LMS/RFS/S29725

Rocky Flats Site, Colorado, Quarterly Report of Site Surveillance and Maintenance Activities First Quarter Calendar Year 2020

July 2020

U.S. DEPARTMENT OF ENERGY | Legacy Management

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Appendixes

Appendix A Landfill Inspection Forms and Survey Data, First Quarter 2020
Appendix B Analytical Results for Water Samples, First Quarter 2020

Abbreviations

Am	americium
AMP	Adaptive Management Plan
AOC	Area of Concern
BMP	best management practice
CAD/ROD	Corrective Action Decision/Record of Decision
COU	Central Operable Unit
CY	calendar year
DOE	U.S. Department of Energy
ESSD	East Subsurface Drain
ETPTS	East Trenches Plume Treatment System
IC	institutional control
LM	Office of Legacy Management
µg/L	micrograms per liter
mg/L	milligrams per liter
Min Safe	Minimum Safe
MSPCS	Mound Site Plume Collection System
MSPTS	Mound Site Plume Treatment System
N	nitrogen
NTP	Notice to Proceed
OLF	Original Landfill
pCi/L	picocuries per liter
PLF	Present Landfill
PLFTS	Present Landfill Treatment System
POC	point of compliance
POE	point of evaluation
Pu	plutonium
RCRA	Resource Conservation and Recovery Act
RFLMA	*Rocky Flats Legacy Management Agreement*
RFSOG	*Rocky Flats Site, Colorado, Site Operations Guide*
SPPTS	Solar Ponds Plume Treatment System

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Executive Summary

This report for the first quarter (January 1–March 31) of calendar year (CY) 2020 includes information on the remedy-related surveillance, monitoring, and maintenance activities conducted at the Rocky Flats Site, Colorado (Site). The maintenance and inspection of the two Site landfills and four groundwater collection or treatment systems, inspection of the perimeter signs of the Central Operable Unit, erosion control and revegetation activities, and water monitoring are summarized.

On March 26, 2020, the U.S. Department of Energy (DOE) initiated "Minimum Safe" (Min Safe) operational requirements and protocols in response to the SARS-CoV-2 (coronavirus) pandemic. This entailed minimizing staff presence and activities at all Office of Legacy Management sites, including the Rocky Flats Site and the associated office building. Routine field and office activities were affected by these restrictions; only activities determined by DOE to be most critical to the Site remedy were performed, as was the ongoing OLF Stabilization Project. These Min Safe protocols applied through the balance of the first quarter of CY 2020.

The Present Landfill (PLF) quarterly inspection for the first quarter of CY 2020 was conducted on March 3, 2020. No issues were identified during the inspection.

The Original Landfill (OLF) monthly inspections for the first quarter of CY 2020 were conducted on January 15, February 20, and March 18, 2020. During the January inspection, inspectors noted a 5-foot-long and 3-inch-deep tension crack upgradient of East Anchor Row 1 and approximately 30 feet of turf reinforcement matting with 1.5-inch knuckling along the lower eastern edge of the buttress; these conditions were photographed and located on a map. No immediate actions were taken, as these conditions were determined to be stable by the OLF lead engineer. The tension crack will be addressed in the later stages of the OLF Stabilization Project. No deficiencies were found during the February and March inspections.

Routine maintenance was performed at the East Trenches Plume Treatment System, the Mound Site Plume Collection System, the Solar Ponds Plume Treatment System, and the Present Landfill Treatment System during the first quarter of CY 2020 before Min Safe protocols were established.

During the first quarter of CY 2020, water monitoring met the targeted monitoring objectives required by the *Rocky Flats Legacy Management Agreement* (RFLMA). During the quarter, 36 flow-paced, composite surface water samples, 13 surface water grab samples, 13 treatment system grab samples, and 10 groundwater samples were collected (in accordance with RFLMA protocols) and submitted for analyses.

All analyte concentrations at RFLMA Point of Evaluation locations GS10, SW027, and SW093 remained below reportable condition levels throughout the first quarter of CY 2020. All analyte concentrations at RFLMA Point of Compliance locations WALPOC and WOMPOC also remained below reportable condition levels throughout the first quarter of CY 2020.

RFLMA-required groundwater monitoring during the first quarter of CY 2020 was conducted at the subset of wells dedicated to monitoring the OLF and PLF. Results were generally consistent with previous data. Groundwater monitoring data presented in this quarterly report will be evaluated as part of the annual report for CY 2020.

1.0 Introduction

The U.S. Department of Energy (DOE) Office of Legacy Management (LM) is responsible for implementing the final response action selected in the *Corrective Action Decision/Record of Decision for Rocky Flats Plant (USDOE) Peripheral Operable Unit and Central Operable Unit* (CAD/ROD) (DOE et al. 2006), issued on September 29, 2006, and amended on September 21, 2011 (DOE et al. 2011), for the Rocky Flats Site, Colorado (Site). The Peripheral Operable Unit was transferred from DOE to the U.S. Department of the Interior in July 2007 to establish the Rocky Flats National Wildlife Refuge. DOE implements the monitoring and maintenance requirements of the CAD/ROD for the Central Operable Unit (COU) as described in the *Rocky Flats Legacy Management Agreement* (RFLMA) (DOE et al. 2007). The RFLMA was executed on March 14, 2007. Attachment 2 to the RFLMA has been revised since, most recently in 2018. Results of that 2018 revision were implemented beginning January 1, 2019.

RFLMA Attachment 2 specifies remedy performance standards; monitoring, inspection, and maintenance requirements; criteria for evaluating the results of monitoring and inspection; and reporting for the COU remedy. These requirements include environmental monitoring; maintenance of erosion controls, access controls (signs), landfill covers, and groundwater collection and treatment systems; and operation of the groundwater collection and treatment systems. The RFLMA also requires that the institutional controls (ICs), in the form of use restrictions as established in the CAD/ROD, be maintained.

This report is required in accordance with Section 7.0, "Periodic Reporting Requirements," of RFLMA Attachment 2. The purpose of this report is to inform the regulatory agencies and stakeholders of the remedy-related surveillance, monitoring, and maintenance activities conducted at the Site during the first quarter (January 1–March 31) of calendar year (CY) 2020. LM provides periodic communications through several means, including this report, web-based tools, and public meetings.

LM maintains the *Rocky Flats Site, Colorado, Site Operations Guide* (RFSOG) (DOE 2018) as the primary document to guide the work performed to satisfy the requirements of the RFLMA and to implement best management practices (BMPs) at the Site. Several other Site-specific documents provide additional details regarding the requirements described in RFLMA Attachment 2, including all aspects of the surveillance, monitoring, and maintenance activities, as well as data evaluation protocols.

Monitoring data and summaries of the monitoring and maintenance activities for past quarters are available in the quarterly reports. Extensive discussion and evaluation of the surveillance, monitoring, and maintenance activities are presented each calendar year in the annual reports of Site surveillance and maintenance activities.

This report summarizes the following activities:

- Maintenance and inspection of the Present Landfill (PLF) and the Original Landfill (OLF)
- Maintenance and inspection of the groundwater collection and treatment systems
- Inspection of signs posted at the perimeter of the COU
- Erosion control and revegetation activities
- Routine water monitoring (in accordance with the RFLMA)

On March 26, 2020, DOE initiated "Minimum Safe" (Min Safe) operational requirements and protocols in response to the SARS-CoV-2 (coronavirus) pandemic. This entailed minimizing staff presence and activities at all LM sites, including the Rocky Flats Site and the associated office building. Routine field and office activities were affected by these restrictions; only activities determined by DOE to be most critical to the Site remedy were performed, as well as the ongoing OLF Stabilization Project. These Min Safe protocols applied through the balance of the first quarter of CY 2020.

2.0 Site Operations and Maintenance

2.1 Landfills

2.1.1 Present Landfill

The PLF is inspected quarterly in accordance with the requirements of the *Present Landfill Monitoring and Maintenance Plan and Post-Closure Plan, U.S. Department of Energy Rocky Flats, Colorado, Site* (DOE 2014) and Attachment 2 of the RFLMA (DOE et al. 2007).

2.1.1.1 Inspection Results

The routine PLF inspection for the first quarter of CY 2020 was conducted on March 3, 2020. No issues were identified during the inspection. Copies of the landfill inspection forms are presented in Appendix A.

2.1.1.2 Settlement Monuments

The settlement monuments at the PLF are surveyed annually in accordance with the RFLMA. The December 11, 2019 survey indicated that vertical settling is within the calculated settlements specified in Figure 3 of the *Present Landfill Monitoring and Maintenance Plan and Post-Closure Plan, U.S. Department of Energy Rocky Flats, Colorado, Site* (DOE 2014).

2.1.2 Original Landfill

The OLF is inspected monthly in accordance with requirements in the *Rocky Flats Site Original Landfill Monitoring and Maintenance Plan* (DOE 2009) and Attachment 2 of the RFLMA (DOE et al. 2007). Because localized slumping and seep areas have been observed and because of the ongoing slope stability maintenance, investigation, and analysis activities, no reduction in the frequency of inspections was recommended in the *Fourth Five-Year Review Report for the Rocky Flats Site, Jefferson County, Colorado* (DOE 2017a) and previous 5-year reviews. As a BMP, the OLF is also inspected weekly.

2.1.2.1 Inspection Results

The OLF monthly inspections for the first quarter of CY 2020 were conducted on January 15, February 20, and March 18, 2020. During the January inspection, a 5-foot-long and 3-inch-deep tension crack was observed 15–20 feet upgradient of East Anchor Row 1. Horizontal separation was measured at 2–3 inches and vertical separation at less than 1 inch. Approximately 30 feet of

turf reinforcement matting along the lower eastern edge of the buttress had a 1.5-inch knuckle, which signified progression from the previous month's inspection. Both conditions were noted, photographed, and located on a map. No immediate actions were taken, as these areas were determined to be stable by the OLF lead engineer. The tension crack will be addressed in the later stages of the OLF Stabilization Project. No new deficiencies were found during the February and March inspections. Completed inspection forms, maps, and associated photographs are presented in Appendix A.

The meteorological station at the Site recorded a total of 0.85 inches of precipitation during the first quarter of CY 2020. For comparison, the National Renewable Energy Laboratory tower, near the northwest corner of the Site, reported a total of 2.74 inches of precipitation during the same period. The precipitation gage at the Site meteorological station is not heated and therefore may not accurately measure precipitation that falls as snow. During the first quarter of CY 2020, snow fell on the Site.

Seeps at the OLF are observed during monthly and weather-related inspections. The following historical seep locations could not be properly inspected during the first quarter of CY 2020 due to construction in the immediate areas: Seeps 5 and 6 (as of December 2019), seep 9 (as of February 2020), and seep 8C (as of March 2020). The seep 10 location was excavated in February 2020 in preparation for a groundwater collection trench, as part of the 2019–2020 OLF Slope Stabilization Project. All other historical seep locations during the first quarter of CY 2020 had flows or moisture generally consistent with that of previous quarters, with seeps 7 and 8 having incrementally higher flows after precipitation events. Estimates for individual seep flow rates are included in the monthly OLF inspection reports (Appendix A).

2.1.2.2 Settlement Monuments

The settlement monuments at the OLF are surveyed quarterly in accordance with the RFLMA. The first quarter of CY 2020 survey was performed on March 2, 2020. Survey data indicate that vertical settling at each monument is within the calculated settlements specified in Figure 3-1 of the *Rocky Flats Site Original Landfill Monitoring and Maintenance Plan* (DOE 2009). The survey results are presented in Appendix A.

2.1.2.3 Stabilization Activities

As described in previous quarterly reports, maintenance actions were taken at the OLF to reduce the risk of additional slumping of the eastern supporting hillside. These actions included the repair and upgrade of the East Subsurface Drain (ESSD) (completed in the first quarter of 2017) near the northeast corner of the OLF so it functions as intended and is less likely to clog. The ESSD was inspected during the first quarter of CY 2020, with no deficiencies observed. Construction of a temporary groundwater intercept system was completed in the second quarter of 2017 to divert groundwater upgradient of the eastern portion of the landfill hillside. The temporary groundwater intercept system was shut off on September 25, 2019 and did not operate during the first quarter of CY 2020 to allow for OLF Stabilization Project construction in the immediate area.

The sump and siphon line installed near Seep 10 was removed during the first quarter of 2020 in preparation for the OLF Stabilization Project construction of a groundwater collection trench.

The geotechnical slope stability evaluation was completed in September 2018. Design of slope stabilization for the OLF hillside commenced in the fourth quarter of 2018 and was completed in May 2019.

Fieldwork on the project to stabilize hillside slumping at the Original Landfill (OLF) began in September 2019. The project includes construction of one main trench drain on the east and west sides, installation of three additional bubble-up structures (one existing), installation of 267 tieback anchors and 4 verification anchors with 8-foot square anchor plates, associated subsurface toe drains for anchor rows, re-establishment of the 2-foot cover over the waste footprint and reconstruction of the berms and channels. Drilling progress in February was slowed by multiple snow events and periods with high winds. However, March brought a new weather pattern including lower than average snowfall amounts in what is usually one of the snowiest months and progress got back on schedule. By the end of the quarter, a total of 212 anchors were installed, tested and locked off on the OLF slope. In addition to anchor installation both the East and West Interceptor trench drains neared completion. Once the interceptor trenches are completed, active dewatering of the OLF will no longer be required and the dewatering wells will be abandoned.

2.2 COU Inspections

In accordance with the RFLMA, the COU is monitored for significant erosion annually and following major precipitation events. Particular attention is paid to areas near remaining subsurface features (e.g., former buildings, ash pits, and trenches). Former building areas 371, 771, 881, and 991, the Ash Pits, and East Trenches are inspected quarterly as a BMP. The first quarter of CY 2020 inspection was not conducted due to restrictions under the coronavirus Min Safe operational status.

2.3 North Walnut Creek Slump

The hillside east of the Solar Ponds Plume Treatment System (SPPTS) is the site of a slump that is monitored as a BMP. This slump is referred to as the North Walnut Creek Slump. Slumping continued during the first quarter of CY 2020 as indicated by the results of the monthly monitoring of 22 locations and BMP inspections; the hillside has moved less than 1 inch on average in all directions (x,y,z). The range of settlement was between -0.108 and 1.608 inches. Visual observations of the North Walnut Creek hillside show that the scarp has reopened and movement has occurred along the failure face in the range of 3 to 4 feet since the hillside was regraded in 2017. Soils are heaving along the toe of the slope as a result of the scarp's continued movement.

2.4 Site Roads Maintenance

The CY 2020 Roads Maintenance and Repair Project will be scheduled after completion of the OLF Stabilization Project. All site road maintenance during the first quarter of 2020 was performed for snow removal and minor road repair, such as filling ruts.

2.5 Groundwater Treatment Systems

The four groundwater collection or treatment systems are monitored, operated, and maintained in accordance with requirements defined in the RFLMA and the additional implementation detail in the RFSOG. The Mound Site Plume Collection System (MSPCS), formerly the Mound Site Plume Treatment System (MSPTS), no longer treats groundwater; it was reconfigured in 2016 to collect groundwater and route it to the ETPTS for treatment. Three of these systems (MSPCS, ETPTS, and SPPTS) include a groundwater collection trench, which is similar to a French drain with an impermeable membrane on the downgradient side. The fourth system, the PLF Treatment System (PLFTS), passively treats water from the northern and southern components of the PLF Groundwater Intercept System and water that flows from the PLF seep.

Limitations associated with the Min Safe operational protocols impacted treatment system activities, mainly by suspending routine weekly operations and maintenance visits until further notice and instead relying only on information available through the telemetry system. Observation of off-normal conditions would trigger a Site visit for maintenance if needed.

2.5.1 Mound Site Plume Collection System

Routine maintenance performed at the MSPCS during the first quarter of CY 2020 included inspecting the batteries and other solar-power components; checking water levels in the collection trench and lift station; cleaning and calibrating the associated pressure transducers; clearing piping; checking flow rates to and from the collection trench and lift station; checking operation of the transfer pump in the lift station; brushing snow off the solar panels as necessary; and periodically transferring water from the backup storage tanks (formerly treatment cells for the MSPTS, now used to hold excess sample and purge water until it is routed to the ETPTS for treatment).

Refer to Section 3.1.9.1 for information on water quality monitoring.

2.5.2 East Trenches Plume Treatment System

Routine maintenance at the ETPTS in the first quarter of CY 2020 included inspecting the batteries and other solar-power components; adjusting valves and settings to modify water- and air-flow rates and maintain air-stripper operation; greasing the air-stripper blower motor; replacing the air-stripper door and trays with cleaned units when required due to hard-water scale deposits; checking water levels in the collection trench and influent and effluent tanks; cleaning and calibrating the associated pressure transducers; cleaning the air-flow sensor and diffuser; checking and clearing lines as needed; adjusting air stripper timer control to accommodate sunlight availability; and brushing snow off the solar panels as necessary.

Refer to Section 3.1.9.2 for information on water quality monitoring.

2.5.3 Solar Ponds Plume Treatment System

Routine maintenance during the first quarter of CY 2020 at the SPPTS included inspecting the batteries and other solar-power components; cleaning flow meters, air release valves, pumps, and other plumbing components; cleaning and adjusting or replacing water-level transducers;

flushing lines to clear clogs and maintain flows; periodically transferring water from the storage tank used for excess sample and purge water (formerly one of the pilot-scale treatment cells) to the lagoon for treatment; adjusting nutrient dose rate as necessary to accommodate seasonal temperature changes; pumping water out of the open-bottom vaults to prevent equipment damage as necessary; and brushing snow off the solar panels as necessary. The liquid nutrient solution was replenished.

Anomalous flow and water level readings in late January and February triggered troubleshooting activities that focused on the water levels, pressure transducers that measure water level, and pumps. The water level data are used by a computer program in the datalogger that controls energized treatment system components including the pumps. It was determined that the transducers were functioning properly, but the water level readings being recorded by the datalogger were inaccurate. This was caused by a failing datalogger battery. Cold conditions and a lack of effluent flow throughout this troubleshooting period led to a section of the effluent line that is exposed within the "Big Box" (the nitrate treatment lagoon in the original SPPTS treatment cell structure) becoming clogged with ice. The SPPTS continued to treat water, but treated water was not discharged during this time. After the battery was replaced and the pipe was cleared, the system was returned to normal operation.

Refer to Section 3.1.9.3 for information on water quality monitoring.

2.5.4 Present Landfill Treatment System

Routine maintenance during the first quarter of CY 2020 at the PLFTS included inspecting the system for potential problems, primarily by checking flow conditions. No issues were identified during the inspections.

Refer to Section 3.1.9.4 for information on water quality monitoring.

2.6 Sign Inspection

"U.S. Department of Energy – No Trespassing" signs are required to be posted at defined intervals around the perimeter of the COU to notify persons that they are at the COU boundary. Signs listing the ICs and providing contact information are also required to be posted at access points to the COU. The signs are required by the remedy as physical controls, are inspected quarterly, and are maintained by repairing or replacing them as needed. Physical controls protect the engineered components of the remedy, including landfill covers, groundwater treatment systems, and monitoring equipment, which are also inspected routinely during monitoring and maintenance activities.

The signs were inspected during the first quarter of CY 2020 on March 18, 2020. The only issue with the signs were that some of the DOE stickers needed to be replaced because they had faded. No other problems were observed with the signs at that time.

2.7 Erosion Control and Revegetation

Maintenance of the Site erosion-control features required continued effort throughout the first quarter of CY 2020, especially following high-wind or precipitation events. Erosion controls

loosened and displaced by high winds, rain, or elk were repaired. Erosion controls were installed and maintained for the various projects that were ongoing during the first quarter of CY 2020.

3.0 Environmental Monitoring

This section summarizes the environmental monitoring conducted in accordance with RFLMA Attachment 2 (DOE et al. 2007). RFLMA Attachment 2, Table 1, "Surface Water Standards," is used in conjunction with the evaluation flowcharts also found in the attachment to evaluate analytical data and determine reportable conditions. Reportable conditions, as defined in RFLMA Attachment 2, Section 6.0, "Action Determinations," require consultation between the RFLMA parties (DOE, the Colorado Department of Public Health and Environment, and the U.S. Environmental Protection Agency) to determine appropriate actions.

In this report, a condition described as "reportable" means that an analyte concentration at a surface water Point of Compliance (POC) or Point of Evaluation (POE) monitoring location has exceeded a RFLMA Table 1 water quality standard consistent with the evaluation flowcharts in Attachment 2 of the RFLMA. This term can also be applied to groundwater monitoring wells classified as Area of Concern (AOC) wells, also described in the flowcharts in Attachment 2 of the RFLMA. DOE is required to inform the RFLMA parties and the public of a reportable condition within 15 days of receiving validated data. Within 30 days of receiving validated data, DOE is required to submit a plan and schedule to the regulatory agencies for an evaluation to address the occurrence.

In this report, "plutonium" or "Pu" refers to plutonium-239, 240 or $^{239}Pu + ^{240}Pu$; "americium" or "Am" refers to americium-241 or ^{241}Am; and "nitrate" refers to nitrate + nitrite as nitrogen (N). In addition, the terms "activity" and "concentration" are used interchangeably for both plutonium and americium to represent the amount of radioactivity or radioactive material per unit of water (e.g., picocuries per liter [pCi/L]).

3.1 Water Monitoring

This section includes:

- A discussion of the routine analytical results for the POC, POE, PLF, and OLF surface water monitoring objectives and identification of any reportable conditions.
- Summaries of the routine groundwater monitoring at AOC wells, Sentinel wells, Evaluation wells, and Resource Conservation and Recovery Act (RCRA) wells; treatment system and associated performance monitoring; and Surface Water Support monitoring at the Site.

RFLMA Attachment 2 and the RFSOG offer details about the monitoring locations, sampling criteria, and evaluation protocols for the water monitoring objectives mentioned in the following sections. Appendix B of this report provides analytical water quality data for the first quarter of CY 2020. The annual report for 2020 will provide a more detailed interpretation and discussion of the water quality data.

3.1.1 Water Monitoring Highlights

During the first quarter of CY 2020, water monitoring met the targeted monitoring objectives required by the RFLMA. The routine RFLMA network consists of eight automated gaging stations, 11 surface water grab sampling locations, seven groundwater treatment system locations, and 88 groundwater monitoring locations. Additional locations are occasionally sampled in support of investigations in response to reportable conditions. During the first quarter, 36 flow-paced, composite surface water samples, 13 surface water grab samples, 13 treatment system grab samples, and 10 groundwater samples were collected (in accordance with RFLMA protocols) and submitted for analysis.[1] Figure 1 shows the monitoring locations that were sampled during first quarter of CY 2020.

All analyte concentrations at RFLMA POE locations GS10, SW027, and SW093 remained below reportable condition levels throughout the first quarter of CY 2020. All analyte concentrations at RFLMA POC locations WALPOC and WOMPOC also remained below reportable condition levels throughout the first quarter of CY 2020.

RFLMA-required groundwater monitoring during the first quarter of CY 2020 was conducted at the RCRA monitoring wells, located at the landfills. Results were generally consistent with previous data. Groundwater monitoring data presented in this quarterly report will be evaluated as part of the annual report for 2020.

[1] Composite samples consist of multiple aliquots ("grabs") of identical volume. Each grab is delivered by the automatic sampler to the composite container at each predetermined flow volume or time interval. During the first quarter of 2020, the 36 flow-paced composites comprised 1833 individual grabs.

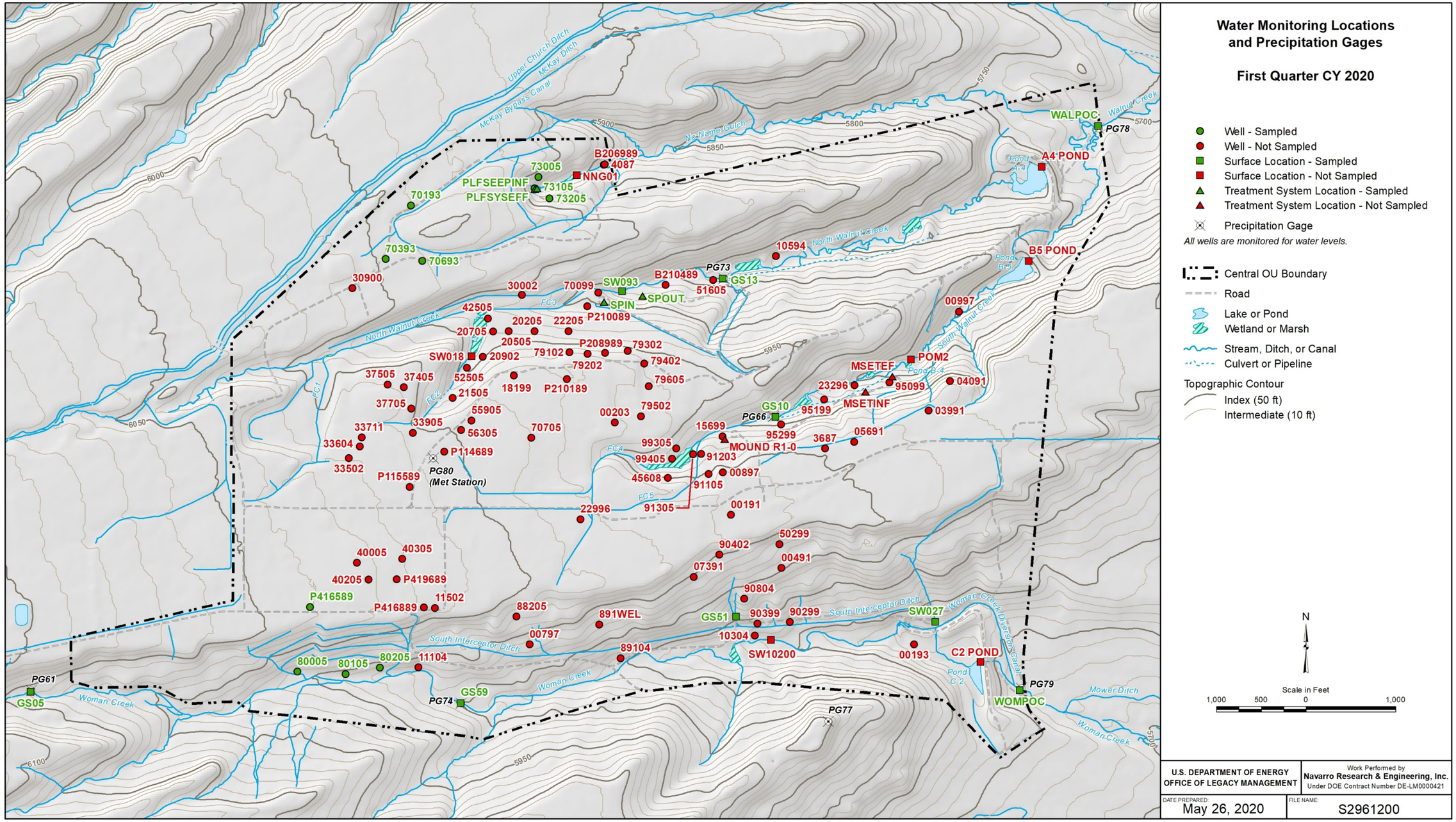

Figure 1. Rocky Flats Site Water Monitoring Locations and Precipitation Gages

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3.1.2 POC Monitoring

The following sections include summary tables and plots showing the applicable 30-day and 12-month rolling averages for the POC analytes.

3.1.2.1 Monitoring Location WALPOC

Monitoring location WALPOC is on Walnut Creek at the eastern COU boundary. Figure 2 through Figure 7 show no occurrences of reportable conditions for 12-month rolling or 30-day averages through March 31, 2020, for americium, plutonium (in pCi/L), uranium (in micrograms per liter [µg/L]), or nitrate + nitrite as nitrogen (in milligrams per liter [mg/L]). The methods for calculating the 30-day and 12-month rolling averages are detailed in the annual report.

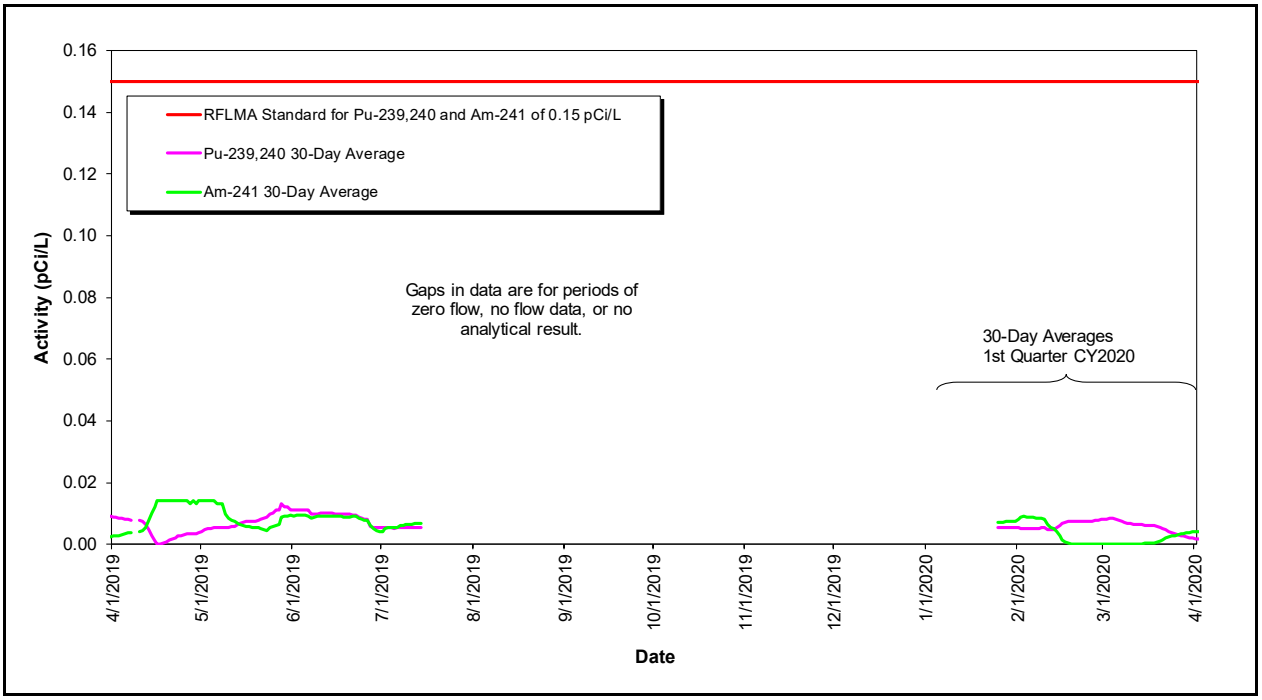

Figure 2. Volume-Weighted 30-Day Average Plutonium and Americium Activities at WALPOC: Year Ending First Quarter 2020

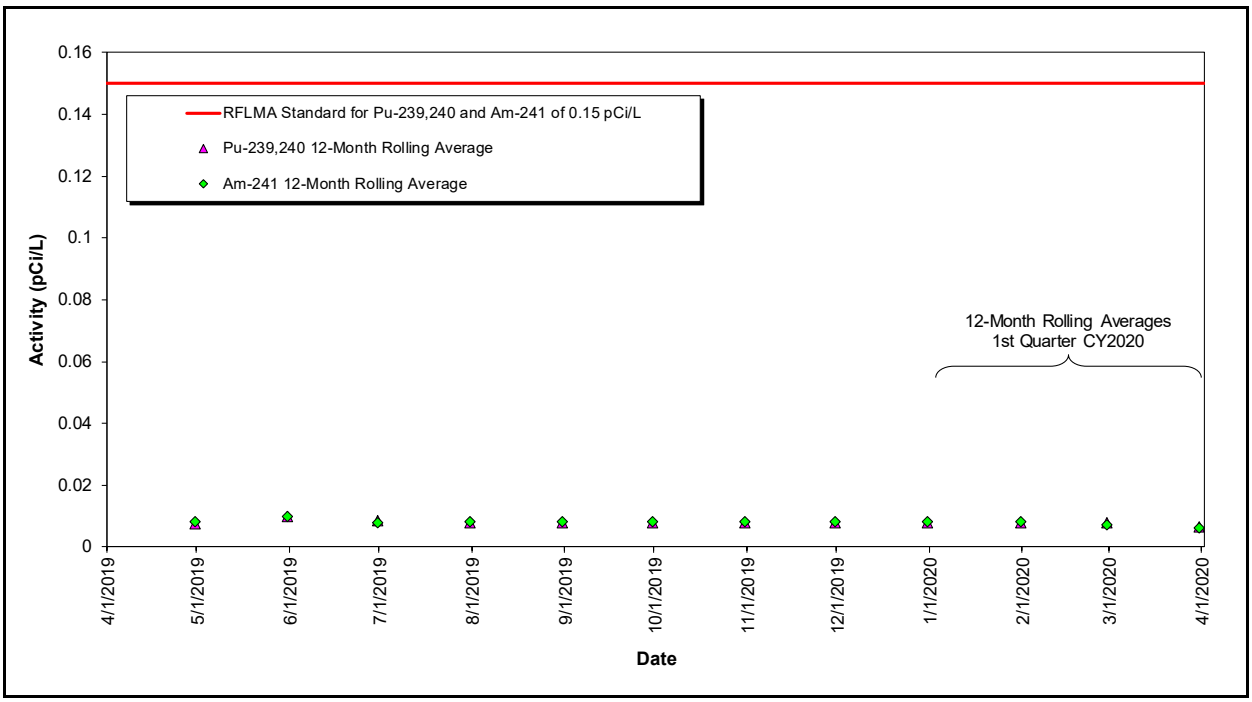

Figure 3. Volume-Weighted 12-Month Rolling Average Plutonium and Americium Activities at WALPOC: Year Ending First Quarter 2020

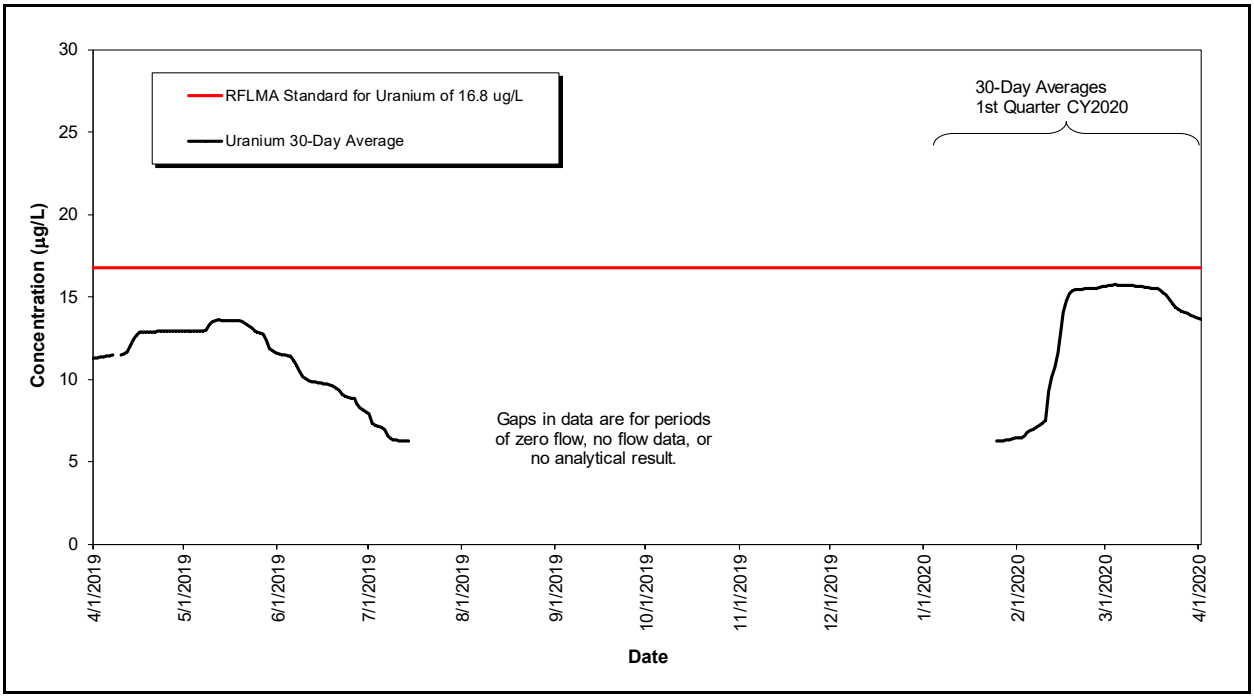

Figure 4. Volume-Weighted 30-Day Average Uranium Concentrations at WALPOC: Year Ending First Quarter 2020

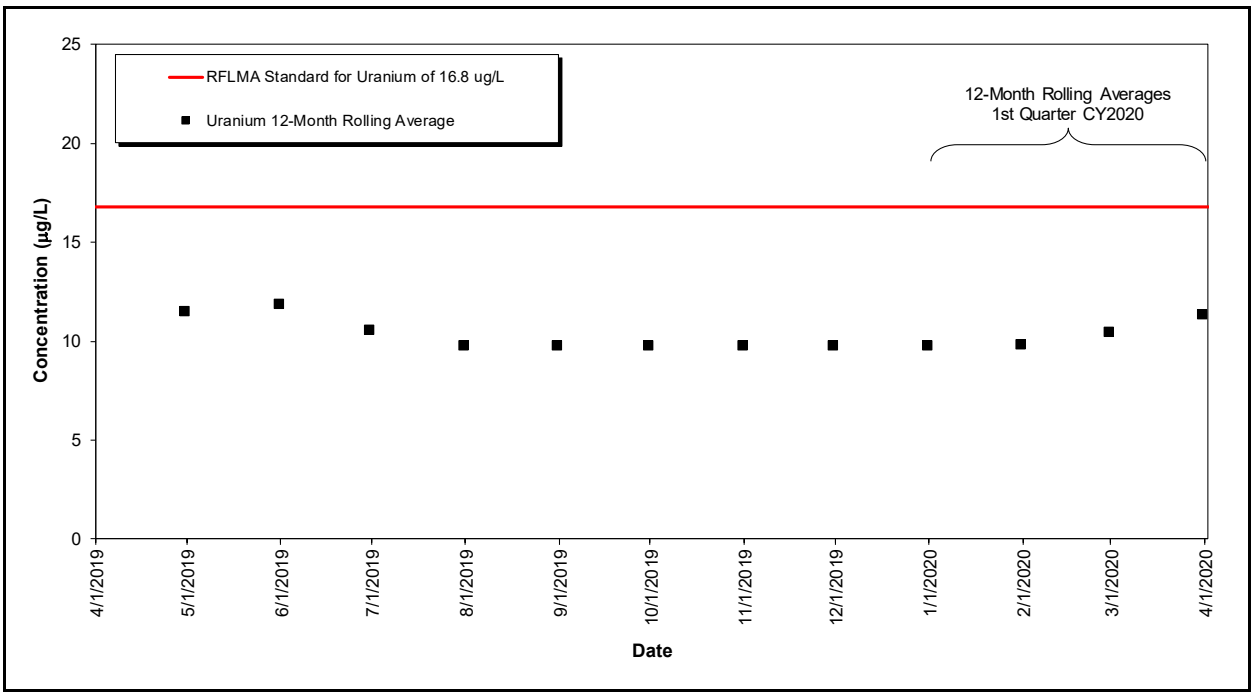

Figure 5. Volume-Weighted 12-Month Rolling Average Uranium Concentrations at WALPOC: Year Ending First Quarter 2020

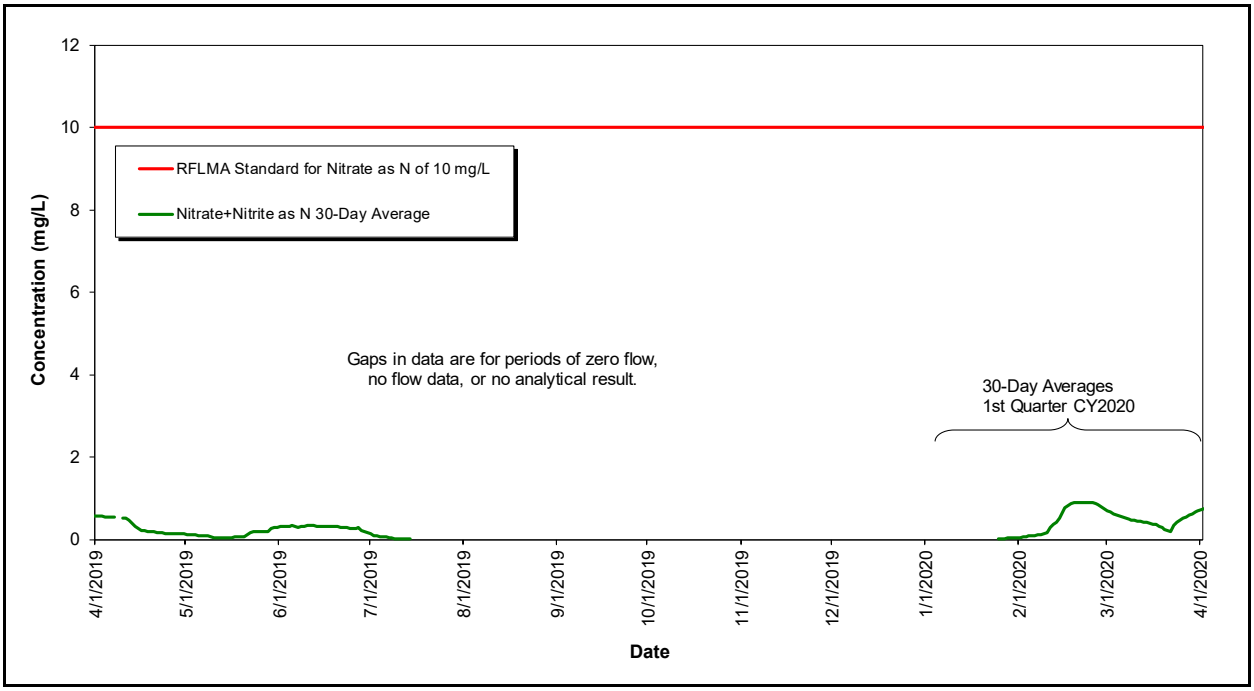

Figure 6. Volume-Weighted 30-Day Average Nitrate + Nitrite as Nitrogen Concentrations at WALPOC: Year Ending First Quarter 2020

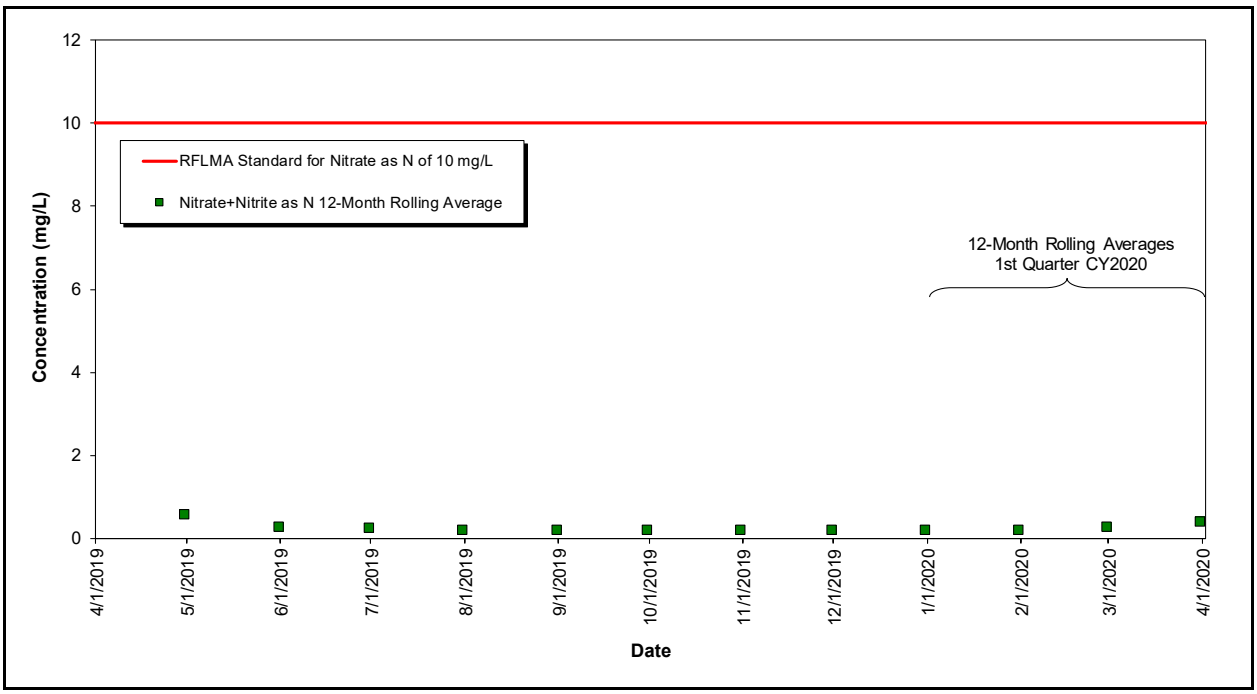

Figure 7. Volume-Weighted 12-Month Rolling Average Nitrate + Nitrite as Nitrogen Concentrations at WALPOC: Year Ending First Quarter 2020

3.1.2.2 Monitoring Location WOMPOC

Monitoring location WOMPOC is on Woman Creek at the eastern COU boundary. Figure 8 through Figure 11 show no occurrences of a reportable condition for 12-month rolling or 30-day averages through March 31, 2020, for americium, plutonium (in pCi/L), or uranium (in µg/L). The methods for calculating the 30-day and 12-month rolling averages are detailed in the annual report.

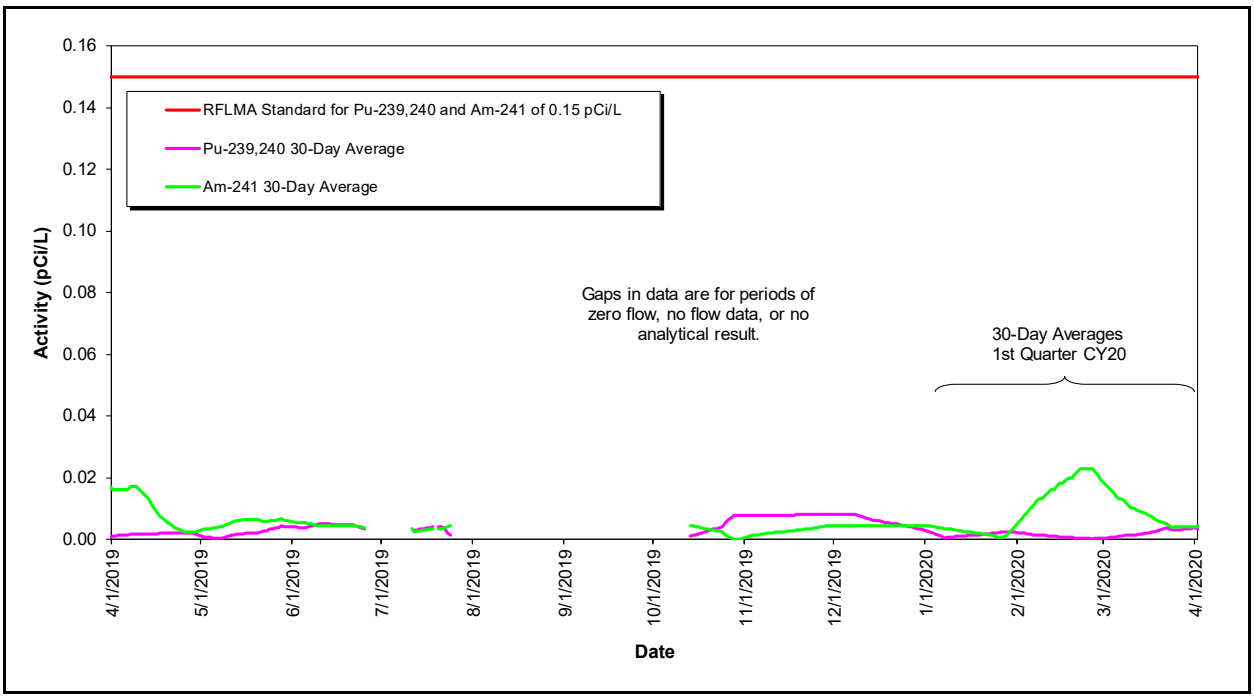

Figure 8. Volume-Weighted 30-Day Average Plutonium and Americium Activities at WOMPOC: Year Ending First Quarter 2020

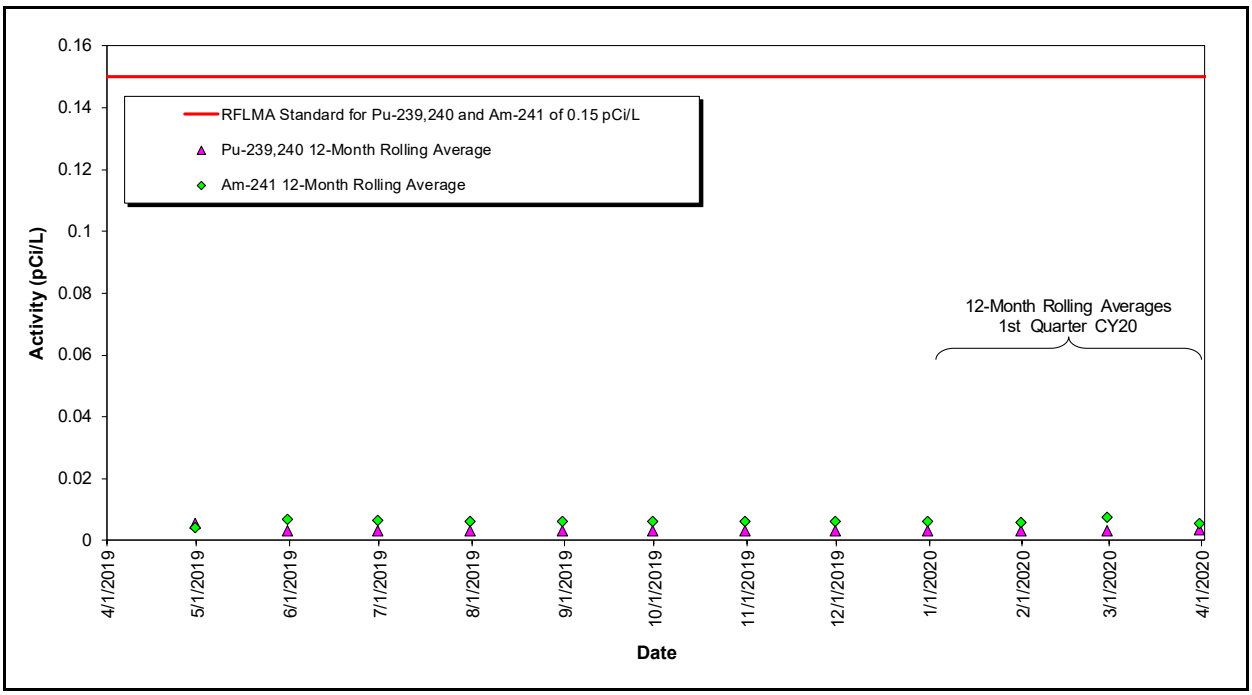

Figure 9. Volume-Weighted 12-Month Rolling Average Plutonium and Americium Activities at WOMPOC: Year Ending First Quarter 2020

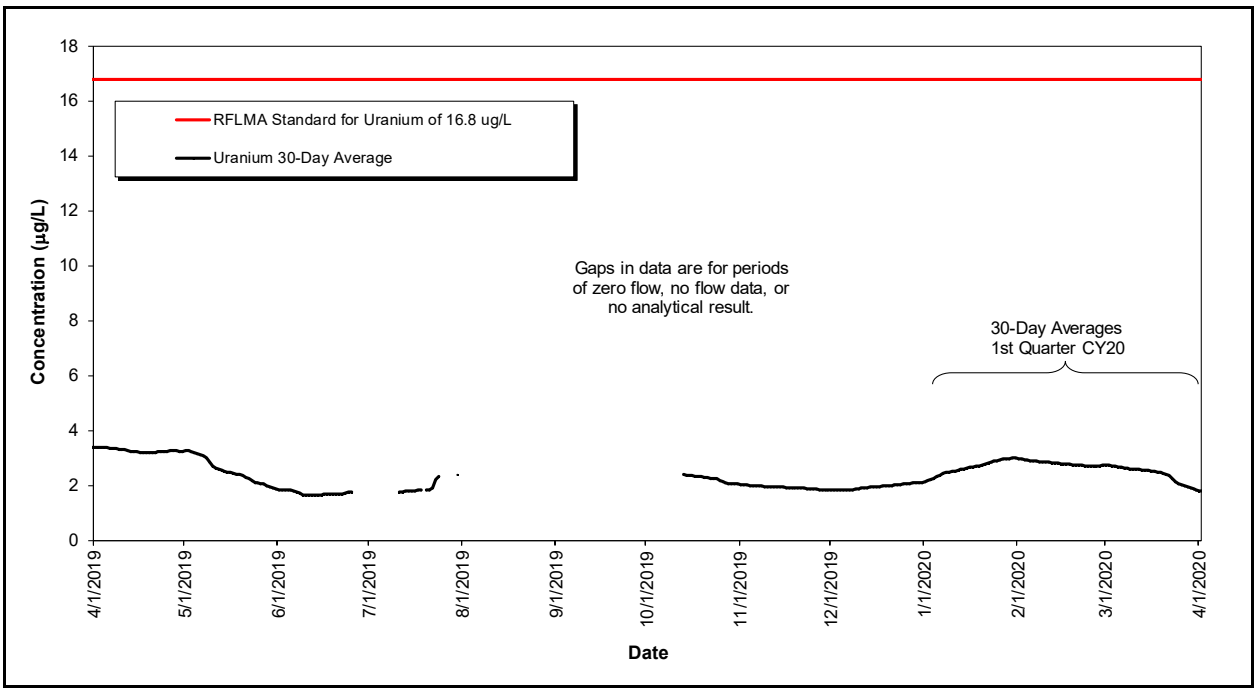

Figure 10. Volume-Weighted 30-Day Average Uranium Concentrations at WOMPOC: Year Ending First Quarter 2020

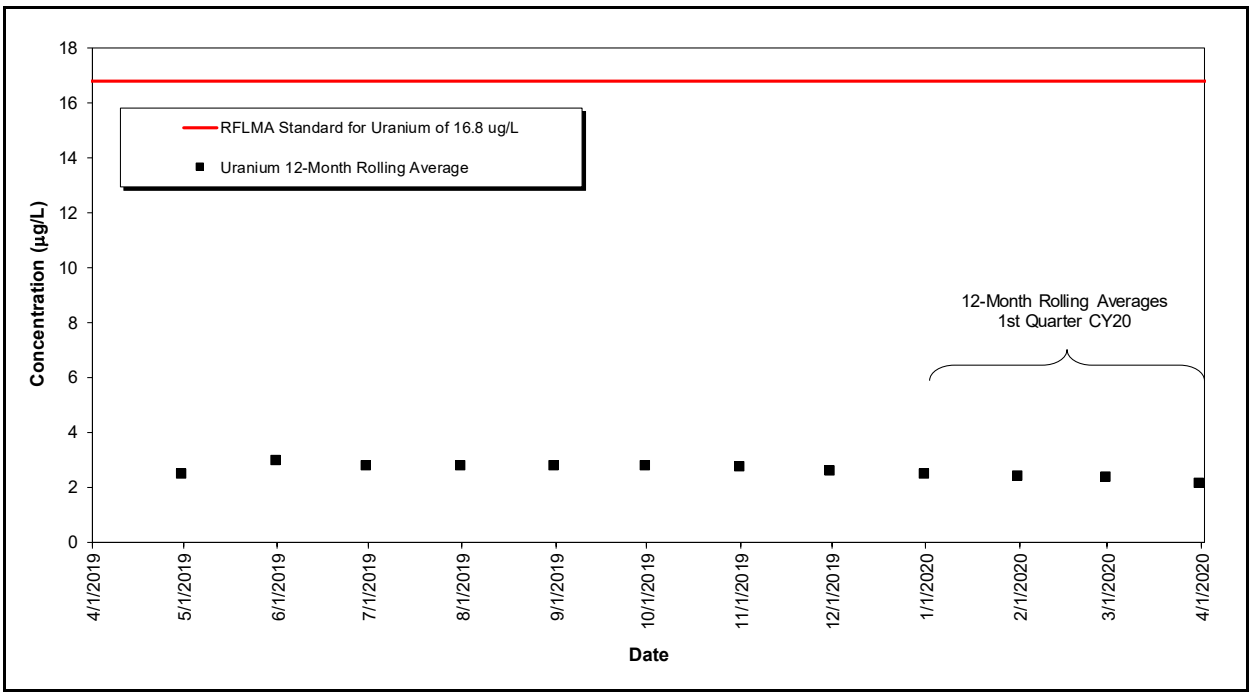

Figure 11. Volume-Weighted 12-Month Rolling Average Uranium Concentrations at WOMPOC: Year Ending First Quarter 2020

3.1.3 POE Monitoring

The following sections include summary plots showing the applicable 12-month rolling averages for the POE analytes.

3.1.3.1 Monitoring Location GS10

Monitoring location GS10 is on South Walnut Creek just upstream of the B-Series ponds. Figure 12 and Figure 13 show no occurrences of a reportable condition for 12-month rolling averages for plutonium, americium, or uranium values during the first quarter of CY 2020. The method for calculating the 12-month rolling averages is detailed in the annual report.

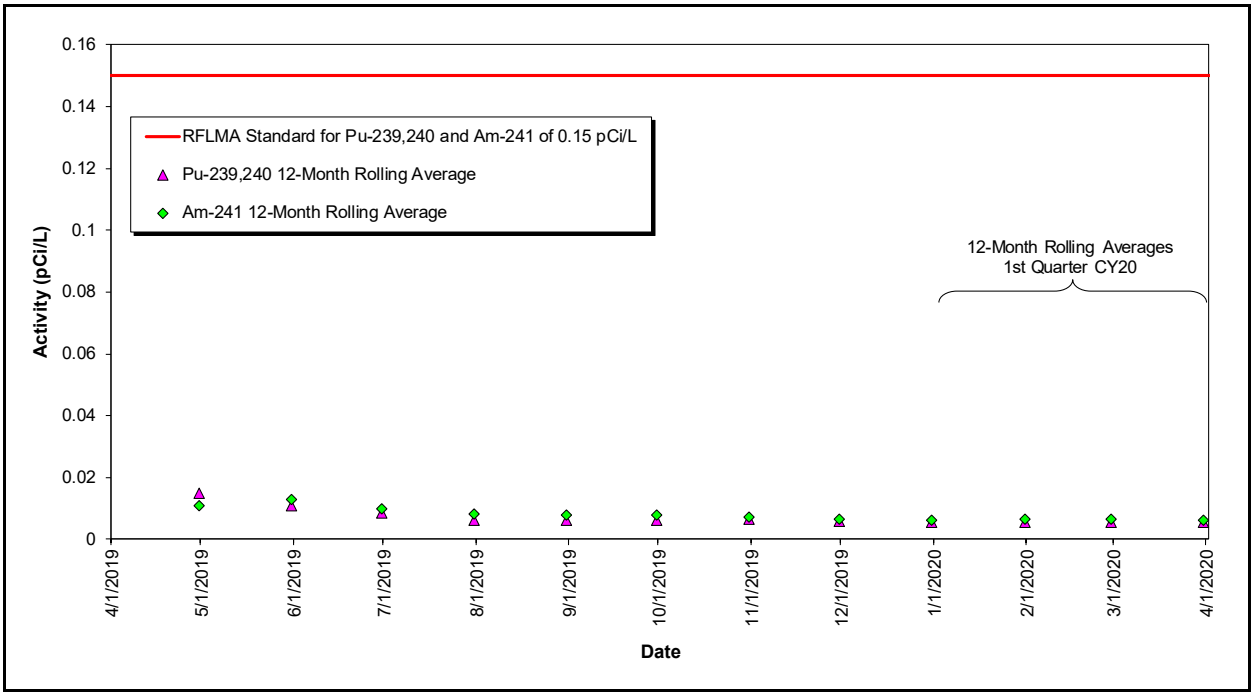

Figure 12. Volume-Weighted 12-Month Rolling Average Plutonium and Americium Activities at GS10: Year Ending First Quarter 2020

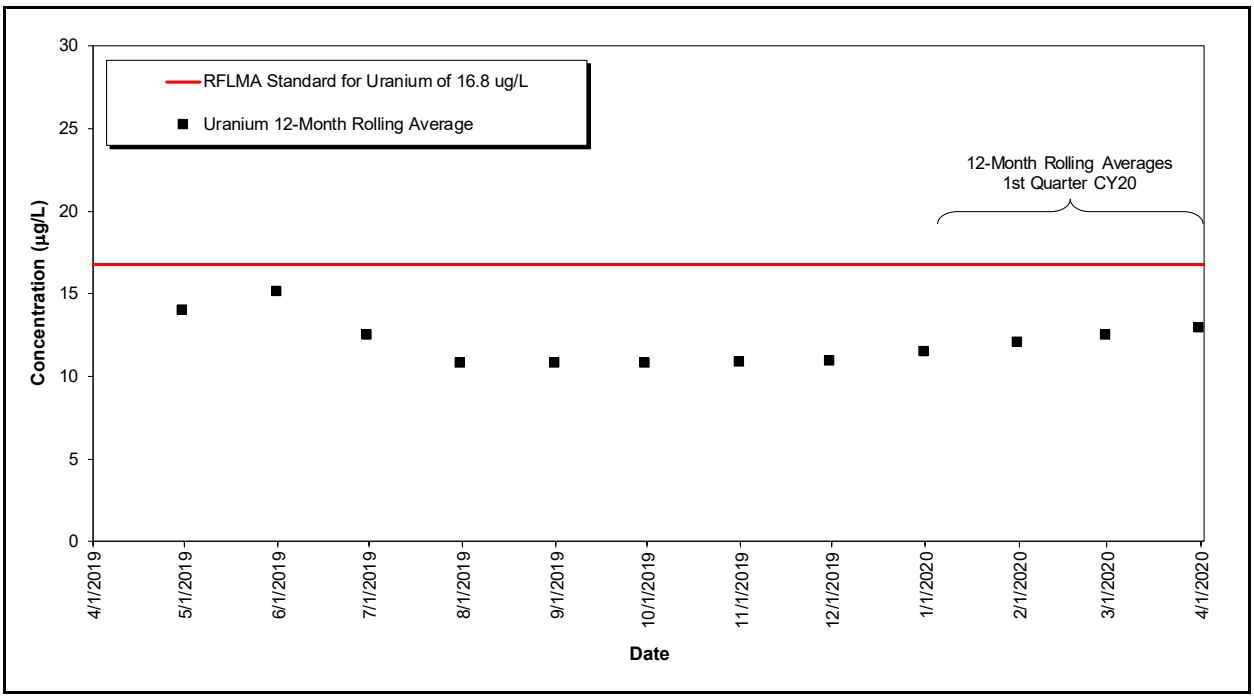

Figure 13. Volume-Weighted 12-Month Rolling Average Uranium Concentrations at GS10: Year Ending First Quarter 2020

3.1.3.2 Monitoring Location SW027

Monitoring location SW027 is at the end of the South Interceptor Ditch at the inlet to Pond C-2. Figure 14 and Figure 15 show no occurrences of a reportable condition for 12-month rolling averages for plutonium, americium, or uranium values during the first quarter of CY 2020. The method for calculating the 12-month rolling averages is detailed in the annual report.

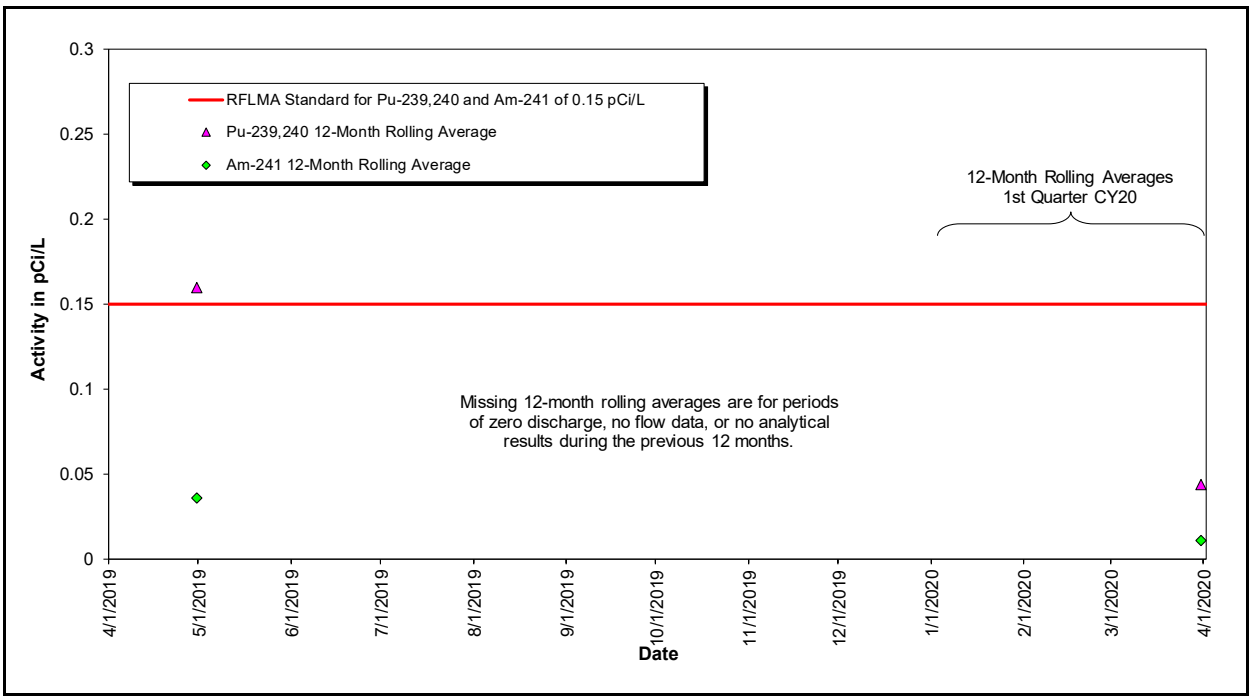

Figure 14. Volume-Weighted 12-Month Rolling Average Plutonium and Americium Activities at SW027: Year Ending First Quarter 2020

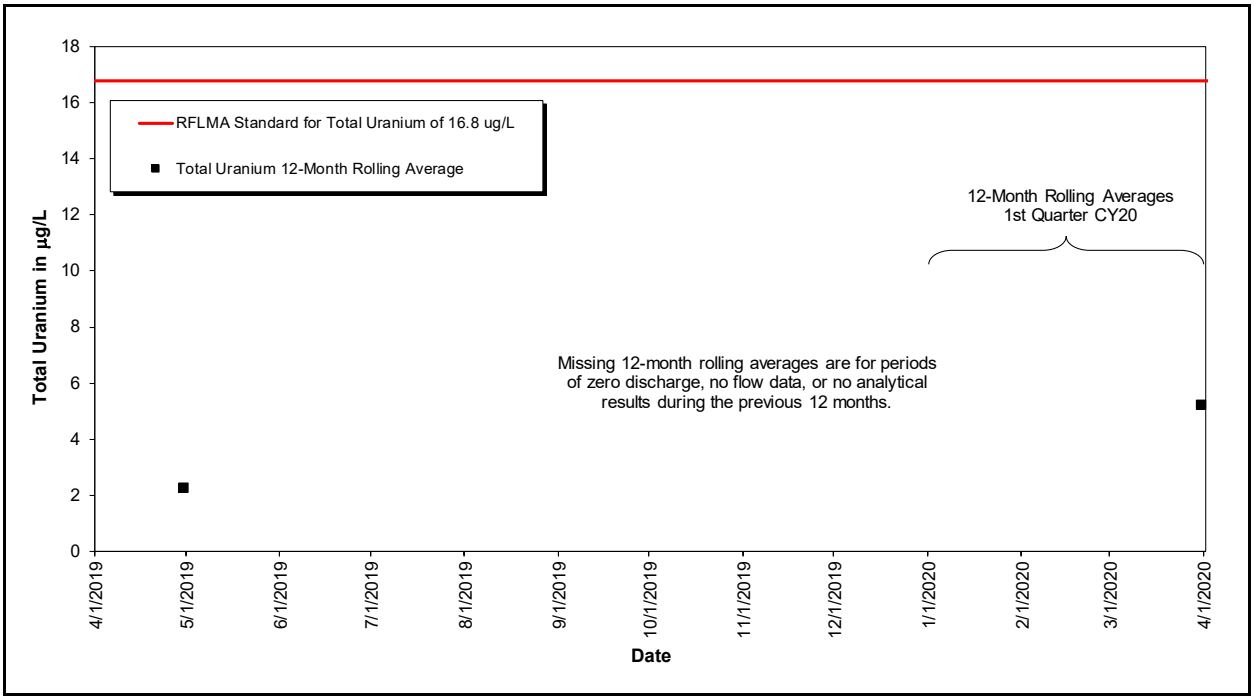

Figure 15. Volume-Weighted 12-Month Rolling Average Uranium Concentrations at SW027: Year Ending First Quarter 2020

3.1.3.3 Monitoring Location SW093

Monitoring location SW093 is on North Walnut Creek, 1300 feet upstream of former Pond A-1. Figure 16 and Figure 17 show no occurrences of a reportable condition for 12-month rolling averages for plutonium, americium, or uranium values during the first quarter of 2020. The method for calculating the 12-month rolling averages is detailed in the annual report.

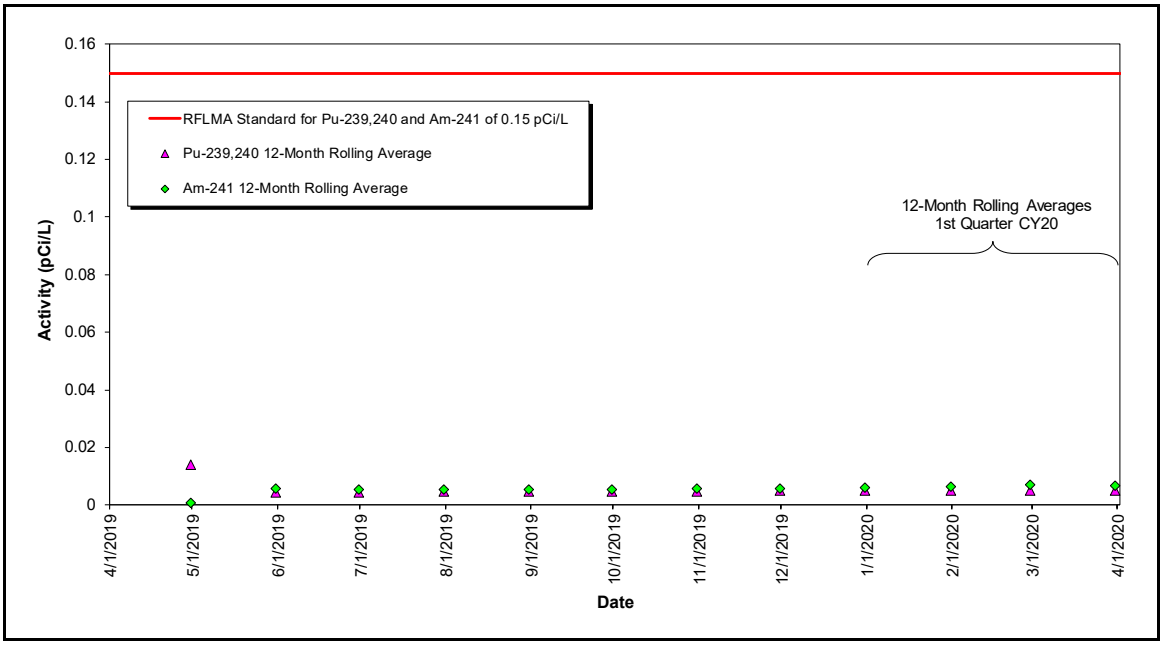

Figure 16. Volume-Weighted 12-Month Rolling Average Plutonium and Americium Activities at SW093: Year Ending First Quarter 2020

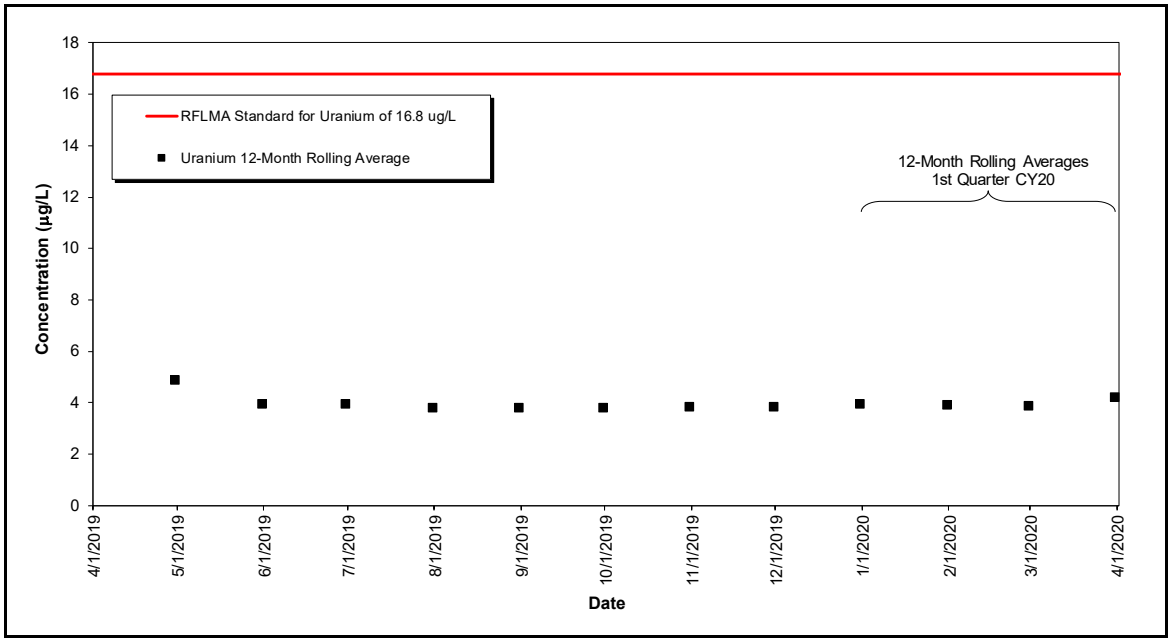

Figure 17. Volume-Weighted 12-Month Rolling Average Uranium Concentrations at SW093: Year Ending First Quarter 2020

3.1.4 AOC Wells and Surface Water Support Location SW018

None of the AOC wells or Surface Water Support location SW018 were scheduled for RFLMA monitoring in the first quarter of CY 2020.

3.1.5 Sentinel Wells

None of the Sentinel wells were scheduled for RFLMA monitoring in the first quarter of CY 2020.

3.1.6 Evaluation Wells

None of the Evaluation wells were scheduled for RFLMA monitoring in the first quarter of CY 2020.

3.1.7 PLF Monitoring

The six RCRA wells at the PLF were sampled during the first quarter of CY 2020. Analytical results (Appendix B) were generally consistent with those of past samples and will be discussed and statistically evaluated as part of the annual report for 2020. Section 3.1.9.4 discusses monitoring at the PLFTS.

3.1.8 OLF Monitoring

The four RCRA wells at the OLF were sampled during the first quarter of CY 2020. Analytical results (Appendix B) were generally consistent with those of past samples and will be discussed and statistically evaluated as part of the annual report for 2020.

During the first quarter of CY 2020, when routine surface water sampling was performed in Woman Creek downstream of the OLF (location GS59), the mean concentrations for all analytes were below the applicable surface water standards.

3.1.9 Groundwater Treatment System Monitoring

As described in Section 2.5, contaminated groundwater is intercepted and treated by the onsite groundwater treatment systems. The MSPCS (discussed in this section for consistency and convenience, even though treatment is no longer performed here), ETPTS, and SPPTS each include a groundwater intercept trench. The PLFTS treats water from the northern and southern components of the Groundwater Intercept System and water that flows from the PLF seep.

3.1.9.1 Mound Site Plume Collection System

None of the MSPCS monitoring locations were scheduled for routine RFLMA sampling in the first quarter of CY 2020.

3.1.9.2 East Trenches Plume Treatment System

None of the ETPTS monitoring locations were scheduled for routine RFLMA sampling in the first quarter of CY 2020.

3.1.9.3 Solar Ponds Plume Treatment System

None of the SPPTS monitoring locations were scheduled for routine RFLMA sampling in the first quarter of CY 2020.

Nonroutine samples were collected during the first quarter of CY 2020 to support multiple objectives, including to confirm the effectiveness of the Big Box nitrate treatment component and to support the Surface Water Adaptive Management Plan (AMP) (DOE 2017b). In addition, water was collected to support uranium treatment tests based on ongoing testing performed at other LM sites. These tests were conducted in the Environmental Sciences Laboratory. Further discussion will be provided in the RFLMA or AMP annual reports for 2020.

3.1.9.4 Present Landfill Treatment System

During collection of the January 2020 quarterly samples of the PLFTS influent (monitoring location PLFSEEPINF), the flow rate was 0.91 gallons per minute. The routine quarterly effluent samples (monitoring location PLFSYSEFF) were collected on January 8, 2020.

Semivolatile organic compound/polycyclic aromatic hydrocarbon samples collected at the Site are submitted to the laboratories as two separate bottles for two separate analysis methods. Two methods are used to acquire detection limits that are low enough to facilitate meaningful comparison to applicable water quality standards. The laboratories use U.S. Environmental Protection Agency SW-846 Methods 8270C and 8270 in the Selected Ion Monitoring (SIM) mode (EPA SW-846). The SIM method is used to achieve relatively lower detection limits for selected constituents, even though concentrations are acquired for these same constituents using method 8270C, but at higher detection limits.

For the January 2020 PLFSYSEFF sample, the laboratory incorrectly logged the bottle intended for SIM and therefore prepped it for the wrong analysis, resulting in the cancellation of the SIM analysis. Therefore, higher than routine detection limits were obtained using the 8270C method for the following analytes:

- Benzo(a)pyrene
- Benzo(g,h,i)perylene
- Chrysene
- Dibenz(a,h)anthracene

During the first quarter of 2020, routine sampling showed results for arsenic of 29 µg/L, above the surface water standard of 10 µg/L. According to RFLMA evaluation protocols, this result triggered an increase in sampling frequency from quarterly to monthly. Arsenic was not detected in the subsequent monthly sample (January 30, 2020), and the sampling frequency was returned to quarterly.

All other analyte concentrations in the effluent samples were below the RFLMA standards for the quarter.

3.1.10 Predischarge Monitoring

No predischarge samples were collected from Ponds A-4, B-5, or C-2 during the first quarter of CY 2020. All three ponds were continuously operated in a flow-through configuration.

4.0 Adverse Biological Conditions

No evidence of adverse biological conditions (e.g., unexpected mortality or morbidity) was observed during monitoring and maintenance activities in the first quarter of CY 2020.

5.0 Ecological Monitoring

During the first quarter of CY 2020, very few ecological field activities were conducted because it was winter. Most of the time was spent analyzing data and writing various reports. Some preparatory work was conducted for the fiscal year 2020 field season. Observations of prairie dog towns on the RFNWR and in the COU continued to document that no active prairie dog towns are present within the COU.

6.0 References

DOE (U.S. Department of Energy), 2009. *Rocky Flats Site Original Landfill Monitoring and Maintenance Plan*, LMS/RFS/S05516, Office of Legacy Management, September.

DOE (U.S. Department of Energy), 2014. *Present Landfill Monitoring and Maintenance Plan and Post-Closure Plan, U.S. Department of Energy Rocky Flats, Colorado, Site*, LMS/RFS/S03965, Office of Legacy Management, December.

DOE (U.S. Department of Energy), 2017a. *Fourth Five-Year Review Report for the Rocky Flats Site, Jefferson County, Colorado*, LMS/RFS/S15528, Office of Legacy Management, June.

DOE (U.S. Department of Energy), 2017b. *Surface Water Configuration Adaptive Management Plan for the Rocky Flats, Colorado, Site*, LMS/RFS/S07698, Office of Legacy Management, May.

DOE (U.S. Department of Energy), 2018. *Rocky Flats Site, Colorado, Site Operations Guide*, LMS/RFS/S03037, Office of Legacy Management, July.

DOE (U.S. Department of Energy), EPA (U.S. Environmental Protection Agency), and CDPHE (Colorado Department of Public Health and Environment), 2006. *Corrective Action Decision/Record of Decision for Rocky Flats Plant (USDOE) Peripheral Operable Unit and Central Operable Unit*, EPA/541/R-06/197, September 29.

DOE (U.S. Department of Energy), EPA (U.S. Environmental Protection Agency), and CDPHE (Colorado Department of Public Health and Environment), 2007. *Rocky Flats Legacy Management Agreement*, executed on March 14, Attachment 2 updated December 2018, available at https://www.lm.doe.gov/Rocky_Flats/RFLMA.pdf.

DOE (U.S. Department of Energy), EPA (U.S. Environmental Protection Agency), and CDPHE (Colorado Department of Public Health and Environment), 2011. *Corrective Action Decision/Record of Decision Amendment for Rocky Flats Plant (USDOE) Central Operable Unit,* September 21.

EPA (U.S. Environmental Protection Agency), SW-846. *Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods*, EPA publication SW-846, continually updated.

Appendix A

Landfill Inspection Forms and Survey Data—
First Quarter CY 2020

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Original Landfill – Monitoring and Maintenance Plan Inspection Form

Inspector: Nathan Krohn Date: 1/15/2020 Time: 1200

Precipitation: MET* None recorded NREL* 0.11 inch Weather: Clear, 37°F Report Type: ☒ Monthly ☐ Weather-related

Reviewed by: Jeremy Wehner Review date: 1/21/2020

*Since last report

Subsidence/Consolidation

Region	Visible Cracks	Visible Depressions	Visible Ponding	Within Waste Footprint	Other (Describe Below)
Berm 1 Basin - West	No	No	No	NA	Under Construction
Berm 1 Basin - East	No	No	No	↓	↓ (Partially affected)
Berm 2 Basin	No	No	No	↓	↓ ↓
Berm 3 Basin	No	No	No	↓	↓ ↓
Berm 4 Basin	No	No	No	↓	↓ ↓
Berm 5 Basin	No	No	No	↓	↓ ↓
Berm 6 Basin	No	No	No	↓	
Berm 7 Basin	No	No	No	↓	
Buttress fill	No	No	No	↓	

Settlement monuments—inspect integrity. Intact: Yes

Maintenance required, comments, and photo log:

- Construction at East Anchor Row 2 is ongoing (Downgradient of E.berm 4).
- ≤ 1.5 inches knuckling along lower east edge of buttress TRM (erosion matting).
- 1-2 ft³ sediment outside of construction boundary, near lower EPC, from ice melt carry.
  - well-vegetated, sediment unable to reach Woman Creek.
- Previously reported crack upgradient of East Anchor Row 1 unchanged.
- ~5 foot long crack located ~5 feet downgradient of previously reported scarp; <1 inch V. separation, 2-3 in. H. separation. Up to 3 inches deep.

Original Landfill – Monitoring and Maintenance Plan Inspection Form

Slope Stability				
Region	**Visible Cracks**	**Visible Seeps**	**Visible Block or Circular Failure**	**Other (Describe Below)**
Cover– West	No	Yes	No	
Cover– East	NK 1/15/20 ~~No~~ ~~Yes*~~ NK 1/16/20	Yes	No	*Cracks above East Anchor Row 1 NOT on East Cover.
Buttress fill side slope	No	No	No	
West perimeter channel side slopes	No	No	No	Under Construction
East perimeter channel side slopes	No	No	No	↓

Maintenance required, comments, and photo log:

Soil Cover and Buttress				
Region	**Visible Erosion**	**Visible Gullies**	**Visible Animal Burrows**	**Other (Describe Below)**
Cover– West	No	No	No	
Cover– East	No	No	No	
Buttress fill	No	No	No	
Buttress fill side slope	No	No	No	

Maintenance required, comments, and photo log:

Original Landfill – Monitoring and Maintenance Plan Inspection Form

Seep Evaluation				
Seep	**Visible Saturation**	**Visible Flow**	**Approximate Flow**	**Description**
Seep 1*	No	No		
Seep 2/3*	Yes	Yes	1-2 GPM	
Seep 4*	YES	No		
Seep 5*	No	No		Not visible due to nearby construction
Seep 6*	No	No		
Seep 7*	Yes	No		
Seep 8a	No	No		
Seep 8b	No	No		
Seep 8c	Yes	No		
Seep 9	Yes	Yes	< 1 GPM	
Seep 10	No	No		
Seep 10a	NA	NA	NA	Not an official seep yet.
Seep 8	Yes	Yes	< 1 GPM	

Maintenance required, comments, and photo log:

* Indicates seep was observed during or shortly after OLF closure in 2005.

NOTE: A seep is defined as an area where water percolates to the land surface or an area persistently moist whose source, as observed in multiple inspections, is confirmed to be groundwater and not surface water.

Original Landfill – Monitoring and Maintenance Plan Inspection Form

Water Management Structures

Channels

Structure	Visible Excessive Erosion, Gullying, or Undermining	Visible Settlement, Subsidence, or Depressions	Visible Breaching or Bank Failure	Visible Animal Burrows	Visible Sediment Build-Up or Other Blockage	Comments
Diversion Berm 1	No	No	No	No	No	
Diversion Berm 2	No	No	No	No	No	
Diversion Berm 3	No	No	No	No	No	
Diversion Berm 4	No	No	No	No	No	
Diversion Berm 5	No	No	No	No	No	
Diversion Berm 6	No	No	No	No	No	
Diversion Berm 7	No	No	No	No	No	
West perimeter channel	No	No	No	No	No	
East perimeter channel	No	No	No	No	No	

Drains/Outfalls

Structure	Visible Excessive Erosion, or Gullying	Visible Sediment Build-Up or Other Blockage	Is Water Draining or Flowing from Structure?	Comments
East Subsurface Drain – Solid pipe	No	No	No	
East Subsurface Drain – Perforated pipe	No	No	No	
French Drain (SID)	No	No	No	

Maintenance required and photo log:

Original Landfill – Monitoring and Maintenance Plan Inspection Form

"Run-On" Control		
Area	**Adversely Affecting OLF**	**Comments**
Run-on to the OLF (any direction)	No	

Maintenance required and photo log:

Violations of Institutional Controls		
Item		**Comments**
Evidence of unauthorized[1] excavations of cover and immediate vicinity of cover?	No	
Evidence of unauthorized[1] construction of roads, trails, or buildings on cover?	No	
Evidence of unauthorized[1] drilling of wells or use of groundwater?	No	
Damage to groundwater monitoring wells at OLF (upgradient or downgradient)?	No	

Other observations, maintenance required, comments, and photo log:

If "Yes" is marked on any item in the Institutional Controls section, immediately notify your supervisor.

[1] Unauthorized means not approved by RFLMA parties (DOE, EPA, CDPHE) through the consultative process. Actions covered under an approved soil disturbance review plan are authorized actions.

Original Landfill – Monitoring and Maintenance Plan Inspection Form

Action Items

Deficiency	Action	Date Completed	Comments
Approx. 5 ft. long tension crack ~5 ft. downgradient of ~60 ft crack reported last month.	Continue to monitor and report changes		
~1.5 inch knuckling along lower east edge of buttress erosion matting (TRM)	Continue to monitor + report changes		

Signatures

Inspector signature: Nathan Kirk Date: 1/15/2020

Reviewer signature: [illegible] Date: 1/21/2020

Attachment 1: January 2020 Monthly Report of the Original Landfill Inspection at the Rocky Flats Site, Colorado

The monthly inspection of the Original Landfill (OLF) at the Rocky Flats Site, Colorado, was completed on January 15, 2020. The weather was clear and 37 °F during the inspection. The Rocky Flats Site meteorological tower did not record any precipitation between this inspection and the prior inspection, which was performed December 23, 2019. For comparison, the National Renewable Energy Laboratory (NREL) M2 tower, near the northwest corner of the site, recorded 0.11 inch during the same period. The NREL M2 tower has a heated rain gauge, which can accurately measure precipitation in the form of snow.

Monthly inspection forms are completed to document current conditions at the OLF. Items previously indicated as deficient on an inspection form that have since been repaired are not marked again on the form unless further action is required.

Figure 1 indicates key features of the OLF and the approximate locations and directions of report photographs (**Figures 2–7**).

No new deficiencies along berms 1–3 (**Figure 2**) or 4–7 (**Figure 3**) were observed. The 60-foot tension crack located 15–20 feet upgradient of East Anchor Row 1 construction was unchanged from last month. An additional crack appeared approximately 10–15 feet upgradient of East Anchor Row 1 construction (**Figure 4**). It is approximately 5 feet long and up to 3 inches deep, with less than 1 inch of vertical separation and 2–3 inches of horizontal separation. The cracks will continue to be monitored, and changes will be reported and addressed appropriately. Approximately 30 feet of 1.5-inch knuckling was observed along the lower edge of the TRM (turf reinforcement matting) that covers the east end of the buttress (**Figure 5**). This movement will continue to be monitored, and changes will be reported and addressed appropriately. As planned, the OLF Slope Stabilization Project construction now impacts the East and West Perimeter Channels and associated outfalls and the basins of berms 1, 1A, 2, 3, 4, and 5.

The East Perimeter Channel (EPC) (**Figure 6**) and West Perimeter Channel (WPC) (**Figure 7**) have been excavated to construct new east and west drain outfalls, respectively. The toe of the east supporting hillside was removed in the process. The EPC and WPC outfalls have been redesigned as part of the OLF Slope Stabilization Project, with construction scheduled to be completed in 2020.

Seep 2/3 had a flow rate of approximately 1–2 gallons per minute (gpm), and seeps 8 and 9 had a flow rate of less than 1 gpm. Seeps 4, 7, and 8C had visible saturation. Seeps 5 and 6 are no longer visible at their historical locations due to construction in the immediate areas.

Water was flowing at less than 1 gpm from the East Subsurface Drain (ESSD) perforated pipe. There was no erosion or sedimentation in the immediate area.

The revegetation of recently disturbed areas on the OLF is managed and monitored under the *Erosion Control Plan for Rocky Flats Property Central Operable Unit* (DOE 2007)[1] and under sitewide vegetation and revegetation plans, as appropriate.

Observations of Related Systems

The temporary groundwater intercept (GWI) system, which feeds into the ESSD, was shut down for the season on September 25, 2019. The temporary seep 10 siphon system, which feeds into the seep 2/3 drainage line, was shut down for the season on October 17, 2019.

Summary of January Inspection Findings

No new erosion or berm deficiencies were noted. No movement was noted at the 60-foot tension crack 15–20 feet upgradient of East Anchor Row 1 construction. An additional crack appeared approximately 10–15 feet upgradient of East Anchor Row 1. Knuckling was observed along the lower edge of the turf reinforcement matting that covers the east end of the buttress. As planned, the OLF Slope Stabilization Project construction now impacts the East and West Perimeter Channels and associated outfalls and the basins of berms 1, 1A, 2, 3, 4, and 5. Seep 2/3 had a flow rate of approximately 1–2 gpm, and seeps 8 and 9 had a flow rate of less than 1 gpm. Seeps 4, 7, and 8C had visible saturation. Seeps 5 and 6 are no longer visible at their historical locations due to construction in the immediate areas. Water was flowing at less than 1 gpm from the ESSD perforated pipe. There was no erosion or sedimentation in the immediate area. Both the temporary GWI system and the temporary seep 10 siphon were shut down at the time of inspection.

[1] DOE (U.S. Department of Energy), 2007. *Erosion Control Plan for Rocky Flats Property Central Operable Unit*, DOE-LM/1497-2007, Office of Legacy Management, July.

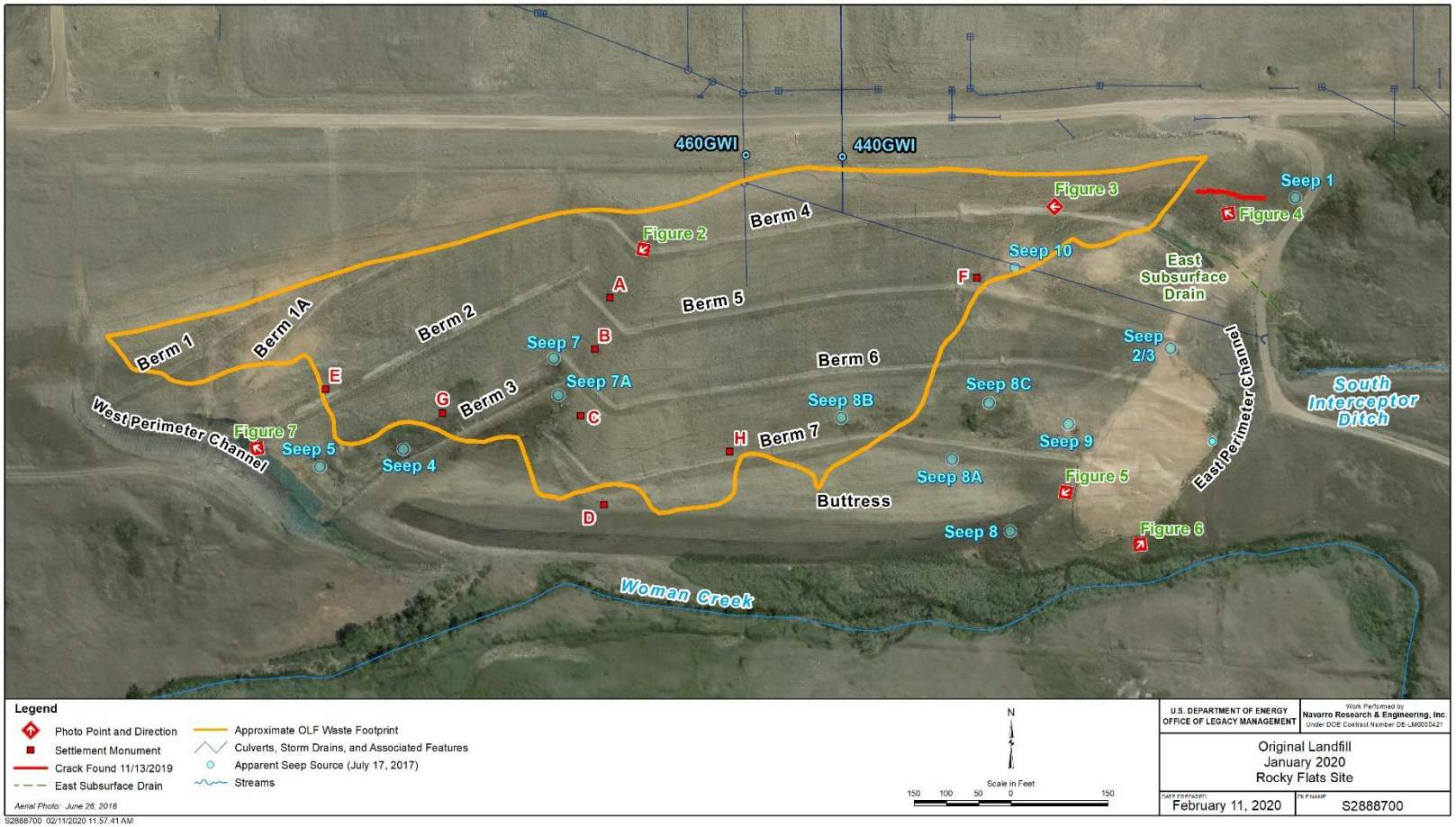

Figure 1. OLF Key Features and Locations, and Direction of Report Figure Photographs, Rocky Flats Site, Colorado

Figure 2. Looking Southwest at Berms 1–3, Which Are in Good Condition; West Anchor Row 1 Construction Visible at Top Center

Figure 3. Looking West at Berms 4–7, Which Are in Good Condition

Figure 4. Looking Northwest at a 5-Foot Crack That Appeared Approximately 10–15 Feet Upgradient of East Anchor Row 1

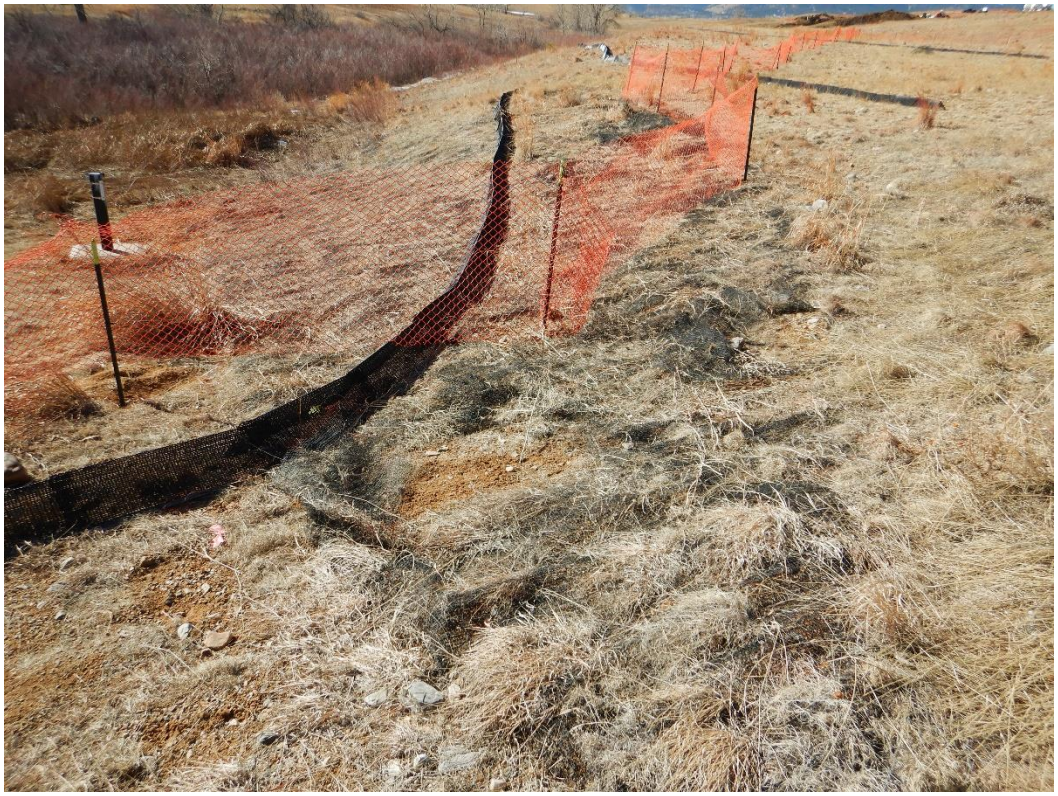

Figure 5. Looking Southwest at Approximately 30 Feet of 1.5-Inch Knuckling Along the Lower Edge of the TRM That Covers the East End of the Buttress

Figure 6. Looking Northeast at the Bubble-Up Structure and Terminus of the Lower East Drain Outfall Trench, Which Underlies the East Perimeter Channel

Figure 7. Looking Northwest at the Excavation of the West Drain Outfall Trench, Which Underlies the West Perimeter Channel

Original Landfill – Monitoring and Maintenance Plan Inspection Form

Inspector: Nathan Krohn Date: 2/20/20 Time: 1100

Precipitation: MET* 0.30 inch NREL* 0.99 inch Weather: Clear, 20°F Report Type: ☒ Monthly ☐ Weather-related

Reviewed by: HT Review date: 2/20/20

*Since last report

Subsidence/Consolidation

Region	Visible Cracks	Visible Depressions	Visible Ponding	Within Waste Footprint	Other (Describe Below)
Berm 1 Basin - West	No	No	No	NA	
Berm 1 Basin - East	No	No	No	↓	
Berm 2 Basin	No	No	No	↓	
Berm 3 Basin	No	No	No	↓	
Berm 4 Basin	No	No	No	↓	
Berm 5 Basin	No	No	No	↓	
Berm 6 Basin	No	No	No	↓	
Berm 7 Basin	No	No	No	↓	
Buttress fill	No	No	No	↓	

Settlement monuments—inspect integrity. Intact: Yes

Maintenance required, comments, and photo log:

No new deficiencies to note.

The basins above the east ends of berms 6 and 7 have now been impacted by Project construction. The Seep 10 sump was excavated to make way for the beginning of the interceptor drain trench.

Original Landfill – Monitoring and Maintenance Plan Inspection Form

Slope Stability				
Region	Visible Cracks	Visible Seeps	Visible Block or Circular Failure	Other (Describe Below)
Cover– West	NO	YES	NO	
Cover– East	NO	YES	NO	
Buttress fill side slope	NO	NO	NO	
West perimeter channel side slopes	NO	YES *	NO	* Seep 6 (Not visible due to Project Construction)
East perimeter channel side slopes	NO	NO	NO	

Maintenance required, comments, and photo log:

No issues.

Soil Cover and Buttress				
Region	Visible Erosion	Visible Gullies	Visible Animal Burrows	Other (Describe Below)
Cover– West	No	No	No	
Cover– East	No	No	No	
Buttress fill	No	No	No	
Buttress fill side slope	No	No	No	

Maintenance required, comments, and photo log:

No issues.

Original Landfill – Monitoring and Maintenance Plan Inspection Form

Seep Evaluation				
Seep	**Visible Saturation**	**Visible Flow**	**Approximate Flow**	**Description**
Seep 1*	Yes			
Seep 2/3*				
Seep 4*				
Seep 5*				Not visible due to Project Construction
Seep 6*				
Seep 7*				
Seep 8a				
Seep 8b				
Seep 8c				
Seep 9				
Seep 10				
Seep 10a	NA	NA	NA	Not an official seep yet

Maintenance required, comments, and photo log:

All seeps are visibly saturated from ongoing snowmelt.
Flows cannot be estimated due to snow cover.

* Indicates seep was observed during or shortly after OLF closure in 2005.

NOTE: A seep is defined as an area where water percolates to the land surface or an area persistently moist whose source, as observed in multiple inspections, is confirmed to be groundwater and not surface water.

Original Landfill – Monitoring and Maintenance Plan Inspection Form

Water Management Structures

Channels

Structure	Visible Excessive Erosion, Gullying, or Undermining	Visible Settlement, Subsidence, or Depressions	Visible Breaching or Bank Failure	Visible Animal Burrows	Visible Sediment Build-Up or Other Blockage	Comments
Diversion Berm 1	NO	NO	NO	NO	NO	
Diversion Berm 2	NO	NO	NO	NO	NO	
Diversion Berm 3	NO	NO	NO	NO	NO	
Diversion Berm 4	NO	NO	NO	NO	NO	
Diversion Berm 5	NO	NO	NO	NO	NO	
Diversion Berm 6	NO	NO	NO	NO	NO	
Diversion Berm 7	NO	NO	NO	NO	NO	
West perimeter channel	NO	NO	NO	NO	NO	
East perimeter channel	NO	NO	NO	NO	NO	

Drains/Outfalls

Structure	Visible Excessive Erosion, or Gullying	Visible Sediment Build-Up or Other Blockage	Is Water Draining or Flowing from Structure?	Comments
East Subsurface Drain – Solid pipe	NO	NO	NO	
East Subsurface Drain – Perforated pipe	NO	NO	YES	
French Drain (SID)	NO	NO	NO	

Maintenance required and photo log:

No issues.

Original Landfill – Monitoring and Maintenance Plan Inspection Form

"Run-On" Control		
Area	**Adversely Affecting OLF**	**Comments**
Run-on to the OLF (any direction)	NO	

Maintenance required and photo log:

No issues.

Violations of Institutional Controls		
Item		**Comments**
Evidence of unauthorized[1] excavations of cover and immediate vicinity of cover?	NO	
Evidence of unauthorized[1] construction of roads, trails, or buildings on cover?	NO	
Evidence of unauthorized[1] drilling of wells or use of groundwater?	NO	
Damage to groundwater monitoring wells at OLF (upgradient or downgradient)?	NO	

Other observations, maintenance required, comments, and photo log:

No Issues.

If "Yes" is marked on any item in the Institutional Controls section, immediately notify your supervisor.

[1] Unauthorized means not approved by RFLMA parties (DOE, EPA, CDPHE) through the consultative process. Actions covered under an approved soil disturbance review plan are authorized actions.

Original Landfill – Monitoring and Maintenance Plan Inspection Form

Action Items

Deficiency	Action	Date Completed	Comments
None			

Signatures

Inspector signature: Matthew Kuhn Date: 2/20/2020

Reviewer signature: [illegible] Date: 2/20/2020

Attachment 1: February 2020 Monthly Report of the Original Landfill Inspection at the Rocky Flats Site, Colorado

The monthly inspection of the Original Landfill (OLF) at the Rocky Flats Site, Colorado, was completed on February 20, 2020. The weather was clear and 20 °F during the inspection. The Rocky Flats Site meteorological tower recorded 0.30 inch of precipitation between this inspection and the prior inspection, which was performed January 15, 2020. For comparison, the National Renewable Energy Laboratory (NREL) M2 tower, near the northwest corner of the site, recorded 0.99 inch during the same period. The NREL M2 tower has a heated rain gauge, which can accurately measure precipitation in the form of snow.

Monthly inspection forms are completed to document current conditions at the OLF. Items previously indicated as deficient on an inspection form that have since been repaired are not marked again on the form unless further action is required.

Figure 1 indicates key features of the OLF and the approximate locations and directions of report photographs (**Figures 2–7**).

No new deficiencies along berms 1–3 (**Figure 2**) or 4–7 (**Figure 3**) were observed. Approximately 30 feet of 1.5-inch knuckling observed last month along the lower edge of the TRM (turf reinforcement matting) that covers the east end of the buttress remains unchanged (**Figure 4**). This movement will continue to be monitored, and changes will be reported and addressed appropriately. As planned, the OLF Slope Stabilization Project construction now impacts the East and West Perimeter Channels and associated outfalls and the basins of all berms.

The East Perimeter Channel (EPC) (**Figure 5**) and West Perimeter Channel (WPC) (**Figure 6**) have been excavated to construct new east and west drain outfalls, respectively. The toe of the east supporting hillside was removed in the process. The EPC and WPC outfalls have been redesigned as part of the OLF Slope Stabilization Project, with construction scheduled to be completed in 2020.

All seeps had visible saturation from ongoing snowmelt. Seep flow rates could not be estimated due to snow cover. Seeps 5, 6, and 9 are no longer visible at their historical locations due to construction in the immediate areas. Seep 10 was excavated in preparation for construction of an interceptor drain collection trench (**Figure 7**).

Water was flowing at less than 1 gallon per minute (gpm) from the East Subsurface Drain (ESSD) perforated pipe. There was no erosion or sedimentation in the immediate area.

The revegetation of recently disturbed areas on the OLF is managed and monitored under the *Erosion Control Plan for Rocky Flats Property Central Operable Unit* (DOE 2007)[1] and under sitewide vegetation and revegetation plans, as appropriate.

Observations of Related Systems

A week prior to this inspection, the siphon system sump well was removed, and the immediate area was excavated in preparation for construction of an interceptor drain collection trench.

Summary of February Inspection Findings

No new erosion or berm deficiencies were noted. Knuckling observed last month along the lower edge of the turf reinforcement matting that covers the east end of the buttress remains unchanged. As planned, the OLF Slope Stabilization Project construction now impacts the East and West Perimeter Channels and associated outfalls and the basins of all berms. All seeps had visible saturation from ongoing snowmelt. Seep flow rates could not be estimated due to snow cover. Seeps 5, 6, and 9 are no longer visible at their historical locations due to construction in the immediate areas. Seep 10 was excavated in preparation for construction of an interceptor drain collection trench. Water was flowing at less than 1 gpm from the ESSD perforated pipe. There was no erosion or sedimentation in the immediate area. The siphon system sump well was removed, and the immediate area was excavated in preparation for construction of an interceptor drain collection trench.

[1] DOE (U.S. Department of Energy), 2007. *Erosion Control Plan for Rocky Flats Property Central Operable Unit*, DOE-LM/1497-2007, Office of Legacy Management, July.

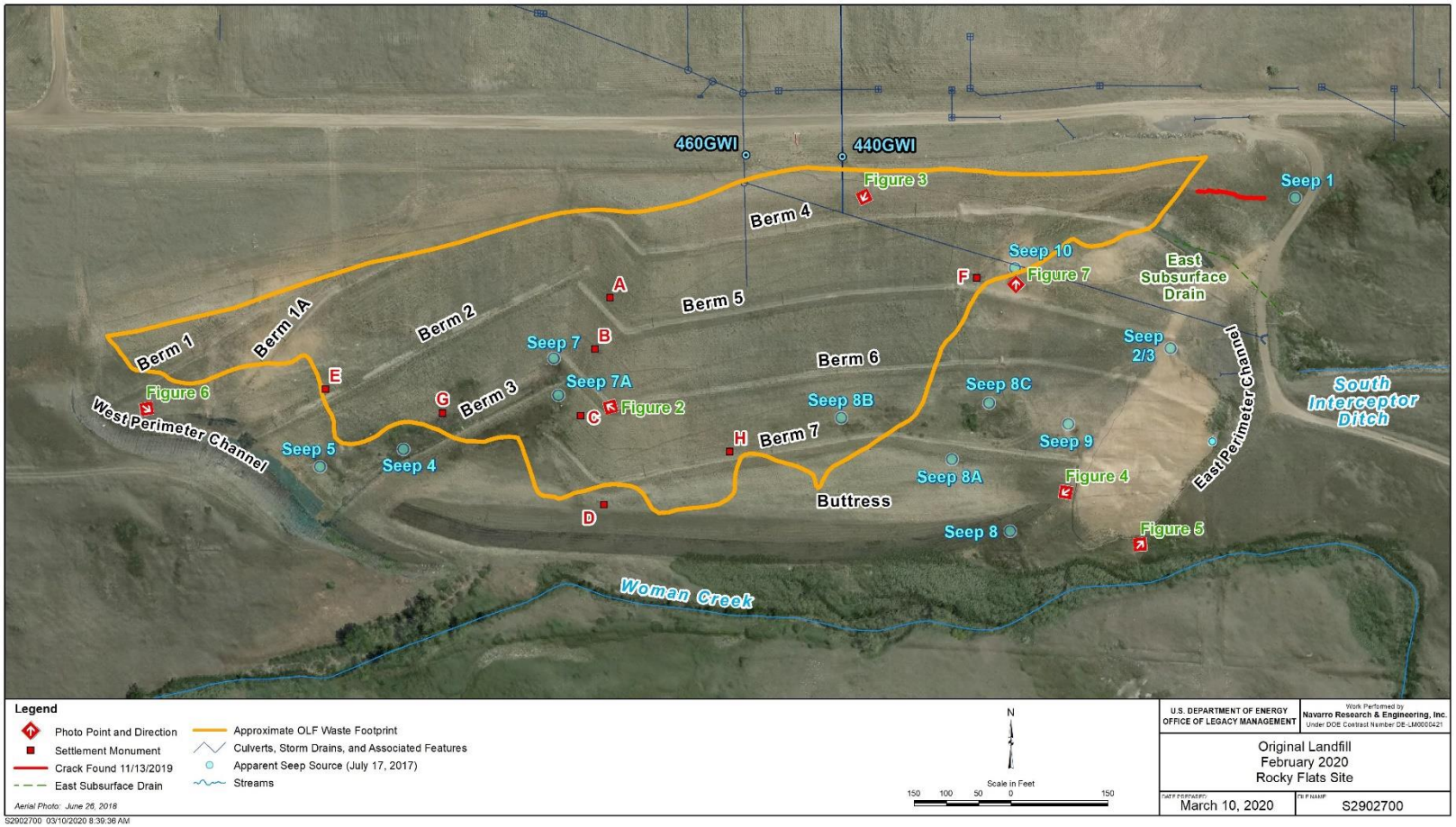

Figure 1. OLF Key Features and Locations, and Direction of Report Figure Photographs, Rocky Flats Site, Colorado

Figure 2. Looking Northwest at Berms 1–3, Which Are in Good Condition; West Anchor Row 2 Construction Visible at Top Center

Figure 3. Looking Southwest at Berms 4–7, Which Are in Good Condition

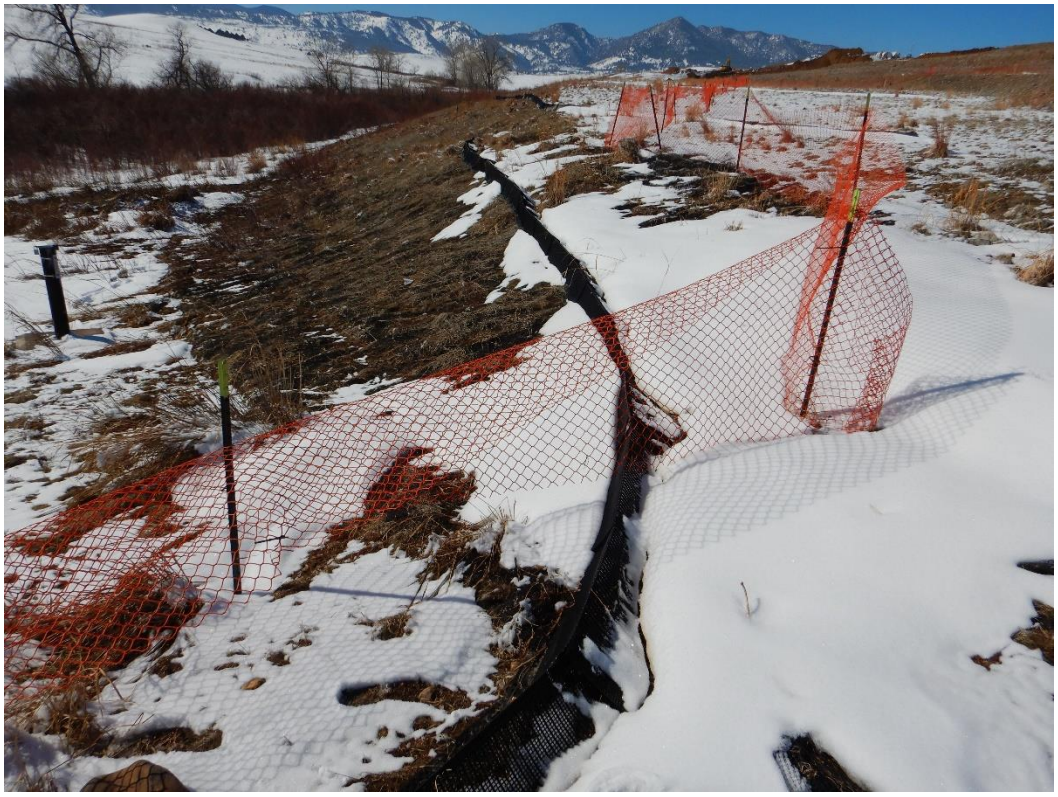

Figure 4. Looking Southwest at Approximately 30 Feet of 1.5-Inch Knuckling Along the Lower Edge of the TRM That Covers the East End of the Buttress, Which Is Unchanged from Last Month

Figure 5. Looking Northeast at the Bubble-Up Structure and Terminus of the Lower East Drain Outfall Trench, Which Underlies the East Perimeter Channel

Figure 6. Looking Southeast at the Excavation of the West Drain Outfall Trench, Which Underlies the West Perimeter Channel

Figure 7. Looking North at the Excavation of Seep 10 and the Siphon System Sump Well, Where an Interceptor Drain Collection Trench Will Begin. Piezometer 85717 in view (left).

Original Landfill – Monitoring and Maintenance Plan Inspection Form

Inspector: Nathan Krohn Date: 3/18/2020 Time: 1200

Precipitation: MET* 0.21 inches NREL* 0.36 inches Weather: Overcast, 68°F Report Type: ☒ Monthly ☐ Weather-related

Reviewed by: Connor Mueller Review date: 3/18/2020

*Since last report

Subsidence/Consolidation

Region	Visible Cracks	Visible Depressions	Visible Ponding	Within Waste Footprint	Other (Describe Below)
Berm 1 Basin - West	NO	NO	NO	NA	
Berm 1 Basin - East	NO	NO	NO	↓	
Berm 2 Basin	NO	NO	NO	↓	
Berm 3 Basin	NO	NO	NO	↓	
Berm 4 Basin	NO	NO	NO	↓	
Berm 5 Basin	NO	NO	NO	↓	
Berm 6 Basin	NO	NO	NO	↓	
Berm 7 Basin	NO	NO	NO	↓	
Buttress fill	NO	NO	NO	↓	

Settlement monuments—inspect integrity. Intact: YES

Maintenance required, comments, and photo log:

No issues. Construction now impacts all basins and the perimeter channels.

Original Landfill – Monitoring and Maintenance Plan Inspection Form

Slope Stability				
Region	Visible Cracks	Visible Seeps	Visible Block or Circular Failure	Other (Describe Below)
Cover– West	NO	YES	NO	
Cover– East	NO	YES	NO	
Buttress fill side slope	NO	NO	NO	
West perimeter channel side slopes	NO	NO	NO	
East perimeter channel side slopes	NO	NO	NO	

Maintenance required, comments, and photo log:

No issues.

Soil Cover and Buttress				
Region	Visible Erosion	Visible Gullies	Visible Animal Burrows	Other (Describe Below)
Cover– West	NO	NO	NO	
Cover– East	NO	NO	NO	
Buttress fill	NO	NO	NO	
Buttress fill side slope	NO	NO	NO	

Maintenance required, comments, and photo log:

No issues.

Original Landfill – Monitoring and Maintenance Plan Inspection Form

Seep Evaluation				
Seep	**Visible Saturation**	**Visible Flow**	**Approximate Flow**	**Description**
Seep 1*	NO	NO	NK 3/18/20	
Seep 2/3*	YES	~~YES~~ NO NK 3/18/20	~~1-2 GPM~~	Seep excavated during construction of EAR-4
Seep 4*	YES	NO		
Seep 5*	NO	NO		Historical location not visible due to construction
Seep 6*	NO	NO		
Seep 7*	YES	NO		
Seep 8a	NO	NO		
Seep 8b	YES	NO		
Seep 8c	NO	NO		Half covered due to construction
Seep 9	~~YES~~ NO NK 3/18/20	NO		Historical location not visible due to construction
Seep 10	NO	NO		Excavated for install of East Interceptor Trench
Seep 10a	NA	NA	NA	Not an official seep
Seep 8	YES	YES	< 1 GPM	

Maintenance required, comments, and photo log:
No issues. Seep 8c has been partially (at least) covered due to construction activity in the immediate area.
Seep 2/3 has been excavated during the construction of East Anchor Row 4 (EAR-4). There is no longer any flow to be observed at the Seep 2/3 location, as groundwater is being intercepted at the Seep 10 location.

* Indicates seep was observed during or shortly after OLF closure in 2005.

NOTE: A seep is defined as an area where water percolates to the land surface or an area persistently moist whose source, as observed in multiple inspections, is confirmed to be groundwater and not surface water.

Original Landfill – Monitoring and Maintenance Plan Inspection Form

Water Management Structures						
Channels						
Structure	**Visible Excessive Erosion, Gullying, or Undermining**	**Visible Settlement, Subsidence, or Depressions**	**Visible Breaching or Bank Failure**	**Visible Animal Burrows**	**Visible Sediment Build-Up or Other Blockage**	**Comments**
Diversion Berm 1	NO	NO	NO	NO		
Diversion Berm 2	NO	NO	NO	NO		
Diversion Berm 3	NO	NO	NO	NO		
Diversion Berm 4	NO	NO	NO	NO		
Diversion Berm 5	NO	NO	NO	NO		
Diversion Berm 6	NO	NO	NO	NO		
Diversion Berm 7	NO	NO	NO	NO		
West perimeter channel	NO	NO	NO	NO		
East perimeter channel	NO	NO	NO	NO		

Drains/Outfalls				
Structure	**Visible Excessive Erosion, or Gullying**	**Visible Sediment Build-Up or Other Blockage**	**Is Water Draining or Flowing from Structure?**	**Comments**
East Subsurface Drain – Solid pipe	NO	NO	NO	
East Subsurface Drain – Perforated pipe	NO	NO	YES	
French Drain (SID)	NO	NO	NO	

Maintenance required and photo log:

No issues

Original Landfill – Monitoring and Maintenance Plan Inspection Form

"Run-On" Control		
Area	**Adversely Affecting OLF**	**Comments**
Run-on to the OLF (any direction)	No issues	
Maintenance required and photo log:		
No issues.		

Violations of Institutional Controls		
Item		**Comments**
Evidence of unauthorized[1] excavations of cover and immediate vicinity of cover?	No	
Evidence of unauthorized[1] construction of roads, trails, or buildings on cover?	No	
Evidence of unauthorized[1] drilling of wells or use of groundwater?	NO	
Damage to groundwater monitoring wells at OLF (upgradient or downgradient)?	NO	
Other observations, maintenance required, comments, and photo log:		
No violations.		
If "Yes" is marked on any item in the Institutional Controls section, immediately notify your supervisor.		

[1] Unauthorized means not approved by RFLMA parties (DOE, EPA, CDPHE) through the consultative process. Actions covered under an approved soil disturbance review plan are authorized actions.

Original Landfill – Monitoring and Maintenance Plan Inspection Form

Action Items			
Deficiency	Action	Date Completed	Comments
None	—	—	

Signatures

Inspector signature: Matthew [illegible] Date: 3/18/2020

Reviewer signature: [illegible] Date: 3/18/2020

Attachment 1: March 2020 Monthly Report of the Original Landfill Inspection at the Rocky Flats Site, Colorado

The monthly inspection of the Original Landfill (OLF) at the Rocky Flats Site, Colorado, was completed on March 18, 2020. The weather was clear and 68 °F during the inspection. The Rocky Flats Site meteorological tower recorded 0.21 inch of precipitation between this inspection and the prior inspection, which was performed February 20, 2020. For comparison, the National Renewable Energy Laboratory (NREL) M2 tower, near the northwest corner of the site, recorded 0.36 inch during the same period. The NREL M2 tower has a heated rain gauge, which can accurately measure precipitation in the form of snow.

Monthly inspection forms are completed to document current conditions at the OLF. Items previously indicated as deficient on an inspection form that have since been repaired are not marked again on the form unless further action is required.

Figure 1 indicates key features of the OLF and the approximate locations and directions of report photographs (**Figures 2–6**).

No new deficiencies along berms 1–3 (**Figure 2**) or 4–7 (**Figure 3**) were observed. As planned, the OLF Slope Stabilization Project construction now impacts the East and West Perimeter Channels and associated outfalls and the basins of all berms.

The East Perimeter Channel (EPC) and West Perimeter Channel (WPC) have been excavated to construct new east and west drain outfalls, respectively. The toe of the east supporting hillside was removed in the process. The EPC and WPC outfalls have been redesigned as part of the OLF Slope Stabilization Project, with construction scheduled to be completed in 2020.

Seep 8 had a visible flow of less than 1 gallon per minute (gpm). Seeps 4, 7, and 8B have saturated soil with no visible flows. Seeps 5, 6, 9, and at least half of seep 8C (**Figure 4**) are no longer visible at their historical locations due to construction in the immediate areas. Seep 10 was excavated in preparation for construction of an interceptor drain collection trench (**Figure 5**). Seep 2/3 was excavated during the construction of East Anchor Row 4 (EAR–4) (**Figure 6**).

Water was flowing at less than 1gpm from the East Subsurface Drain (ESSD) perforated pipe. There was no erosion or sedimentation in the immediate area.

The revegetation of recently disturbed areas on the OLF is managed and monitored under the *Erosion Control Plan for Rocky Flats Property Central Operable Unit* (DOE 2007)[1] and under sitewide vegetation and revegetation plans, as appropriate.

[1] DOE (U.S. Department of Energy), 2007. *Erosion Control Plan for Rocky Flats Property Central Operable Unit*, DOE-LM/1497-2007, Office of Legacy Management, July.

Summary of March Inspection Findings

No new erosion or berm deficiencies were noted. As planned, the OLF Slope Stabilization Project construction now impacts the East and West Perimeter Channels and associated outfalls and the basins of all berms. Seep 8 had a visible flow of less than 1 gpm. Seeps 4, 7, and 8B have saturated soil. Seeps 5, 6, 9, and at least half of seep 8 are no longer visible at their historical locations due to construction in the immediate areas. Seep 10 was excavated in preparation for construction of an interceptor drain collection trench. Seep 2/3 was excavated during the construction of East EAR–4. Water was flowing at less than 1 gpm from the ESSD perforated pipe. There was no erosion or sedimentation in the immediate area.

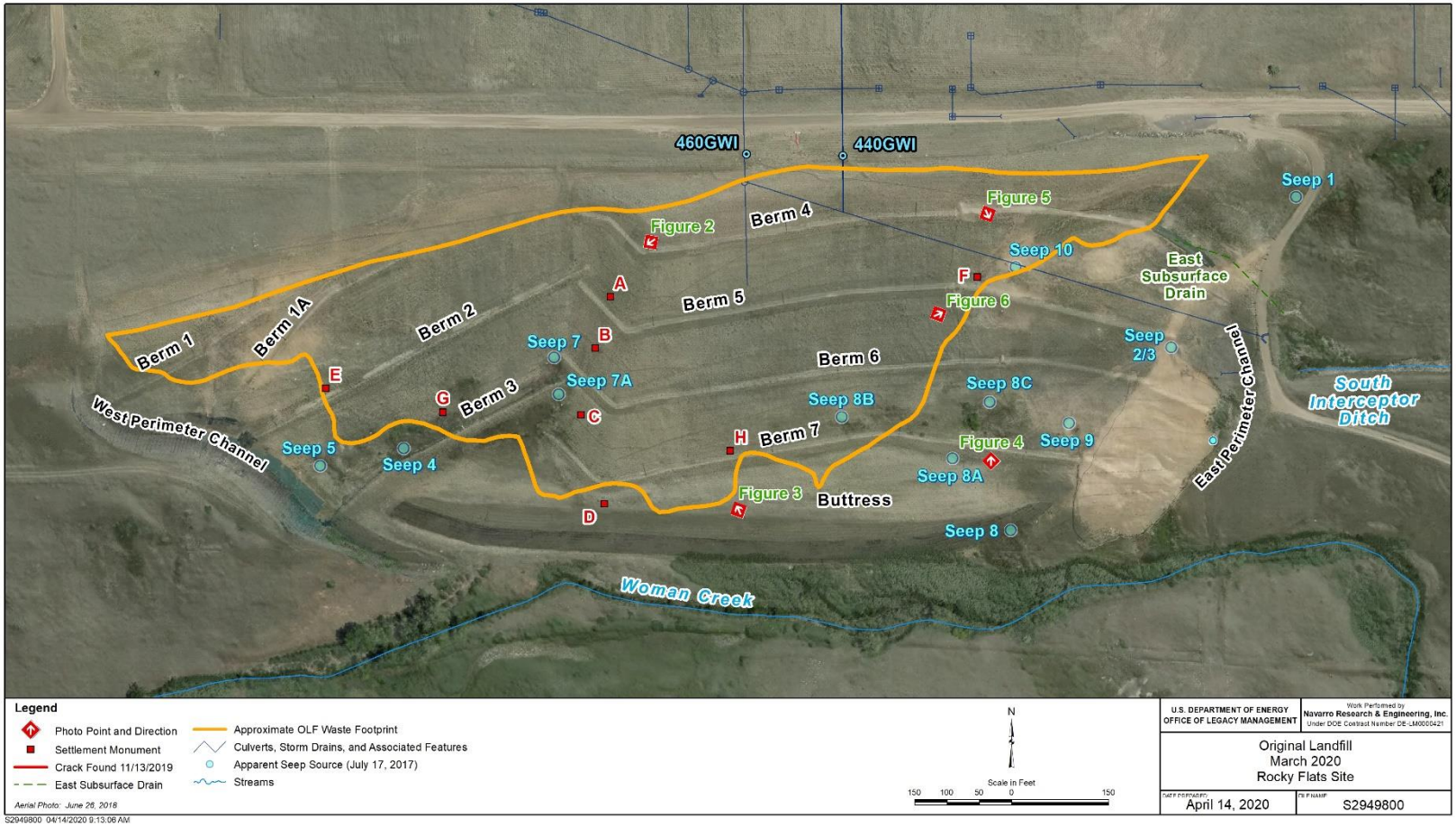

Figure 1. OLF Key Features and Locations, and Direction of Report Figure Photographs, Rocky Flats Site, Colorado

Figure 2. Looking Southwest at Berms 1–3, Which Are in Good Condition; West Anchor Row and Drain Trench Construction Visible at Top Center

Figure 3. Looking Northwest at Berms 4–7, Which Are in Good Condition

Figure 4. Looking North at Seep 8C, Which Is Now Partially Covered from Construction in the Immediate Area

Figure 5. Looking Southeast at the Excavation of Seep 10, Where an Interceptor Drain Collection Trench Will Begin. Piezometer 85717 in view (top center).

Figure 6. Looking East at the Construction of EAR–4, Which Involved Excavation of the Intersecting Seep 2/3

Appendix B

Analytical Results for Water Samples—
First Quarter CY 2020

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Appendix B
Analytical Results for Water Samples—First Quarter CY 2020
RFLMA Data

LOCATION_CODE	LOCATION_TYPE	DATE SAMPLED	SAMPLE CODE	CAS	ANALYTE	FILTRATION STATUS	RESULT	UNITS	LAB QUALIFIERS	SAMPLE TYPE	DETECTION LIMIT	UNCER-TAINTY	DATA VALIDATION QUALIFIERS	COLLECTION METHOD	LAB CODE
70193	WL	1/21/2020	RFS01-10.2001020-001	71-55-6	1,1,1-Trichloroethane	N	0.16	ug/L	U	F	0.16		FQ	G	STD
70193	WL	1/21/2020	RFS01-10.2001020-001	79-34-5	1,1,2,2-Tetrachloroethane	N	0.21	ug/L	U	F	0.21		FQ	G	STD
70193	WL	1/21/2020	RFS01-10.2001020-001	79-00-5	1,1,2-Trichloroethane	N	0.27	ug/L	U	F	0.27		FQ	G	STD
70193	WL	1/21/2020	RFS01-10.2001020-001	75-35-4	1,1-Dichloroethene	N	0.23	ug/L	U	F	0.23		FQ	G	STD
70193	WL	1/21/2020	RFS01-10.2001020-001	120-82-1	1,2,4-Trichlorobenzene	N	0.21	ug/L	U	F	0.21		FQ	G	STD
70193	WL	1/21/2020	RFS01-10.2001020-001	95-50-1	1,2-Dichlorobenzene	N	0.15	ug/L	U	F	0.15		FQ	G	STD
70193	WL	1/21/2020	RFS01-10.2001020-001	107-06-2	1,2-Dichloroethane	N	0.13	ug/L	U	F	0.13		FQ	G	STD
70193	WL	1/21/2020	RFS01-10.2001020-001	78-87-5	1,2-Dichloropropane	N	0.18	ug/L	U	F	0.18		FQ	G	STD
70193	WL	1/21/2020	RFS01-10.2001020-001	541-73-1	1,3-Dichlorobenzene	N	0.13	ug/L	U	F	0.13		FQ	G	STD
70193	WL	1/21/2020	RFS01-10.2001020-001	106-46-7	1,4-Dichlorobenzene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
70193	WL	1/21/2020	RFS01-10.2005022-001	7440-38-2	Arsenic	Y	0.33	ug/L	U	F	0.33		FQ	G	STD
70193	WL	1/21/2020	RFS01-10.2001020-001	71-43-2	Benzene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
70193	WL	1/21/2020	RFS01-10.2005022-001	7440-41-7	Beryllium	Y	0.26	ug/L	J	F	0.08		FJQ	G	STD
70193	WL	1/21/2020	RFS01-10.2005022-001	7440-42-8	Boron	Y	17	ug/L	J	F	4.4		FQ	G	STD
70193	WL	1/21/2020	RFS01-10.2001020-001	75-25-2	Bromoform	N	0.46	ug/L	U	F	0.46		FQ	G	STD
70193	WL	1/21/2020	RFS01-10.2005022-001	7440-43-9	Cadmium	Y	0.27	ug/L	U	F	0.27		FQ	G	STD
70193	WL	1/21/2020	RFS01-10.2001020-001	56-23-5	Carbon tetrachloride	N	0.19	ug/L	U	F	0.19		FQ	G	STD
70193	WL	1/21/2020	RFS01-10.2001020-001	108-90-7	Chlorobenzene	N	0.17	ug/L	U	F	0.17		FQ	G	STD
70193	WL	1/21/2020	RFS01-10.2001020-001	67-66-3	Chloroform	N	0.16	ug/L	U	F	0.16		FQ	G	STD
70193	WL	1/21/2020	RFS01-10.2001020-001	74-87-3	Chloromethane	N	0.3	ug/L	U	F	0.3		FQ	G	STD
70193	WL	1/21/2020	RFS01-10.2005022-001	7440-47-3	Chromium	Y	1	ug/L	J	F	0.5		FQ	G	STD
70193	WL	1/21/2020	RFS01-10.2001020-001	156-59-2	cis-1,2-Dichloroethene	N	0.15	ug/L	U	F	0.15		FQ	G	STD
70193	WL	1/21/2020	RFS01-10.2005022-001	7440-50-8	Copper	Y	0.56	ug/L	U	F	0.56		FQ	G	STD
70193	WL	1/21/2020	RFS01-10.2001020-001	100-41-4	Ethylbenzene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
70193	WL	1/21/2020	RFS01-10.2001020-001	87-68-3	Hexachlorobutadiene	N	0.36	ug/L	U	F	0.36		FQ	G	STD
70193	WL	1/21/2020	RFS01-10.2005022-001	7439-92-1	Lead	Y	0.18	ug/L	U	F	0.18		FQ	G	STD
70193	WL	1/21/2020	RFS01-10.2005022-001	7439-97-6	Mercury	Y	0.027	ug/L	U H	F	0.027		R	G	STD
70193	WL	1/21/2020	RFS01-10.2001020-001	75-09-2	Methylene chloride	N	0.94	ug/L	U	F	0.94		FQ	G	STD
70193	WL	1/21/2020	RFS01-10.2001020-001	91-20-3	Naphthalene	N	0.22	ug/L	U	F	0.22		FQ	G	STD
70193	WL	1/21/2020	RFS01-10.2005022-001	7440-02-0	Nickel	Y	0.3	ug/L	J	F	0.3		FQ	G	STD
70193	WL	1/21/2020	RFS01-10.2005022-001	7782-49-2	Selenium	Y	6.7	ug/L	B	F	0.37		FQ	G	STD
70193	WL	1/21/2020	RFS01-10.2005022-001	7440-22-4	Silver	Y	0.033	ug/L	U	F	0.033		FQ	G	STD
70193	WL	1/21/2020	RFS01-10.2001020-001	100-42-5	Styrene	N	0.36	ug/L	U	F	0.36		FQ	G	STD
70193	WL	1/21/2020	RFS01-10.2001020-001	127-18-4	Tetrachloroethene	N	0.2	ug/L	U	F	0.2		FQ	G	STD
70193	WL	1/21/2020	RFS01-10.2001020-001	108-88-3	Toluene	N	0.17	ug/L	U	F	0.17		FQ	G	STD
70193	WL	1/21/2020	RFS01-10.2001020-001	1330-20-7	Total Xylenes	N	0.19	ug/L	U	F	0.19		FQ	G	STD
70193	WL	1/21/2020	RFS01-10.2001020-001	156-60-5	trans-1,2-Dichloroethene	N	0.15	ug/L	U	F	0.15		FQ	G	STD
70193	WL	1/21/2020	RFS01-10.2001020-001	79-01-6	Trichloroethene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
70193	WL	1/21/2020	RFS01-10.2005022-001	7440-61-1	Uranium	Y	0.1	ug/L		F	0.05		FQ	G	STD
70193	WL	1/21/2020	RFS01-10.2001020-001	75-01-4	Vinyl chloride	N	0.1	ug/L	U	F	0.1		FQ	G	STD
70193	WL	1/21/2020	RFS01-10.2005022-001	7440-66-6	Zinc	Y	2.7	ug/L	J	F	2		FQ	G	STD
70393	WL	1/21/2020	RFS01-10.2001020-002	71-55-6	1,1,1-Trichloroethane	N	0.16	ug/L	U	F	0.16		FQ	G	STD
70393	WL	1/21/2020	RFS01-10.2001020-002	79-34-5	1,1,2,2-Tetrachloroethane	N	0.21	ug/L	U	F	0.21		FQ	G	STD
70393	WL	1/21/2020	RFS01-10.2001020-002	79-00-5	1,1,2-Trichloroethane	N	0.27	ug/L	U	F	0.27		FQ	G	STD
70393	WL	1/21/2020	RFS01-10.2001020-002	75-35-4	1,1-Dichloroethene	N	1.5	ug/L		F	0.23		FQ	G	STD
70393	WL	1/21/2020	RFS01-10.2001020-002	120-82-1	1,2,4-Trichlorobenzene	N	0.21	ug/L	U	F	0.21		FQ	G	STD
70393	WL	1/21/2020	RFS01-10.2001020-002	95-50-1	1,2-Dichlorobenzene	N	0.15	ug/L	U	F	0.15		FQ	G	STD
70393	WL	1/21/2020	RFS01-10.2001020-002	107-06-2	1,2-Dichloroethane	N	0.13	ug/L	U	F	0.13		FQ	G	STD
70393	WL	1/21/2020	RFS01-10.2001020-002	78-87-5	1,2-Dichloropropane	N	0.18	ug/L	U	F	0.18		FQ	G	STD
70393	WL	1/21/2020	RFS01-10.2001020-002	541-73-1	1,3-Dichlorobenzene	N	0.13	ug/L	U	F	0.13		FQ	G	STD
70393	WL	1/21/2020	RFS01-10.2001020-002	106-46-7	1,4-Dichlorobenzene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
70393	WL	1/21/2020	RFS01-10.2001020-002	7440-38-2	Arsenic	Y	0.33	ug/L	U	F	0.33		FQ	G	STD
70393	WL	1/21/2020	RFS01-10.2001020-002	71-43-2	Benzene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
70393	WL	1/21/2020	RFS01-10.2001020-002	7440-41-7	Beryllium	Y	0.08	ug/L	U	F	0.08		FQ	G	STD
70393	WL	1/21/2020	RFS01-10.2001020-002	7440-42-8	Boron	Y	6.3	ug/L	J	F	4.4		FQ	G	STD
70393	WL	1/21/2020	RFS01-10.2001020-002	75-25-2	Bromoform	N	0.46	ug/L	U	F	0.46		FQ	G	STD
70393	WL	1/21/2020	RFS01-10.2001020-002	7440-43-9	Cadmium	Y	0.27	ug/L	U	F	0.27		FQ	G	STD
70393	WL	1/21/2020	RFS01-10.2001020-002	56-23-5	Carbon tetrachloride	N	0.19	ug/L	U	F	0.19		FQ	G	STD
70393	WL	1/21/2020	RFS01-10.2001020-002	108-90-7	Chlorobenzene	N	0.17	ug/L	U	F	0.17		FQ	G	STD
70393	WL	1/21/2020	RFS01-10.2001020-002	67-66-3	Chloroform	N	0.16	ug/L	U	F	0.16		FQ	G	STD
70393	WL	1/21/2020	RFS01-10.2001020-002	74-87-3	Chloromethane	N	0.3	ug/L	U	F	0.3		FQ	G	STD
70393	WL	1/21/2020	RFS01-10.2001020-002	7440-47-3	Chromium	Y	0.6	ug/L	J	F	0.5		FQ	G	STD
70393	WL	1/21/2020	RFS01-10.2001020-002	156-59-2	cis-1,2-Dichloroethene	N	0.15	ug/L	U	F	0.15		FQ	G	STD
70393	WL	1/21/2020	RFS01-10.2001020-002	7440-50-8	Copper	Y	0.68	ug/L	J	F	0.56		FQ	G	STD
70393	WL	1/21/2020	RFS01-10.2001020-002	100-41-4	Ethylbenzene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
70393	WL	1/21/2020	RFS01-10.2001020-002	87-68-3	Hexachlorobutadiene	N	0.36	ug/L	U	F	0.36		FQ	G	STD
70393	WL	1/21/2020	RFS01-10.2001020-002	7439-92-1	Lead	Y	0.18	ug/L	U	F	0.18		FJQ	G	STD
70393	WL	1/21/2020	RFS01-10.2001020-002	7439-97-6	Mercury	Y	0.042	ug/L	J B	F	0.027		FQU	G	STD
70393	WL	1/21/2020	RFS01-10.2001020-002	75-09-2	Methylene chloride	N	0.94	ug/L	U	F	0.94		FQ	G	STD
70393	WL	1/21/2020	RFS01-10.2001020-002	91-20-3	Naphthalene	N	0.22	ug/L	U	F	0.22		FQ	G	STD

LOCATION_CODE	LOCATION_TYPE	DATE SAMPLED	SAMPLE CODE	CAS	ANALYTE	FILTRATION STATUS	RESULT	UNITS	LAB QUALIFIERS	SAMPLE TYPE	DETECTION LIMIT	UNCER-TAINTY	DATA VALIDATION QUALIFIERS	COLLECTION METHOD	LAB CODE
70393	WL	1/21/2020	RFS01-10.2001020-002	7440-02-0	Nickel	Y	1.3	ug/L	J	F	0.3		FQ	G	STD
70393	WL	1/21/2020	RFS01-10.2001020-002	7782-49-2	Selenium	Y	0.93	ug/L	J	F	0.37		FQ	G	STD
70393	WL	1/21/2020	RFS01-10.2001020-002	7440-22-4	Silver	Y	0.033	ug/L	U	F	0.033		FQ	G	STD
70393	WL	1/21/2020	RFS01-10.2001020-002	100-42-5	Styrene	N	0.36	ug/L	U	F	0.36		FQ	G	STD
70393	WL	1/21/2020	RFS01-10.2001020-002	127-18-4	Tetrachloroethene	N	1	ug/L		F	0.2		FQ	G	STD
70393	WL	1/21/2020	RFS01-10.2001020-002	108-88-3	Toluene	N	0.17	ug/L	U	F	0.17		FQ	G	STD
70393	WL	1/21/2020	RFS01-10.2001020-002	1330-20-7	Total Xylenes	N	0.19	ug/L	U	F	0.19		FQ	G	STD
70393	WL	1/21/2020	RFS01-10.2001020-002	156-60-5	trans-1,2-Dichloroethene	N	0.15	ug/L	U	F	0.15		FQ	G	STD
70393	WL	1/21/2020	RFS01-10.2001020-002	79-01-6	Trichloroethene	N	5.6	ug/L		F	0.16		FQ	G	STD
70393	WL	1/21/2020	RFS01-10.2001020-002	7440-61-1	Uranium	Y	0.054	ug/L	J	F	0.05		FQ	G	STD
70393	WL	1/21/2020	RFS01-10.2001020-002	75-01-4	Vinyl chloride	N	0.1	ug/L	U	F	0.1		FQ	G	STD
70393	WL	1/21/2020	RFS01-10.2001020-002	7440-66-6	Zinc	Y	2	ug/L	U	F	2		FQ	G	STD
70693	WL	1/24/2020	RFS01-10.2001020-003	71-55-6	1,1,1-Trichloroethane	N	0.5	ug/L	J	F	0.16		F	G	STD
70693	WL	1/24/2020	RFS01-10.2001020-003	79-34-5	1,1,2,2-Tetrachloroethane	N	0.21	ug/L	U	F	0.21		F	G	STD
70693	WL	1/24/2020	RFS01-10.2001020-003	79-00-5	1,1,2-Trichloroethane	N	0.27	ug/L	U	F	0.27		F	G	STD
70693	WL	1/24/2020	RFS01-10.2001020-003	75-35-4	1,1-Dichloroethene	N	1.3	ug/L		F	0.23		F	G	STD
70693	WL	1/24/2020	RFS01-10.2001020-003	120-82-1	1,2,4-Trichlorobenzene	N	0.21	ug/L	U	F	0.21		F	G	STD
70693	WL	1/24/2020	RFS01-10.2001020-003	95-50-1	1,2-Dichlorobenzene	N	0.15	ug/L	U	F	0.15		F	G	STD
70693	WL	1/24/2020	RFS01-10.2001020-003	107-06-2	1,2-Dichloroethane	N	0.13	ug/L	U	F	0.13		F	G	STD
70693	WL	1/24/2020	RFS01-10.2001020-003	78-87-5	1,2-Dichloropropane	N	0.18	ug/L	U	F	0.18		F	G	STD
70693	WL	1/24/2020	RFS01-10.2001020-003	541-73-1	1,3-Dichlorobenzene	N	0.13	ug/L	U	F	0.13		F	G	STD
70693	WL	1/24/2020	RFS01-10.2001020-003	106-46-7	1,4-Dichlorobenzene	N	0.16	ug/L	U	F	0.16		F	G	STD
70693	WL	1/24/2020	RFS01-10.2001020-003	7440-38-2	Arsenic	Y	0.33	ug/L	U	F	0.33		F	G	STD
70693	WL	1/24/2020	RFS01-10.2001020-003	71-43-2	Benzene	N	0.16	ug/L	U	F	0.16		F	G	STD
70693	WL	1/24/2020	RFS01-10.2001020-003	7440-41-7	Beryllium	Y	0.2	ug/L	J	F	0.08		F	G	STD
70693	WL	1/24/2020	RFS01-10.2001020-003	7440-42-8	Boron	Y	27	ug/L	J	F	4.4		F	G	STD
70693	WL	1/24/2020	RFS01-10.2001020-003	75-25-2	Bromoform	N	0.46	ug/L	U	F	0.46		F	G	STD
70693	WL	1/24/2020	RFS01-10.2001020-003	7440-43-9	Cadmium	Y	0.27	ug/L	U	F	0.27		F	G	STD
70693	WL	1/24/2020	RFS01-10.2001020-003	56-23-5	Carbon tetrachloride	N	0.19	ug/L	U	F	0.19		F	G	STD
70693	WL	1/24/2020	RFS01-10.2001020-003	108-90-7	Chlorobenzene	N	0.17	ug/L	U	F	0.17		F	G	STD
70693	WL	1/24/2020	RFS01-10.2001020-003	67-66-3	Chloroform	N	0.16	ug/L	U	F	0.16		F	G	STD
70693	WL	1/24/2020	RFS01-10.2001020-003	74-87-3	Chloromethane	N	0.3	ug/L	U	F	0.3		F	G	STD
70693	WL	1/24/2020	RFS01-10.2001020-003	7440-47-3	Chromium	Y	0.5	ug/L	U	F	0.5		F	G	STD
70693	WL	1/24/2020	RFS01-10.2001020-003	156-59-2	cis-1,2-Dichloroethene	N	0.15	ug/L	U	F	0.15		F	G	STD
70693	WL	1/24/2020	RFS01-10.2001020-003	7440-50-8	Copper	Y	0.56	ug/L	U	F	0.56		F	G	STD
70693	WL	1/24/2020	RFS01-10.2001020-003	100-41-4	Ethylbenzene	N	0.16	ug/L	U	F	0.16		F	G	STD
70693	WL	1/24/2020	RFS01-10.2001020-003	87-68-3	Hexachlorobutadiene	N	0.36	ug/L	U	F	0.36		F	G	STD
70693	WL	1/24/2020	RFS01-10.2001020-003	7439-92-1	Lead	Y	0.18	ug/L	U	F	0.18		FJ	G	STD
70693	WL	1/24/2020	RFS01-10.2001020-003	7439-97-6	Mercury	Y	0.03	ug/L	J B	F	0.027		FU	G	STD
70693	WL	1/24/2020	RFS01-10.2001020-003	75-09-2	Methylene chloride	N	0.94	ug/L	U	F	0.94		F	G	STD
70693	WL	1/24/2020	RFS01-10.2001020-003	91-20-3	Naphthalene	N	0.22	ug/L	U	F	0.22		F	G	STD
70693	WL	1/24/2020	RFS01-10.2001020-003	7440-02-0	Nickel	Y	1.1	ug/L	J	F	0.3		F	G	STD
70693	WL	1/24/2020	RFS01-10.2001020-003	7782-49-2	Selenium	Y	0.9	ug/L	J	F	0.37		F	G	STD
70693	WL	1/24/2020	RFS01-10.2001020-003	7440-22-4	Silver	Y	0.033	ug/L	U	F	0.033		F	G	STD
70693	WL	1/24/2020	RFS01-10.2001020-003	100-42-5	Styrene	N	0.36	ug/L	U	F	0.36		F	G	STD
70693	WL	1/24/2020	RFS01-10.2001020-003	127-18-4	Tetrachloroethene	N	0.54	ug/L	J	F	0.2		F	G	STD
70693	WL	1/24/2020	RFS01-10.2001020-003	108-88-3	Toluene	N	0.17	ug/L	U	F	0.17		F	G	STD
70693	WL	1/24/2020	RFS01-10.2001020-003	1330-20-7	Total Xylenes	N	0.19	ug/L	U	F	0.19		F	G	STD
70693	WL	1/24/2020	RFS01-10.2001020-003	156-60-5	trans-1,2-Dichloroethene	N	0.15	ug/L	U	F	0.15		F	G	STD
70693	WL	1/24/2020	RFS01-10.2001020-003	79-01-6	Trichloroethene	N	2.3	ug/L		F	0.16		F	G	STD
70693	WL	1/24/2020	RFS01-10.2001020-003	7440-61-1	Uranium	Y	0.13	ug/L		F	0.05		F	G	STD
70693	WL	1/24/2020	RFS01-10.2001020-003	75-01-4	Vinyl chloride	N	0.1	ug/L	U	F	0.1		F	G	STD
70693	WL	1/24/2020	RFS01-10.2001020-003	7440-66-6	Zinc	Y	2	ug/L	U	F	2		F	G	STD
73005	WL	1/22/2020	RFS01-10.2001020-004	71-55-6	1,1,1-Trichloroethane	N	0.16	ug/L	U	F	0.16		FQ	G	STD
73005	WL	1/22/2020	RFS01-10.2001020-004	79-34-5	1,1,2,2-Tetrachloroethane	N	0.21	ug/L	U	F	0.21		FQ	G	STD
73005	WL	1/22/2020	RFS01-10.2001020-004	79-00-5	1,1,2-Trichloroethane	N	0.27	ug/L	U	F	0.27		FQ	G	STD
73005	WL	1/22/2020	RFS01-10.2001020-004	75-35-4	1,1-Dichloroethene	N	0.23	ug/L	U	F	0.23		FQ	G	STD
73005	WL	1/22/2020	RFS01-10.2001020-004	120-82-1	1,2,4-Trichlorobenzene	N	0.21	ug/L	U	F	0.21		FQ	G	STD
73005	WL	1/22/2020	RFS01-10.2001020-004	95-50-1	1,2-Dichlorobenzene	N	0.15	ug/L	U	F	0.15		FQ	G	STD
73005	WL	1/22/2020	RFS01-10.2001020-004	107-06-2	1,2-Dichloroethane	N	0.13	ug/L	U	F	0.13		FQ	G	STD
73005	WL	1/22/2020	RFS01-10.2001020-004	78-87-5	1,2-Dichloropropane	N	0.18	ug/L	U	F	0.18		FQ	G	STD
73005	WL	1/22/2020	RFS01-10.2001020-004	541-73-1	1,3-Dichlorobenzene	N	0.13	ug/L	U	F	0.13		FQ	G	STD
73005	WL	1/22/2020	RFS01-10.2001020-004	106-46-7	1,4-Dichlorobenzene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
73005	WL	1/22/2020	RFS01-10.2001020-004	7440-38-2	Arsenic	Y	0.33	ug/L	U	F	0.33		FQ	G	STD
73005	WL	1/22/2020	RFS01-10.2001020-004	71-43-2	Benzene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
73005	WL	1/22/2020	RFS01-10.2001020-004	7440-41-7	Beryllium	Y	0.081	ug/L	J	F	0.08		FQ	G	STD
73005	WL	1/22/2020	RFS01-10.2001020-004	7440-42-8	Boron	Y	40	ug/L		F	4.4		FQ	G	STD
73005	WL	1/22/2020	RFS01-10.2001020-004	75-25-2	Bromoform	N	0.46	ug/L	U	F	0.46		FQ	G	STD
73005	WL	1/22/2020	RFS01-10.2001020-004	7440-43-9	Cadmium	Y	0.27	ug/L	U	F	0.27		FQ	G	STD
73005	WL	1/22/2020	RFS01-10.2001020-004	56-23-5	Carbon tetrachloride	N	0.19	ug/L	U	F	0.19		FQ	G	STD

LOCATION_CODE	LOCATION_TYPE	DATE SAMPLED	SAMPLE CODE	CAS	ANALYTE	FILTRATION STATUS	RESULT	UNITS	LAB QUALIFIERS	SAMPLE TYPE	DETECTION LIMIT	UNCER-TAINTY	DATA VALIDATION QUALIFIERS	COLLECTION METHOD	LAB CODE
73005	WL	1/22/2020	RFS01-10.2001020-004	108-90-7	Chlorobenzene	N	0.17	ug/L	U	F	0.17		FQ	G	STD
73005	WL	1/22/2020	RFS01-10.2001020-004	67-66-3	Chloroform	N	0.16	ug/L	U	F	0.16		FQ	G	STD
73005	WL	1/22/2020	RFS01-10.2001020-004	74-87-3	Chloromethane	N	0.3	ug/L	U	F	0.3		FQ	G	STD
73005	WL	1/22/2020	RFS01-10.2001020-004	7440-47-3	Chromium	Y	0.81	ug/L	J	F	0.5		FQ	G	STD
73005	WL	1/22/2020	RFS01-10.2001020-004	156-59-2	cis-1,2-Dichloroethene	N	0.15	ug/L	U	F	0.15		FQ	G	STD
73005	WL	1/22/2020	RFS01-10.2001020-004	7440-50-8	Copper	Y	1.4	ug/L	J	F	0.56		FQ	G	STD
73005	WL	1/22/2020	RFS01-10.2001020-004	100-41-4	Ethylbenzene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
73005	WL	1/22/2020	RFS01-10.2001020-004	87-68-3	Hexachlorobutadiene	N	0.36	ug/L	U	F	0.36		FQ	G	STD
73005	WL	1/22/2020	RFS01-10.2001020-004	7439-92-1	Lead	Y	0.18	ug/L	U	F	0.18		FJQ	G	STD
73005	WL	1/22/2020	RFS01-10.2001020-004	7439-97-6	Mercury	Y	0.035	ug/L	J B	F	0.027		FQU	G	STD
73005	WL	1/22/2020	RFS01-10.2001020-004	75-09-2	Methylene chloride	N	0.94	ug/L	U	F	0.94		FQ	G	STD
73005	WL	1/22/2020	RFS01-10.2001020-004	91-20-3	Naphthalene	N	0.22	ug/L	U	F	0.22		FQ	G	STD
73005	WL	1/22/2020	RFS01-10.2001020-004	7440-02-0	Nickel	Y	1.3	ug/L	J	F	0.3		FQ	G	STD
73005	WL	1/22/2020	RFS01-10.2001020-004	7782-49-2	Selenium	Y	6.5	ug/L		F	0.37		FQ	G	STD
73005	WL	1/22/2020	RFS01-10.2001020-004	7440-22-4	Silver	Y	0.038	ug/L	J	F	0.033		FQU	G	STD
73005	WL	1/22/2020	RFS01-10.2001020-004	100-42-5	Styrene	N	0.36	ug/L	U	F	0.36		FQ	G	STD
73005	WL	1/22/2020	RFS01-10.2001020-004	127-18-4	Tetrachloroethene	N	0.2	ug/L	U	F	0.2		FQ	G	STD
73005	WL	1/22/2020	RFS01-10.2001020-004	108-88-3	Toluene	N	0.17	ug/L	U	F	0.17		FQ	G	STD
73005	WL	1/22/2020	RFS01-10.2001020-004	1330-20-7	Total Xylenes	N	0.19	ug/L	U	F	0.19		FQ	G	STD
73005	WL	1/22/2020	RFS01-10.2001020-004	156-60-5	trans-1,2-Dichloroethene	N	0.15	ug/L	U	F	0.15		FQ	G	STD
73005	WL	1/22/2020	RFS01-10.2001020-004	79-01-6	Trichloroethene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
73005	WL	1/22/2020	RFS01-10.2001020-004	7440-61-1	Uranium	Y	40	ug/L		F	0.05		FQ	G	STD
73005	WL	1/22/2020	RFS01-10.2001020-004	75-01-4	Vinyl chloride	N	0.1	ug/L	U	F	0.1		FQ	G	STD
73005	WL	1/22/2020	RFS01-10.2001020-004	7440-66-6	Zinc	Y	5.4	ug/L	J	F	2		FQ	G	STD
73105	WL	1/24/2020	RFS01-10.2001020-005	71-55-6	1,1,1-Trichloroethane	N	0.16	ug/L	U	F	0.16		FQ	G	STD
73105	WL	1/24/2020	RFS01-10.2001020-005	79-34-5	1,1,2,2-Tetrachloroethane	N	0.21	ug/L	U	F	0.21		FQ	G	STD
73105	WL	1/24/2020	RFS01-10.2001020-005	79-00-5	1,1,2-Trichloroethane	N	0.27	ug/L	U	F	0.27		FQ	G	STD
73105	WL	1/24/2020	RFS01-10.2001020-005	75-35-4	1,1-Dichloroethene	N	0.23	ug/L	U	F	0.23		FQ	G	STD
73105	WL	1/24/2020	RFS01-10.2001020-005	120-82-1	1,2,4-Trichlorobenzene	N	0.21	ug/L	U	F	0.21		FQ	G	STD
73105	WL	1/24/2020	RFS01-10.2001020-005	95-50-1	1,2-Dichlorobenzene	N	0.15	ug/L	U	F	0.15		FQ	G	STD
73105	WL	1/24/2020	RFS01-10.2001020-005	107-06-2	1,2-Dichloroethane	N	0.13	ug/L	U	F	0.13		FQ	G	STD
73105	WL	1/24/2020	RFS01-10.2001020-005	78-87-5	1,2-Dichloropropane	N	0.18	ug/L	U	F	0.18		FQ	G	STD
73105	WL	1/24/2020	RFS01-10.2001020-005	541-73-1	1,3-Dichlorobenzene	N	0.13	ug/L	U	F	0.13		FQ	G	STD
73105	WL	1/24/2020	RFS01-10.2001020-005	106-46-7	1,4-Dichlorobenzene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
73105	WL	1/24/2020	RFS01-10.2001020-005	7440-38-2	Arsenic	Y	0.33	ug/L	U	F	0.33		FQ	G	STD
73105	WL	1/24/2020	RFS01-10.2001020-005	71-43-2	Benzene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
73105	WL	1/24/2020	RFS01-10.2001020-005	7440-41-7	Beryllium	Y	0.08	ug/L	U	F	0.08		FQ	G	STD
73105	WL	1/24/2020	RFS01-10.2001020-005	7440-42-8	Boron	Y	110	ug/L		F	4.4		FQ	G	STD
73105	WL	1/24/2020	RFS01-10.2001020-005	75-25-2	Bromoform	N	0.46	ug/L	U	F	0.46		FQ	G	STD
73105	WL	1/24/2020	RFS01-10.2001020-005	7440-43-9	Cadmium	Y	0.27	ug/L	U	F	0.27		FQ	G	STD
73105	WL	1/24/2020	RFS01-10.2001020-005	56-23-5	Carbon tetrachloride	N	0.19	ug/L	U	F	0.19		FQ	G	STD
73105	WL	1/24/2020	RFS01-10.2001020-005	108-90-7	Chlorobenzene	N	0.17	ug/L	U	F	0.17		FQ	G	STD
73105	WL	1/24/2020	RFS01-10.2001020-005	67-66-3	Chloroform	N	0.16	ug/L	U	F	0.16		FQ	G	STD
73105	WL	1/24/2020	RFS01-10.2001020-005	74-87-3	Chloromethane	N	0.3	ug/L	U	F	0.3		FQ	G	STD
73105	WL	1/24/2020	RFS01-10.2001020-005	7440-47-3	Chromium	Y	0.5	ug/L	U	F	0.5		FQ	G	STD
73105	WL	1/24/2020	RFS01-10.2001020-005	156-59-2	cis-1,2-Dichloroethene	N	0.15	ug/L	U	F	0.15		FQ	G	STD
73105	WL	1/24/2020	RFS01-10.2001020-005	7440-50-8	Copper	Y	0.56	ug/L	U	F	0.56		FQ	G	STD
73105	WL	1/24/2020	RFS01-10.2001020-005	100-41-4	Ethylbenzene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
73105	WL	1/24/2020	RFS01-10.2001020-005	87-68-3	Hexachlorobutadiene	N	0.36	ug/L	U	F	0.36		FQ	G	STD
73105	WL	1/24/2020	RFS01-10.2001020-005	7439-92-1	Lead	Y	0.18	ug/L	U	F	0.18		FJQ	G	STD
73105	WL	1/24/2020	RFS01-10.2001020-005	7439-97-6	Mercury	Y	0.035	ug/L	J B	F	0.027		FQU	G	STD
73105	WL	1/24/2020	RFS01-10.2001020-005	75-09-2	Methylene chloride	N	0.94	ug/L	U	F	0.94		FQ	G	STD
73105	WL	1/24/2020	RFS01-10.2001020-005	91-20-3	Naphthalene	N	0.22	ug/L	U	F	0.22		FQ	G	STD
73105	WL	1/24/2020	RFS01-10.2001020-005	7440-02-0	Nickel	Y	3.4	ug/L		F	0.3		FQ	G	STD
73105	WL	1/24/2020	RFS01-10.2001020-005	7782-49-2	Selenium	Y	0.37	ug/L	U	F	0.37		FQ	G	STD
73105	WL	1/24/2020	RFS01-10.2001020-005	7440-22-4	Silver	Y	0.046	ug/L	J	F	0.033		FQU	G	STD
73105	WL	1/24/2020	RFS01-10.2001020-005	100-42-5	Styrene	N	0.36	ug/L	U	F	0.36		FQ	G	STD
73105	WL	1/24/2020	RFS01-10.2001020-005	127-18-4	Tetrachloroethene	N	0.2	ug/L	U	F	0.2		FQ	G	STD
73105	WL	1/24/2020	RFS01-10.2001020-005	108-88-3	Toluene	N	0.17	ug/L	U	F	0.17		FQ	G	STD
73105	WL	1/24/2020	RFS01-10.2001020-005	1330-20-7	Total Xylenes	N	0.19	ug/L	U	F	0.19		FQ	G	STD
73105	WL	1/24/2020	RFS01-10.2001020-005	156-60-5	trans-1,2-Dichloroethene	N	0.15	ug/L	U	F	0.15		FQ	G	STD
73105	WL	1/24/2020	RFS01-10.2001020-005	79-01-6	Trichloroethene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
73105	WL	1/24/2020	RFS01-10.2001020-005	7440-61-1	Uranium	Y	20	ug/L		F	0.05		FQ	G	STD
73105	WL	1/24/2020	RFS01-10.2001020-005	75-01-4	Vinyl chloride	N	0.1	ug/L	U	F	0.1		FQ	G	STD
73105	WL	1/24/2020	RFS01-10.2001020-005	7440-66-6	Zinc	Y	5.8	ug/L	J	F	2		FQ	G	STD
73205	WL	1/24/2020	RFS01-10.2001020-006	71-55-6	1,1,1-Trichloroethane	N	0.16	ug/L	U	F	0.16		FQ	G	STD
73205	WL	1/24/2020	RFS01-10.2001020-006	79-34-5	1,1,2,2-Tetrachloroethane	N	0.21	ug/L	U	F	0.21		FQ	G	STD
73205	WL	1/24/2020	RFS01-10.2001020-006	79-00-5	1,1,2-Trichloroethane	N	0.27	ug/L	U	F	0.27		FQ	G	STD
73205	WL	1/24/2020	RFS01-10.2001020-006	75-35-4	1,1-Dichloroethene	N	0.23	ug/L	U	F	0.23		FQ	G	STD
73205	WL	1/24/2020	RFS01-10.2001020-006	120-82-1	1,2,4-Trichlorobenzene	N	0.21	ug/L	U	F	0.21		FQ	G	STD

Appendix B
Analytical Results for Water Samples—First Quarter CY 2020
RFLMA Data

LOCATION_CODE	LOCATION_TYPE	DATE SAMPLED	SAMPLE CODE	CAS	ANALYTE	FILTRATION STATUS	RESULT	UNITS	LAB QUALIFIERS	SAMPLE TYPE	DETECTION LIMIT	UNCER-TAINTY	DATA VALIDATION QUALIFIERS	COLLECTION METHOD	LAB CODE
73205	WL	1/24/2020	RFS01-10.2001020-006	95-50-1	1,2-Dichlorobenzene	N	0.15	ug/L	U	F	0.15		FQ	G	STD
73205	WL	1/24/2020	RFS01-10.2001020-006	107-06-2	1,2-Dichloroethane	N	0.13	ug/L	U	F	0.13		FQ	G	STD
73205	WL	1/24/2020	RFS01-10.2001020-006	78-87-5	1,2-Dichloropropane	N	0.18	ug/L	U	F	0.18		FQ	G	STD
73205	WL	1/24/2020	RFS01-10.2001020-006	541-73-1	1,3-Dichlorobenzene	N	0.13	ug/L	U	F	0.13		FQ	G	STD
73205	WL	1/24/2020	RFS01-10.2001020-006	106-46-7	1,4-Dichlorobenzene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
73205	WL	1/24/2020	RFS01-10.2001020-006	7440-38-2	Arsenic	Y	0.33	ug/L	U	F	0.33		FQ	G	STD
73205	WL	1/24/2020	RFS01-10.2001020-006	71-43-2	Benzene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
73205	WL	1/24/2020	RFS01-10.2001020-006	7440-41-7	Beryllium	Y	0.08	ug/L	U	F	0.08		FQ	G	STD
73205	WL	1/24/2020	RFS01-10.2001020-006	7440-42-8	Boron	Y	63	ug/L		F	4.4		FQ	G	STD
73205	WL	1/24/2020	RFS01-10.2001020-006	75-25-2	Bromoform	N	0.46	ug/L	U	F	0.46		FQ	G	STD
73205	WL	1/24/2020	RFS01-10.2001020-006	7440-43-9	Cadmium	Y	0.27	ug/L	U	F	0.27		FQ	G	STD
73205	WL	1/24/2020	RFS01-10.2001020-006	56-23-5	Carbon tetrachloride	N	0.19	ug/L	U	F	0.19		FQ	G	STD
73205	WL	1/24/2020	RFS01-10.2001020-006	108-90-7	Chlorobenzene	N	0.17	ug/L	U	F	0.17		FQ	G	STD
73205	WL	1/24/2020	RFS01-10.2001020-006	67-66-3	Chloroform	N	0.16	ug/L	U	F	0.16		FQ	G	STD
73205	WL	1/24/2020	RFS01-10.2001020-006	74-87-3	Chloromethane	N	0.3	ug/L	U	F	0.3		FQ	G	STD
73205	WL	1/24/2020	RFS01-10.2001020-006	7440-47-3	Chromium	Y	0.5	ug/L	U	F	0.5		FQ	G	STD
73205	WL	1/24/2020	RFS01-10.2001020-006	156-59-2	cis-1,2-Dichloroethene	N	0.15	ug/L	U	F	0.15		FQ	G	STD
73205	WL	1/24/2020	RFS01-10.2001020-006	7440-50-8	Copper	Y	1.5	ug/L	J	F	0.56		FQ	G	STD
73205	WL	1/24/2020	RFS01-10.2001020-006	100-41-4	Ethylbenzene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
73205	WL	1/24/2020	RFS01-10.2001020-006	87-68-3	Hexachlorobutadiene	N	0.36	ug/L	U	F	0.36		FQ	G	STD
73205	WL	1/24/2020	RFS01-10.2001020-006	7439-92-1	Lead	Y	0.18	ug/L	U	F	0.18		FJQ	G	STD
73205	WL	1/24/2020	RFS01-10.2001020-006	7439-97-6	Mercury	Y	0.032	ug/L	J B	F	0.027		FQU	G	STD
73205	WL	1/24/2020	RFS01-10.2001020-006	75-09-2	Methylene chloride	N	0.94	ug/L	U	F	0.94		FQ	G	STD
73205	WL	1/24/2020	RFS01-10.2001020-006	91-20-3	Naphthalene	N	0.22	ug/L	U	F	0.22		FQ	G	STD
73205	WL	1/24/2020	RFS01-10.2001020-006	7440-02-0	Nickel	Y	1.3	ug/L	J	F	0.3		FQ	G	STD
73205	WL	1/24/2020	RFS01-10.2001020-006	7782-49-2	Selenium	Y	300	ug/L		F	0.37		FQ	G	STD
73205	WL	1/24/2020	RFS01-10.2001020-006	7440-22-4	Silver	Y	0.033	ug/L	U	F	0.033		FQ	G	STD
73205	WL	1/24/2020	RFS01-10.2001020-006	100-42-5	Styrene	N	0.36	ug/L	U	F	0.36		FQ	G	STD
73205	WL	1/24/2020	RFS01-10.2001020-006	127-18-4	Tetrachloroethene	N	0.2	ug/L	U	F	0.2		FQ	G	STD
73205	WL	1/24/2020	RFS01-10.2001020-006	108-88-3	Toluene	N	0.17	ug/L	U	F	0.17		FQ	G	STD
73205	WL	1/24/2020	RFS01-10.2001020-006	1330-20-7	Total Xylenes	N	0.19	ug/L	U	F	0.19		FQ	G	STD
73205	WL	1/24/2020	RFS01-10.2001020-006	156-60-5	trans-1,2-Dichloroethene	N	0.15	ug/L	U	F	0.15		FQ	G	STD
73205	WL	1/24/2020	RFS01-10.2001020-006	79-01-6	Trichloroethene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
73205	WL	1/24/2020	RFS01-10.2001020-006	7440-61-1	Uranium	Y	110	ug/L		F	0.05		FQ	G	STD
73205	WL	1/24/2020	RFS01-10.2001020-006	75-01-4	Vinyl chloride	N	0.1	ug/L	U	F	0.1		FQ	G	STD
73205	WL	1/24/2020	RFS01-10.2001020-006	7440-66-6	Zinc	Y	2.2	ug/L	J	F	2		FQ	G	STD
80005	WL	1/23/2020	RFS01-10.2001020-007	71-55-6	1,1,1-Trichloroethane	N	0.16	ug/L	U	F	0.16		FQ	G	STD
80005	WL	1/23/2020	RFS01-10.2001020-007	79-34-5	1,1,2,2-Tetrachloroethane	N	0.21	ug/L	U	F	0.21		FQ	G	STD
80005	WL	1/23/2020	RFS01-10.2001020-007	79-00-5	1,1,2-Trichloroethane	N	0.27	ug/L	U	F	0.27		FQ	G	STD
80005	WL	1/23/2020	RFS01-10.2001020-007	75-35-4	1,1-Dichloroethene	N	0.23	ug/L	U	F	0.23		FQ	G	STD
80005	WL	1/23/2020	RFS01-10.2001020-007	120-82-1	1,2,4-Trichlorobenzene	N	0.21	ug/L	U	F	0.21		FQ	G	STD
80005	WL	1/23/2020	RFS01-10.2001020-007	120-82-1	1,2,4-Trichlorobenzene	N	0.57	ug/L	U	F	0.57		FQ	G	STD
80005	WL	1/23/2020	RFS01-10.2001020-007	95-50-1	1,2-Dichlorobenzene	N	0.15	ug/L	U	F	0.15		FQ	G	STD
80005	WL	1/23/2020	RFS01-10.2001020-007	95-50-1	1,2-Dichlorobenzene	N	0.22	ug/L	U	F	0.22		FQ	G	STD
80005	WL	1/23/2020	RFS01-10.2001020-007	107-06-2	1,2-Dichloroethane	N	0.13	ug/L	U	F	0.13		FQ	G	STD
80005	WL	1/23/2020	RFS01-10.2001020-007	78-87-5	1,2-Dichloropropane	N	0.18	ug/L	U	F	0.18		FQ	G	STD
80005	WL	1/23/2020	RFS01-10.2001020-007	541-73-1	1,3-Dichlorobenzene	N	0.13	ug/L	U	F	0.13		FQ	G	STD
80005	WL	1/23/2020	RFS01-10.2001020-007	541-73-1	1,3-Dichlorobenzene	N	0.29	ug/L	U	F	0.29		FQ	G	STD
80005	WL	1/23/2020	RFS01-10.2001020-007	106-46-7	1,4-Dichlorobenzene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
80005	WL	1/23/2020	RFS01-10.2001020-007	106-46-7	1,4-Dichlorobenzene	N	1.2	ug/L	U	F	1.2		FQ	G	STD
80005	WL	1/23/2020	RFS01-10.2001020-007	91-58-7	2-Chloronaphthalene	N	0.25	ug/L	U	F	0.25		FQ	G	STD
80005	WL	1/23/2020	RFS01-10.2001020-007	83-32-9	Acenaphthene	N	0.27	ug/L	U	F	0.27		FQ	G	STD
80005	WL	1/23/2020	RFS01-10.2001020-008	83-32-9	Acenaphthene	N	0.011	ug/L	U	F	0.011		FQ	G	STD
80005	WL	1/23/2020	RFS01-10.2001020-007	120-12-7	Anthracene	N	0.41	ug/L	U	F	0.41		FQ	G	STD
80005	WL	1/23/2020	RFS01-10.2001020-008	120-12-7	Anthracene	N	0.014	ug/L	U	F	0.014		FQ	G	STD
80005	WL	1/23/2020	RFS01-10.2001020-007	7440-38-2	Arsenic	Y	0.33	ug/L	U	F	0.33		FQ	G	STD
80005	WL	1/23/2020	RFS01-10.2001020-007	71-43-2	Benzene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
80005	WL	1/23/2020	RFS01-10.2001020-007	50-32-8	Benzo(a)pyrene	N	0.3	ug/L	U	F	0.3		FQ	G	STD
80005	WL	1/23/2020	RFS01-10.2001020-008	50-32-8	Benzo(a)pyrene	N	0.026	ug/L	B	F	0.0052		FQU	G	STD
80005	WL	1/23/2020	RFS01-10.2001020-007	191-24-2	Benzo(g,h,i)Perylene	N	0.49	ug/L	U	F	0.49		FQ	G	STD
80005	WL	1/23/2020	RFS01-10.2001020-008	191-24-2	Benzo(g,h,i)Perylene	N	0.039	ug/L	B	F	0.0082		FQU	G	STD
80005	WL	1/23/2020	RFS01-10.2001020-007	7440-41-7	Beryllium	Y	0.08	ug/L	U	F	0.08		FQ	G	STD
80005	WL	1/23/2020	RFS01-10.2001020-007	108-60-1	Bis(2-chloroisopropyl) ether	N	0.27	ug/L	U	F	0.27		FQ	G	STD
80005	WL	1/23/2020	RFS01-10.2001020-007	117-81-7	Bis(2-ethylhexyl) phthalate	N	0.55	ug/L	U	F	0.55		FQ	G	STD
80005	WL	1/23/2020	RFS01-10.2001020-007	7440-42-8	Boron	Y	48	ug/L		F	4.4		FQ	G	STD
80005	WL	1/23/2020	RFS01-10.2001020-007	75-25-2	Bromoform	N	0.46	ug/L	U	F	0.46		FQ	G	STD
80005	WL	1/23/2020	RFS01-10.2001020-007	7440-43-9	Cadmium	Y	0.27	ug/L	U	F	0.27		FQ	G	STD
80005	WL	1/23/2020	RFS01-10.2001020-007	7440-43-9	Cadmium	Y	0.27	ug/L	U	F	0.27		R	G	STD
80005	WL	1/23/2020	RFS01-10.2001020-007	56-23-5	Carbon tetrachloride	N	0.19	ug/L	U	F	0.19		FQ	G	STD
80005	WL	1/23/2020	RFS01-10.2001020-007	108-90-7	Chlorobenzene	N	0.17	ug/L	U	F	0.17		FQ	G	STD

LOCATION_CODE	LOCATION_TYPE	DATE SAMPLED	SAMPLE CODE	CAS	ANALYTE	FILTRATION STATUS	RESULT	UNITS	LAB QUALIFIERS	SAMPLE TYPE	DETECTION LIMIT	UNCER-TAINTY	DATA VALIDATION QUALIFIERS	COLLECTION METHOD	LAB CODE
80005	WL	1/23/2020	RFS01-10.2001020-007	67-66-3	Chloroform	N	0.16	ug/L	U	F	0.16		FQ	G	STD
80005	WL	1/23/2020	RFS01-10.2001020-007	74-87-3	Chloromethane	N	0.3	ug/L	U	F	0.3		FQ	G	STD
80005	WL	1/23/2020	RFS01-10.2001020-007	7440-47-3	Chromium	Y	0.5	ug/L	U	F	0.5		FQ	G	STD
80005	WL	1/23/2020	RFS01-10.2001020-007	218-01-9	Chrysene	N	0.53	ug/L	U	F	0.53		FQ	G	STD
80005	WL	1/23/2020	RFS01-10.2001020-008	218-01-9	Chrysene	N	0.054	ug/L	B	F	0.012		FQU	G	STD
80005	WL	1/23/2020	RFS01-10.2001020-007	156-59-2	cis-1,2-Dichloroethene	N	0.15	ug/L	U	F	0.15		FQ	G	STD
80005	WL	1/23/2020	RFS01-10.2001020-007	7440-50-8	Copper	Y	0.56	ug/L	U	F	0.56		FQ	G	STD
80005	WL	1/23/2020	RFS01-10.2001020-007	7440-50-8	Copper	Y	30	ug/L		F	0.56		R	G	STD
80005	WL	1/23/2020	RFS01-10.2001020-007	53-70-3	Dibenz(a,h)anthracene	N	0.5	ug/L	U	F	0.5		FQ	G	STD
80005	WL	1/23/2020	RFS01-10.2001020-008	53-70-3	Dibenz(a,h)anthracene	N	0.048	ug/L	B	F	0.0048		FQU	G	STD
80005	WL	1/23/2020	RFS01-10.2001020-007	84-66-2	Diethyl phthalate	N	0.37	ug/L	U	F	0.37		FQ	G	STD
80005	WL	1/23/2020	RFS01-10.2001020-007	131-11-3	Dimethyl phthalate	N	0.2	ug/L	U	F	0.2		FQ	G	STD
80005	WL	1/23/2020	RFS01-10.2001020-007	84-74-2	Di-n-butyl phthalate	N	1.1	ug/L	U	F	1.1		FQ	G	STD
80005	WL	1/23/2020	RFS01-10.2001020-007	100-41-4	Ethylbenzene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
80005	WL	1/23/2020	RFS01-10.2001020-007	206-44-0	Fluoranthene	N	0.19	ug/L	U	F	0.19		FQ	G	STD
80005	WL	1/23/2020	RFS01-10.2001020-008	206-44-0	Fluoranthene	N	0.039	ug/L	J B	F	0.035		FQU	G	STD
80005	WL	1/23/2020	RFS01-10.2001020-007	86-73-7	Fluorene	N	0.3	ug/L	U	F	0.3		FQ	G	STD
80005	WL	1/23/2020	RFS01-10.2001020-008	86-73-7	Fluorene	N	0.019	ug/L	U	F	0.019		FQ	G	STD
80005	WL	1/23/2020	RFS01-10.2001020-007	87-68-3	Hexachlorobutadiene	N	0.36	ug/L	U	F	0.36		FQ	G	STD
80005	WL	1/23/2020	RFS01-10.2001020-007	87-68-3	Hexachlorobutadiene	N	3.2	ug/L	U	F	3.2		FQ	G	STD
80005	WL	1/23/2020	RFS01-10.2001020-007	67-72-1	Hexachloroethane	N	0.96	ug/L	U	F	0.96		FQ	G	STD
80005	WL	1/23/2020	RFS01-10.2001020-007	78-59-1	Isophorone	N	0.2	ug/L	U	F	0.2		FQ	G	STD
80005	WL	1/23/2020	RFS01-10.2001020-007	7439-92-1	Lead	Y	0.18	ug/L	U	F	0.18		FJQ	G	STD
80005	WL	1/23/2020	RFS01-10.2001020-007	7439-92-1	Lead	Y	0.18	ug/L	U	F	0.18		R	G	STD
80005	WL	1/23/2020	RFS01-10.2001020-007	7439-97-6	Mercury	Y	0.03	ug/L	J B	F	0.027		FQU	G	STD
80005	WL	1/23/2020	RFS01-10.2001020-007	75-09-2	Methylene chloride	N	0.94	ug/L	U	F	0.94		FQ	G	STD
80005	WL	1/23/2020	RFS01-10.2001020-007	91-20-3	Naphthalene	N	0.22	ug/L	U	F	0.22		FQ	G	STD
80005	WL	1/23/2020	RFS01-10.2001020-007	91-20-3	Naphthalene	N	0.28	ug/L	U	F	0.28		FQ	G	STD
80005	WL	1/23/2020	RFS01-10.2001020-008	91-20-3	Naphthalene	N	0.0053	ug/L	U	F	0.0053		FQ	G	STD
80005	WL	1/23/2020	RFS01-10.2001020-007	7440-02-0	Nickel	Y	0.39	ug/L	J	F	0.3		FQ	G	STD
80005	WL	1/23/2020	RFS01-10.2001020-007	7440-02-0	Nickel	Y	0.59	ug/L	J	F	0.3		R	G	STD
80005	WL	1/23/2020	RFS01-10.2001020-007	129-00-0	Pyrene	N	0.36	ug/L	U	F	0.36		FQ	G	STD
80005	WL	1/23/2020	RFS01-10.2001020-008	129-00-0	Pyrene	N	0.035	ug/L	B	F	0.0081		FQ	G	STD
80005	WL	1/23/2020	RFS01-10.2001020-007	7782-49-2	Selenium	Y	0.65	ug/L	J	F	0.37		FQ	G	STD
80005	WL	1/23/2020	RFS01-10.2001020-007	7440-22-4	Silver	Y	0.064	ug/L	J	F	0.033		FQU	G	STD
80005	WL	1/23/2020	RFS01-10.2001020-007	7440-22-4	Silver	Y	0.033	ug/L	U	F	0.033		R	G	STD
80005	WL	1/23/2020	RFS01-10.2001020-007	100-42-5	Styrene	N	0.36	ug/L	U	F	0.36		FQ	G	STD
80005	WL	1/23/2020	RFS01-10.2001020-007	127-18-4	Tetrachloroethene	N	0.2	ug/L	U	F	0.2		FQ	G	STD
80005	WL	1/23/2020	RFS01-10.2001020-007	108-88-3	Toluene	N	0.17	ug/L	U	F	0.17		FQ	G	STD
80005	WL	1/23/2020	RFS01-10.2001020-007	1330-20-7	Total Xylenes	N	0.19	ug/L	U	F	0.19		FQ	G	STD
80005	WL	1/23/2020	RFS01-10.2001020-007	156-60-5	trans-1,2-Dichloroethene	N	0.15	ug/L	U	F	0.15		FQ	G	STD
80005	WL	1/23/2020	RFS01-10.2001020-007	79-01-6	Trichloroethene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
80005	WL	1/23/2020	RFS01-10.2001020-007	7440-61-1	Uranium	Y	6.4	ug/L		F	0.05		FQ	G	STD
80005	WL	1/23/2020	RFS01-10.2001020-007	75-01-4	Vinyl chloride	N	0.1	ug/L	U	F	0.1		FQ	G	STD
80005	WL	1/23/2020	RFS01-10.2001020-007	7440-66-6	Zinc	Y	2	ug/L	U	F	2		FQ	G	STD
80005	WL	1/23/2020	RFS01-10.2001020-007	7440-66-6	Zinc	Y	2	ug/L	U	F	2		R	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-009	71-55-6	1,1,1-Trichloroethane	N	0.16	ug/L	U	F	0.16		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-015	71-55-6	1,1,1-Trichloroethane	N	0.16	ug/L	U	D	0.16		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-009	79-34-5	1,1,2,2-Tetrachloroethane	N	0.21	ug/L	U	F	0.21		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-015	79-34-5	1,1,2,2-Tetrachloroethane	N	0.21	ug/L	U	D	0.21		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-009	79-00-5	1,1,2-Trichloroethane	N	0.27	ug/L	U	F	0.27		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-015	79-00-5	1,1,2-Trichloroethane	N	0.27	ug/L	U	D	0.27		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-009	75-35-4	1,1-Dichloroethene	N	0.23	ug/L	U	F	0.23		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-015	75-35-4	1,1-Dichloroethene	N	0.23	ug/L	U	D	0.23		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-009	120-82-1	1,2,4-Trichlorobenzene	N	0.21	ug/L	U	F	0.21		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-009	120-82-1	1,2,4-Trichlorobenzene	N	0.56	ug/L	U	F	0.56		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-015	120-82-1	1,2,4-Trichlorobenzene	N	0.21	ug/L	U	D	0.21		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-015	120-82-1	1,2,4-Trichlorobenzene	N	0.57	ug/L	U	D	0.57		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-009	95-50-1	1,2-Dichlorobenzene	N	0.15	ug/L	U	F	0.15		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-009	95-50-1	1,2-Dichlorobenzene	N	0.22	ug/L	U	F	0.22		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-015	95-50-1	1,2-Dichlorobenzene	N	0.15	ug/L	U	D	0.15		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-015	95-50-1	1,2-Dichlorobenzene	N	0.22	ug/L	U	D	0.22		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-009	107-06-2	1,2-Dichloroethane	N	0.13	ug/L	U	F	0.13		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-015	107-06-2	1,2-Dichloroethane	N	0.13	ug/L	U	D	0.13		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-009	78-87-5	1,2-Dichloropropane	N	0.18	ug/L	U	F	0.18		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-015	78-87-5	1,2-Dichloropropane	N	0.18	ug/L	U	D	0.18		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-009	541-73-1	1,3-Dichlorobenzene	N	0.13	ug/L	U	F	0.13		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-009	541-73-1	1,3-Dichlorobenzene	N	0.28	ug/L	U	F	0.28		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-015	541-73-1	1,3-Dichlorobenzene	N	0.13	ug/L	U	D	0.13		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-015	541-73-1	1,3-Dichlorobenzene	N	0.29	ug/L	U	D	0.29		FQ	G	STD

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80105	WL	1/23/2020	RFS01-10.2001020-009	106-46-7	1,4-Dichlorobenzene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-009	106-46-7	1,4-Dichlorobenzene	N	1.2	ug/L	U	F	1.2		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-015	106-46-7	1,4-Dichlorobenzene	N	0.16	ug/L	U	D	0.16		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-015	106-46-7	1,4-Dichlorobenzene	N	1.2	ug/L	U	D	1.2		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-009	91-58-7	2-Chloronaphthalene	N	0.25	ug/L	U	F	0.25		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-015	91-58-7	2-Chloronaphthalene	N	0.25	ug/L	U	D	0.25		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-009	83-32-9	Acenaphthene	N	0.27	ug/L	U	F	0.27		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-010	83-32-9	Acenaphthene	N	0.01	ug/L	U	F	0.01		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-015	83-32-9	Acenaphthene	N	0.27	ug/L	U	D	0.27		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-016	83-32-9	Acenaphthene	N	0.01	ug/L	U	D	0.01		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-009	120-12-7	Anthracene	N	0.4	ug/L	U	F	0.4		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-010	120-12-7	Anthracene	N	0.014	ug/L	U	F	0.014		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-015	120-12-7	Anthracene	N	0.4	ug/L	U	D	0.4		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-016	120-12-7	Anthracene	N	0.014	ug/L	U	D	0.014		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-009	7440-38-2	Arsenic	Y	0.33	ug/L	U	F	0.33		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-015	7440-38-2	Arsenic	Y	0.33	ug/L	U	D	0.33		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-009	71-43-2	Benzene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-015	71-43-2	Benzene	N	0.16	ug/L	U	D	0.16		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-009	50-32-8	Benzo(a)pyrene	N	0.29	ug/L	U	F	0.29		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-010	50-32-8	Benzo(a)pyrene	N	0.0073	ug/L	J B	F	0.0049		FQU	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-015	50-32-8	Benzo(a)pyrene	N	0.3	ug/L	U	D	0.3		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-016	50-32-8	Benzo(a)pyrene	N	0.0049	ug/L	U	D	0.0049		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-009	191-24-2	Benzo(g,h,i)Perylene	N	0.47	ug/L	U	F	0.47		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-010	191-24-2	Benzo(g,h,i)Perylene	N	0.0078	ug/L	U	F	0.0078		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-015	191-24-2	Benzo(g,h,i)Perylene	N	0.48	ug/L	U	D	0.48		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-016	191-24-2	Benzo(g,h,i)Perylene	N	0.0078	ug/L	U	D	0.0078		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-009	7440-41-7	Beryllium	Y	0.08	ug/L	U	F	0.08		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-015	7440-41-7	Beryllium	Y	0.08	ug/L	U	D	0.08		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-009	108-60-1	Bis(2-chloroisopropyl) ether	N	0.27	ug/L	U	F	0.27		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-015	108-60-1	Bis(2-chloroisopropyl) ether	N	0.27	ug/L	U	D	0.27		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-009	117-81-7	Bis(2-ethylhexyl) phthalate	N	0.53	ug/L	U	F	0.53		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-015	117-81-7	Bis(2-ethylhexyl) phthalate	N	0.54	ug/L	U	D	0.54		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-009	7440-42-8	Boron	Y	140	ug/L		F	4.4		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-015	7440-42-8	Boron	Y	140	ug/L		D	4.4		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-009	75-25-2	Bromoform	N	0.46	ug/L	U	F	0.46		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-015	75-25-2	Bromoform	N	0.46	ug/L	U	D	0.46		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-009	7440-43-9	Cadmium	Y	0.27	ug/L	U	F	0.27		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-015	7440-43-9	Cadmium	Y	0.27	ug/L	U	D	0.27		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-009	56-23-5	Carbon tetrachloride	N	0.19	ug/L	U	F	0.19		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-015	56-23-5	Carbon tetrachloride	N	0.19	ug/L	U	D	0.19		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-009	108-90-7	Chlorobenzene	N	0.17	ug/L	U	F	0.17		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-015	108-90-7	Chlorobenzene	N	0.17	ug/L	U	D	0.17		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-009	67-66-3	Chloroform	N	0.16	ug/L	U	F	0.16		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-015	67-66-3	Chloroform	N	0.16	ug/L	U	D	0.16		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-009	74-87-3	Chloromethane	N	0.3	ug/L	U	F	0.3		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-015	74-87-3	Chloromethane	N	0.3	ug/L	U	D	0.3		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-009	7440-47-3	Chromium	Y	0.5	ug/L	U	F	0.5		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-015	7440-47-3	Chromium	Y	0.5	ug/L	U	D	0.5		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-009	218-01-9	Chrysene	N	0.51	ug/L	U	F	0.51		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-010	218-01-9	Chrysene	N	0.012	ug/L	U	F	0.012		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-015	218-01-9	Chrysene	N	0.52	ug/L	U	D	0.52		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-016	218-01-9	Chrysene	N	0.012	ug/L	J B	D	0.012		FQU	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-009	156-59-2	cis-1,2-Dichloroethene	N	0.15	ug/L	U	F	0.15		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-015	156-59-2	cis-1,2-Dichloroethene	N	0.15	ug/L	U	D	0.15		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-009	7440-50-8	Copper	Y	0.56	ug/L	U	F	0.56		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-015	7440-50-8	Copper	Y	0.56	ug/L	U	D	0.56		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-009	53-70-3	Dibenz(a,h)anthracene	N	0.48	ug/L	U	F	0.48		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-010	53-70-3	Dibenz(a,h)anthracene	N	0.0046	ug/L	U	F	0.0046		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-015	53-70-3	Dibenz(a,h)anthracene	N	0.49	ug/L	U	D	0.49		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-016	53-70-3	Dibenz(a,h)anthracene	N	0.0046	ug/L	U	D	0.0046		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-009	84-66-2	Diethyl phthalate	N	0.36	ug/L	U	F	0.36		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-015	84-66-2	Diethyl phthalate	N	0.37	ug/L	U	D	0.37		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-009	131-11-3	Dimethyl phthalate	N	0.2	ug/L	U	F	0.2		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-015	131-11-3	Dimethyl phthalate	N	0.2	ug/L	U	D	0.2		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-009	84-74-2	Di-n-butyl phthalate	N	1.1	ug/L	U	F	1.1		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-015	84-74-2	Di-n-butyl phthalate	N	1.1	ug/L	U	D	1.1		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-009	100-41-4	Ethylbenzene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-015	100-41-4	Ethylbenzene	N	0.16	ug/L	U	D	0.16		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-009	206-44-0	Fluoranthene	N	0.19	ug/L	U	F	0.19		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-010	206-44-0	Fluoranthene	N	0.033	ug/L	U	F	0.033		FQ	G	STD

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80105	WL	1/23/2020	RFS01-10.2001020-015	206-44-0	Fluoranthene	N	0.19	ug/L	U	D	0.19		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-016	206-44-0	Fluoranthene	N	0.033	ug/L	U	D	0.033		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-009	86-73-7	Fluorene	N	0.29	ug/L	U	F	0.29		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-010	86-73-7	Fluorene	N	0.018	ug/L	U	F	0.018		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-015	86-73-7	Fluorene	N	0.3	ug/L	U	D	0.3		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-016	86-73-7	Fluorene	N	0.018	ug/L	U	D	0.018		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-009	87-68-3	Hexachlorobutadiene	N	0.36	ug/L	U	F	0.36		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-009	87-68-3	Hexachlorobutadiene	N	3.1	ug/L	U	F	3.1		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-015	87-68-3	Hexachlorobutadiene	N	0.36	ug/L	U	D	0.36		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-015	87-68-3	Hexachlorobutadiene	N	3.2	ug/L	U	D	3.2		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-009	67-72-1	Hexachloroethane	N	0.93	ug/L	U	F	0.93		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-015	67-72-1	Hexachloroethane	N	0.94	ug/L	U	D	0.94		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-009	78-59-1	Isophorone	N	0.2	ug/L	U	F	0.2		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-015	78-59-1	Isophorone	N	0.2	ug/L	U	D	0.2		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-009	7439-92-1	Lead	Y	0.18	ug/L	U	F	0.18		FJQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-015	7439-92-1	Lead	Y	0.18	ug/L	U	D	0.18		FJQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-009	7439-97-6	Mercury	Y	0.035	ug/L	J B	F	0.027		FQU	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-015	7439-97-6	Mercury	Y	0.03	ug/L	J B	D	0.027		FQU	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-009	75-09-2	Methylene chloride	N	0.94	ug/L	U	F	0.94		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-015	75-09-2	Methylene chloride	N	0.94	ug/L	U	D	0.94		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-009	91-20-3	Naphthalene	N	0.22	ug/L	U	F	0.22		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-009	91-20-3	Naphthalene	N	0.28	ug/L	U	F	0.28		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-010	91-20-3	Naphthalene	N	0.0051	ug/L	U	F	0.0051		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-015	91-20-3	Naphthalene	N	0.22	ug/L	U	D	0.22		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-015	91-20-3	Naphthalene	N	0.28	ug/L	U	D	0.28		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-016	91-20-3	Naphthalene	N	0.0051	ug/L	U	D	0.0051		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-009	7440-02-0	Nickel	Y	0.31	ug/L	J	F	0.3		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-015	7440-02-0	Nickel	Y	0.3	ug/L	U	D	0.3		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-009	129-00-0	Pyrene	N	0.35	ug/L	U	F	0.35		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-010	129-00-0	Pyrene	N	0.025	ug/L	B	F	0.0078		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-015	129-00-0	Pyrene	N	0.36	ug/L	U	D	0.36		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-016	129-00-0	Pyrene	N	0.021	ug/L	B	D	0.0077		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-009	7782-49-2	Selenium	Y	0.37	ug/L	U	F	0.37		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-015	7782-49-2	Selenium	Y	0.37	ug/L	U	D	0.37		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-009	7440-22-4	Silver	Y	0.033	ug/L	U	F	0.033		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-015	7440-22-4	Silver	Y	0.033	ug/L	U	D	0.033		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-009	100-42-5	Styrene	N	0.36	ug/L	U	F	0.36		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-015	100-42-5	Styrene	N	0.36	ug/L	U	D	0.36		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-009	127-18-4	Tetrachloroethene	N	0.2	ug/L	U	F	0.2		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-015	127-18-4	Tetrachloroethene	N	0.2	ug/L	U	D	0.2		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-009	108-88-3	Toluene	N	0.17	ug/L	U	F	0.17		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-015	108-88-3	Toluene	N	0.17	ug/L	U	D	0.17		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-009	1330-20-7	Total Xylenes	N	0.19	ug/L	U	F	0.19		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-015	1330-20-7	Total Xylenes	N	0.19	ug/L	U	D	0.19		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-009	156-60-5	trans-1,2-Dichloroethene	N	0.15	ug/L	U	F	0.15		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-015	156-60-5	trans-1,2-Dichloroethene	N	0.15	ug/L	U	D	0.15		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-009	79-01-6	Trichloroethene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-015	79-01-6	Trichloroethene	N	0.16	ug/L	U	D	0.16		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-009	7440-61-1	Uranium	Y	9.2	ug/L		F	0.05		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-015	7440-61-1	Uranium	Y	9	ug/L		D	0.05		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-009	75-01-4	Vinyl chloride	N	0.1	ug/L	U	F	0.1		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-015	75-01-4	Vinyl chloride	N	0.1	ug/L	U	D	0.1		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-009	7440-66-6	Zinc	Y	2	ug/L	U	F	2		FQ	G	STD
80105	WL	1/23/2020	RFS01-10.2001020-015	7440-66-6	Zinc	Y	2	ug/L	U	D	2		FQ	G	STD
80205	WL	1/24/2020	RFS01-10.2001020-011	71-55-6	1,1,1-Trichloroethane	N	0.16	ug/L	U	F	0.16		FQ	G	STD
80205	WL	1/24/2020	RFS01-10.2001020-011	79-34-5	1,1,2,2-Tetrachloroethane	N	0.21	ug/L	U	F	0.21		FQ	G	STD
80205	WL	1/24/2020	RFS01-10.2001020-011	79-00-5	1,1,2-Trichloroethane	N	0.27	ug/L	U	F	0.27		FQ	G	STD
80205	WL	1/24/2020	RFS01-10.2001020-011	75-35-4	1,1-Dichloroethene	N	0.23	ug/L	U	F	0.23		FQ	G	STD
80205	WL	1/24/2020	RFS01-10.2001020-011	120-82-1	1,2,4-Trichlorobenzene	N	0.21	ug/L	U	F	0.21		FQ	G	STD
80205	WL	1/24/2020	RFS01-10.2001020-011	120-82-1	1,2,4-Trichlorobenzene	N	0.57	ug/L	U	F	0.57		FQ	G	STD
80205	WL	1/24/2020	RFS01-10.2001020-011	95-50-1	1,2-Dichlorobenzene	N	0.15	ug/L	U	F	0.15		FQ	G	STD
80205	WL	1/24/2020	RFS01-10.2001020-011	95-50-1	1,2-Dichlorobenzene	N	0.22	ug/L	U	F	0.22		FQ	G	STD
80205	WL	1/24/2020	RFS01-10.2001020-011	107-06-2	1,2-Dichloroethane	N	0.13	ug/L	U	F	0.13		FQ	G	STD
80205	WL	1/24/2020	RFS01-10.2001020-011	78-87-5	1,2-Dichloropropane	N	0.18	ug/L	U	F	0.18		FQ	G	STD
80205	WL	1/24/2020	RFS01-10.2001020-011	541-73-1	1,3-Dichlorobenzene	N	0.13	ug/L	U	F	0.13		FQ	G	STD
80205	WL	1/24/2020	RFS01-10.2001020-011	541-73-1	1,3-Dichlorobenzene	N	0.29	ug/L	U	F	0.29		FQ	G	STD
80205	WL	1/24/2020	RFS01-10.2001020-011	106-46-7	1,4-Dichlorobenzene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
80205	WL	1/24/2020	RFS01-10.2001020-011	106-46-7	1,4-Dichlorobenzene	N	1.2	ug/L	U	F	1.2		FQ	G	STD
80205	WL	1/24/2020	RFS01-10.2001020-011	91-58-7	2-Chloronaphthalene	N	0.25	ug/L	U	F	0.25		FQ	G	STD
80205	WL	1/24/2020	RFS01-10.2001020-011	83-32-9	Acenaphthene	N	0.27	ug/L	U	F	0.27		FQ	G	STD

LOCATION_CODE	LOCATION_TYPE	DATE SAMPLED	SAMPLE CODE	CAS	ANALYTE	FILTRATION STATUS	RESULT	UNITS	LAB QUALIFIERS	SAMPLE TYPE	DETECTION LIMIT	UNCER-TAINTY	DATA VALIDATION QUALIFIERS	COLLECTION METHOD	LAB CODE
80205	WL	1/24/2020	RFS01-10.2001020-012	83-32-9	Acenaphthene	N	0.011	ug/L	U	F	0.011		FQ	G	STD
80205	WL	1/24/2020	RFS01-10.2001020-011	120-12-7	Anthracene	N	0.4	ug/L	U	F	0.4		FQ	G	STD
80205	WL	1/24/2020	RFS01-10.2001020-012	120-12-7	Anthracene	N	0.014	ug/L	U	F	0.014		FQ	G	STD
80205	WL	1/24/2020	RFS01-10.2001020-011	7440-38-2	Arsenic	Y	0.33	ug/L	U	F	0.33		FQ	G	STD
80205	WL	1/24/2020	RFS01-10.2001020-011	71-43-2	Benzene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
80205	WL	1/24/2020	RFS01-10.2001020-011	50-32-8	Benzo(a)pyrene	N	0.3	ug/L	U	F	0.3		FQ	G	STD
80205	WL	1/24/2020	RFS01-10.2001020-012	50-32-8	Benzo(a)pyrene	N	0.019	ug/L	J B	F	0.005		FQU	G	STD
80205	WL	1/24/2020	RFS01-10.2001020-011	191-24-2	Benzo(g,h,i)Perylene	N	0.48	ug/L	U	F	0.48		FQ	G	STD
80205	WL	1/24/2020	RFS01-10.2001020-012	191-24-2	Benzo(g,h,i)Perylene	N	0.035	ug/L	B	F	0.008		FQU	G	STD
80205	WL	1/24/2020	RFS01-10.2001020-011	7440-41-7	Beryllium	Y	0.08	ug/L	U	F	0.08		FQ	G	STD
80205	WL	1/24/2020	RFS01-10.2001020-011	108-60-1	Bis(2-chloroisopropyl) ether	N	0.27	ug/L	U	F	0.27		FQ	G	STD
80205	WL	1/24/2020	RFS01-10.2001020-011	117-81-7	Bis(2-ethylhexyl) phthalate	N	0.54	ug/L	U	F	0.54		FQ	G	STD
80205	WL	1/24/2020	RFS01-10.2001020-011	7440-42-8	Boron	Y	68	ug/L		F	4.4		FQ	G	STD
80205	WL	1/24/2020	RFS01-10.2001020-011	75-25-2	Bromoform	N	0.46	ug/L	U	F	0.46		FQ	G	STD
80205	WL	1/24/2020	RFS01-10.2001020-011	7440-43-9	Cadmium	Y	0.27	ug/L	U	F	0.27		FQ	G	STD
80205	WL	1/24/2020	RFS01-10.2001020-011	56-23-5	Carbon tetrachloride	N	0.19	ug/L	U	F	0.19		FQ	G	STD
80205	WL	1/24/2020	RFS01-10.2001020-011	108-90-7	Chlorobenzene	N	0.17	ug/L	U	F	0.17		FQ	G	STD
80205	WL	1/24/2020	RFS01-10.2001020-011	67-66-3	Chloroform	N	0.16	ug/L	U	F	0.16		FQ	G	STD
80205	WL	1/24/2020	RFS01-10.2001020-011	74-87-3	Chloromethane	N	0.3	ug/L	U	F	0.3		FQ	G	STD
80205	WL	1/24/2020	RFS01-10.2001020-011	7440-47-3	Chromium	Y	0.5	ug/L	U	F	0.5		FQ	G	STD
80205	WL	1/24/2020	RFS01-10.2001020-011	218-01-9	Chrysene	N	0.52	ug/L	U	F	0.52		FQ	G	STD
80205	WL	1/24/2020	RFS01-10.2001020-012	218-01-9	Chrysene	N	0.038	ug/L	B	F	0.012		FQU	G	STD
80205	WL	1/24/2020	RFS01-10.2001020-011	156-59-2	cis-1,2-Dichloroethene	N	0.15	ug/L	U	F	0.15		FQ	G	STD
80205	WL	1/24/2020	RFS01-10.2001020-011	7440-50-8	Copper	Y	0.56	ug/L	U	F	0.56		FQ	G	STD
80205	WL	1/24/2020	RFS01-10.2001020-011	53-70-3	Dibenz(a,h)anthracene	N	0.49	ug/L	U	F	0.49		FQ	G	STD
80205	WL	1/24/2020	RFS01-10.2001020-012	53-70-3	Dibenz(a,h)anthracene	N	0.036	ug/L	B	F	0.0047		FQU	G	STD
80205	WL	1/24/2020	RFS01-10.2001020-011	84-66-2	Diethyl phthalate	N	0.36	ug/L	U	F	0.36		FQ	G	STD
80205	WL	1/24/2020	RFS01-10.2001020-011	131-11-3	Dimethyl phthalate	N	0.2	ug/L	U	F	0.2		FQ	G	STD
80205	WL	1/24/2020	RFS01-10.2001020-011	84-74-2	Di-n-butyl phthalate	N	1.1	ug/L	U	F	1.1		FQ	G	STD
80205	WL	1/24/2020	RFS01-10.2001020-011	100-41-4	Ethylbenzene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
80205	WL	1/24/2020	RFS01-10.2001020-011	206-44-0	Fluoranthene	N	0.19	ug/L	U	F	0.19		FQ	G	STD
80205	WL	1/24/2020	RFS01-10.2001020-012	206-44-0	Fluoranthene	N	0.04	ug/L	J B	F	0.034		FQU	G	STD
80205	WL	1/24/2020	RFS01-10.2001020-011	86-73-7	Fluorene	N	0.3	ug/L	U	F	0.3		FQ	G	STD
80205	WL	1/24/2020	RFS01-10.2001020-012	86-73-7	Fluorene	N	0.018	ug/L	U	F	0.018		FQ	G	STD
80205	WL	1/24/2020	RFS01-10.2001020-011	87-68-3	Hexachlorobutadiene	N	0.36	ug/L	U	F	0.36		FQ	G	STD
80205	WL	1/24/2020	RFS01-10.2001020-011	87-68-3	Hexachlorobutadiene	N	3.2	ug/L	U	F	3.2		FQ	G	STD
80205	WL	1/24/2020	RFS01-10.2001020-011	67-72-1	Hexachloroethane	N	0.94	ug/L	U	F	0.94		FQ	G	STD
80205	WL	1/24/2020	RFS01-10.2001020-011	78-59-1	Isophorone	N	0.2	ug/L	U	F	0.2		FQ	G	STD
80205	WL	1/24/2020	RFS01-10.2001020-011	7439-92-1	Lead	Y	0.18	ug/L	U	F	0.18		FJQ	G	STD
80205	WL	1/24/2020	RFS01-10.2001020-011	7439-97-6	Mercury	Y	0.027	ug/L	U	F	0.027		FQ	G	STD
80205	WL	1/24/2020	RFS01-10.2001020-011	75-09-2	Methylene chloride	N	0.94	ug/L	U	F	0.94		FQ	G	STD
80205	WL	1/24/2020	RFS01-10.2001020-011	91-20-3	Naphthalene	N	0.22	ug/L	U	F	0.22		FQ	G	STD
80205	WL	1/24/2020	RFS01-10.2001020-011	91-20-3	Naphthalene	N	0.28	ug/L	U	F	0.28		FQ	G	STD
80205	WL	1/24/2020	RFS01-10.2001020-012	91-20-3	Naphthalene	N	0.0052	ug/L	U	F	0.0052		FQ	G	STD
80205	WL	1/24/2020	RFS01-10.2001020-011	7440-02-0	Nickel	Y	2.2	ug/L		F	0.3		FQ	G	STD
80205	WL	1/24/2020	RFS01-10.2001020-011	129-00-0	Pyrene	N	0.36	ug/L	U	F	0.36		FQ	G	STD
80205	WL	1/24/2020	RFS01-10.2001020-012	129-00-0	Pyrene	N	0.035	ug/L	B	F	0.0079		FQ	G	STD
80205	WL	1/24/2020	RFS01-10.2001020-011	7782-49-2	Selenium	Y	0.57	ug/L	J	F	0.37		FQ	G	STD
80205	WL	1/24/2020	RFS01-10.2001020-011	7440-22-4	Silver	Y	0.046	ug/L	J	F	0.033		FQU	G	STD
80205	WL	1/24/2020	RFS01-10.2001020-011	100-42-5	Styrene	N	0.36	ug/L	U	F	0.36		FQ	G	STD
80205	WL	1/24/2020	RFS01-10.2001020-011	127-18-4	Tetrachloroethene	N	0.2	ug/L	U	F	0.2		FQ	G	STD
80205	WL	1/24/2020	RFS01-10.2001020-011	108-88-3	Toluene	N	0.17	ug/L	U	F	0.17		FQ	G	STD
80205	WL	1/24/2020	RFS01-10.2001020-011	1330-20-7	Total Xylenes	N	0.19	ug/L	U	F	0.19		FQ	G	STD
80205	WL	1/24/2020	RFS01-10.2001020-011	156-60-5	trans-1,2-Dichloroethene	N	0.15	ug/L	U	F	0.15		FQ	G	STD
80205	WL	1/24/2020	RFS01-10.2001020-011	79-01-6	Trichloroethene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
80205	WL	1/24/2020	RFS01-10.2001020-011	7440-61-1	Uranium	Y	45	ug/L		F	0.05		FQ	G	STD
80205	WL	1/24/2020	RFS01-10.2001020-011	75-01-4	Vinyl chloride	N	0.1	ug/L	U	F	0.1		FQ	G	STD
80205	WL	1/24/2020	RFS01-10.2001020-011	7440-66-6	Zinc	Y	2	ug/L	U	F	2		FQ	G	STD
GS05	SL	1/2/2020	RFS01-01.2003025-003	7440-38-2	Arsenic	N	2.06	ug/L	B	F	2			C	GEN
GS05	SL	1/2/2020	RFS01-01.2003025-003	7440-41-7	Beryllium	N	0.2	ug/L	U	F	0.2			C	GEN
GS05	SL	1/2/2020	RFS01-01.2003025-003	7440-42-8	Boron	N	20.6	ug/L		F	5.2		J	C	GEN
GS05	SL	1/2/2020	RFS01-01.2003025-002	7440-43-9	Cadmium	Y	0.3	ug/L	U	F	0.3			C	GEN
GS05	SL	1/2/2020	RFS01-01.2003025-003	7440-47-3	Chromium	N	3	ug/L	U	F	3			C	GEN
GS05	SL	1/2/2020	RFS01-01.2003025-002	7440-50-8	Copper	Y	2.19	ug/L	B	F	0.3			C	GEN
GS05	SL	1/2/2020	RFS01-01.2003025-002	7439-92-1	Lead	Y	0.5	ug/L	U	F	0.5			C	GEN
GS05	SL	1/2/2020	RFS01-01.2003025-002	7440-02-0	Nickel	Y	1.4	ug/L	B	F	0.6			C	GEN
GS05	SL	1/2/2020	RFS01-01.2003025-003	7782-49-2	Selenium	N	2	ug/L	U	F	2			C	GEN
GS05	SL	1/2/2020	RFS01-01.2003025-002	7440-22-4	Silver	Y	0.3	ug/L	U	F	0.3			C	GEN
GS05	SL	1/2/2020	RFS01-01.2003025-003	7440-61-1	Uranium	N	0.991	ug/L	B	F	0.067			C	GEN
GS05	SL	1/2/2020	RFS01-01.2003025-002	7440-66-6	Zinc	Y	3.67	ug/L	B	F	3.3		U	C	GEN

LOCATION_CODE	LOCATION_TYPE	DATE SAMPLED	SAMPLE CODE	CAS	ANALYTE	FILTRATION STATUS	RESULT	UNITS	LAB QUALIFIERS	SAMPLE TYPE	DETECTION LIMIT	UNCER-TAINTY	DATA VALIDATION QUALIFIERS	COLLECTION METHOD	LAB CODE
GS05	SL	1/8/2020	RFS01-02.2001022-001	71-55-6	1,1,1-Trichloroethane	N	0.16	ug/L	U	F	0.16			G	STD
GS05	SL	1/8/2020	RFS01-02.2001022-001	79-34-5	1,1,2,2-Tetrachloroethane	N	0.21	ug/L	U	F	0.21			G	STD
GS05	SL	1/8/2020	RFS01-02.2001022-001	79-00-5	1,1,2-Trichloroethane	N	0.27	ug/L	U	F	0.27			G	STD
GS05	SL	1/8/2020	RFS01-02.2001022-001	75-35-4	1,1-Dichloroethene	N	0.23	ug/L	U	F	0.23			G	STD
GS05	SL	1/8/2020	RFS01-02.2001022-001	120-82-1	1,2,4-Trichlorobenzene	N	0.21	ug/L	U	F	0.21			G	STD
GS05	SL	1/8/2020	RFS01-02.2001022-001	95-50-1	1,2-Dichlorobenzene	N	0.15	ug/L	U	F	0.15			G	STD
GS05	SL	1/8/2020	RFS01-02.2001022-001	107-06-2	1,2-Dichloroethane	N	0.13	ug/L	U	F	0.13			G	STD
GS05	SL	1/8/2020	RFS01-02.2001022-001	78-87-5	1,2-Dichloropropane	N	0.18	ug/L	U	F	0.18			G	STD
GS05	SL	1/8/2020	RFS01-02.2001022-001	541-73-1	1,3-Dichlorobenzene	N	0.13	ug/L	U	F	0.13			G	STD
GS05	SL	1/8/2020	RFS01-02.2001022-001	106-46-7	1,4-Dichlorobenzene	N	0.16	ug/L	U	F	0.16			G	STD
GS05	SL	1/8/2020	RFS01-02.2001022-001	71-43-2	Benzene	N	0.16	ug/L	U	F	0.16			G	STD
GS05	SL	1/8/2020	RFS01-02.2001022-001	75-25-2	Bromoform	N	0.46	ug/L	U	F	0.46			G	STD
GS05	SL	1/8/2020	RFS01-02.2001022-001	56-23-5	Carbon tetrachloride	N	0.19	ug/L	U	F	0.19			G	STD
GS05	SL	1/8/2020	RFS01-02.2001022-001	108-90-7	Chlorobenzene	N	0.17	ug/L	U	F	0.17			G	STD
GS05	SL	1/8/2020	RFS01-02.2001022-001	67-66-3	Chloroform	N	0.16	ug/L	U	F	0.16			G	STD
GS05	SL	1/8/2020	RFS01-02.2001022-001	74-87-3	Chloromethane	N	0.3	ug/L	U	F	0.3			G	STD
GS05	SL	1/8/2020	RFS01-02.2001022-001	156-59-2	cis-1,2-Dichloroethene	N	0.15	ug/L	U	F	0.15			G	STD
GS05	SL	1/8/2020	RFS01-02.2001022-001	100-41-4	Ethylbenzene	N	0.16	ug/L	U	F	0.16			G	STD
GS05	SL	1/8/2020	RFS01-02.2001022-001	87-68-3	Hexachlorobutadiene	N	0.36	ug/L	U	F	0.36			G	STD
GS05	SL	1/8/2020	RFS01-02.2001022-001	7439-97-6	Mercury	N	0.027	ug/L	U	F	0.027			G	STD
GS05	SL	1/8/2020	RFS01-02.2001022-001	75-09-2	Methylene chloride	N	0.94	ug/L	U	F	0.94			G	STD
GS05	SL	1/8/2020	RFS01-02.2001022-001	91-20-3	Naphthalene	N	0.22	ug/L	U	F	0.22			G	STD
GS05	SL	1/8/2020	RFS01-02.2001022-001	100-42-5	Styrene	N	0.36	ug/L	U	F	0.36			G	STD
GS05	SL	1/8/2020	RFS01-02.2001022-001	127-18-4	Tetrachloroethene	N	0.2	ug/L	U	F	0.2			G	STD
GS05	SL	1/8/2020	RFS01-02.2001022-001	108-88-3	Toluene	N	0.17	ug/L	U	F	0.17			G	STD
GS05	SL	1/8/2020	RFS01-02.2001022-001	1330-20-7	Total Xylenes	N	0.19	ug/L	U	F	0.19			G	STD
GS05	SL	1/8/2020	RFS01-02.2001022-001	156-60-5	trans-1,2-Dichloroethene	N	0.15	ug/L	U	F	0.15			G	STD
GS05	SL	1/8/2020	RFS01-02.2001022-001	79-01-6	Trichloroethene	N	0.16	ug/L	U	F	0.16			G	STD
GS05	SL	1/8/2020	RFS01-02.2001022-001	75-01-4	Vinyl chloride	N	0.1	ug/L	U	F	0.1			G	STD
GS05	SL	3/13/2020	RFS01-13.2003033-012	7440-38-2	Arsenic	N	2.66	ug/L	B	F	2			C	GEN
GS05	SL	3/13/2020	RFS01-13.2003033-012	7440-41-7	Beryllium	N	0.2	ug/L	U	F	0.2			C	GEN
GS05	SL	3/13/2020	RFS01-13.2003033-012	7440-42-8	Boron	N	14.1	ug/L	B	F	5.2			C	GEN
GS05	SL	3/13/2020	RFS01-13.2003033-011	7440-43-9	Cadmium	Y	0.3	ug/L	U	F	0.3			C	GEN
GS05	SL	3/13/2020	RFS01-13.2003033-012	7440-47-3	Chromium	N	3	ug/L	U	F	3			C	GEN
GS05	SL	3/13/2020	RFS01-13.2003033-011	7440-50-8	Copper	Y	1.51	ug/L	B	F	0.3			C	GEN
GS05	SL	3/13/2020	RFS01-13.2003033-011	7439-92-1	Lead	Y	0.5	ug/L	U	F	0.5			C	GEN
GS05	SL	3/13/2020	RFS01-13.2003033-011	7440-02-0	Nickel	Y	0.878	ug/L	B	F	0.6			C	GEN
GS05	SL	3/13/2020	RFS01-13.2003033-012	7782-49-2	Selenium	N	2	ug/L	U	F	2			C	GEN
GS05	SL	3/13/2020	RFS01-13.2003033-011	7440-22-4	Silver	Y	0.3	ug/L	U	F	0.3			C	GEN
GS05	SL	3/13/2020	RFS01-13.2003033-012	7440-61-1	Uranium	N	1.19	ug/L	B	F	0.067			C	GEN
GS05	SL	3/13/2020	RFS01-13.2003033-011	7440-66-6	Zinc	Y	6.24	ug/L	B	F	3.3			C	GEN
GS05	SL	3/23/2020	RFS01-13.2004039-012	7440-38-2	Arsenic	N	2	ug/L	U	F	2			C	GEN
GS05	SL	3/23/2020	RFS01-13.2004039-012	7440-41-7	Beryllium	N	0.2	ug/L	U	F	0.2			C	GEN
GS05	SL	3/23/2020	RFS01-13.2004039-012	7440-42-8	Boron	N	19.8	ug/L		F	5.2			C	GEN
GS05	SL	3/23/2020	RFS01-13.2004039-011	7440-43-9	Cadmium	Y	0.3	ug/L	U	F	0.3			C	GEN
GS05	SL	3/23/2020	RFS01-13.2004039-012	7440-47-3	Chromium	N	3	ug/L	U	F	3			C	GEN
GS05	SL	3/23/2020	RFS01-13.2004039-011	7440-50-8	Copper	Y	2.19	ug/L	B	F	0.3			C	GEN
GS05	SL	3/23/2020	RFS01-13.2004039-011	7439-92-1	Lead	Y	0.5	ug/L	U	F	0.5			C	GEN
GS05	SL	3/23/2020	RFS01-13.2004039-011	7440-02-0	Nickel	Y	1.74	ug/L	B	F	0.6			C	GEN
GS05	SL	3/23/2020	RFS01-13.2004039-012	7782-49-2	Selenium	N	2	ug/L	U	F	2			C	GEN
GS05	SL	3/23/2020	RFS01-13.2004039-011	7440-22-4	Silver	Y	0.3	ug/L	U	F	0.3			C	GEN
GS05	SL	3/23/2020	RFS01-13.2004039-012	7440-61-1	Uranium	N	0.773	ug/L	B	F	0.067			C	GEN
GS05	SL	3/23/2020	RFS01-13.2004039-011	7440-66-6	Zinc	Y	3.3	ug/L	U	F	3.3			C	GEN
GS10	SL	1/2/2020	RFS01-13.2001030-001	14596-10-2	Americium-241	N	0.00977	pCi/L	U	F		0.0115		C	GEN
GS10	SL	1/2/2020	RFS01-13.2001030-001	7440-41-7	Beryllium	N	1	ug/L	U	F	1			C	GEN
GS10	SL	1/2/2020	RFS01-13.2001030-001	7440-43-9	Cadmium	Y	0.3	ug/L	U	F	0.3			C	GEN
GS10	SL	1/2/2020	RFS01-13.2001030-001	7440-47-3	Chromium	N	1	ug/L	U	F	1			C	GEN
GS10	SL	1/2/2020	RFS01-13.2001030-001	PU-239,240	Plutonium-239, 240	N	0.00665	pCi/L	U	F		0.00755		C	GEN
GS10	SL	1/2/2020	RFS01-13.2001030-001	7440-22-4	Silver	Y	0.3	ug/L	U	F	0.3			C	GEN
GS10	SL	1/2/2020	RFS01-13.2001030-001	7440-61-1	Uranium	N	31.3	ug/L		F	0.067			C	GEN
GS10	SL	1/28/2020	RFS01-13.2002031-001	14596-10-2	Americium-241	N	0.0194	pCi/L	U	F		0.0493		C	GEN
GS10	SL	1/28/2020	RFS01-13.2002031-001	7440-41-7	Beryllium	N	1	ug/L	U	F	1			C	GEN
GS10	SL	1/28/2020	RFS01-13.2002031-001	7440-43-9	Cadmium	Y	0.3	ug/L	U	F	0.3			C	GEN
GS10	SL	1/28/2020	RFS01-13.2002031-001	7440-47-3	Chromium	N	1.07	ug/L	B	F	1			C	GEN
GS10	SL	1/28/2020	RFS01-13.2002031-001	PU-239,240	Plutonium-239, 240	N	0.00376	pCi/L	U	F		0.0221		C	GEN
GS10	SL	1/28/2020	RFS01-13.2002031-001	7440-22-4	Silver	Y	0.3	ug/L	U	F	0.3			C	GEN
GS10	SL	1/28/2020	RFS01-13.2002031-001	7440-61-1	Uranium	N	19.9	ug/L		F	0.067			C	GEN
GS10	SL	2/20/2020	RFS01-13.2003032-001	14596-10-2	Americium-241	N	0.00213	pCi/L	U	F		0.0139		C	GEN
GS10	SL	2/20/2020	RFS01-13.2003032-001	7440-41-7	Beryllium	N	1	ug/L	U	F	1			C	GEN
GS10	SL	2/20/2020	RFS01-13.2003032-001	7440-43-9	Cadmium	Y	0.3	ug/L	U	F	0.3			C	GEN

Appendix B
Analytical Results for Water Samples—First Quarter CY 2020
RFLMA Data

LOCATION_CODE	LOCATION_TYPE	DATE SAMPLED	SAMPLE CODE	CAS	ANALYTE	FILTRATION STATUS	RESULT	UNITS	LAB QUALIFIERS	SAMPLE TYPE	DETECTION LIMIT	UNCER-TAINTY	DATA VALIDATION QUALIFIERS	COLLECTION METHOD	LAB CODE
GS10	SL	2/20/2020	RFS01-13.2003032-001	7440-47-3	Chromium	N	1	ug/L	U	F	1			C	GEN
GS10	SL	2/20/2020	RFS01-13.2003032-001	PU-239,240	Plutonium-239, 240	N	0.00442	pCi/L	U	F		0.0104		C	GEN
GS10	SL	2/20/2020	RFS01-13.2003032-001	7440-22-4	Silver	Y	0.3	ug/L	U	F	0.3			C	GEN
GS10	SL	2/20/2020	RFS01-13.2003032-001	7440-61-1	Uranium	N	22.4	ug/L		F	0.067			C	GEN
GS10	SL	3/3/2020	RFS01-01.2003025-007	14596-10-2	Americium-241	N	-0.00402	pCi/L	U	D		0.0142		C	GEN
GS10	SL	3/3/2020	RFS01-01.2003025-012	14596-10-2	Americium-241	N	-0.00412	pCi/L	U	F		0.0140		C	GEN
GS10	SL	3/3/2020	RFS01-01.2003025-007	7440-41-7	Beryllium	N	1	ug/L	U	D	1			C	GEN
GS10	SL	3/3/2020	RFS01-01.2003025-012	7440-41-7	Beryllium	N	1	ug/L	U	F	1			C	GEN
GS10	SL	3/3/2020	RFS01-01.2003025-007	7440-43-9	Cadmium	Y	0.3	ug/L	U	D	0.3			C	GEN
GS10	SL	3/3/2020	RFS01-01.2003025-012	7440-43-9	Cadmium	Y	0.3	ug/L	U	F	0.3			C	GEN
GS10	SL	3/3/2020	RFS01-01.2003025-007	7440-47-3	Chromium	N	1	ug/L	U	D	1			C	GEN
GS10	SL	3/3/2020	RFS01-01.2003025-012	7440-47-3	Chromium	N	1	ug/L	U	F	1			C	GEN
GS10	SL	3/3/2020	RFS01-01.2003025-007	PU-239,240	Plutonium-239, 240	N	-0.00267	pCi/L	U	D		0.0128		C	GEN
GS10	SL	3/3/2020	RFS01-01.2003025-012	PU-239,240	Plutonium-239, 240	N	0.00132	pCi/L	U	F		0.00579		C	GEN
GS10	SL	3/3/2020	RFS01-01.2003025-007	7440-22-4	Silver	Y	0.3	ug/L	U	D	0.3			C	GEN
GS10	SL	3/3/2020	RFS01-01.2003025-012	7440-22-4	Silver	Y	0.3	ug/L	U	F	0.3			C	GEN
GS10	SL	3/3/2020	RFS01-01.2003025-007	7440-61-1	Uranium	N	18.3	ug/L		D	0.067			C	GEN
GS10	SL	3/3/2020	RFS01-01.2003025-012	7440-61-1	Uranium	N	18	ug/L		F	0.067			C	GEN
GS10	SL	3/12/2020	RFS01-13.2003033-001	14596-10-2	Americium-241	N	0.004	pCi/L	U	F		0.0111		C	GEN
GS10	SL	3/12/2020	RFS01-13.2003033-001	7440-41-7	Beryllium	N	1	ug/L	U	F	1			C	GEN
GS10	SL	3/12/2020	RFS01-13.2003033-001	7440-43-9	Cadmium	Y	0.3	ug/L	U	F	0.3			C	GEN
GS10	SL	3/12/2020	RFS01-13.2003033-001	7440-47-3	Chromium	N	1.08	ug/L	B	F	1			C	GEN
GS10	SL	3/12/2020	RFS01-13.2003033-001	PU-239,240	Plutonium-239, 240	N	0.00534	pCi/L	U	F		0.0105		C	GEN
GS10	SL	3/12/2020	RFS01-13.2003033-001	7440-22-4	Silver	Y	0.3	ug/L	U	F	0.3			C	GEN
GS10	SL	3/12/2020	RFS01-13.2003033-001	7440-61-1	Uranium	N	18.1	ug/L		F	0.067			C	GEN
GS10	SL	3/23/2020	RFS01-13.2003034-001	14596-10-2	Americium-241	N	-0.0045	pCi/L	U	F		0.00764		C	GEN
GS10	SL	3/23/2020	RFS01-13.2003034-001	7440-41-7	Beryllium	N	1	ug/L	U	F	1			C	GEN
GS10	SL	3/23/2020	RFS01-13.2003034-001	7440-43-9	Cadmium	Y	0.3	ug/L	U	F	0.3			C	GEN
GS10	SL	3/23/2020	RFS01-13.2003034-001	7440-47-3	Chromium	N	1	ug/L	U	F	1			C	GEN
GS10	SL	3/23/2020	RFS01-13.2003034-001	PU-239,240	Plutonium-239, 240	N	0.006	pCi/L	U	F		0.00707		C	GEN
GS10	SL	3/23/2020	RFS01-13.2003034-001	7440-22-4	Silver	Y	0.3	ug/L	U	F	0.3			C	GEN
GS10	SL	3/23/2020	RFS01-13.2003034-001	7440-61-1	Uranium	N	14.4	ug/L		F	0.067			C	GEN
GS10	SL	3/26/2020	RFS01-13.2004036-001	14596-10-2	Americium-241	N	0.00193	pCi/L	U	F		0.00847		C	GEN
GS10	SL	3/26/2020	RFS01-13.2004036-001	7440-41-7	Beryllium	N	1	ug/L	U	F	1			C	GEN
GS10	SL	3/26/2020	RFS01-13.2004036-001	7440-43-9	Cadmium	Y	0.3	ug/L	U	F	0.3			C	GEN
GS10	SL	3/26/2020	RFS01-13.2004036-001	7440-47-3	Chromium	N	1.38	ug/L	B	F	1			C	GEN
GS10	SL	3/26/2020	RFS01-13.2004036-001	PU-239,240	Plutonium-239, 240	N	0.00483	pCi/L	U	F		0.00821		C	GEN
GS10	SL	3/26/2020	RFS01-13.2004036-001	7440-22-4	Silver	Y	0.3	ug/L	U	F	0.3			C	GEN
GS10	SL	3/26/2020	RFS01-13.2004036-001	7440-61-1	Uranium	N	18	ug/L		F	0.067			C	GEN
GS13	SL	1/2/2020	RFS01-05.2002030-001	7440-61-1	Uranium	N	9.67	ug/L		F	0.067			C	GEN
GS13	SL	1/15/2020	RFS01-04.2001032-007	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	8.6	mg/L		F	0.038			G	STD
GS13	SL	1/30/2020	RFS01-04.2001033-007	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	11	mg/L		F	0.038			G	STD
GS13	SL	2/13/2020	RFS01-04.2002035-007	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	5	mg/L		F	0.019			G	STD
GS13	SL	2/24/2020	RFS01-01.2003025-001	7440-61-1	Uranium	N	8.28	ug/L		F	0.067			C	GEN
GS13	SL	2/27/2020	RFS01-04.2002036-007	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	4.6	mg/L		F	0.019			G	STD
GS13	SL	2/27/2020	RFS01-04.2002036-015	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	5.5	mg/L		D	0.019			G	STD
GS13	SL	3/16/2020	RFS01-04.2003037-007	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	5.1	mg/L		F	0.019			G	STD
GS13	SL	3/16/2020	RFS01-13.2003033-007	7440-61-1	Uranium	N	6.36	ug/L		F	0.067			C	GEN
GS13	SL	3/23/2020	RFS01-13.2004039-007	7440-61-1	Uranium	N	6.98	ug/L		F	0.067			C	GEN
GS51	SL	1/22/2020	RFS01-13.2003034-005	14596-10-2	Americium-241	N	0.179	pCi/L		D		0.0322		C	GEN
GS51	SL	1/22/2020	RFS01-13.2003034-007	14596-10-2	Americium-241	N	0.177	pCi/L		F		0.0313		C	GEN
GS51	SL	1/22/2020	RFS01-13.2003034-005	PU-239,240	Plutonium-239, 240	N	1.13	pCi/L		D		0.122		C	GEN
GS51	SL	1/22/2020	RFS01-13.2003034-007	PU-239,240	Plutonium-239, 240	N	1.11	pCi/L		F		0.119		C	GEN
GS51	SL	1/22/2020	RFS01-13.2003034-005	7440-61-1	Uranium	N	0.398	ug/L		D	0.067			C	GEN
GS51	SL	1/22/2020	RFS01-13.2003034-007	7440-61-1	Uranium	N	0.39	ug/L		F	0.067			C	GEN
GS51	SL	3/26/2020	RFS01-13.2004039-001	14596-10-2	Americium-241	N	0.129	pCi/L		F		0.0269		C	GEN
GS51	SL	3/26/2020	RFS01-13.2004039-002	14596-10-2	Americium-241	N	0.162	pCi/L		D		0.0307		C	GEN
GS51	SL	3/26/2020	RFS01-13.2004039-001	PU-239,240	Plutonium-239, 240	N	0.853	pCi/L		F		0.0934		C	GEN
GS51	SL	3/26/2020	RFS01-13.2004039-002	PU-239,240	Plutonium-239, 240	N	0.737	pCi/L		D		0.0847		C	GEN
GS51	SL	3/26/2020	RFS01-13.2004039-001	7440-61-1	Uranium	N	0.773	ug/L		F	0.067			C	GEN
GS51	SL	3/26/2020	RFS01-13.2004039-002	7440-61-1	Uranium	N	0.774	ug/L		D	0.067			C	GEN
GS59	SL	1/2/2020	RFS01-01.2003025-005	7440-38-2	Arsenic	N	2.03	ug/L	B	F	2			C	GEN
GS59	SL	1/2/2020	RFS01-01.2003025-008	7440-38-2	Arsenic	N	2	ug/L	U	D	2			C	GEN
GS59	SL	1/2/2020	RFS01-01.2003025-005	7440-41-7	Beryllium	N	0.2	ug/L	U	F	0.2			C	GEN
GS59	SL	1/2/2020	RFS01-01.2003025-008	7440-41-7	Beryllium	N	0.2	ug/L	U	D	0.2			C	GEN
GS59	SL	1/2/2020	RFS01-01.2003025-005	7440-42-8	Boron	N	12.7	ug/L	B	F	5.2		J	C	GEN
GS59	SL	1/2/2020	RFS01-01.2003025-008	7440-42-8	Boron	N	14.3	ug/L	B	D	5.2		J	C	GEN
GS59	SL	1/2/2020	RFS01-01.2003025-004	7440-43-9	Cadmium	Y	0.3	ug/L	U	F	0.3			C	GEN
GS59	SL	1/2/2020	RFS01-01.2003025-009	7440-43-9	Cadmium	Y	0.3	ug/L	U	D	0.3			C	GEN
GS59	SL	1/2/2020	RFS01-01.2003025-005	7440-47-3	Chromium	N	3	ug/L	U	F	3			C	GEN

LOCATION_CODE	LOCATION_TYPE	DATE SAMPLED	SAMPLE CODE	CAS	ANALYTE	FILTRATION STATUS	RESULT	UNITS	LAB QUALIFIERS	SAMPLE TYPE	DETECTION LIMIT	UNCER-TAINTY	DATA VALIDATION QUALIFIERS	COLLECTION METHOD	LAB CODE
GS59	SL	1/2/2020	RFS01-01.2003025-008	7440-47-3	Chromium	N	3	ug/L	U	D	3			C	GEN
GS59	SL	1/2/2020	RFS01-01.2003025-004	7440-50-8	Copper	Y	0.938	ug/L	B	F	0.3			C	GEN
GS59	SL	1/2/2020	RFS01-01.2003025-009	7440-50-8	Copper	Y	0.871	ug/L	B	D	0.3			C	GEN
GS59	SL	1/2/2020	RFS01-01.2003025-004	7439-92-1	Lead	Y	0.5	ug/L	U	F	0.5			C	GEN
GS59	SL	1/2/2020	RFS01-01.2003025-009	7439-92-1	Lead	Y	0.5	ug/L	U	D	0.5			C	GEN
GS59	SL	1/2/2020	RFS01-01.2003025-004	7440-02-0	Nickel	Y	1.19	ug/L	B	F	0.6			C	GEN
GS59	SL	1/2/2020	RFS01-01.2003025-009	7440-02-0	Nickel	Y	1.22	ug/L	B	D	0.6			C	GEN
GS59	SL	1/2/2020	RFS01-01.2003025-005	7782-49-2	Selenium	N	2	ug/L	U	F	2			C	GEN
GS59	SL	1/2/2020	RFS01-01.2003025-008	7782-49-2	Selenium	N	2	ug/L	U	D	2			C	GEN
GS59	SL	1/2/2020	RFS01-01.2003025-004	7440-22-4	Silver	Y	0.3	ug/L	U	F	0.3			C	GEN
GS59	SL	1/2/2020	RFS01-01.2003025-009	7440-22-4	Silver	Y	0.3	ug/L	U	D	0.3			C	GEN
GS59	SL	1/2/2020	RFS01-01.2003025-005	7440-61-1	Uranium	N	1.48	ug/L	B	F	0.067			C	GEN
GS59	SL	1/2/2020	RFS01-01.2003025-008	7440-61-1	Uranium	N	1.52	ug/L	B	D	0.067			C	GEN
GS59	SL	1/2/2020	RFS01-01.2003025-004	7440-66-6	Zinc	Y	3.3	ug/L	U	F	3.3			C	GEN
GS59	SL	1/2/2020	RFS01-01.2003025-009	7440-66-6	Zinc	Y	3.3	ug/L	U	D	3.3			C	GEN
GS59	SL	1/8/2020	RFS01-02.2001022-002	71-55-6	1,1,1-Trichloroethane	N	0.16	ug/L	U	F	0.16			G	STD
GS59	SL	1/8/2020	RFS01-02.2001022-002	79-34-5	1,1,2,2-Tetrachloroethane	N	0.21	ug/L	U	F	0.21			G	STD
GS59	SL	1/8/2020	RFS01-02.2001022-002	79-00-5	1,1,2-Trichloroethane	N	0.27	ug/L	U	F	0.27			G	STD
GS59	SL	1/8/2020	RFS01-02.2001022-002	75-35-4	1,1-Dichloroethene	N	0.23	ug/L	U	F	0.23			G	STD
GS59	SL	1/8/2020	RFS01-02.2001022-002	120-82-1	1,2,4-Trichlorobenzene	N	0.21	ug/L	U	F	0.21			G	STD
GS59	SL	1/8/2020	RFS01-02.2001022-002	95-50-1	1,2-Dichlorobenzene	N	0.15	ug/L	U	F	0.15			G	STD
GS59	SL	1/8/2020	RFS01-02.2001022-002	107-06-2	1,2-Dichloroethane	N	0.13	ug/L	U	F	0.13			G	STD
GS59	SL	1/8/2020	RFS01-02.2001022-002	78-87-5	1,2-Dichloropropane	N	0.18	ug/L	U	F	0.18			G	STD
GS59	SL	1/8/2020	RFS01-02.2001022-002	541-73-1	1,3-Dichlorobenzene	N	0.13	ug/L	U	F	0.13			G	STD
GS59	SL	1/8/2020	RFS01-02.2001022-002	106-46-7	1,4-Dichlorobenzene	N	0.16	ug/L	U	F	0.16			G	STD
GS59	SL	1/8/2020	RFS01-02.2001022-002	71-43-2	Benzene	N	0.16	ug/L	U	F	0.16			G	STD
GS59	SL	1/8/2020	RFS01-02.2001022-002	75-25-2	Bromoform	N	0.46	ug/L	U	F	0.46			G	STD
GS59	SL	1/8/2020	RFS01-02.2001022-002	56-23-5	Carbon tetrachloride	N	0.19	ug/L	U	F	0.19			G	STD
GS59	SL	1/8/2020	RFS01-02.2001022-002	108-90-7	Chlorobenzene	N	0.17	ug/L	U	F	0.17			G	STD
GS59	SL	1/8/2020	RFS01-02.2001022-002	67-66-3	Chloroform	N	0.16	ug/L	U	F	0.16			G	STD
GS59	SL	1/8/2020	RFS01-02.2001022-002	74-87-3	Chloromethane	N	0.3	ug/L	U	F	0.3			G	STD
GS59	SL	1/8/2020	RFS01-02.2001022-002	156-59-2	cis-1,2-Dichloroethene	N	0.15	ug/L	U	F	0.15			G	STD
GS59	SL	1/8/2020	RFS01-02.2001022-002	100-41-4	Ethylbenzene	N	0.16	ug/L	U	F	0.16			G	STD
GS59	SL	1/8/2020	RFS01-02.2001022-002	87-68-3	Hexachlorobutadiene	N	0.36	ug/L	U	F	0.36			G	STD
GS59	SL	1/8/2020	RFS01-02.2001022-002	7439-97-6	Mercury	N	0.027	ug/L	U	F	0.027			G	STD
GS59	SL	1/8/2020	RFS01-02.2001022-002	75-09-2	Methylene chloride	N	0.94	ug/L	U	F	0.94			G	STD
GS59	SL	1/8/2020	RFS01-02.2001022-002	91-20-3	Naphthalene	N	0.22	ug/L	U	F	0.22			G	STD
GS59	SL	1/8/2020	RFS01-02.2001022-002	100-42-5	Styrene	N	0.36	ug/L	U	F	0.36			G	STD
GS59	SL	1/8/2020	RFS01-02.2001022-002	127-18-4	Tetrachloroethene	N	0.2	ug/L	U	F	0.2			G	STD
GS59	SL	1/8/2020	RFS01-02.2001022-002	108-88-3	Toluene	N	0.17	ug/L	U	F	0.17			G	STD
GS59	SL	1/8/2020	RFS01-02.2001022-002	1330-20-7	Total Xylenes	N	0.19	ug/L	U	F	0.19			G	STD
GS59	SL	1/8/2020	RFS01-02.2001022-002	156-60-5	trans-1,2-Dichloroethene	N	0.15	ug/L	U	F	0.15			G	STD
GS59	SL	1/8/2020	RFS01-02.2001022-002	79-01-6	Trichloroethene	N	0.16	ug/L	U	F	0.16			G	STD
GS59	SL	1/8/2020	RFS01-02.2001022-002	75-01-4	Vinyl chloride	N	0.1	ug/L	U	F	0.1			G	STD
GS59	SL	3/13/2020	RFS01-13.2003033-014	7440-38-2	Arsenic	N	2.43	ug/L	B	F	2			C	GEN
GS59	SL	3/13/2020	RFS01-13.2003033-014	7440-41-7	Beryllium	N	0.2	ug/L	U	F	0.2			C	GEN
GS59	SL	3/13/2020	RFS01-13.2003033-014	7440-42-8	Boron	N	11.8	ug/L	B	F	5.2			C	GEN
GS59	SL	3/13/2020	RFS01-13.2003033-013	7440-43-9	Cadmium	Y	0.3	ug/L	U	F	0.3			C	GEN
GS59	SL	3/13/2020	RFS01-13.2003033-014	7440-47-3	Chromium	N	3	ug/L	U	F	3			C	GEN
GS59	SL	3/13/2020	RFS01-13.2003033-013	7440-50-8	Copper	Y	1.24	ug/L	B	F	0.3			C	GEN
GS59	SL	3/13/2020	RFS01-13.2003033-013	7439-92-1	Lead	Y	0.5	ug/L	U	F	0.5			C	GEN
GS59	SL	3/13/2020	RFS01-13.2003033-013	7440-02-0	Nickel	Y	0.704	ug/L	B	F	0.6			C	GEN
GS59	SL	3/13/2020	RFS01-13.2003033-014	7782-49-2	Selenium	N	2	ug/L	U	F	2			C	GEN
GS59	SL	3/13/2020	RFS01-13.2003033-013	7440-22-4	Silver	Y	0.3	ug/L	U	F	0.3			C	GEN
GS59	SL	3/13/2020	RFS01-13.2003033-014	7440-61-1	Uranium	N	1.54	ug/L	B	F	0.067			C	GEN
GS59	SL	3/13/2020	RFS01-13.2003033-013	7440-66-6	Zinc	Y	3.3	ug/L	U	F	3.3			C	GEN
GS59	SL	3/23/2020	RFS01-13.2004039-014	7440-38-2	Arsenic	N	2	ug/L	U	F	2			C	GEN
GS59	SL	3/23/2020	RFS01-13.2004039-014	7440-41-7	Beryllium	N	0.2	ug/L	U	F	0.2			C	GEN
GS59	SL	3/23/2020	RFS01-13.2004039-014	7440-42-8	Boron	N	15.8	ug/L		F	5.2			C	GEN
GS59	SL	3/23/2020	RFS01-13.2004039-013	7440-43-9	Cadmium	Y	0.3	ug/L	U	F	0.3			C	GEN
GS59	SL	3/23/2020	RFS01-13.2004039-014	7440-47-3	Chromium	N	3	ug/L	U	F	3			C	GEN
GS59	SL	3/23/2020	RFS01-13.2004039-013	7440-50-8	Copper	Y	2.69	ug/L	B	F	0.3			C	GEN
GS59	SL	3/23/2020	RFS01-13.2004039-013	7439-92-1	Lead	Y	0.5	ug/L	U	F	0.5			C	GEN
GS59	SL	3/23/2020	RFS01-13.2004039-013	7440-02-0	Nickel	Y	2.26	ug/L	B	F	0.6			C	GEN
GS59	SL	3/23/2020	RFS01-13.2004039-014	7782-49-2	Selenium	N	2	ug/L	U	F	2			C	GEN
GS59	SL	3/23/2020	RFS01-13.2004039-013	7440-22-4	Silver	Y	0.3	ug/L	U	F	0.3			C	GEN
GS59	SL	3/23/2020	RFS01-13.2004039-014	7440-61-1	Uranium	N	1.09	ug/L	B	F	0.067			C	GEN
GS59	SL	3/23/2020	RFS01-13.2004039-013	7440-66-6	Zinc	Y	3.3	ug/L	U	F	3.3			C	GEN
P416589	WL	1/24/2020	RFS01-10.2001020-013	71-55-6	1,1,1-Trichloroethane	N	0.16	ug/L	U	F	0.16		FQ	G	STD
P416589	WL	1/24/2020	RFS01-10.2001020-013	79-34-5	1,1,2,2-Tetrachloroethane	N	0.21	ug/L	U	F	0.21		FQ	G	STD

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P416589	WL	1/24/2020	RFS01-10.2001020-013	79-00-5	1,1,2-Trichloroethane	N	0.27	ug/L	U	F	0.27		FQ	G	STD
P416589	WL	1/24/2020	RFS01-10.2001020-013	75-35-4	1,1-Dichloroethene	N	0.23	ug/L	U	F	0.23		FQ	G	STD
P416589	WL	1/24/2020	RFS01-10.2001020-013	120-82-1	1,2,4-Trichlorobenzene	N	0.21	ug/L	U	F	0.21		FQ	G	STD
P416589	WL	1/24/2020	RFS01-10.2001020-013	120-82-1	1,2,4-Trichlorobenzene	N	0.56	ug/L	U	F	0.56		FQ	G	STD
P416589	WL	1/24/2020	RFS01-10.2001020-013	95-50-1	1,2-Dichlorobenzene	N	0.15	ug/L	U	F	0.15		FQ	G	STD
P416589	WL	1/24/2020	RFS01-10.2001020-013	95-50-1	1,2-Dichlorobenzene	N	0.22	ug/L	U	F	0.22		FQ	G	STD
P416589	WL	1/24/2020	RFS01-10.2001020-013	107-06-2	1,2-Dichloroethane	N	0.13	ug/L	U	F	0.13		FQ	G	STD
P416589	WL	1/24/2020	RFS01-10.2001020-013	78-87-5	1,2-Dichloropropane	N	0.18	ug/L	U	F	0.18		FQ	G	STD
P416589	WL	1/24/2020	RFS01-10.2001020-013	541-73-1	1,3-Dichlorobenzene	N	0.13	ug/L	U	F	0.13		FQ	G	STD
P416589	WL	1/24/2020	RFS01-10.2001020-013	541-73-1	1,3-Dichlorobenzene	N	0.29	ug/L	U	F	0.29		FQ	G	STD
P416589	WL	1/24/2020	RFS01-10.2001020-013	106-46-7	1,4-Dichlorobenzene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
P416589	WL	1/24/2020	RFS01-10.2001020-013	106-46-7	1,4-Dichlorobenzene	N	1.2	ug/L	U	F	1.2		FQ	G	STD
P416589	WL	1/24/2020	RFS01-10.2001020-013	91-58-7	2-Chloronaphthalene	N	0.25	ug/L	U	F	0.25		FQ	G	STD
P416589	WL	1/24/2020	RFS01-10.2001020-013	83-32-9	Acenaphthene	N	0.27	ug/L	U	F	0.27		FQ	G	STD
P416589	WL	1/24/2020	RFS01-10.2001020-014	83-32-9	Acenaphthene	N	0.011	ug/L	U	F	0.011		FQ	G	STD
P416589	WL	1/24/2020	RFS01-10.2001020-013	120-12-7	Anthracene	N	0.4	ug/L	U	F	0.4		FQ	G	STD
P416589	WL	1/24/2020	RFS01-10.2001020-014	120-12-7	Anthracene	N	0.014	ug/L	U	F	0.014		FQ	G	STD
P416589	WL	1/24/2020	RFS01-10.2001020-013	7440-38-2	Arsenic	Y	0.33	ug/L	U	F	0.33		FQ	G	STD
P416589	WL	1/24/2020	RFS01-10.2001020-013	71-43-2	Benzene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
P416589	WL	1/24/2020	RFS01-10.2001020-013	50-32-8	Benzo(a)pyrene	N	0.3	ug/L	U	F	0.3		FQ	G	STD
P416589	WL	1/24/2020	RFS01-10.2001020-014	50-32-8	Benzo(a)pyrene	N	0.0051	ug/L	U	F	0.0051		FQ	G	STD
P416589	WL	1/24/2020	RFS01-10.2001020-013	191-24-2	Benzo(g,h,i)Perylene	N	0.48	ug/L	U	F	0.48		FQ	G	STD
P416589	WL	1/24/2020	RFS01-10.2001020-014	191-24-2	Benzo(g,h,i)Perylene	N	0.0081	ug/L	U	F	0.0081		FQ	G	STD
P416589	WL	1/24/2020	RFS01-10.2001020-013	7440-41-7	Beryllium	Y	0.08	ug/L	U	F	0.08		FQ	G	STD
P416589	WL	1/24/2020	RFS01-10.2001020-013	108-60-1	Bis(2-chloroisopropyl) ether	N	0.27	ug/L	U	F	0.27		FQ	G	STD
P416589	WL	1/24/2020	RFS01-10.2001020-013	117-81-7	Bis(2-ethylhexyl) phthalate	N	0.53	ug/L	U	F	0.53		FQ	G	STD
P416589	WL	1/24/2020	RFS01-10.2001020-013	7440-42-8	Boron	Y	5.6	ug/L	J	F	4.4		FQ	G	STD
P416589	WL	1/24/2020	RFS01-10.2001020-013	75-25-2	Bromoform	N	0.46	ug/L	U	F	0.46		FQ	G	STD
P416589	WL	1/24/2020	RFS01-10.2001020-013	7440-43-9	Cadmium	Y	0.27	ug/L	U	F	0.27		FQ	G	STD
P416589	WL	1/24/2020	RFS01-10.2001020-013	56-23-5	Carbon tetrachloride	N	0.19	ug/L	U	F	0.19		FQ	G	STD
P416589	WL	1/24/2020	RFS01-10.2001020-013	108-90-7	Chlorobenzene	N	0.17	ug/L	U	F	0.17		FQ	G	STD
P416589	WL	1/24/2020	RFS01-10.2001020-013	67-66-3	Chloroform	N	0.16	ug/L	U	F	0.16		FQ	G	STD
P416589	WL	1/24/2020	RFS01-10.2001020-013	74-87-3	Chloromethane	N	0.3	ug/L	U	F	0.3		FQ	G	STD
P416589	WL	1/24/2020	RFS01-10.2001020-013	7440-47-3	Chromium	Y	0.5	ug/L	U	F	0.5		FQ	G	STD
P416589	WL	1/24/2020	RFS01-10.2001020-013	218-01-9	Chrysene	N	0.52	ug/L	U	F	0.52		FQ	G	STD
P416589	WL	1/24/2020	RFS01-10.2001020-014	218-01-9	Chrysene	N	0.012	ug/L	U	F	0.012		FQ	G	STD
P416589	WL	1/24/2020	RFS01-10.2001020-013	156-59-2	cis-1,2-Dichloroethene	N	0.15	ug/L	U	F	0.15		FQ	G	STD
P416589	WL	1/24/2020	RFS01-10.2001020-013	7440-50-8	Copper	Y	0.56	ug/L	U	F	0.56		FQ	G	STD
P416589	WL	1/24/2020	RFS01-10.2001020-013	53-70-3	Dibenz(a,h)anthracene	N	0.49	ug/L	U	F	0.49		FQ	G	STD
P416589	WL	1/24/2020	RFS01-10.2001020-014	53-70-3	Dibenz(a,h)anthracene	N	0.0048	ug/L	U	F	0.0048		FQ	G	STD
P416589	WL	1/24/2020	RFS01-10.2001020-013	84-66-2	Diethyl phthalate	N	0.36	ug/L	U	F	0.36		FQ	G	STD
P416589	WL	1/24/2020	RFS01-10.2001020-013	131-11-3	Dimethyl phthalate	N	0.2	ug/L	U	F	0.2		FQ	G	STD
P416589	WL	1/24/2020	RFS01-10.2001020-013	84-74-2	Di-n-butyl phthalate	N	1.1	ug/L	U	F	1.1		FQ	G	STD
P416589	WL	1/24/2020	RFS01-10.2001020-013	100-41-4	Ethylbenzene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
P416589	WL	1/24/2020	RFS01-10.2001020-013	206-44-0	Fluoranthene	N	0.19	ug/L	U	F	0.19		FQ	G	STD
P416589	WL	1/24/2020	RFS01-10.2001020-014	206-44-0	Fluoranthene	N	0.034	ug/L	U	F	0.034		FQ	G	STD
P416589	WL	1/24/2020	RFS01-10.2001020-013	86-73-7	Fluorene	N	0.3	ug/L	U	F	0.3		FQ	G	STD
P416589	WL	1/24/2020	RFS01-10.2001020-014	86-73-7	Fluorene	N	0.019	ug/L	U	F	0.019		FQ	G	STD
P416589	WL	1/24/2020	RFS01-10.2001020-013	87-68-3	Hexachlorobutadiene	N	0.36	ug/L	U	F	0.36		FQ	G	STD
P416589	WL	1/24/2020	RFS01-10.2001020-013	87-68-3	Hexachlorobutadiene	N	3.1	ug/L	U	F	3.1		FQ	G	STD
P416589	WL	1/24/2020	RFS01-10.2001020-013	67-72-1	Hexachloroethane	N	0.94	ug/L	U	F	0.94		FQ	G	STD
P416589	WL	1/24/2020	RFS01-10.2001020-013	78-59-1	Isophorone	N	0.2	ug/L	U	F	0.2		FQ	G	STD
P416589	WL	1/24/2020	RFS01-10.2001020-013	7439-92-1	Lead	Y	0.18	ug/L	U	F	0.18		FJQ	G	STD
P416589	WL	1/24/2020	RFS01-10.2001020-013	7439-97-6	Mercury	Y	0.058	ug/L	J B	F	0.027		FQU	G	STD
P416589	WL	1/24/2020	RFS01-10.2001020-013	75-09-2	Methylene chloride	N	0.94	ug/L	U	F	0.94		FQ	G	STD
P416589	WL	1/24/2020	RFS01-10.2001020-013	91-20-3	Naphthalene	N	0.22	ug/L	U	F	0.22		FQ	G	STD
P416589	WL	1/24/2020	RFS01-10.2001020-013	91-20-3	Naphthalene	N	0.28	ug/L	U	F	0.28		FQ	G	STD
P416589	WL	1/24/2020	RFS01-10.2001020-014	91-20-3	Naphthalene	N	0.0053	ug/L	U	F	0.0053		FQ	G	STD
P416589	WL	1/24/2020	RFS01-10.2001020-013	7440-02-0	Nickel	Y	0.82	ug/L	J	F	0.3		FQ	G	STD
P416589	WL	1/24/2020	RFS01-10.2001020-013	129-00-0	Pyrene	N	0.35	ug/L	U	F	0.35		FQ	G	STD
P416589	WL	1/24/2020	RFS01-10.2001020-014	129-00-0	Pyrene	N	0.023	ug/L	B	F	0.008		FQ	G	STD
P416589	WL	1/24/2020	RFS01-10.2001020-013	7782-49-2	Selenium	Y	0.37	ug/L	U	F	0.37		FQ	G	STD
P416589	WL	1/24/2020	RFS01-10.2001020-013	7440-22-4	Silver	Y	0.055	ug/L	J	F	0.033		FQU	G	STD
P416589	WL	1/24/2020	RFS01-10.2001020-013	100-42-5	Styrene	N	0.36	ug/L	U	F	0.36		FQ	G	STD
P416589	WL	1/24/2020	RFS01-10.2001020-013	127-18-4	Tetrachloroethene	N	0.2	ug/L	U	F	0.2		FQ	G	STD
P416589	WL	1/24/2020	RFS01-10.2001020-013	108-88-3	Toluene	N	0.17	ug/L	U	F	0.17		FQ	G	STD
P416589	WL	1/24/2020	RFS01-10.2001020-013	1330-20-7	Total Xylenes	N	0.19	ug/L	U	F	0.19		FQ	G	STD
P416589	WL	1/24/2020	RFS01-10.2001020-013	156-60-5	trans-1,2-Dichloroethene	N	0.15	ug/L	U	F	0.15		FQ	G	STD
P416589	WL	1/24/2020	RFS01-10.2001020-013	79-01-6	Trichloroethene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
P416589	WL	1/24/2020	RFS01-10.2001020-013	7440-61-1	Uranium	Y	1.9	ug/L		F	0.05		FQ	G	STD

LOCATION_CODE	LOCATION_TYPE	DATE SAMPLED	SAMPLE CODE	CAS	ANALYTE	FILTRATION STATUS	RESULT	UNITS	LAB QUALIFIERS	SAMPLE TYPE	DETECTION LIMIT	UNCER-TAINTY	DATA VALIDATION QUALIFIERS	COLLECTION METHOD	LAB CODE
P416589	WL	1/24/2020	RFS01-10.2001020-013	75-01-4	Vinyl chloride	N	0.1	ug/L	U	F	0.1		FQ	G	STD
P416589	WL	1/24/2020	RFS01-10.2001020-013	7440-66-6	Zinc	Y	2	ug/L	U	F	2		FQ	G	STD
PLFSEEPINF	TS	1/8/2020	RFS01-02.2001022-003	71-55-6	1,1,1-Trichloroethane	N	0.16	ug/L	U	F	0.16			G	STD
PLFSEEPINF	TS	1/8/2020	RFS01-02.2001022-003	79-34-5	1,1,2,2-Tetrachloroethane	N	0.21	ug/L	U	F	0.21			G	STD
PLFSEEPINF	TS	1/8/2020	RFS01-02.2001022-003	79-00-5	1,1,2-Trichloroethane	N	0.27	ug/L	U	F	0.27			G	STD
PLFSEEPINF	TS	1/8/2020	RFS01-02.2001022-003	75-35-4	1,1-Dichloroethene	N	0.23	ug/L	U	F	0.23			G	STD
PLFSEEPINF	TS	1/8/2020	RFS01-02.2001022-003	120-82-1	1,2,4-Trichlorobenzene	N	0.21	ug/L	U	F	0.21			G	STD
PLFSEEPINF	TS	1/8/2020	RFS01-02.2001022-003	95-50-1	1,2-Dichlorobenzene	N	0.28	ug/L	J	F	0.15			G	STD
PLFSEEPINF	TS	1/8/2020	RFS01-02.2001022-003	107-06-2	1,2-Dichloroethane	N	0.13	ug/L	U	F	0.13			G	STD
PLFSEEPINF	TS	1/8/2020	RFS01-02.2001022-003	78-87-5	1,2-Dichloropropane	N	0.18	ug/L	U	F	0.18			G	STD
PLFSEEPINF	TS	1/8/2020	RFS01-02.2001022-003	541-73-1	1,3-Dichlorobenzene	N	0.13	ug/L	U	F	0.13			G	STD
PLFSEEPINF	TS	1/8/2020	RFS01-02.2001022-003	106-46-7	1,4-Dichlorobenzene	N	0.45	ug/L	J	F	0.16			G	STD
PLFSEEPINF	TS	1/8/2020	RFS01-02.2001022-004	7440-38-2	Arsenic	N	6.1	ug/L		F	0.33			G	STD
PLFSEEPINF	TS	1/8/2020	RFS01-02.2001022-003	71-43-2	Benzene	N	2.2	ug/L		F	0.16			G	STD
PLFSEEPINF	TS	1/8/2020	RFS01-02.2001022-004	7440-41-7	Beryllium	N	0.11	ug/L	J	F	0.08		U	G	STD
PLFSEEPINF	TS	1/8/2020	RFS01-02.2001022-004	7440-42-8	Boron	N	1200	ug/L		F	4.4			G	STD
PLFSEEPINF	TS	1/8/2020	RFS01-02.2001022-003	75-25-2	Bromoform	N	0.46	ug/L	U	F	0.46			G	STD
PLFSEEPINF	TS	1/8/2020	RFS01-02.2001022-003	7440-43-9	Cadmium	Y	0.27	ug/L	U	F	0.27			G	STD
PLFSEEPINF	TS	1/8/2020	RFS01-02.2001022-003	56-23-5	Carbon tetrachloride	N	0.19	ug/L	U	F	0.19			G	STD
PLFSEEPINF	TS	1/8/2020	RFS01-02.2001022-003	108-90-7	Chlorobenzene	N	0.77	ug/L	J	F	0.17			G	STD
PLFSEEPINF	TS	1/8/2020	RFS01-02.2001022-003	67-66-3	Chloroform	N	0.16	ug/L	U	F	0.16			G	STD
PLFSEEPINF	TS	1/8/2020	RFS01-02.2001022-003	74-87-3	Chloromethane	N	0.3	ug/L	U	F	0.3			G	STD
PLFSEEPINF	TS	1/8/2020	RFS01-02.2001022-004	7440-47-3	Chromium	N	1.2	ug/L	J	F	0.5			G	STD
PLFSEEPINF	TS	1/8/2020	RFS01-02.2001022-003	156-59-2	cis-1,2-Dichloroethene	N	0.15	ug/L	U	F	0.15			G	STD
PLFSEEPINF	TS	1/8/2020	RFS01-02.2001022-003	7440-50-8	Copper	Y	0.56	ug/L	U	F	0.56			G	STD
PLFSEEPINF	TS	1/8/2020	RFS01-02.2001022-003	100-41-4	Ethylbenzene	N	0.16	ug/L	U	F	0.16			G	STD
PLFSEEPINF	TS	1/8/2020	RFS01-02.2001022-003	87-68-3	Hexachlorobutadiene	N	0.36	ug/L	U	F	0.36			G	STD
PLFSEEPINF	TS	1/8/2020	RFS01-02.2001022-003	7439-92-1	Lead	Y	0.18	ug/L	U	F	0.18			G	STD
PLFSEEPINF	TS	1/8/2020	RFS01-02.2001022-004	7439-97-6	Mercury	N	0.027	ug/L	U W	F	0.027		J	G	STD
PLFSEEPINF	TS	1/8/2020	RFS01-02.2001022-003	75-09-2	Methylene chloride	N	0.94	ug/L	U	F	0.94			G	STD
PLFSEEPINF	TS	1/8/2020	RFS01-02.2001022-003	91-20-3	Naphthalene	N	21	ug/L		F	0.22			G	STD
PLFSEEPINF	TS	1/8/2020	RFS01-02.2001022-003	7440-02-0	Nickel	Y	5.3	ug/L		F	0.3			G	STD
PLFSEEPINF	TS	1/8/2020	RFS01-02.2001022-004	7782-49-2	Selenium	N	0.37	ug/L	U	F	0.37			G	STD
PLFSEEPINF	TS	1/8/2020	RFS01-02.2001022-003	7440-22-4	Silver	Y	0.033	ug/L	U W	F	0.033			G	STD
PLFSEEPINF	TS	1/8/2020	RFS01-02.2001022-003	100-42-5	Styrene	N	0.36	ug/L	U	F	0.36			G	STD
PLFSEEPINF	TS	1/8/2020	RFS01-02.2001022-003	127-18-4	Tetrachloroethene	N	0.2	ug/L	U	F	0.2			G	STD
PLFSEEPINF	TS	1/8/2020	RFS01-02.2001022-003	108-88-3	Toluene	N	0.17	ug/L	U	F	0.17			G	STD
PLFSEEPINF	TS	1/8/2020	RFS01-02.2001022-003	1330-20-7	Total Xylenes	N	1.4	ug/L	J	F	0.19			G	STD
PLFSEEPINF	TS	1/8/2020	RFS01-02.2001022-003	156-60-5	trans-1,2-Dichloroethene	N	0.15	ug/L	U	F	0.15			G	STD
PLFSEEPINF	TS	1/8/2020	RFS01-02.2001022-003	79-01-6	Trichloroethene	N	0.16	ug/L	U	F	0.16			G	STD
PLFSEEPINF	TS	1/8/2020	RFS01-02.2001022-004	7440-61-1	Uranium	N	0.05	ug/L	U	F	0.05			G	STD
PLFSEEPINF	TS	1/8/2020	RFS01-02.2001022-003	75-01-4	Vinyl chloride	N	0.1	ug/L	U	F	0.1			G	STD
PLFSEEPINF	TS	1/8/2020	RFS01-02.2001022-003	7440-66-6	Zinc	Y	99	ug/L		F	2			G	STD
PLFSYSEFF	TS	1/8/2020	RFS01-02.2001022-005	71-55-6	1,1,1-Trichloroethane	N	0.16	ug/L	U	F	0.16			G	STD
PLFSYSEFF	TS	1/8/2020	RFS01-02.2001022-005	79-34-5	1,1,2,2-Tetrachloroethane	N	0.21	ug/L	U	F	0.21			G	STD
PLFSYSEFF	TS	1/8/2020	RFS01-02.2001022-005	79-00-5	1,1,2-Trichloroethane	N	0.27	ug/L	U	F	0.27			G	STD
PLFSYSEFF	TS	1/8/2020	RFS01-02.2001022-005	75-35-4	1,1-Dichloroethene	N	0.23	ug/L	U	F	0.23			G	STD
PLFSYSEFF	TS	1/8/2020	RFS01-02.2001022-005	120-82-1	1,2,4-Trichlorobenzene	N	0.21	ug/L	U	F	0.21			G	STD
PLFSYSEFF	TS	1/8/2020	RFS01-02.2001022-005	120-82-1	1,2,4-Trichlorobenzene	N	0.56	ug/L	U	F	0.56			G	STD
PLFSYSEFF	TS	1/8/2020	RFS01-02.2001022-005	95-50-1	1,2-Dichlorobenzene	N	0.15	ug/L	U	F	0.15			G	STD
PLFSYSEFF	TS	1/8/2020	RFS01-02.2001022-005	95-50-1	1,2-Dichlorobenzene	N	0.22	ug/L	U	F	0.22			G	STD
PLFSYSEFF	TS	1/8/2020	RFS01-02.2001022-005	107-06-2	1,2-Dichloroethane	N	0.13	ug/L	U	F	0.13			G	STD
PLFSYSEFF	TS	1/8/2020	RFS01-02.2001022-005	78-87-5	1,2-Dichloropropane	N	0.18	ug/L	U	F	0.18			G	STD
PLFSYSEFF	TS	1/8/2020	RFS01-02.2001022-005	541-73-1	1,3-Dichlorobenzene	N	0.13	ug/L	U	F	0.13			G	STD
PLFSYSEFF	TS	1/8/2020	RFS01-02.2001022-005	541-73-1	1,3-Dichlorobenzene	N	0.29	ug/L	U	F	0.29			G	STD
PLFSYSEFF	TS	1/8/2020	RFS01-02.2001022-005	106-46-7	1,4-Dichlorobenzene	N	0.16	ug/L	U	F	0.16			G	STD
PLFSYSEFF	TS	1/8/2020	RFS01-02.2001022-005	106-46-7	1,4-Dichlorobenzene	N	1.2	ug/L	U	F	1.2			G	STD
PLFSYSEFF	TS	1/8/2020	RFS01-02.2001022-005	91-58-7	2-Chloronaphthalene	N	0.25	ug/L	U	F	0.25			G	STD
PLFSYSEFF	TS	1/8/2020	RFS01-02.2001022-005	83-32-9	Acenaphthene	N	1.6	ug/L	J	F	0.27			G	STD
PLFSYSEFF	TS	1/8/2020	RFS01-02.2001022-005	120-12-7	Anthracene	N	0.4	ug/L	U	F	0.4			G	STD
PLFSYSEFF	TS	1/8/2020	RFS01-02.2001022-006	7440-38-2	Arsenic	N	29	ug/L		F	0.33			G	STD
PLFSYSEFF	TS	1/8/2020	RFS01-02.2001022-005	71-43-2	Benzene	N	0.5	ug/L	J	F	0.16			G	STD
PLFSYSEFF	TS	1/8/2020	RFS01-02.2001022-005	50-32-8	Benzo(a)pyrene	N	0.3	ug/L	U	F	0.3			G	STD
PLFSYSEFF	TS	1/8/2020	RFS01-02.2001022-005	191-24-2	Benzo(g,h,i)Perylene	N	0.48	ug/L	U	F	0.48			G	STD
PLFSYSEFF	TS	1/8/2020	RFS01-02.2001022-006	7440-41-7	Beryllium	N	0.19	ug/L	J	F	0.08		U	G	STD
PLFSYSEFF	TS	1/8/2020	RFS01-02.2001022-005	108-60-1	Bis(2-chloroisopropyl) ether	N	0.27	ug/L	U	F	0.27			G	STD
PLFSYSEFF	TS	1/8/2020	RFS01-02.2001022-005	117-81-7	Bis(2-ethylhexyl) phthalate	N	0.53	ug/L	U	F	0.53			G	STD

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PLFSYSEFF	TS	1/8/2020	RFS01-02.2001022-006	7440-42-8	Boron	N	860	ug/L		F	4.4			G	STD
PLFSYSEFF	TS	1/8/2020	RFS01-02.2001022-005	75-25-2	Bromoform	N	0.46	ug/L	U	F	0.46			G	STD
PLFSYSEFF	TS	1/8/2020	RFS01-02.2001022-005	7440-43-9	Cadmium	Y	0.27	ug/L	U	F	0.27			G	STD
PLFSYSEFF	TS	1/8/2020	RFS01-02.2001022-005	56-23-5	Carbon tetrachloride	N	0.19	ug/L	U	F	0.19			G	STD
PLFSYSEFF	TS	1/8/2020	RFS01-02.2001022-005	108-90-7	Chlorobenzene	N	0.17	ug/L	U	F	0.17			G	STD
PLFSYSEFF	TS	1/8/2020	RFS01-02.2001022-005	67-66-3	Chloroform	N	0.16	ug/L	U	F	0.16			G	STD
PLFSYSEFF	TS	1/8/2020	RFS01-02.2001022-005	74-87-3	Chloromethane	N	0.3	ug/L	U	F	0.3			G	STD
PLFSYSEFF	TS	1/8/2020	RFS01-02.2001022-006	7440-47-3	Chromium	N	1.4	ug/L	J	F	0.5			G	STD
PLFSYSEFF	TS	1/8/2020	RFS01-02.2001022-005	218-01-9	Chrysene	N	0.51	ug/L	U	F	0.51			G	STD
PLFSYSEFF	TS	1/8/2020	RFS01-02.2001022-005	156-59-2	cis-1,2-Dichloroethene	N	0.15	ug/L	U	F	0.15			G	STD
PLFSYSEFF	TS	1/8/2020	RFS01-02.2001022-005	7440-50-8	Copper	Y	0.56	ug/L	U	F	0.56			G	STD
PLFSYSEFF	TS	1/8/2020	RFS01-02.2001022-005	53-70-3	Dibenz(a,h)anthracene	N	0.49	ug/L	U	F	0.49			G	STD
PLFSYSEFF	TS	1/8/2020	RFS01-02.2001022-005	84-66-2	Diethyl phthalate	N	0.36	ug/L	U	F	0.36			G	STD
PLFSYSEFF	TS	1/8/2020	RFS01-02.2001022-005	131-11-3	Dimethyl phthalate	N	0.2	ug/L	U	F	0.2			G	STD
PLFSYSEFF	TS	1/8/2020	RFS01-02.2001022-005	84-74-2	Di-n-butyl phthalate	N	1.1	ug/L	U	F	1.1			G	STD
PLFSYSEFF	TS	1/8/2020	RFS01-02.2001022-005	100-41-4	Ethylbenzene	N	0.16	ug/L	U	F	0.16			G	STD
PLFSYSEFF	TS	1/8/2020	RFS01-02.2001022-005	206-44-0	Fluoranthene	N	0.39	ug/L	J	F	0.19			G	STD
PLFSYSEFF	TS	1/8/2020	RFS01-02.2001022-005	86-73-7	Fluorene	N	1.4	ug/L	J	F	0.3			G	STD
PLFSYSEFF	TS	1/8/2020	RFS01-02.2001022-005	87-68-3	Hexachlorobutadiene	N	0.36	ug/L	U	F	0.36			G	STD
PLFSYSEFF	TS	1/8/2020	RFS01-02.2001022-005	87-68-3	Hexachlorobutadiene	N	3.1	ug/L	U	F	3.1			G	STD
PLFSYSEFF	TS	1/8/2020	RFS01-02.2001022-005	67-72-1	Hexachloroethane	N	0.94	ug/L	U	F	0.94			G	STD
PLFSYSEFF	TS	1/8/2020	RFS01-02.2001022-005	78-59-1	Isophorone	N	0.2	ug/L	U	F	0.2			G	STD
PLFSYSEFF	TS	1/8/2020	RFS01-02.2001022-005	7439-92-1	Lead	Y	0.18	ug/L	U	F	0.18			G	STD
PLFSYSEFF	TS	1/8/2020	RFS01-02.2001022-006	7439-97-6	Mercury	N	0.027	ug/L	U	F	0.027			G	STD
PLFSYSEFF	TS	1/8/2020	RFS01-02.2001022-005	75-09-2	Methylene chloride	N	0.94	ug/L	U	F	0.94			G	STD
PLFSYSEFF	TS	1/8/2020	RFS01-02.2001022-005	91-20-3	Naphthalene	N	0.98	ug/L	J	F	0.22			G	STD
PLFSYSEFF	TS	1/8/2020	RFS01-02.2001022-005	91-20-3	Naphthalene	N	0.62	ug/L	J	F	0.28			G	STD
PLFSYSEFF	TS	1/8/2020	RFS01-02.2001022-005	7440-02-0	Nickel	Y	4.6	ug/L		F	0.3			G	STD
PLFSYSEFF	TS	1/8/2020	RFS01-02.2001022-005	129-00-0	Pyrene	N	0.35	ug/L	U	F	0.35			G	STD
PLFSYSEFF	TS	1/8/2020	RFS01-02.2001022-006	7782-49-2	Selenium	N	0.37	ug/L	U	F	0.37			G	STD
PLFSYSEFF	TS	1/8/2020	RFS01-02.2001022-005	7440-22-4	Silver	Y	0.044	ug/L	J	F	0.033			G	STD
PLFSYSEFF	TS	1/8/2020	RFS01-02.2001022-005	100-42-5	Styrene	N	0.36	ug/L	U	F	0.36			G	STD
PLFSYSEFF	TS	1/8/2020	RFS01-02.2001022-005	127-18-4	Tetrachloroethene	N	0.2	ug/L	U	F	0.2			G	STD
PLFSYSEFF	TS	1/8/2020	RFS01-02.2001022-005	108-88-3	Toluene	N	0.17	ug/L	U	F	0.17			G	STD
PLFSYSEFF	TS	1/8/2020	RFS01-02.2001022-005	1330-20-7	Total Xylenes	N	0.24	ug/L	J	F	0.19			G	STD
PLFSYSEFF	TS	1/8/2020	RFS01-02.2001022-005	156-60-5	trans-1,2-Dichloroethene	N	0.15	ug/L	U	F	0.15			G	STD
PLFSYSEFF	TS	1/8/2020	RFS01-02.2001022-005	79-01-6	Trichloroethene	N	0.16	ug/L	U	F	0.16			G	STD
PLFSYSEFF	TS	1/8/2020	RFS01-02.2001022-006	7440-61-1	Uranium	N	1.6	ug/L		F	0.05			G	STD
PLFSYSEFF	TS	1/8/2020	RFS01-02.2001022-005	75-01-4	Vinyl chloride	N	0.1	ug/L	U	F	0.1			G	STD
PLFSYSEFF	TS	1/8/2020	RFS01-02.2001022-005	7440-66-6	Zinc	Y	38	ug/L		F	2			G	STD
PLFSYSEFF	TS	1/30/2020	RFS01-04.2002034-001	7440-38-2	Arsenic	N	4.8	ug/L		F	0.33			G	STD
SPIN	TS	1/15/2020	RFS01-04.2001032-005	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	570	mg/L		F	1.9			G	STD
SPIN	TS	1/15/2020	RFS01-04.2001032-005	7440-61-1	Uranium	N	78	ug/L		F	0.05			G	STD
SPIN	TS	1/30/2020	RFS01-04.2001033-005	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	530	mg/L		F	1.9			G	STD
SPIN	TS	1/30/2020	RFS01-04.2001033-005	7440-61-1	Uranium	N	72	ug/L		F	0.05			G	STD
SPIN	TS	2/13/2020	RFS01-04.2002035-005	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	490	mg/L		F	1.9			G	STD
SPIN	TS	2/13/2020	RFS01-04.2002035-005	7440-61-1	Uranium	N	71	ug/L		F	0.05			G	STD
SPIN	TS	2/27/2020	RFS01-04.2002036-005	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	560	mg/L		F	1.9			G	STD
SPIN	TS	2/27/2020	RFS01-04.2002036-005	7440-61-1	Uranium	N	82	ug/L		F	0.05			G	STD
SPIN	TS	3/16/2020	RFS01-04.2003037-005	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	560	mg/L		F	1.9			G	STD
SPIN	TS	3/16/2020	RFS01-04.2003037-005	7440-61-1	Uranium	N	78	ug/L		F	0.05			G	STD
SPOUT	TS	1/15/2020	RFS01-04.2001032-006	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	14	mg/L		F	0.038			G	STD
SPOUT	TS	1/15/2020	RFS01-04.2001032-006	7440-61-1	Uranium	N	66	ug/L		F	0.05			G	STD
SPOUT	TS	1/30/2020	RFS01-04.2001033-006	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	52	mg/L		F	0.19			G	STD
SPOUT	TS	1/30/2020	RFS01-04.2001033-006	7440-61-1	Uranium	N	69	ug/L		F	0.05			G	STD
SPOUT	TS	2/13/2020	RFS01-04.2002035-006	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.048	mg/L	J	F	0.019			G	STD
SPOUT	TS	2/13/2020	RFS01-04.2002035-006	7440-61-1	Uranium	N	56	ug/L		F	0.05			G	STD
SPOUT	TS	2/27/2020	RFS01-04.2002036-006	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.67	mg/L		F	0.019			G	STD
SPOUT	TS	2/27/2020	RFS01-04.2002036-006	7440-61-1	Uranium	N	71	ug/L		F	0.05			G	STD
SPOUT	TS	3/16/2020	RFS01-04.2003037-006	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.052	mg/L		F	0.019			G	STD
SPOUT	TS	3/16/2020	RFS01-04.2003037-006	7440-61-1	Uranium	N	65	ug/L		F	0.05			G	STD

LOCATION_CODE	LOCATION_TYPE	DATE SAMPLED	SAMPLE CODE	CAS	ANALYTE	FILTRATION STATUS	RESULT	UNITS	LAB QUALIFIERS	SAMPLE TYPE	DETECTION LIMIT	UNCER-TAINTY	DATA VALIDATION QUALIFIERS	COLLECTION METHOD	LAB CODE
SW027	SL	1/13/2020	RFS01-01.2004026-001	14596-10-2	Americium-241	N	0.0107	pCi/L	U	F		0.0124		C	GEN
SW027	SL	1/13/2020	RFS01-01.2004026-001	7440-41-7	Beryllium	N	1	ug/L	U	F	1			C	GEN
SW027	SL	1/13/2020	RFS01-01.2004026-001	7440-43-9	Cadmium	Y	0.799	ug/L	B	F	0.3			C	GEN
SW027	SL	1/13/2020	RFS01-01.2004026-001	7440-47-3	Chromium	N	1.41	ug/L	B	F	1			C	GEN
SW027	SL	1/13/2020	RFS01-01.2004026-001	PU-239,240	Plutonium-239, 240	N	0.0444	pCi/L		F		0.0196	J	C	GEN
SW027	SL	1/13/2020	RFS01-01.2004026-001	7440-22-4	Silver	Y	0.3	ug/L	U	F	0.3			C	GEN
SW027	SL	1/13/2020	RFS01-01.2004026-001	7440-61-1	Uranium	N	5.22	ug/L		F	0.067			C	GEN
SW093	SL	1/2/2020	RFS01-01.2003024-006	14596-10-2	Americium-241	N	0.0135	pCi/L	U	F		0.0276		C	GEN
SW093	SL	1/2/2020	RFS01-01.2003024-006	7440-41-7	Beryllium	N	1	ug/L	U	F	1			C	GEN
SW093	SL	1/2/2020	RFS01-01.2003024-006	7440-43-9	Cadmium	Y	0.3	ug/L	U	F	0.3			C	GEN
SW093	SL	1/2/2020	RFS01-01.2003024-006	7440-47-3	Chromium	N	1.11	ug/L	B	F	1		U	C	GEN
SW093	SL	1/2/2020	RFS01-01.2003024-006	PU-239,240	Plutonium-239, 240	N	0.00329	pCi/L	U	F		0.0112		C	GEN
SW093	SL	1/2/2020	RFS01-01.2003024-006	7440-22-4	Silver	Y	0.3	ug/L	U	F	0.3			C	GEN
SW093	SL	1/2/2020	RFS01-01.2003024-006	7440-61-1	Uranium	N	3.82	ug/L		F	0.067			C	GEN
SW093	SL	3/5/2020	RFS01-13.2003033-010	14596-10-2	Americium-241	N	0.00113	pCi/L	U	F		0.00587		C	GEN
SW093	SL	3/5/2020	RFS01-13.2003033-010	7440-41-7	Beryllium	N	1	ug/L	U	F	1			C	GEN
SW093	SL	3/5/2020	RFS01-13.2003033-010	7440-43-9	Cadmium	Y	0.3	ug/L	U	F	0.3			C	GEN
SW093	SL	3/5/2020	RFS01-13.2003033-010	7440-47-3	Chromium	N	1	ug/L	U	F	1			C	GEN
SW093	SL	3/5/2020	RFS01-13.2003033-010	PU-239,240	Plutonium-239, 240	N	0.0083	pCi/L	U	F		0.0109		C	GEN
SW093	SL	3/5/2020	RFS01-13.2003033-010	7440-22-4	Silver	Y	0.3	ug/L	U	F	0.3			C	GEN
SW093	SL	3/5/2020	RFS01-13.2003033-010	7440-61-1	Uranium	N	4.96	ug/L		F	0.067			C	GEN
SW093	SL	3/23/2020	RFS01-13.2004036-010	14596-10-2	Americium-241	N	0.00317	pCi/L	U	F		0.0108		C	GEN
SW093	SL	3/23/2020	RFS01-13.2004036-010	7440-41-7	Beryllium	N	1	ug/L	U	F	1			C	GEN
SW093	SL	3/23/2020	RFS01-13.2004036-010	7440-43-9	Cadmium	Y	0.3	ug/L	U	F	0.3			C	GEN
SW093	SL	3/23/2020	RFS01-13.2004036-010	7440-47-3	Chromium	N	1.45	ug/L	B	F	1			C	GEN
SW093	SL	3/23/2020	RFS01-13.2004036-010	PU-239,240	Plutonium-239, 240	N	0	pCi/L	U	F		0.00726		C	GEN
SW093	SL	3/23/2020	RFS01-13.2004036-010	7440-22-4	Silver	Y	0.3	ug/L	U	F	0.3			C	GEN
SW093	SL	3/23/2020	RFS01-13.2004036-010	7440-61-1	Uranium	N	7.43	ug/L		F	0.067			C	GEN
WALPOC	SL	1/13/2020	RFS01-13.2002031-003	14596-10-2	Americium-241	N	-0.00495	pCi/L	U	F		0.0322		C	GEN
WALPOC	SL	1/13/2020	RFS01-13.2002031-003	PU-239,240	Plutonium-239, 240	N	0.00752	pCi/L	U	F		0.0115		C	GEN
WALPOC	SL	1/13/2020	RFS01-13.2002031-003	7440-61-1	Uranium	N	15.5	ug/L		F	0.067			C	GEN
WALPOC	SL	1/27/2020	RFS01-04.2001033-016	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.91	mg/L		F	0.019			G	STD
WALPOC	SL	2/26/2020	RFS01-13.2002031-004	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.089	mg/L		F	0.017			G	GEN
WALPOC	SL	2/26/2020	RFS01-13.2003032-003	14596-10-2	Americium-241	N	-0.00293	pCi/L	U	F		0.0172		C	GEN
WALPOC	SL	2/26/2020	RFS01-13.2003032-003	PU-239,240	Plutonium-239, 240	N	0.0098	pCi/L	U	F		0.0102		C	GEN
WALPOC	SL	2/26/2020	RFS01-13.2003032-003	7440-61-1	Uranium	N	16.2	ug/L		F	0.067			C	GEN
WALPOC	SL	3/5/2020	RFS01-13.2003032-004	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.115	mg/L		F	0.017		J	G	GEN
WALPOC	SL	3/5/2020	RFS01-01.2003025-010	14596-10-2	Americium-241	N	-0.0196	pCi/L	U	F		0.0226		C	GEN
WALPOC	SL	3/5/2020	RFS01-01.2003025-010	PU-239,240	Plutonium-239, 240	N	-0.0046	pCi/L	U	F		0.0117		C	GEN
WALPOC	SL	3/5/2020	RFS01-01.2003025-010	7440-61-1	Uranium	N	15.3	ug/L		F	0.067			C	GEN
WALPOC	SL	3/12/2020	RFS01-01.2003025-011	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.107	mg/L		F	0.017			G	GEN
WALPOC	SL	3/12/2020	RFS01-13.2003033-003	14596-10-2	Americium-241	N	0.00427	pCi/L	U	F		0.0132		C	GEN
WALPOC	SL	3/12/2020	RFS01-13.2003033-005	14596-10-2	Americium-241	N	0.00407	pCi/L	U	D		0.0103		C	GEN
WALPOC	SL	3/12/2020	RFS01-13.2003033-003	PU-239,240	Plutonium-239, 240	N	-0.00349	pCi/L	U	F		0.0153		C	GEN
WALPOC	SL	3/12/2020	RFS01-13.2003033-005	PU-239,240	Plutonium-239, 240	N	0.0066	pCi/L	U	D		0.0112		C	GEN
WALPOC	SL	3/12/2020	RFS01-13.2003033-003	7440-61-1	Uranium	N	13.9	ug/L		F	0.067			C	GEN
WALPOC	SL	3/12/2020	RFS01-13.2003033-005	7440-61-1	Uranium	N	14.1	ug/L		D	0.067			C	GEN
WALPOC	SL	3/23/2020	RFS01-13.2003034-003	14596-10-2	Americium-241	N	0.0042	pCi/L	U	F		0.00615		C	GEN
WALPOC	SL	3/23/2020	RFS01-13.2003034-003	PU-239,240	Plutonium-239, 240	N	0.0014	pCi/L	U	F		0.00823		C	GEN
WALPOC	SL	3/23/2020	RFS01-13.2003034-003	7440-61-1	Uranium	N	13.3	ug/L		F	0.067			C	GEN
WALPOC	SL	3/23/2020	RFS01-13.2003033-004	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	1.08	mg/L		F	0.085			G	GEN
WALPOC	SL	3/26/2020	RFS01-13.2003034-004	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	1.39	mg/L		F	0.085		J	G	GEN
WALPOC	SL	3/26/2020	RFS01-13.2004035-003	14596-10-2	Americium-241	N	0.00651	pCi/L	U	F		0.0153		C	GEN
WALPOC	SL	3/26/2020	RFS01-13.2004035-003	PU-239,240	Plutonium-239, 240	N	-0.00171	pCi/L	U	F		0.0111		C	GEN
WALPOC	SL	3/26/2020	RFS01-13.2004035-003	7440-61-1	Uranium	N	12.6	ug/L		F	0.067			C	GEN
WOMPOC	SL	1/2/2020	RFS01-13.2001030-002	14596-10-2	Americium-241	N	-5.85E-10	pCi/L	U	F		0.00842		C	GEN
WOMPOC	SL	1/2/2020	RFS01-13.2001030-002	PU-239,240	Plutonium-239, 240	N	0.00265	pCi/L	U	F		0.00521		C	GEN
WOMPOC	SL	1/2/2020	RFS01-13.2001030-002	7440-61-1	Uranium	N	3.07	ug/L		F	0.067			C	GEN
WOMPOC	SL	1/28/2020	RFS01-13.2002031-002	14596-10-2	Americium-241	N	0.0258	pCi/L	U	F		0.0225		C	GEN
WOMPOC	SL	1/28/2020	RFS01-13.2002031-002	PU-239,240	Plutonium-239, 240	N	-0.0023	pCi/L	U	F		0.00842		C	GEN
WOMPOC	SL	1/28/2020	RFS01-13.2002031-002	7440-61-1	Uranium	N	2.69	ug/L		F	0.067			C	GEN
WOMPOC	SL	2/24/2020	RFS01-13.2003032-002	14596-10-2	Americium-241	N	-0.0015	pCi/L	U	F		0.0106		C	GEN
WOMPOC	SL	2/24/2020	RFS01-13.2003032-002	PU-239,240	Plutonium-239, 240	N	0.00115	pCi/L	U	F		0.00933		C	GEN
WOMPOC	SL	2/24/2020	RFS01-13.2003032-002	7440-61-1	Uranium	N	2.89	ug/L		F	0.067			C	GEN
WOMPOC	SL	3/3/2020	RFS01-01.2003025-013	14596-10-2	Americium-241	N	0.00114	pCi/L	U	F		0.00499		C	GEN
WOMPOC	SL	3/3/2020	RFS01-01.2003025-014	14596-10-2	Americium-241	N	0.00527	pCi/L	U	D		0.00746		C	GEN
WOMPOC	SL	3/3/2020	RFS01-01.2003025-013	PU-239,240	Plutonium-239, 240	N	0.00285	pCi/L	U	F		0.0137		C	GEN
WOMPOC	SL	3/3/2020	RFS01-01.2003025-014	PU-239,240	Plutonium-239, 240	N	0.00291	pCi/L	U	D		0.00807		C	GEN
WOMPOC	SL	3/3/2020	RFS01-01.2003025-013	7440-61-1	Uranium	N	2.27	ug/L		F	0.067			C	GEN
WOMPOC	SL	3/3/2020	RFS01-01.2003025-014	7440-61-1	Uranium	N	2.33	ug/L		D	0.067			C	GEN

Appendix B
Analytical Results for Water Samples—First Quarter CY 2020
RFLMA Data

LOCATION_CODE	LOCATION_TYPE	DATE SAMPLED	SAMPLE CODE	CAS	ANALYTE	FILTRATION STATUS	RESULT	UNITS	LAB QUALIFIERS	SAMPLE TYPE	DETECTION LIMIT	UNCER-TAINTY	DATA VALIDATION QUALIFIERS	COLLECTION METHOD	LAB CODE
WOMPOC	SL	3/13/2020	RFS01-13.2003033-002	14596-10-2	Americium-241	N	0.00669	pCi/L	U	F		0.0135		C	GEN
WOMPOC	SL	3/13/2020	RFS01-13.2003033-002	PU-239,240	Plutonium-239, 240	N	0.00681	pCi/L	U	F		0.0104		C	GEN
WOMPOC	SL	3/13/2020	RFS01-13.2003033-002	7440-61-1	Uranium	N	2.08	ug/L		F	0.067			C	GEN
WOMPOC	SL	3/23/2020	RFS01-13.2003034-002	14596-10-2	Americium-241	N	0.00428	pCi/L	U	F		0.00891		C	GEN
WOMPOC	SL	3/23/2020	RFS01-13.2003034-002	PU-239,240	Plutonium-239, 240	N	-7.03E-10	pCi/L	U	F		0.00780		C	GEN
WOMPOC	SL	3/23/2020	RFS01-13.2003034-002	7440-61-1	Uranium	N	1.35	ug/L		F	0.067			C	GEN
WOMPOC	SL	3/26/2020	RFS01-13.2004035-002	14596-10-2	Americium-241	N	0.00187	pCi/L	U	F		0.0176		C	GEN
WOMPOC	SL	3/26/2020	RFS01-13.2004035-002	PU-239,240	Plutonium-239, 240	N	0.00533	pCi/L	U	F		0.00826		C	GEN
WOMPOC	SL	3/26/2020	RFS01-13.2004035-002	7440-61-1	Uranium	N	1.56	ug/L		F	0.067			C	GEN

EXPLANATION

FILTRATION STATUS

N = Sample was not filtered.
Y = Sample was filtered.

UNITS

mg/L; ppm = milligrams per liter
pCi/L = picocuries per liter
ug/L = micrograms per liter
C = degrees celsius
mS/cm = milliSiemens per centimeter
NTU = normal turbidity units
s.u. = standard pH units
uS/cm = microSiemens per centimeter
umhos/cm = microSiemens per centimeter

SAMPLE_TYPE

F = Field Sample
D = Duplicate

DATA_VALIDATION_QUALIFIERS

<NULL>	No qualifiers
F	Low flow sampling method used.
G	Possible grout contamination, pH > 9.
J	Estimated value.
L	Less than 3 bore volumes purged prior to sampling.
Q	Qualitative result due to sampling technique
R	Unusable result.
U	Parameter analyzed for but was not detected.
X	Location is undefined.
999	Validation not complete

LAB_QUALIFIERS

*	Replicate analysis not within control limits.
+	Correlation coefficient for MSA < 0.995.
>	Result above upper detection limit.
A	TIC is a suspected aldol-condensation product.
B	Inorganic: Result is between the IDL and CRDL. Organic & Radiochemistry: Analyte also found in method blank.
C	Pesticide result confirmed by GC-MS.
D	Analyte determined in diluted sample.
E	Inorganic: Estimate value because of interference, see case narrative. Organic: Analyte exceeded calibration range of the GC-MS.
H	Holding time expired, value suspect.
I	Increased detection limit due to required dilution.
J	Estimated
M	GFAA duplicate injection precision not met.
N	Inorganic or radiochemical: Spike sample recovery not within control limits. Organic: Tentatively identified compund (TIC).
P	> 25% difference in detected pesticide or Arochlor concentrations between 2 columns.
S	Result determined by method of standard addition (MSA).
U	Analytical result below detection limit.
W	Post-digestion spike outside control limits while sample absorbance < 50% of analytical spike absorbance.
X	Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
Y	Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
Z	Laboratory defined (USEPA CLP organic) qualifier, see case narrative.

LOCATION_TYPE

SL	SURFACE LOCATION
TS	TREATMENT SYSTEM
WL	WELL

COLLECTION_METHOD

G	Grab
C	Composite

LAB_CODE

GEN	Gel Laboratories LLC
STD	Eurofins Test America

Information for RFLMA Composite Samples with Unavailable Data

Location	Sample Dates*	Status
None		

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