHMW06-WGN01LF-2401WK3-DF	FC12594

Appendix E – EDMS Navigation

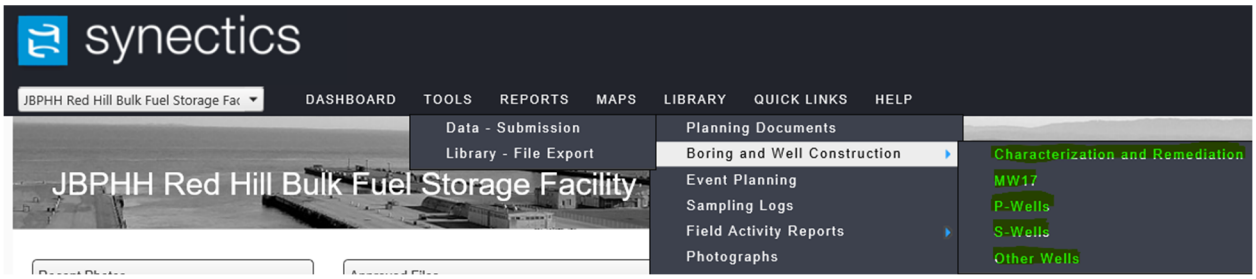
Detailed data referenced in this Quarterly Release Response Report are provided in the JBPHH Red Hill Bulk Fuel Storage Facility Environmental Data Management System (EDMS) at https://synectics.net.

Navigation tips for accessing the following data in EDMS are provided below:

- Boring and Well Construction Logs
- Groundwater Quality Parameter Data
- Characterization and Remediation Data
- Characterization and Remediation Analytical Laboratory Reports
- Soil Vapor Analytical Laboratory Reports – Below-Tank Sampling Locations
- Soil Vapor Analytical Laboratory Reports – Adit 3 Tunnel Sampling Locations
- Groundwater Analytical Laboratory Reports
- Data Validation Reports
- Data Validation Qualifier Tables
- Environmental Data Report Tables

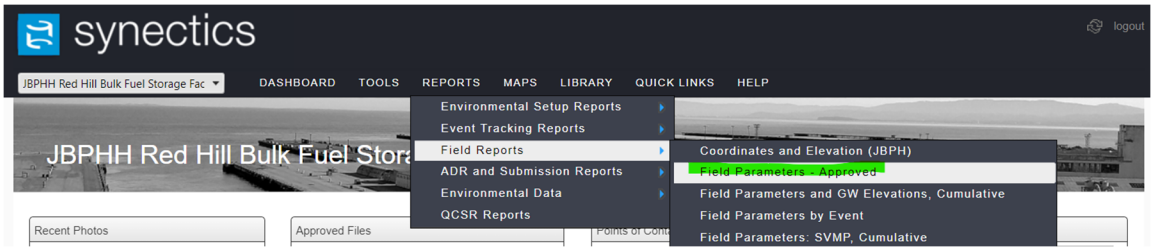
Boring and Well Construction Logs. Approved boring and well construction logs can be accessed through Library → Boring and Well Construction:

- Boring and Well Construction Subcategories: Characterization and Remediation, MW17 (RHMW17), P-Wells (Delineation), S-Wells (Sentinel), and Other Wells (NOI and GW LTM).

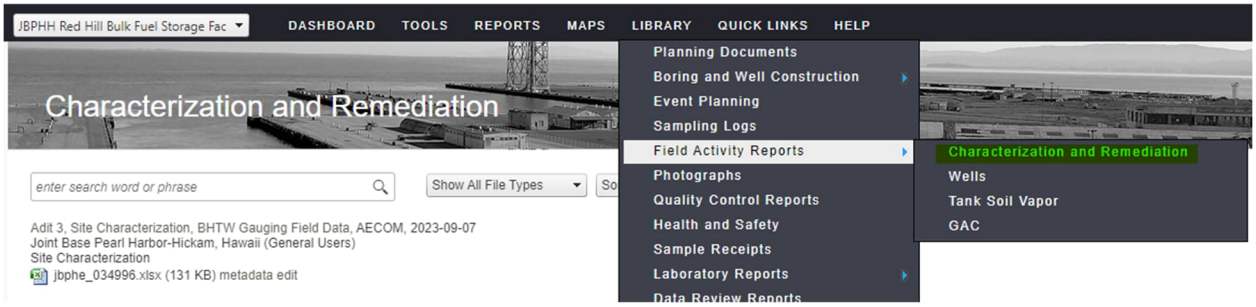


Groundwater Quality Parameter Data. Approved groundwater quality parameter data can be accessed through Reports → Field Reports → Field Parameters – Approved:

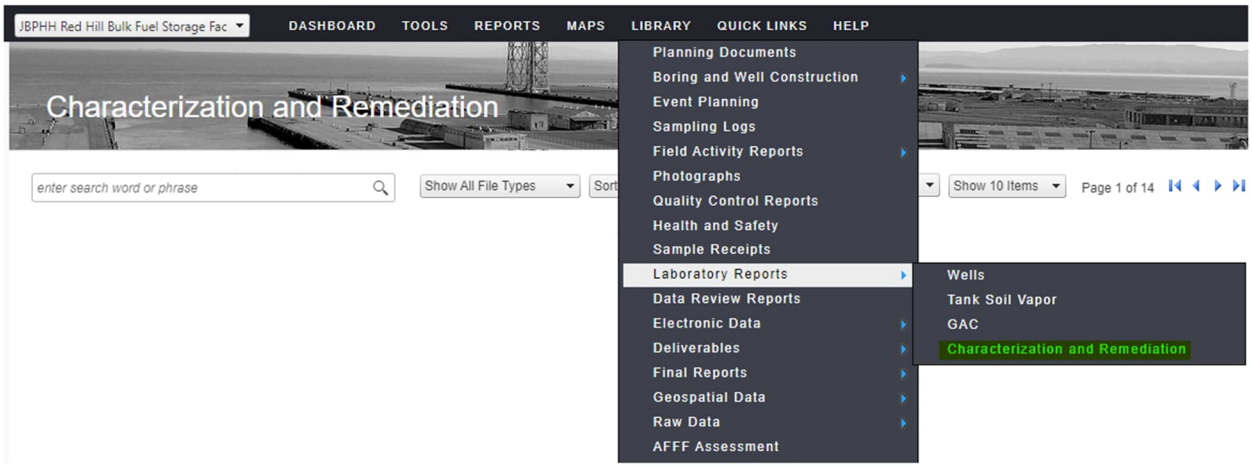
- NOI data are stored under RHS Recovery and Monitoring.
- Delineation and Sentinel Well data are stored under JBPHH Site Characterization.
- Consolidated Groundwater Program data are stored under RH Consolidated Groundwater Project.
- Long Term Groundwater Program data are stored under RH Long Term Groundwater Project.



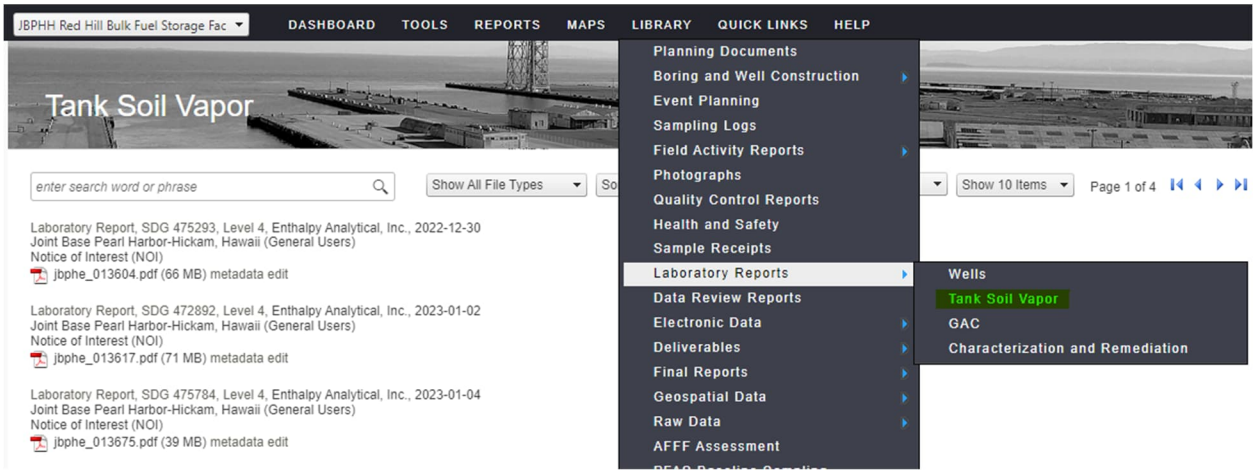
Characterization and Remediation Data. Approved characterization and remediation raw data can be accessed through Library → Field Activity Reports → Characterization and Remediation.



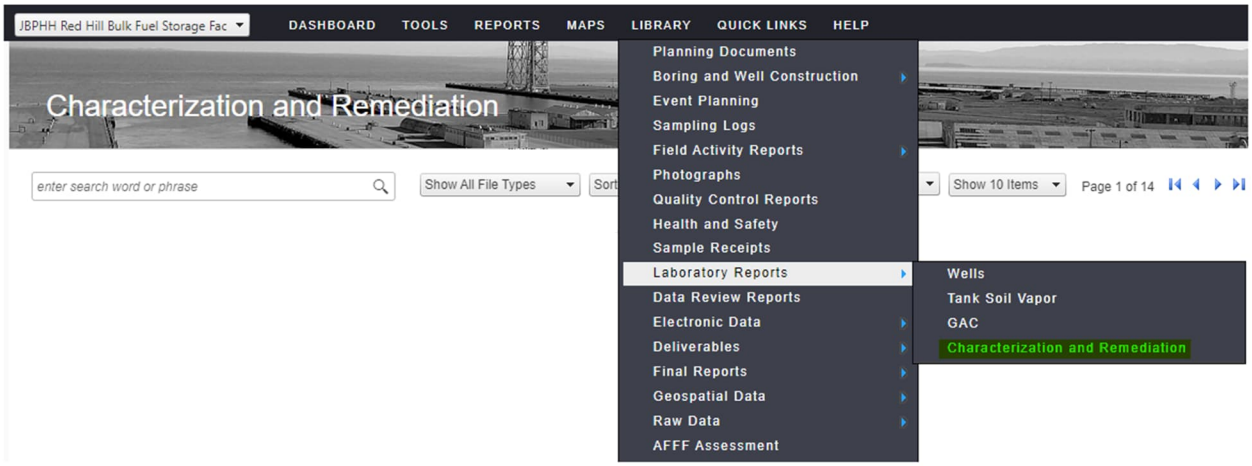
Characterization and Remediation Analytical Laboratory Reports. Approved characterization analytical laboratory reports can be accessed through Library → Laboratory Reports → Characterization and Remediation.



Soil Vapor Analytical Laboratory Reports – Below Tank Sampling Locations. Approved soil vapor monitoring analytical laboratory reports for below tank locations can be accessed through Library → Laboratory Reports → Tank Soil Vapor.

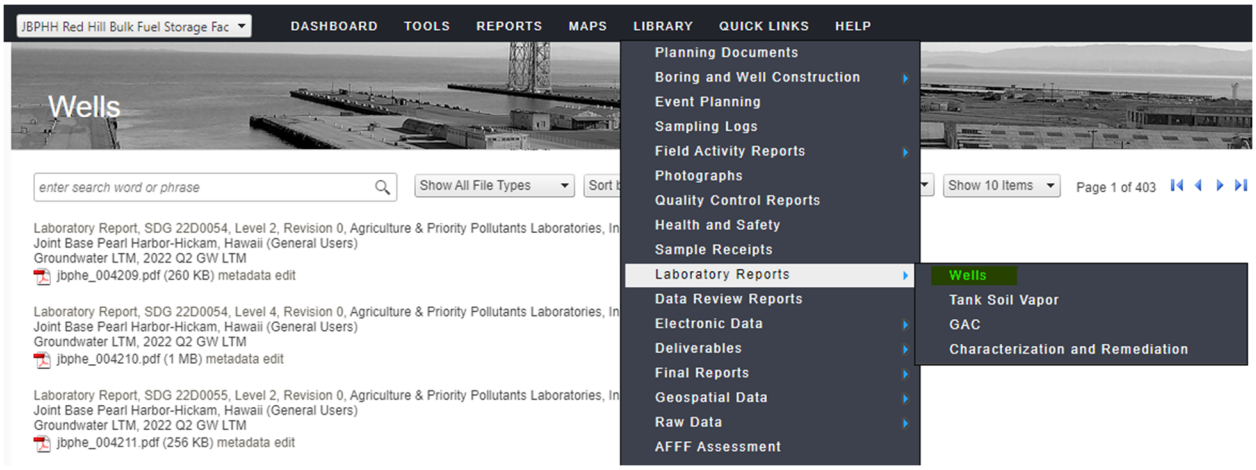


Soil Vapor Analytical Laboratory Reports – Adit 3 Tunnel Sampling Locations. Approved soil vapor monitoring analytical laboratory reports for Adit 3 Tunnel sampling locations can be accessed through Library → Laboratory Reports → Characterization and Remediation.



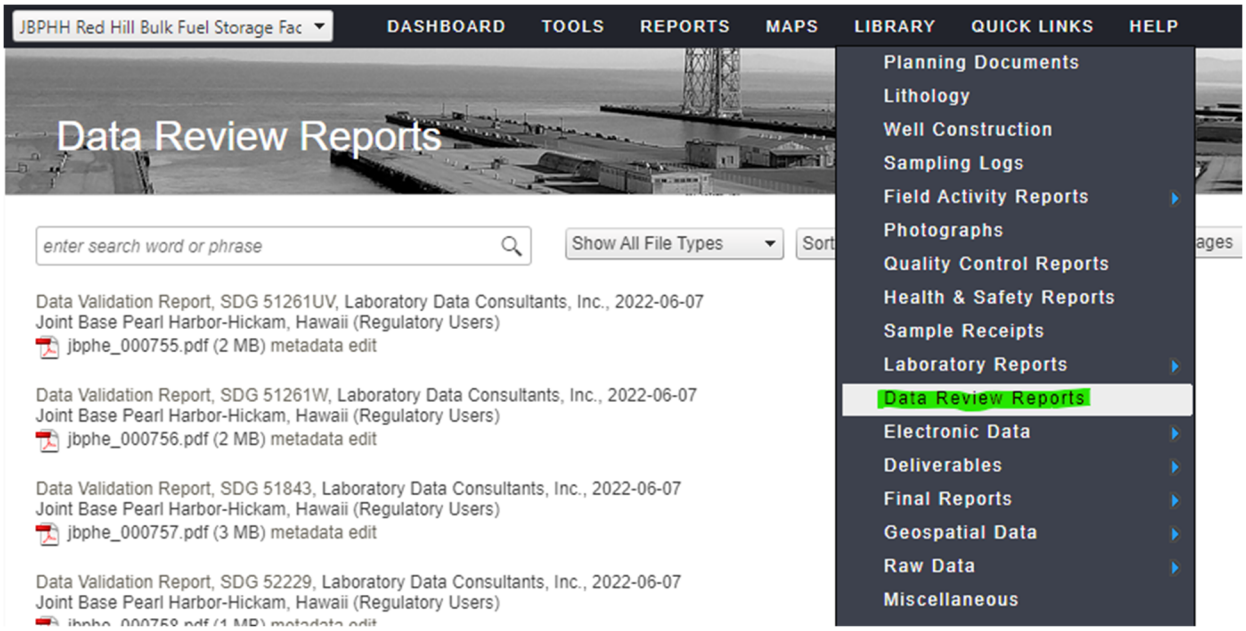
Groundwater Analytical Laboratory Reports. Approved groundwater monitoring analytical laboratory reports can be accessed through Library → Laboratory Reports:

- Laboratory Reports Subcategories: Wells → Coverage for Level 2 and Level 4 laboratory reports are Notice of Interest (NOI), P-Wells (Delineation), S-Wells (Sentinel), Groundwater LTM, and Consolidated Groundwater Program.



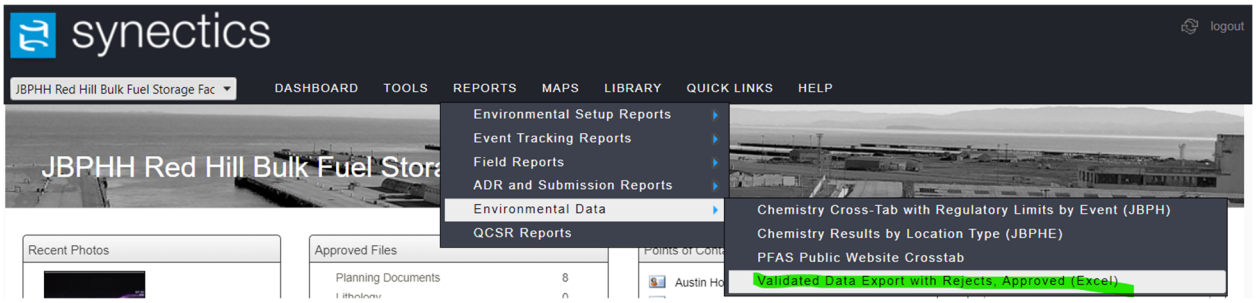
Data Validation Reports. Data validation reports can be accessed through Library → Data Review Reports:

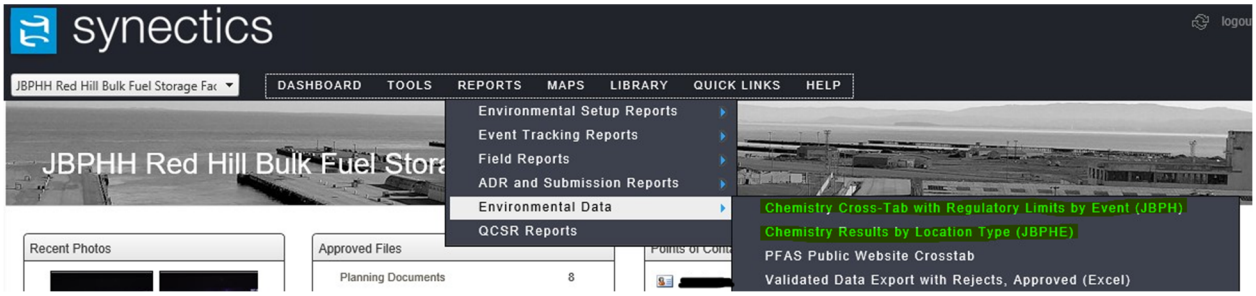
- Coverage for data validation reports are Notice of Interest (NOI), P-Wells (Delineation), S-Wells (Sentinel), Groundwater LTM, and Consolidated Groundwater Program.



Data Validation Qualifier Tables. Qualified validation results for groundwater and sump water data for this reporting period can be accessed through Reports → Environmental Data → Validated Data Export with Rejects, Approved (Excel):

- NOI data are stored under RHS Recovery and Monitoring.
- Delineation and Sentinel Well data are stored under JBPHH Site Characterization.
- Consolidated Groundwater Program data are stored under RH Consolidated Groundwater Project.
- Long Term Groundwater Program data are stored under RH Long Term Groundwater Project.



Environmental Data Report Tables. Validated results for soil, groundwater, sump water, and soil vapor can be accessed through Reports → Environmental Data → Chemistry Cross-Tab with Regulatory Limits by Event (JPBH) or Chemistry Results by Location Type (JBPHE).

- Characterization and Remediation data are stored under JBPHH Site Characterization, and event(s) of interest can be selected from the drop-down menu.