REVISION 0

NORTH ST. LOUIS COUNTY SITES ANNUAL ENVIRONMENTAL MONITORING DATA AND ANALYSIS REPORT FOR CALENDAR YEAR 2023

ST. LOUIS, MISSOURI

JULY 11, 2024

U.S. Army Corps of Engineers
St. Louis District Office
Formerly Utilized Sites Remedial Action Program

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JULY 11, 2024

prepared by
U.S. Army Corps of Engineers St. Louis District Office
Formerly Utilized Sites Remedial Action Program

with assistance from
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BACK COVER

The primary distribution format for this document is electronic files. If printed copies are distributed, the following portions will be included on a CD-ROM on the back cover of the report instead of being printed: Appendices C, D, E, F, and H.

ACRONYMS AND ABBREVIATIONS

Ac	actinium
AEC	Atomic Energy Commission
Am	americium
amsl	above mean sea level
ARAR	applicable or relevant and appropriate requirement
ATD	alpha track detector
bgs	below ground surface
BMP	best management practice
BOD	biological oxygen demand
BTOC	below top of casing
CEDE	committed effective dose equivalent
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CERCLIS	Comprehensive Environmental Response, Compensation, and Liability Information System
CFR	*Code of Federal Regulations*
COC	contaminant of concern
COD	chemical oxygen demand
Cs	cesium
CSR	*Code of State Regulations*
CWC	Coldwater Creek
CY	calendar year
DCF	dose conversion factor
DHSS	Department of Health and Senior Services
DL	detection limit
DO	dissolved oxygen
DoD	U.S. Department of Defense
DOE	U.S. Department of Energy
DQO	data quality objective
EDE	effective dose equivalent
EE/CA	engineering evaluation/cost analysis
ELAP	Environmental Laboratory Accreditation Program
EM	Engineer Manual
EMDAR	Environmental Monitoring Data and Analysis Report
EMG	*Environmental Monitoring Guide for the St. Louis Sites*
EMICY23	*Environmental Monitoring Implementation Plan for the North St. Louis County Sites for CY 2023*
EMP	Environmental Monitoring Program
FUSRAP	Formerly Utilized Sites Remedial Action Program
Futura	Futura Coatings Company
HISS	Hazelwood Interim Storage Site
HZ	hydrostratigraphic zone
I	Interstate
IA	investigation area
ICP	inductively coupled plasma
ICRP	International Commission on Radiation Protection
K	potassium

ACRONYMS AND ABBREVIATIONS (Continued)

KPA	kinetic phosphorescence analysis
LCS	laboratory control sample
LCL_{95}	95 percent lower confidence limit
MARSSIM	*Multi-Agency Radiation Survey and Site Investigation Manual*
MDA	minimum detectable activity
MDC	minimum detectable concentration
MDL	method detection limit
MDNR	Missouri Department of Natural Resources
MED	Manhattan Engineer District
MSD	Metropolitan St. Louis Sewer District
NAD	normalized absolute difference (unitless)
NARA	National Archives and Records Administration
NC	North St. Louis County
NCRP	National Council on Radiation Protection and Measurement
NESHAP	National Emissions Standards for Hazardous Air Pollutants
NPDES	National Pollutant Discharge Elimination System
NPL	National Priorities List
NRC	U.S. Nuclear Regulatory Commission
ORNL	Oak Ridge National Laboratory
ORP	oxidation reduction potential
Pa	protactinium
PCB	polychlorinated biphenyl
PDI	pre-design investigation
QA	quality assurance
QAPP	quality assurance program plan
QC	quality control
QSM	*Department of Defense (DoD)/Department of Energy (DOE) Consolidated Quality Systems Manual (QSM) for Environmental Laboratories*
Ra	radium
RA	remedial action
RCRA	Resource Conservation and Recovery Act
RG	remediation goal
RL	reporting limit
RME	reasonably maximally exposed
Rn	radon
ROD	*Record of Decision for the North St. Louis County Sites*
RPD	relative percent difference
S	test statistic
SAG	*Sampling and Analysis Guide for the St. Louis Sites*
SLAPS	St. Louis Airport Site
SLS	St. Louis Sites
SOP	standard operating procedure
SOR	sum of ratios (unitless)
SS	settleable solid
SU	survey unit
TEDE	total effective dose equivalent
Th	thorium

ACRONYMS AND ABBREVIATIONS (Continued)

TLD	thermoluminescent dosimeter
TPH	total petroleum hydrocarbon
TSS	total suspended solid
U	uranium
UCL	upper confidence limit
UCL_{95}	95 percent upper confidence limit
USACE	U.S. Army Corps of Engineers
USEPA	U.S. Environmental Protection Agency
USGS	U.S. Geological Survey
VQ	validation qualifier
VP	vicinity property
WRS	Wilcoxon Rank Sum

UNIT ABBREVIATIONS

Both English and metric units are used in this report. The units used in a specific situation are based on common unit usage or regulatory language (e.g., depths are given in feet, and areas are given in square meters). Units included in the following list are not defined at first use in this report.

°C	degree(s) Celsius (centigrade)
µCi/mL	microcurie(s) per milliliter
µg/L	microgram(s) per liter
µR	microRoentgen(s)
Ci	curie(s)
ft	foot/feet
ft^3	cubic foot/feet
g	gram(s)
L	liter(s)
m	meter(s)
m^2	square meter(s)
mg	milligram(s)
mg/kg	milligram(s) per kilogram
mg/L	milligram(s) per liter
MGD	million gallons per day
mL	milliliter(s)
mL/L/hour	milliliter(s) per liter per hour
mrem	millirem
mrem/pCi	millirem per picocurie
mS/cm	microSievert(s) per centimeter
mV	millivolt(s)
NTU	nephelometric turbidity unit
pCi/µg	picocurie(s) per microgram
pCi/g	picocurie(s) per gram
pCi/L	picocurie(s) per liter
s.u.	standard unit
WL	working level
WLM	working level month
yd^3	cubic yard(s)

EXECUTIVE SUMMARY

This annual Environmental Monitoring Data and Analysis Report (EMDAR) for calendar year (CY) 2023 applies to the North St. Louis County (NC) Sites, which are within the St. Louis Sites (SLS) (Figure 1-1) and under the scope of the Formerly Utilized Sites Remedial Action Program (FUSRAP). This EMDAR provides an evaluation of the data collected as part of the implementation of the Environmental Monitoring Program (EMP) for the NC Sites. The NC Sites consist of the St. Louis Airport Site (SLAPS), the SLAPS vicinity properties (VPs) (Figure 1-2), and the Latty Avenue Properties (i.e., the Hazelwood Interim Storage Site [HISS], the Futura Coatings Company [Futura], and eight Latty Avenue VPs) (Figure 1-3). Additional environmental data were collected along Coldwater Creek (CWC), which flows adjacent to the SLAPS, near the HISS, and north of U.S. Interstate (I)-270 to the Missouri River. Environmental monitoring of various media at each of the NC Sites is required in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and the commitments in the *Record of Decision for the North St. Louis County Sites* (ROD) (USACE 2005).

The purpose of this EMDAR is to document the environmental monitoring activities and to assess whether remedial actions (RAs) at the NC Sites had a measurable environmental impact. In addition, this EMDAR serves to report the current condition of the NC Sites, summarize the data collection efforts for CY 2023, and provide analysis of the CY 2023 environmental monitoring data results.

The U.S. Army Corps of Engineers (USACE) St. Louis District collects comprehensive environmental data for decision-making and planning purposes. Environmental monitoring, performed as a best management practice (BMP) or as a component of RAs, serves as a critical component in the evaluation of the current status and potential future migration of residual contaminants.

The environmental monitoring described in the *Environmental Monitoring Implementation Plan for the North St. Louis County Sites for CY 2023* (EMICY23) (USACE 2022) was conducted as planned, and the results are documented in this EMDAR. The evaluation of environmental monitoring data for all NC Sites demonstrates compliance with ROD (USACE 2005) goals and applicable or relevant and appropriate requirements (ARARs).

RADIOLOGICAL AIR MONITORING

Radiological air data were collected and evaluated at the NC Sites through airborne radioactive particulate, radon (indoor and outdoor), and gamma radiation monitoring, as required in the EMICY23 (USACE 2022). In addition to being used for environmental monitoring purposes, radiological air data were also used as inputs to calculate the total effective dose equivalent (TEDE) to the reasonably maximally exposed (RME) member of the public for the NC Sites.

Each TEDE calculated for the RME individual at each NC Site was 3.5 mrem or less per year. The calculated TEDEs are compliant with the 100 mrem per year limit provided in 10 *Code of Federal Regulations (CFR)* 20.1301.

The radiological air monitoring results conducted at the NC Sites demonstrate compliance with all ARARs for the NC Sites. The ARARs are described in Tables 2-1 through 2-4 of the EMICY23 (USACE 2022).

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM MONITORING

Discharge requirements for the NC Sites are currently set by the Missouri Department of Natural Resources (MDNR) National Pollutant Discharge Elimination System (NPDES) ARARs (permit-equivalent) document dated October 2, 1998, (MDNR 1998) and amended in a letter from the MDNR dated February 19, 2002 (MDNR 2002).

The stormwater sampling results for the NC Sites demonstrate compliance with the discharge limits described in Section 2.2.2 of the EMICY23 (USACE 2022).

EXCAVATION WATER DISCHARGE MONITORING

CY 2023 was the 22nd year that excavation water was monitored, treated, discharged from the NC Sites, and reported. Excavation water discharged from the NC Sites to the sanitary sewer system is subject to the requirements stated in the July 23, 2001, Metropolitan St. Louis Sewer District (MSD) authorization letter (MSD 2001) and the selenium discharge variance letter for the SLAPS dated February 10, 2005 (MSD 2005). This authorization was extended for 2 years through the issuance of a letter dated June 7, 2022, from Mr. Steve Grace to Mr. David Evans. This authorization expires on July 23, 2024 (MSD 2022). The selenium discharge variance for the SLAPS was not utilized in CY 2023 (MSD 2005, 2012). There is no longer a requirement to analyze for barium, lead, or selenium after the first two batches from new investigative areas (MSD 2012).

Wastewater from the FUSRAP St. Louis Radioanalytical Laboratory was discharged in accordance with the MSD discharge authorization letter dated June 7, 2022. This MSD special discharge approval expires on July 23, 2024 (MSD 2022).

The data collected at the NC Sites were compared to discharge limits described in Section 2.2.2 of the EMICY23 (USACE 2022). During CY 2023, approximately 1,976,461 gallons of excavation water were discharged to the MSD. On January 18, 2023, the USACE notified the MSD that the site discharged more than 100,000 gallons of excavation water on January 10, 2023, exceeding the daily limit. No other exceedances of the MSD limits occurred at the project laboratory or the NC Sites.

COLDWATER CREEK MONITORING

The CY 2023 CWC surface water and sediment sampling events, which were completed in April and October of 2023, evaluated the physical, radiological, and chemical conditions in the creek. During the April and October sampling events, samples were collected at each of the 10 surface water and sediment sampling locations (CWC002 through CWC011). These sampling locations are shown on Figure 3-2.

Two surface water sampling events were also planned for CWC during high-flow conditions as a BMP to determine if the creek is being measurably affected by contaminant of concern (COC) migration. However, due to the lack of high-flow conditions as defined in the EMICY23, high-flow sampling was not conducted in CY 2023.

Starting on July 24, 2023, CWC surface water samples were collected downstream from the removal actions that occurred at CWC-386, CWC-387, and CWC-388 (Northwest Bank of CWC). These samples were collected daily on days with active removal actions within the CWC corridor to verify no detrimental effect to water quality occurred.

The data collected were compared to the monitoring guidelines and/or remediation goals (RGs) described in Section 2.2.3 of the EMICY23 (USACE 2022). The results of the surface water and sediment sampling conducted in CWC demonstrate compliance with ARARs for the NC Sites.

GROUNDWATER MONITORING

Groundwater was sampled during CY 2023 at the NC Sites following a protocol for individual wells and analytes. Groundwater was analyzed for various radiological constituents and for inorganic parameters. Static groundwater elevations for all NC Site wells were measured quarterly. An expanded groundwater monitoring event was added in CY 2023. This comprehensive sampling event included the collection of groundwater samples from the entire well network of 24 wells for the NC Sites.

The environmental sampling requirements and groundwater monitoring guidelines for each analyte are consistent with the EMICY23 (USACE 2022) and were used for comparison and discussion purposes. The ROD groundwater monitoring guidelines (henceforth referred to as ROD guidelines) for assessing groundwater sampling data at the NC Sites (the Latty Avenue Properties, the SLAPS, and the SLAPS VPs) are presented in Section 2.2.4 of the EMICY23 (USACE 2022) and in Section 4.0 and Appendix F of this EMDAR. For those wells at which an analyte exceeded the ROD guidelines at least once during CY 2023 and sufficient data were available to evaluate trends, Mann-Kendall Trend Tests were completed to assess whether analyte concentrations were increasing or decreasing through time.

LATTY AVENUE PROPERTIES

Groundwater sampling was conducted at all seven hydrostratigraphic zone (HZ)-A groundwater monitoring wells at the Latty Avenue Properties during CY 2023. COC concentrations in four wells (molybdenum and total uranium [U] in HISS-01; molybdenum, nickel, selenium, and U-234 in HISS-10; molybdenum in HISS-11A; and selenium and vanadium in HW22) exceeded the ROD guideline in HZ-A groundwater at the Latty Avenue Properties during CY 2023. Because a significant degradation of CWC surface water has not occurred and is not anticipated, no findings currently indicate significantly degraded groundwater conditions in HZ-A groundwater as defined by the ROD.

Groundwater samples were collected from one HZ-C well during CY 2023. Concentrations of all inorganic and radiological soil COCs were below the ROD groundwater guidelines in CY 2023 groundwater samples from the HZ-C well HW23. Therefore, a trend analysis was not conducted for HZ-C groundwater.

The Mann-Kendall Trend Test was performed for four COCs in four HZ-A wells (molybdenum and total U in HISS-01; molybdenum, selenium, and U-234 in HISS-10; molybdenum in HISS-11A; and selenium in HW22) during CY 2023. A statistically significant increasing trend was identified for molybdenum in HISS-01, HISS-10, and HISS-11A. A statistically significant increasing trend was identified for selenium concentrations in HISS-10 and HW22. A statistically significant increasing trend was identified for U-234 in HISS-10 and for total U in HISS-01. For the purposes of this trend analysis, a statistically significant trend in concentration is defined as a trend with a confidence level greater than 95 percent. The confidence level denotes the probability that the indicated trend is an actual trend in the data, rather than a result of the random nature of environmental data.

The potentiometric data indicate some mounding of HZ-A groundwater at the HISS and Futura. Potentiometric mounding is an area with a higher potentiometric elevation surrounded by areas

of lower potentiometric elevations. Wells HISS-01, HISS-06A, HISS-10, and HISS-17S have the highest potentiometric surface elevations, with lower groundwater elevations measured in the surrounding wells. At the western edge of the HISS and Futura, groundwater in HZ-A flows to the west toward CWC.

The potentiometric surface of the HZ-C groundwater at the Latty Avenue Properties is not well defined due to the limited data available for the deeper HZs. Based on measured groundwater elevations in the HZ-C monitoring well HW23 at the Latty Avenue Properties and several HZ-C wells located to the southwest at the SLAPS and the SLAPS VPs, the flow direction in HZ-C groundwater beneath the Latty Avenue Properties is generally toward the southeast.

ST. LOUIS AIRPORT SITE AND ST. LOUIS AIRPORT SITE VICINITY PROPERTIES

At the SLAPS and the SLAPS VPs, all 16 groundwater wells were sampled for various parameters during CY 2023. A total of 11 wells, screened in HZ-A, were sampled at the SLAPS and the adjacent SLAPS VP Ballfields. Five inorganic analytes (barium, cadmium, nickel, selenium, and vanadium) and one radiological contaminant (total U) were detected in HZ-A groundwater at concentrations in excess of the ROD guidelines. A comparison of the data indicates that only total U concentrations in PW46 exceeded the ROD guidelines for a period of at least 12 months or when measurement error is taken into account. Because a significant degradation of CWC surface water has not occurred and is not anticipated to occur, no findings currently indicate significantly degraded groundwater conditions in HZ-A groundwater, as defined by the ROD. However, because total U levels exceeded the ROD guidelines for a period of at least 12 months, monitoring will continue subject to subsequent CERCLA 5-year reviews.

During CY 2023, 5 wells screened across the deeper HZs (HZ-C through HZ-E) were sampled at the SLAPS and the SLAPS VPs. Concentrations of cadmium exceeded ROD groundwater criteria in PW35 in CY 2023. Cadmium exceeded the ROD guideline when measurement error was taken into account for a period of at least 12-months. However, a Mann-Kendall Trend Test could not be performed for the cadmium results in PW35 because less than 50 percent of the time-series data were above the detection limit (DL). Because a significant degradation of CWC surface water has not occurred and is not anticipated to occur, no findings currently indicate significantly degraded groundwater conditions in HZ-C through HZ-E groundwater at the SLAPS and the SLAPS VPs.

The Mann-Kendall Trend Test was performed for barium in B53W06S, nickel in B53W07S, selenium in B53W17S, and cadmium and total U in PW46. Statistically significant increasing trends were observed for barium concentrations in B53W06S and nickel concentrations in B53W07S. No trend was observed for cadmium in PW46. A statistically significant decreasing trend was observed for selenium in B53W17S and total U in PW46.

Potentiometric surface maps were created from groundwater elevations measured in May and November to illustrate groundwater flow conditions in wet and dry seasons. The potentiometric data indicate groundwater flow northwesterly toward CWC in the HZ-A at the SLAPS. The flow direction in the HZ-C groundwater at the SLAPS is generally southeast.

1.0 HISTORICAL SITE BACKGROUND AND CURRENT SITE STATUS

1.1 INTRODUCTION

This annual Environmental Monitoring Data and Analysis Report (EMDAR) for calendar year (CY) 2023 applies to the North St. Louis County (NC) Sites, which are within the St. Louis Sites (SLS) (Figure 1-1), and under the scope of the Formerly Utilized Sites Remedial Action Program (FUSRAP). This EMDAR provides an evaluation of the data collected as part of the implementation of the Environmental Monitoring Program (EMP) for the NC Sites. The NC Sites consist of the St. Louis Airport Site (SLAPS), the SLAPS vicinity properties (VPs) (Figure 1-2), and the Latty Avenue Properties (i.e., the Hazelwood Interim Storage Site [HISS], the Futura Coatings Company [Futura], and eight Latty Avenue VPs) (Figure 1-3). Additional environmental data were collected along Coldwater Creek (CWC), which flows adjacent to the SLAPS, near the HISS, and north of U.S. Interstate (I)-270 to the Missouri River. Environmental monitoring of various media at each of the NC Sites is required in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and the *Record of Decision for the North St. Louis County Sites* (ROD) (USACE 2005).

1.2 PURPOSE

The purpose of this EMDAR is to document the environmental monitoring activities and to assess whether remedial actions (RAs) at the NC Sites had a measurable environmental impact. In addition, this EMDAR serves to report the current condition of the NC Sites, summarize the data collection efforts for CY 2023, and provide analysis of the CY 2023 environmental monitoring data results. This EMDAR presents the following information:

- Sample collection data for various media at each site and interpretation of CY 2023 EMP results;
- The compliance status of each site with federal and state applicable or relevant and appropriate requirements (ARARs) or other benchmarks (e.g., *Environmental Monitoring Implementation Plan for the North St. Louis County Sites for CY 2023* [EMICY23] [USACE 2022]);
- Dose assessments for radiological contaminants as appropriate;
- A summary of trends based on changes in contaminant concentration, to support RAs, ensure public safety, and maintain surveillance monitoring requirements at each site; and
- The identification of data gaps and future EMP needs.

1.3 ST. LOUIS SITE PROGRAM AND SITE BACKGROUND

The FUSRAP was executed by the U.S. Atomic Energy Commission (AEC) in 1974 to identify, remediate, or otherwise control sites at which residual radioactivity remains from operations conducted for the Manhattan Engineer District (MED) and AEC during the early years of the nation's atomic energy program. The FUSRAP was continued by the follow-on agencies to the AEC until 1997, when the U.S. Congress transferred responsibility for the FUSRAP to the U.S. Army Corps of Engineers (USACE).

On October 4, 1989, the SLAPS, the HISS, and Futura were placed on the U.S. Environmental Protection Agency (USEPA) National Priorities List (NPL) under the site name "St. Louis

Airport/Hazelwood Interim Storage/Futura Coatings Co." (Comprehensive Environmental Response, Compensation, and Liability Information System [CERCLIS] No. MOD980633176). The three NPL sites have been involved with the following: refinement of uranium ores, production of uranium metal and compounds, uranium recovery from residues and scrap, and the storage and disposal of associated process byproducts.

Detailed descriptions and histories for each site can be found in the *Remedial Investigation Report for the St. Louis Site* (U.S. Department of Energy [DOE] 1994), *Remedial Investigation Addendum for the St. Louis Site* (DOE 1995), *St. Louis Airport Site (SLAPS) Interim Action Engineering Evaluation/Cost Analysis (EE/CA)* (DOE 1997), *Engineering Evaluation/Cost Analysis (EE/CA) and Responsiveness Summary for the St. Louis Airport Site (SLAPS)* (USACE 1998a), *Environmental Evaluation/Cost Analysis (EE/CA) for the Hazelwood Interim Storage Site (HISS)* (USACE 1998b), the *Environmental Monitoring Guide for the St. Louis Sites* (EMG) (USACE 1999a), and the ROD (USACE 2005).

USACE NC Sites documents finalized in CY 2023 are listed in Appendix A.

1.3.1 Latty Avenue Properties Calendar Year 2023 Remedial Actions

In CY 2023, no RAs were performed at the Latty Avenue Properties (Figure 1-2).

During CY 2023, no *Multi-Agency Radiation Survey and Site Investigation Manual* (MARSSIM) (U.S. Department of Defense [DoD] 2000) Class 1, Class 2, or Class 3 verifications were performed at the Latty Avenue Properties. Verifications are performed to confirm the ROD remediation goals (RGs) were achieved. No characterizations/pre-design investigations (PDIs) were performed at the Latty Avenue Properties in CY 2023.

1.3.2 St. Louis Airport Site and the St. Louis Airport Site Vicinity Properties Calendar Year 2023 Remedial Actions

In CY 2023, RAs were performed at the following SLAPS-related VPs and investigation areas (IAs) (Figure 1-2): the IA-09 Ballfields; VP-56; Pershall Road; and CWC-386, CWC-387, CWC-388, and the Adjacent Metropolitan St. Louis Sewer District (MSD) Right-of Way. RAs at the IA-09 Ballfields continued through the fourth quarter. RAs on the northern portion of VP-56 were completed in the first quarter. RAs at Pershall Road continued through the first quarter and were completed in the second quarter. RAs at CWC-386, CWC-387, CWC-388, and the Adjacent MSD Right-of Way started in the third quarter and continued through the fourth quarter. During these RAs, 22,935 yd^3 of contaminated material were shipped from the SLAPS IAs and VPs via railcar to US Ecology, Inc., in Idaho and Michigan. Additionally, loadout activities were performed at the SLAPS.

During CY 2023, MARSSIM Class 1 verifications were performed at the IA-08 James S McDonnell Boulevard (survey unit [SU]-1), IA-09 Ballfields (In-Situ Overburden Lift 1 through Lift 6 and at SU-30 and SU-31), VP-56 (SU-1), Pershall Road (SU-1 through SU-4), and CWC-386, CWC-387, CWC-388, and the Adjacent MSD Right-of Way (SU-1 through SU-9). No MARSSIM Class 2 or Class 3 final status surveys were performed in CY 2023.

Characterizations/PDIs were performed at the following SLAPS IAs and VPs in CY 2023: CWC and 44 adjacent CWC-floodplain properties. Based on final status survey evaluations performed in CY 2023, Class 2 sample results did not exceed RGs for 79 properties.

In CY 2023, no Resource Conservation and Recovery Act (RCRA) hazardous waste was generated or shipped.

No monitoring wells were decommissioned in CY 2023.

In accordance with the MSD authorization letter, 1,976,461 gallons of excavation water were discharged from the NC Sites in CY 2023. Since the beginning of the project, 49,906,002 gallons have been treated and released to the MSD from the NC Sites.

Starting in the fourth quarter of CY 2023, the USACE planned to compile an inventory of and inspect the CWC parcels with known contamination, documenting the contamination status (e.g., surface, subsurface, etc.) and site configuration conditions (e.g., cover material [e.g., vegetation, pavement, riprap, etc.], adjacent structures, access agreements, etc.) with a checklist, maps and digital images. The completed inspection checklists and inventory were to be compiled and documented on a quarterly basis. However, final approval was never granted in CY 2023 to initiate this work and inventories were not completed in CY 2023.

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2.0 EVALUATION OF RADIOLOGICAL AIR MONITORING DATA

This section documents environmental monitoring activities related to radiological air data. The radiological air monitoring conducted at the NC Sites is part of the EMP. Radiological air data are collected to evaluate the compliance status of each site with ARARs, to evaluate trends, and to perform dose assessments for radiological contaminants as appropriate at each site. Section 2.1 includes a description of the types of radiological air monitoring conducted at the NC Sites, potential sources of the contaminants to be measured (including natural background), and measurement techniques employed during CY 2023.

All radiological air monitoring required through implementation of the EMICY23 (USACE 2022) was conducted as planned in CY 2023. The evaluations of radiological air monitoring data for all NC Sites demonstrate compliance with ARARs (e.g., National Emissions Standards for Hazardous Air Pollutants [NESHAP] report [Appendix B]).

A total effective dose equivalent (TEDE) for the reasonably maximally exposed (RME) member of the public at each of the NC Sites was calculated by summing the dose due to gamma radiation, radiological air particulates, and radon, as applicable. The TEDE calculated for the RME individual at each of the NC Sites was less than or equal to 3.5 mrem per year. The calculated TEDE is compliant with the 100 mrem per year limit prescribed in 10 *Code of Federal Regulations (CFR)* 20.1301. Details of the radiological dose assessment (TEDE calculation) are presented in Section 6.0.

2.1 RADIOLOGICAL AIR MEASUREMENTS

The three types of radiological air monitoring conducted at the NC Sites in CY 2023 were gamma radiation, airborne radioactive particulates, and airborne radon. Sections 2.2 and 2.3 provide details of the air monitoring conducted at the Latty Avenue Properties, the SLAPS, and the SLAPS VPs.

2.1.1 Gamma Radiation

Gamma radiation is emitted from natural, cosmic, and manmade sources. The earth naturally contains gamma radiation-emitting substances, such as the uranium decay series, the thorium decay series, and potassium (K)-40. Cosmic radiation originates in outer space and filters through the atmosphere to the earth. Together, these two sources comprise the majority of natural gamma background radiation. The National Council on Radiation Protection and Measurements (NCRP) estimates that the total naturally occurring background radiation dose equivalent due to gamma exposure is 51 mrem per year, 20 mrem per year of which originates from sources on earth and 31 mrem per year of which originates from cosmic sources (NCRP 2009). The background monitoring location for the NC Sites (Figure 2-1) is reasonably representative of background gamma radiation for the St. Louis metropolitan area (Appendix C, Table C-3).

Gamma radiation was measured at the NC Sites in CY 2023 using thermoluminescent dosimeters (TLDs). TLDs were placed at site boundaries or at locations representative of areas accessible to the public (Figures 2-2 and 2-3) in order to provide input for calculation of TEDE.

The TLDs were placed at the monitoring location approximately 3 to 5 ft above the ground surface inside a housing shelter to represent whole-body exposure. The TLDs were collected quarterly and sent to a properly certified, off-site laboratory for analysis (Appendix C, Table C-3).

2.1.2 Airborne Radioactive Particulates

2.1.2.1 Air Sampling

Airborne radioactive particulates result from radionuclides in soil that become suspended in the air. The radionuclides in soil normally become airborne as a result of wind erosion of the surface soil or as a result of soil disturbance (e.g., excavation). This airborne radioactive material includes naturally occurring background concentrations (Appendix C, Table C-1), as well as above-background concentrations of radioactive materials present at the NC Sites.

Airborne radioactive particulates were measured at the NC Sites by drawing air through a filter membrane with an air sampling pump placed approximately 3 to 5 ft above the ground (to represent the breathing zone) and then analyzing the material contained on the filter. The results of the analysis, when compared to the amount of air drawn through the filter, were reported as radioactive contaminant concentrations (i.e., µCi/mL). Particulate air monitors were located at excavation and loadout area perimeter locations (Figure 2-3), as appropriate, to provide input for the NESHAP report and calculation of TEDE to the critical receptor. Air particulate samples were typically collected daily or on the first working day after a weekend.

2.1.2.2 Estimation of Emissions in Accordance with the National Emission Standard for Hazardous Air Pollutants

The NC Sites CY 2023 NESHAP report (Appendix B) presents calculation of the effective dose equivalent (EDE) from radionuclide emissions to critical receptors in accordance with the NESHAP. The report is prepared in accordance with the requirements and procedures contained in 40 *CFR* 61, Subpart I.

Emission rates calculated using air sampling data, activity fractions, and other site-specific information were used as inputs to the USEPA CAP88-PC Version 4.1 computer code (USEPA 2020) to demonstrate compliance with the 10 mrem per year ARAR prescribed in 40 *CFR* 61, Subpart I.

CY 2023 monitoring results for the NC Sites demonstrate compliance with the 10 mrem per year ARAR prescribed in 40 *CFR* 61, Subpart I.

2.1.3 Airborne Radon

Uranium (U)-238 is a naturally occurring radionuclide commonly found in soil and rock. Radon (Rn)-222 is a naturally occurring radioactive gas found in the uranium decay series. A fraction of the radon produced from the radioactive decay of naturally occurring U-238 diffuses from soil and rock into the atmosphere, accounting for natural background airborne radon concentrations. The NCRP estimates the total naturally occurring background radiation dose equivalent due to radon exposure is 230 mrem per year (NCRP 2009). In addition to this natural source, radon is produced from the above-background concentrations of radioactive materials present at the NC Sites.

Outdoor airborne radon concentration is governed by the emission rate and dilution factors, both of which are strongly affected by meteorological conditions. Surface soil is the largest source of radon. Secondary contributors include oceans, natural gas, geothermal fluids, volcanic gases, ventilation from caves and mines, and coal combustion. Radon levels in the atmosphere have been observed to vary with height above the ground, season, time of day, and location. The primary meteorological parameter governing airborne radon concentration is atmospheric stability; however, the largest variations in atmospheric radon occur spatially (USEPA 1987).

Radon alpha track detectors (ATDs) were used at the NC Sites to measure alpha particles emitted from radon and its associated decay products. The background monitoring location for the SLS (Figure 2-1) is reasonably representative of background radon concentrations for the St. Louis metropolitan area. Radon ATDs were co-located with environmental TLDs approximately 3 to 5 ft above the ground surface (to represent the breathing zone) in housing shelters at the site boundaries or at locations representative of areas accessible to the public (Figures 2-2 and 2-3). Outdoor ATDs were collected approximately every 6 months and sent to a properly certified off-site laboratory for analysis (Appendix C, Table C-2). Recorded radon concentrations are listed in pCi/L and are used to provide input for calculation of TEDE.

At the NC Sites, ATDs were also placed in locations within applicable structures to monitor for indoor radon exposure. The ATDs were placed in areas that represent the highest likely exposure from indoor radon. ATD locations were chosen with consideration given to known radium (Ra)-226 concentrations under applicable buildings and occupancy time at any one location within each building (Figure 2-2). Annual average indoor radon data in each applicable building were compared to the 40 *CFR* 192.12(b)(1) ARAR value of 0.02 WL. In accordance with 40 *CFR* 192.12(b)(1), reasonable effort shall be made to achieve, in each habitable or occupied building, an annual average (or equivalent) radon decay product concentration (including background) not to exceed 0.02 WL. In any case, the radon decay product concentration shall not exceed 0.03 WL. Background indoor radon monitors were not necessary, because the regulatory standard of 0.02 WL includes background. Indoor ATDs were also collected approximately every 6 months and sent to a properly certified off-site laboratory for analysis (Appendix C, Table C-2).

CY 2023 monitoring results for the NC Sites demonstrate compliance with the 0.02 WL ARAR prescribed by 40 *CFR* 192.12(b)(1) with the exception of the Futura north building office and display area. The north building office and display area average annual radon concentration was 0.021 WL, which is greater than the 40 *CFR* 192.12(b)(1) lower criterion of 0.02 WL, but less than the 40 *CFR* 192.12(b)(1) lower criterion of 0.03 WL. See Section 2.2.4 for further details.

2.2 LATTY AVENUE PROPERTIES

Radiological air particulate monitoring was not conducted at Latty Avenue Properties in CY 2023.

2.2.1 Evaluation of Gamma Radiation Data

External gamma radiation exposure from Latty Avenue Properties other than Futura/VP-40A is considered negligible; therefore, environmental TLD monitoring was not conducted at Latty Avenue Properties other than VP-40A in CY2023. Gamma radiation monitoring was performed at two locations along the railroad tracks on VP-40A (see Figure 2-2) and at the background location to compare on-site/off-site exposure and to provide input for calculation of TEDE to the critical receptor (Section 6.0) in CY 2023. A summary of TLD monitoring data for CY 2023 at VP-40A is shown in Table 2-1. TLD data are contained in Appendix C, Table C-3, of this EMDAR.

Table 2-1. Summary of Futura/VP-40A Gamma Radiation Data for CY 2023

Monitoring Location	Monitoring Station	First Quarter TLD Data (mrem/quarter)		Second Quarter TLD Data (mrem/quarter)		Third Quarter TLD Data (mrem/quarter)		Fourth Quarter TLD Data (mrem/quarter)		CY 2023 Net TLD Data (mrem/year)
		Rpt.	Cor.[a,b]	Rpt.	Cor.[a,b]	Rpt.	Cor.[a,b]	Rpt.	Cor.[a,b]	
Futura/VP-40A	FA-2	15.6	1.2	18.1	0.0	18.1	0.0	18.3	2.0	3.2
	FA-3	16.9	2.6	19.3	1.2	17.1	0.0	20.9	4.8	8.6
Background	BA-1	14.5	---	18.2	---	18.6	---	16.5	---	---

[a] All quarterly data reported from the vendor have been normalized to exactly one quarter's exposure above background.
[b] CY 2023 net TLD data are corrected for background, shelter absorption (s/a = 1.075), and fade.
--- Result calculation not required for background data.
Cor. – Corrected
Rpt. – Reported

2.2.2 Evaluation of Airborne Radioactive Particulate Data

No RA excavations near the Latty Avenue Properties were performed in CY 2023, and potentially contaminated soil is covered by asphalt, concrete, gravel, railroad ballast, and vegetative ground cover; therefore, dose due to air particulate emissions was assumed to be negligible.

2.2.3 Evaluation of Outdoor Airborne Radon Data

Outdoor exposure from Rn-222 from Latty Avenue Properties other than Futura/VP-40A is considered negligible. Therefore, outdoor environmental Rn-222 monitoring was not conducted at Latty Avenue Properties other than Futura/VP-40A in 2023. For the Latty Avenue Properties, outdoor airborne radon monitoring was performed using ATDs placed along the railroad tracks on VP-40A. Two detectors were co-located with TLDs and an additional ATD was located just north of the other two ATDs, as identified on Figure 2-2. Background ATDs were used to compare on-site exposure and off-site background exposure. Outdoor airborne radon data were used as an input for calculation of TEDE to the critical receptor (Section 6). A summary of CY 2023 outdoor radon data at Futura/VP-40A is shown in Table 2-2. Outdoor ATD data are contained in Appendix C, Table C-2 of this EMDAR.

Table 2-2. Summary of Futura/VP-40A Outdoor Airborne Radon (Rn-222) Data for CY 2023

Monitoring Location	Monitoring Station	Average Annual Concentration (pCi/L)		
		01/04/23 to 07/05/23[a] (Uncorrected)	07/05/23 to 01/02/24[a] (Uncorrected)	Average Annual Concentration[b]
Futura/VP-40A	FA-1	0.08	0.24	0.01
	FA-2	0.08	0.24	0.01
	FA-3	0.14	0.27	0.06
Background	BA-1	0.08	0.22	---

[a] Detectors were installed and removed on the dates listed. Data are as reported from the vendor (gross data including background).
[b] Results reported from the vendor are typically time-weighted and averaged to estimate an annual average radon above-background concentration (in pCi/L).
--- Average annual concentration calculation not required for background.

2.2.4 Evaluation of Indoor Airborne Radon Data

Indoor radon monitoring was performed at Futura buildings using ATDs placed at several locations in each Futura building at a height of approximately 3 to 5 ft (to represent breathing zone conditions) to measure radon concentrations. The detectors were located as shown on Figure 2-2. The ATDs were installed in January of CY 2022 at each monitoring location, collected for analysis after approximately 6 months of exposure, and replaced with another set that represents radon exposure for the remainder of the year. Recorded radon concentrations

(in pCi/L) were converted to a radon WL, and an indoor radon equilibrium factor of 0.4 (NCRP 1988) was applied.

The results (including background) were evaluated based on the criteria contained in 40 *CFR* 192.12(b)(1). The average annual radon concentration was less than the 40 *CFR* 192.12(b)(1) criterion of 0.02 WL in each building with the exception of the Building 1 office and display area (Leidos 2024a). The north building office and display area average annual radon concentration was 0.021 WL, which is greater than the 40 *CFR* 192.12(b)(1) lower criterion of 0.02 WL, but less than the 40 *CFR* 192.12(b)(1) lower criterion of 0.03 WL.

The USACE evaluates the concentration of Ra-226 and Ra-228 under or adjacent to buildings because those radionuclides are precursors to Rn-222 and Rn-220, respectively. Within the NC Sites, only the concentrations of Ra-226 in the soil under the buildings at Futura exceed the RGs. Thus, Rn-222 has been monitored within those buildings since 2006 as documented in the annual EMDARs. The display and office room at Futura has the only radon result exceeding the 0.02 WL threshold, ranging from 0.014 to 0.025, but not exceeding the 0.03 WL limit. The USACE added more monitoring devices in the Building 1 display room in 2022 and 2023 to assess possible variations within this large room. The additional results were within the range of previous results. Thus, the vapor intrusion pathway presented by radon is being evaluated and remains below the applicable 0.03 WL limit. The design of the building and the clayey nature of soil underlying the concrete foundation, which restricts horizontal movement of gas to a lower pressure zone, allow for no reasonable interim mitigation for this room.

Table 2-3 includes additional details of the data and calculation methodology used to determine the indoor radon WL in the Futura buildings. Indoor ATD data are contained in Appendix C, Table C-2, of this EMDAR.

Table 2-3. Summary of Futura Indoor Airborne Radon (Rn-222) Data for CY 2023

Monitoring Location	Monitoring Station	Average Annual Concentration (pCi/L)				WL[d]
		01/04/23 to 07/05/23[a]	07/05/23 to 01/02/24[a]	Annual Average[b]	Building/Area Average[c]	
Futura Building 1						
Building 1 Lab	HF-1	1.9	2.4	2.15	2.15	0.009
Building 1 Offices and Display Room	HF-2	4.6	5.6	5.10	5.15	0.021
	HF-11	4.6	6.4	5.50		
	HF-12	3.7	6.0	4.85		
	HF-13	4.2	6.1	5.15		
Building 1 South Storage	HF-3	0.11	0.43	0.27	0.27	0.001
Futura Building 2/3						
North Room	HF-4	0.54	0.7	0.62	0.68	0.003
Paint Room North	HF-5	0.7	0.81	0.76		
Paint Room South	HF-6	0.59	0.54	0.57		
South Room	HF-7	0.78	0.78	0.78		
Futura Building 4						
North Area	HF-8	0.43	0.62	0.53	0.62	0.002
Middle Area	HF-9	0.51	0.73	0.62		
South Area	HF-10	0.59	0.81	0.70		

[a] Detectors were installed and removed on the dates listed. Data are as reported from the vendor.

[b] Results reported from the vendor for two periods are averaged to estimate an annual average radon above-background concentration (in pCi/L).

[c] In each building or area, the average annual result for each monitoring station within the building was used to calculate a building or area average.

[d] The average annual WL is calculated by dividing the average pCi/L by 100 pCi/L per WL and multiplying by 0.4. Reasonable effort shall be made to achieve an average annual WL less than 0.02 and the average annual WL shall not exceed 0.03 WL (40 *CFR* 192.12(b)).

2.3 ST. LOUIS AIRPORT SITE AND ST. LOUIS AIRPORT SITE VICINITY PROPERTIES

Radiological air monitoring was conducted at the excavation and loadout area perimeters at CWC-386, CWC-387, and CWC-388 (Northwest Bank of CWC); IA-09 Ballfields; Pershall Road; VP-56; and the Loadout Area at the SLAPS and the SLAPS VPs in CY 2023.

2.3.1 Evaluation of Gamma Radiation Data

External gamma radiation exposure from the SLAPS VPs is considered negligible; therefore, environmental TLD monitoring was not conducted. Gamma radiation monitoring was performed at the SLAPS in CY 2023 at four site locations surrounding the SLAPS Loadout area (Figure 2-3) and at the background location (Figure 2-1) to compare on-site/off-site exposure and to provide input for calculation of TEDE to the critical receptor (Section 6.0). The EMP uses two TLDs at monitoring station PA-2 (for each monitoring period) to provide additional quality control (QC) of the monitoring data.

A summary of TLD monitoring results for CY 2023 at the SLAPS is shown in Table 2-4. TLD data are contained in Appendix C, Table C-3, of this EMDAR.

Table 2-4. Summary of SLAPS Gamma Radiation Data for CY 2023

Monitoring Location	Monitoring Station	First Quarter TLD Data		Second Quarter TLD Data		Third Quarter TLD Data		Fourth Quarter TLD Data		CY 2023 Net TLD Data (mrem/year)
		(mrem/quarter)								
		Rpt.	Cor.[a,b]	Rpt.	Cor.[a,b]	Rpt.	Cor.[a,b]	Rpt.	Cor.[a,b]	
SLAPS Perimeter	PA-1	18.3	4.2	21.5	3.5	21.7	3.5	21.3	5.2	16.4
	PA-2	20.3	6.4	20.2	2.1	22.2	4.0	24.5	8.7	21.2
	PA-2 dup[c]	20.3	6.4	21.3	3.3	23.5	5.5	24.5	8.7	---
	PA-3	16.2	1.9	17.3	0	19.8	1.3	19.1	2.8	6.0
	PA-4	22.4	8.7	24.6	6.8	25.7	8.0	26.5	10.9	34.3
Background	BA-1	14.5	---	18.2	---	18.6	---	16.5	---	---

[a] All quarterly data reported from the vendor have been normalized to exactly one quarter's exposure.
[b] CY 2023 net TLD data are corrected for background, shelter absorption (s/a = 1.075), and fade.
[c] A QC duplicate is collected at the same time and location, and is analyzed by the same method for evaluating precision in sampling and analysis. Duplicate sample results were not included in calculations.
--- Result calculations are not required.
Cor. – Corrected
Rpt. – Reported

2.3.2 Evaluation of Airborne Radioactive Particulate Data

For the SLAPS and the SLAPS VPs, air sampling for particulate radionuclides was conducted at the perimeter of each active excavation and loadout area throughout CY 2023. Air particulate data were used as inputs to the NESHAP report (Appendix B) and calculation of TEDE to the critical receptor (Section 6.0).

A summary of air particulate monitoring data for the SLAPS and the SLAPS VPs is shown in Table 2-5. Airborne radioactive particulate data are contained in Appendix C, Table C-4, of this EMDAR.

Table 2-5. Summary of SLAPS Airborne Radioactive Particulate Data for CY 2023

Monitoring Location	Average Concentration (μCi/mL)[a]	
	Gross Alpha	Gross Beta
CWC-386, CWC-387, and CWC-388 (Northwest Bank of CWC)	5.16E-15	4.14E-14
IA-09 Ballfields	3.96E-15	2.91E-14
James S McDonnell Boulevard	9.08E-15	4.29E-14
Pershall Rd	4.26E-15	3.42E-14
VP-56	3.65E-15	3.00E-14
SLAPS Loadout	4.04E-15	3.45E-14
Background Concentration[b]	4.96E-15	2.41E-14

[a] Average concentration values for the sampling period by location.
[b] These concentrations are provided for informational purposes only.

2.3.3 Evaluation of Outdoor Airborne Radon Data

Exposure to Rn-222 from the SLAPS VPs is considered negligible; therefore, outdoor environmental Rn-222 monitoring was not conducted. Outdoor airborne radon monitoring was performed at the SLAPS using ATDs placed around the loadout area to measure radon emissions from the site. Four detectors were co-located with TLDs, as identified on Figure 2-3. One additional detector was located at monitoring station PA-2 as a QC duplicate. A background ATD was used to compare on-site exposure and off-site background exposure. Outdoor airborne radon data were used as inputs for calculation of TEDE to the critical receptor (Section 6.0).

A summary of CY 2023 outdoor radon data at the SLAPS is shown in Table 2-6. Outdoor ATD data are contained in Appendix C, Table C-2, of this EMDAR.

Table 2-6. Summary of SLAPS Outdoor Airborne Radon (Rn-222) Data for CY 2023

Monitoring Location	Monitoring Station	Average Annual Concentration (pCi/L)		
		01/04/23 to 07/05/23[a] (Uncorrected)	07/05/23 to 01/02/24[a] (Uncorrected)	Average Annual Concentration[b]
SLAPS Perimeter	PA-1	0.08	0.22	0.00
	PA-2	0.08	0.24	0.01
	PA-2[c]	0.11	0.24	---
	PA-3	0.08	0.22	0.00
	PA-4	0.11	0.24	0.03
Background	BA-1	0.08	0.22	---

[a] Detectors were installed and removed on the dates listed. Data are as reported from the vendor (gross data including background).
[b] Results reported from the vendor for two periods are time-weighted and averaged to estimate an annual average radon above-background concentration (in pCi/L).
[c] A QC duplicate is collected at the same time and location, and is analyzed by the same method for evaluating precision in sampling and analysis.
--- Result calculations are not required.

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3.0 EVALUATION OF EXCAVATION WATER, STORMWATER, SURFACE WATER, AND SEDIMENT MONITORING DATA

This section provides a description of the excavation water, stormwater, surface water, and sediment monitoring activities conducted at the NC Sites, including the monitoring of CWC, in CY 2023. The results obtained from these monitoring activities are presented and evaluated with respect to historical data and the appropriate discharge limits as described in the EMICY23 (USACE 2022).

Section 2.2.2 of the EMICY23 outlines the discharge limits for the stormwater and excavation water discharged at the NC Sites (USACE 2022). The MSD has issued discharge authorization letters for the NC Sites that established discharge-limit-based criteria (MSD 1998, 2001, 2006, 2008, 2010, 2012, 2014, 2016, 2018, 2020, 2022). The pollutants addressed for all NC Sites are identified in Table 2-5 of the EMICY23 (USACE 2022). The pollutants addressed in the National Pollutant Discharge Elimination System (NPDES) permit equivalent for the SLAPS will be applied at all NC Sites and are identified in Table 2-6 of the EMICY23 (USACE 2022). For cases in which the regulatory authorities have not provided radiological contaminant of concern (COC) discharge limits, the 10 *CFR* 20, Appendix B, water effluent values are used to calculate the sum of ratios (SOR) value for each discharge. Additionally, the SOR aids in the establishment of water management protocols. The Missouri Department of Natural Resources (MDNR) has also issued an ARAR document outlining limits for the stormwater outfalls at the SLAPS (MDNR 1998).

3.1 LABORATORY DISCHARGE, EXCAVATION WATER, AND STORMWATER DISCHARGE MONITORING

This section provides a description of the laboratory discharge water, excavation water, and stormwater monitoring activities conducted at the NC Sites in CY 2023. The monitoring results obtained from these activities are presented and compared with the various authorization letters or permit-equivalent limits as presented in the EMICY23 (USACE 2022). The purpose of discharge monitoring at the NC Sites is to maintain compliance with the specific discharge requirements for each respective site.

3.1.1 Metropolitan St. Louis Sewer District Special Discharge Approval for the On-Site FUSRAP St. Louis Radioanalytical Laboratory

In CY 2023, the USACE operated the on-site project laboratory, the FUSRAP St. Louis Radioanalytical Laboratory, located at 112 James S McDonnell Boulevard, Hazelwood, Missouri. The project laboratory wastewater (i.e., glassware cleanup wastewater, decontamination water, and neutralized isotopic separations waste) discharge point is co-located with the primary SLAPS treated wastewater (i.e., accumulated excavation and groundwater) discharge point at MSD manhole 10L3-043S (Figure 3-1). The laboratory operated in accordance with the combined MSD special discharge approval for SLAPS and project laboratory discharges. The MSD special discharge approval expires on July 23, 2024 (MSD 2022).

3.1.2 Evaluation of Stormwater Discharge Monitoring Results

In CY 2023, stormwater monitoring at the SLAPS was conducted to verify compliance with NPDES permit-equivalent requirements. There is one NPDES outfall located at the SLAPS. This outfall has been assigned the station identification PN02 for Outfall 002. PN02 is located at the

termination of a drainage feature that conveys stormwater along the north side of James S McDonnell Boulevard to CWC (Figure 3-1).

In conjunction with the construction of a sedimentation basin during CY 1998, the MDNR issued discharge sampling requirements for three outfalls (PN01 [now terminated], PN02, and PN03 [now terminated]). The ARAR permit-equivalent document (MDNR 1998) requires monthly monitoring for flow, oil and grease, total petroleum hydrocarbons (TPHs), pH, settleable solids (SSs), and polychlorinated biphenyls (PCBs), as well as total recoverable arsenic, chromium, and cadmium. In addition, effluent monitoring for gross alpha, gross beta, protactinium (Pa)-231, actinium (Ac)-227, total Ra, total thorium (Th), and total U is required for each discharge event. Effluent monitoring for radon is to be performed twice per year. However, due to the short duration of chemical water sampling at CWC-386, CWC-387, and CWC-388 (Northwest Bank of CWC) in 2023, radon sampling was not required. As outlined in a letter from the USACE to the MDNR dated November 18, 2003, chemical oxygen demand (COD) monitoring has been modified from quarterly to annually (USACE 2003).

On February 19, 2002, the MDNR issued a letter to the USACE conditionally agreeing with a request to reduce the sampling frequency at PN02 to once per year, effective February of 2002 until the drainage area becomes affected by soil disturbance such as excavation (MDNR 2002). The condition of the agreement is that the MDNR be notified prior to the soil in the area being disturbed. Sampling frequency at PN02 was temporarily reduced to annually, per USACE email on February 8, 2018. On April 19, 2018, USACE notified MDNR that the sampling frequency at PN02 was increased from annually (MDNR 2002) to monthly because remediation resumed at the IA-09 (Ballfields). These emails are contained in Appendix D, Attachment D-1.

During 2021, Un-Named Outfall VP-56, VP-57, VP-58, Pershall Road, and I-270, a moving pumping outfall utilized for the management of stormwater with regard to sediment control and pumped excavation water, was established (Figure 3-1). This outfall was never utilized in CY 2023. During 2023, Un-Named Outfall CWC-386, CWC-387, and CWC-388 (Northwest Bank of CWC) was established and utilized in the third and fourth quarters of CY 2023 (Figure 3-1). Moving outfalls are necessary to pump excess excavation water, which cannot be contained due to geographic conditions, to CWC. The excess excavation water is pumped to CWC in accordance with agreements made during a March 12, 2007, meeting with Mr. Tom Siegel of the MDNR, and as described in a subsequent letter from the USACE dated April 20, 2007 (USACE 2007). Excavation water sampling is conducted to verify compliance with the NPDES permit-equivalent requirements. The discharge parameters for the un-named outfalls follow the same NPDES parameters as Outfall 002.

Analytical results for the NC Sites are contained in Appendix D, Table D-1. Quarterly summaries of the CY 2023 stormwater monitoring events for the NC Sites are presented in the following subsections. NC Sites stormwater monitoring results for CY 2023 are contained in Tables 3-1 through 3-3.

During CY 2023, rainfall data were obtained for the National Weather Service Lambert – St. Louis International Weather Station (Weather Underground, Inc. 2023), which is located adjacent to the NC Sites. Daily flow and rainfall data are contained in Appendix D, Table D-2.

First Quarter

During the first quarter (January, February, and March) of CY 2023, all NPDES sample results were in compliance with permit-equivalent requirements (Table 3-1). During the first quarter, one sampling event was conducted at Outfall PN02.

Second Quarter

During the second quarter (April, May, and June) of CY 2023, no NPDES samples were collected because no rain events producing measurable flow offsite occurred, and no pumping activities were performed.

Third Quarter

During the third quarter (July, August, and September) of CY 2023, all NPDES sample results were in compliance with permit-equivalent requirements (Table 3-2). During the third quarter, one sampling event was conducted at Un-Named Outfall CWC-386, CWC-387, and CWC-388 (Northwest Bank of CWC). No NPDES samples were collected at Outfall PN02 because no rain events producing measurable flow offsite occurred.

Fourth Quarter

During the fourth quarter (October, November, and December) of CY 2023, all NPDES sample results were in compliance with permit-equivalent requirements (Table 3-3). During the fourth quarter, four sampling events were conducted at Un-Named Outfall CWC-386, CWC-387, and CWC-388 (Northwest Bank of CWC). No NPDES samples were collected at Outfall PN02 because no rain events producing measurable flow offsite occurred.

3.1.3 Evaluation of Excavation Water Monitoring Results

On July 23, 2001, the MSD conditionally approved the discharge of treated excavation water to an MSD sanitary sewer manhole located at the SLAPS (MSD 2001). The current extension to the special discharge approval expires on July 23, 2024 (MSD 2022). The primary condition of the approval requires a treatment system be installed, maintained, and operated to produce an effluent meeting the following standards: MSD ordinances 8472, 10177, and 10082 (MSD 1991, 1994, 1997); the U.S. Nuclear Regulatory Commission (NRC) requirements prescribed in 10 *CFR* 20, Appendix B; and the Missouri Department of Health and Senior Services (DHSS) requirements prescribed in 19 *Code of State Regulations (CSR)* 20-10. In addition, the MSD limits the annual allocation for radioactivity from the NC Sites to the MSD CWC treatment plant. The MSD establishes the maximum volume of excavation water discharge allowed in a 24-hour period and requires that the analytical results of the treated excavation water comply with applicable standards and limits prior to discharge. On January 18, 2023, the USACE notified the MSD that the site discharged more than 100,000 gallons of excavation water on January 10, 2023, exceeding the daily limit. No other exceedances of the MSD limits occurred at the project laboratory or the NC Sites and the evaluation of monitoring data demonstrates that all ARARs have been met. The selenium discharge variance for the SLAPS was not utilized in CY 2023 (MSD 2005, 2012). There is no longer a requirement to analyze for barium, lead, or selenium after the first two batches from new investigative areas (MSD 2012). Analytical results of the treated water are contained in Appendix D, Table D-3.

In CY 2023, approximately 1,976,461 gallons of treated excavation water from 16 treatment batches were released to MSD manholes 10L3-043S, 09K4-018S, and 06JS-052S (Table 3-4). The discharge location is illustrated on Figure 3-1. Batches of treated excavation water were sampled and analyzed for MSD effluent criteria (Appendix D, Table D-3).

Table 3-1. First Quarter CY 2023 NPDES Sampling Event[a]

Monitoring Parameter	Final Effluent Limitations		Units	Analytical Results		
	Daily Maximum	Monthly Average		Outfall 002		
				Chemical Parameters		
				January	February	March
Flow	Monitor only	Monitor only	MGD	[e]	[e]	[f]
Oil and Grease	15	10	mg/L	[e]	[e]	[f]
TPHs	10	10	mg/L	[e]	[e]	[f]
pH-Units	6.0-9.0	NA	s.u.	[e]	[e]	[f]
COD[b]	120	90	mg/L	[e]	[e]	[f]
SSs[c]	1.5	1.0	mL/L/hour	[e]	[e]	[f]
Arsenic, Total Recoverable	100	100	µg/L	[e]	[e]	[f]
Lead, Total Recoverable[d]	190	190	µg/L	[e]	[e]	[f]
Chromium, Total Recoverable	280	280	µg/L	[e]	[e]	[f]
Copper, Total Recoverable[d]	84	84	µg/L	[e]	[e]	[f]
Cadmium, Total Recoverable	94	94	µg/L	[e]	[e]	[f]
PCBs	No release	No release	µg/L	[e]	[e]	[f]
Event Sampling Date				Radiological Parameters[g,h,i]		
				Event 1		
				03/03/23		
Total U[j,k]	Monitor only	Monitor only	µg/L	9.E-01		
Total Ra[j,k]	Monitor only	Monitor only	µg/L	2.E-07		
Total Th[j,k]	Monitor only	Monitor only	µg/L	2.E+00		
Gross Alpha[j]	Monitor only	Monitor only	pCi/L	1.E+00		
Gross Beta[j]	Monitor only	Monitor only	pCi/L	9.E+00		
Pa-231[j]	Monitor only	Monitor only	pCi/L	-7.E+00		
Ac-227[j]	Monitor only	Monitor only	pCi/L	-4.E+00		
Radon (semi-annual monitoring)	Monitor only	Monitor only	pCi/L	[l]		

[a] A rainfall event is defined as a measurable increase in discharge rate from precipitation producing 0.1 inch or more of liquid in a 24-hour period that may also exceed the duration of 24 hours; two events experienced within 48 hours may be reported together.

[b] Per the USACE letter dated November 18, 2003, the COD sampling requirement has been reduced from quarterly to annual sampling (USACE 2003).

[c] Detection limit (DL) = 0.1 mL/L/hour.

[d] Lead and copper sampling are no longer necessary per the ROD.

[e] No sample is required, because no rain events producing measurable flow offsite occurred, and no pumping activities were performed.

[f] No pumping activities occurred, so only radiological samples were collected during natural flow.

[g] Value reported is based on a volume-weighted average of analyte activity concentrations for samples collected during the defined event. Corresponding radiological samples were collected on the same date as chemical samples; however, the radiological results are incorporated into the volume-weighted average for the specified event.

[h] Negative results are less than the laboratory system's background level.

[I] Ra-228 and Th-228 are assumed to be in secular equilibrium with Th-232; therefore, Th-232 results are used to estimate Ra-228 and Th-228 values.

[j] As specified in the permit-equivalent, radionuclides require monitoring only, and limits are not permit-specified.

[k] Total nuclide values (in µg/L) were calculated using the activity concentration values reported by the laboratory and values for specific activity listed in Table 8.4.1 of *The Health Physics and Radiological Health Handbook* (Shleien 1992).

[l] Semi-annual reporting requirement only.

NA – not applicable

Table 3-2. Third Quarter CY 2023 NPDES Sampling Event[a]

Monitoring Parameter	Final Effluent Limitations		Units	Analytical Results		
	Daily Maximum	Monthly Average		Un-Named Outfall CWC-386, CWC-387, and CWC-388 (Northwest Bank of CWC)[e]		
				Chemical Parameters		
				July	August	September
Flow	Monitor only	Monitor only	MGD	[f]	[f]	[g]
Oil and Grease	15	10	mg/L	[f]	[f]	[g]
TPHs	10	10	mg/L	[f]	[f]	[g]
pH-Units	6.0-9.0	NA	s.u.	[f]	[f]	[g]
COD[b]	120	90	mg/L	[f]	[f]	[g]
SSs[c]	1.5	1.0	mL/L/hour	[f]	[f]	[g]
Arsenic, Total Recoverable	100	100	µg/L	[f]	[f]	[g]
Lead, Total Recoverable[d]	190	190	µg/L	[f]	[f]	[g]
Chromium, Total Recoverable	280	280	µg/L	[f]	[f]	[g]
Copper, Total Recoverable[d]	84	84	µg/L	[f]	[f]	[g]
Cadmium, Total Recoverable	94	94	µg/L	[f]	[f]	[g]
PCBs	No release	No release	µg/L	[f]	[f]	[g]
				Radiological Parameters[h,i,j]		
Event Sampling Date				Event 1		
				09/27/23		
Total U[k,l]	Monitor only	Monitor only	µg/L	3.E+00		
Total Ra[k,l]	Monitor only	Monitor only	µg/L	5.E-07		
Total Th[k,l]	Monitor only	Monitor only	µg/L	5.E+00		
Gross Alpha[k]	Monitor only	Monitor only	pCi/L	1.E+01		
Gross Beta[k]	Monitor only	Monitor only	pCi/L	1.E+01		
Pa-231[k]	Monitor only	Monitor only	pCi/L	5.E+01		
Ac-227[k]	Monitor only	Monitor only	pCi/L	2.E+01		
Radon (semi-annual monitoring)	Monitor only	Monitor only	pCi/L	[m]		

[a] A rainfall event is defined as a measurable increase in discharge rate from precipitation producing 0.1 inch or more of liquid in a 24-hour period that may also exceed the duration of 24 hours; two events experienced within 48 hours may be reported together.

[b] Per the USACE letter dated November 18, 2003, the COD sampling requirement has been reduced from quarterly to annual sampling (USACE 2003).

[c] DL = 0.1 mL/L/hour.

[d] Lead and copper sampling are no longer necessary per the ROD.

[e] RAs were initiated at the Un-Named Outfall CWC-386, CWC-387, CWC-388 (Hazelwood School District Northwest Bank of CWC) on 07/24/23.

[f] No sample is required, because no rain events producing measurable flow offsite occurred, and no pumping activities were performed.

[g] No pumping activities occurred, so only radiological samples were collected during natural flow.

[h] Value reported is based on a volume-weighted average of analyte activity concentrations for samples collected during the defined event. Corresponding radiological samples were collected on the same date as chemical samples; however, the radiological results are incorporated into the volume-weighted average for the specified event.

[i] Negative results are less than the laboratory system's background level.

[j] Ra-228 and Th-228 are assumed to be in secular equilibrium with Th-232; therefore, Th-232 results are used to estimate Ra-228 and Th-228 values.

[k] As specified in the permit-equivalent, radionuclides require monitoring only, and limits are not permit-specified.

[l] Total nuclide values (in µg/L) were calculated using the activity concentration values reported by the laboratory and values for specific activity listed in Table 8.4.1 of *The Health Physics and Radiological Health Handbook* (Shleien 1992).

[m] Semi-annual reporting requirement only.

NA – not applicable

Table 3-3. Fourth Quarter CY 2023 NPDES Sampling Event[a]

Monitoring Parameter	Final Effluent Limitations		Units	Analytical Results			
	Daily Maximum	Monthly Average		Un-Named Outfall CWC-386, CWC-387, and CWC-388 (Northwest Bank of CWC)[e]			
				Chemical Parameters			
				October	November	December	
Flow	Monitor only	Monitor only	MGD	[f]	[f]	2.10	
Oil and Grease	15	10	mg/L	[f]	[f]	<1.4	
TPHs	10	10	mg/L	[f]	[f]	<1.4	
pH-Units	6.0-9.0	NA	s.u.	[f]	[f]	7.56	
COD[b]	120	90	mg/L	[f]	[f]	[b]	
SSs[c]	1.5	1.0	mL/L/hour	[f]	[f]	<0.1	
Arsenic, Total Recoverable	100	100	µg/L	[f]	[f]	2.1	
Lead, Total Recoverable[d]	190	190	µg/L	[f]	[f]	[d]	
Chromium, Total Recoverable	280	280	µg/L	[f]	[f]	8.1	
Copper, Total Recoverable[d]	84	84	µg/L	[f]	[f]	[d]	
Cadmium, Total Recoverable	94	94	µg/L	[f]	[f]	0.18	
PCBs	No release	No release	µg/L	[f]	[f]	<0.1	
Event Sampling Date				Radiological Parameters[g,h,i]			
				Event 1	Event 2	Event 3	Event 4
				12/08/23	12/11/23-12/15/23	12/18/23-12/21/23	12/27/23-12/30/23
Total U[j,k]	Monitor only	Monitor only	µg/L	3.E+00	3.E+00	2.E+00	3.E+00
Total Ra[j,k]	Monitor only	Monitor only	µg/L	6.E-07	6.E-07	8.E-07	6.E-07
Total Th[j,k]	Monitor only	Monitor only	µg/L	4.E+00	4.E+00	6.E+00	5.E+00
Gross Alpha[j]	Monitor only	Monitor only	pCi/L	1.E+01	1.E+01	1.E+01	1.E+01
Gross Beta[j]	Monitor only	Monitor only	pCi/L	1.E+01	1.E+01	1.E+01	1.E+01
Pa-231[j]	Monitor only	Monitor only	pCi/L	1.E+02	5.E+01	9.E+01	5.E+01
Ac-227[j]	Monitor only	Monitor only	pCi/L	3.E+01	1.E+01	2.E+01	1.E+01
Radon (semi-annual monitoring)	Monitor only	Monitor only	pCi/L	[l]	[l]	[l]	[l]

[a] A rainfall event is defined as a measurable increase in discharge rate from precipitation producing 0.1 inch or more of liquid in a 24-hour period that may also exceed the duration of 24 hours; two events experienced within 48 hours may be reported together.

[b] Per the USACE letter dated November 18, 2003, the COD sampling requirement has been reduced from quarterly to annual sampling (USACE 2003).

[c] DL = 0.1 mL/L/hour.

[d] Lead and copper sampling are no longer necessary per the ROD.

[e] RAs were initiated at Un-Named Outfall CWC-386, CWC-387, and CWC-388 (Northwest Bank of CWC) on 07/24/23.

[f] No sample is required, because no rain events producing measurable flow offsite occurred, and no pumping activities were performed.

[g] Value reported is based on a volume-weighted average of analyte activity concentrations for samples collected during the defined event. Corresponding radiological samples were collected on the same date as chemical samples; however, the radiological results are incorporated into the volume-weighted average for the specified event.

[h] Negative results are less than the laboratory system's background level.

[i] Ra-228 and Th-228 are assumed to be in secular equilibrium with Th-232; therefore, Th-232 results are used to estimate Ra-228 and Th-228 values.

[j] As specified in the permit-equivalent, radionuclides require monitoring only, and limits are not permit-specified.

[k] Total nuclide values (in µg/L) were calculated using the activity concentration values reported by the laboratory and values for specific activity listed in Table 8.4.1 of *The Health Physics and Radiological Health Handbook* (Shleien 1992).

[l] Semi-annual reporting requirement only.

NA – not applicable

Table 3-4. Excavation Water Discharged in CY 2023

Quarter	Number of Discharges	Number of Gallons Discharged[a]	Total Activity (Ci)		
			Thorium[b]	Uranium[c]	Radium[d]
1	6	982,377	5.41E-05	2.12E-05	3.83E-06
2	3	512,482	1.04E-05	5.83E-06	4.01E-06
3	2	290,128	7.48E-06	2.61E-06	1.59E-06
4	5	191,474	1.35E-06	1.65E-06	8.71E-07
Total	16	1,976,461	7.33E-05	3.13E-05	1.03E-05

[a] Quantities based on actual quarterly discharges from NC Sites.
[b] Calculated value based on the addition of isotopic analyses for Th-228 and Th-230.
[c] Total U by kinetic phosphorescence analysis (KPA) is unavailable so the sum of the isotopic results is being substituted.
[d] Calculated value based on the addition of isotopic analyses for Ra-226 and Ra-228.

3.2 COLDWATER CREEK MONITORING

RA monitoring of surface water and sediment in CWC is required until the creek has been remediated. The purpose of the monitoring is to document that RAs are having a positive effect on the creek and to provide additional data to assess whether CWC is being measurably affected by COC migration from hydrostratigraphic zone (HZ)-A.

The EMP for CWC evaluates the water quality and the radiological and chemical parameters present in surface water and sediment. Surface water and sediment are monitored for the radiological and chemical parameters specified as List 2 of Table 3-3 of the EMICY23 (USACE 2022). The water quality parameters are measured for surface water only.

The water quality parameters measured include pH, temperature, dissolved oxygen (DO), specific conductivity, oxidation reduction potential (ORP), and turbidity. The objectives of the EMP are as follows:

- To assess the quality of surface water and sediment in CWC;
- To compare the results with monitoring guidelines and/or ROD RGs as established for these media in the EMICY23 (USACE 2022); and
- To evaluate/determine if runoff from the SLAPS, the HISS, the SLAPS VPs, and the Latty Avenue Properties affects the quality of surface water and sediment in CWC.

The MDNR has designated CWC as a metropolitan no-discharge stream. Therefore, discharges are prohibited, except as specifically permitted under the water quality standard (10 *CSR* 20-7.031) and non-contaminated stormwater flows (10 *CSR* 20-7.015.1.A.4). CWC, from its crossing of U.S. Highway 67 (i.e., Lindbergh Boulevard) to its mouth at the Missouri River (a distance of roughly 5.5 miles), is a Class C stream. Class C streams may cease flow during dry periods but maintain permanent pools that support aquatic life (10 *CSR* 20-7.031.1.F.6). The upper reach of CWC south of U.S. Highway 67, which includes the SLAPS/HISS reach, is an unclassified water of the state.

Surface water and sediment samples are collected from CWC on a semi-annual basis as part of the EMP (USACE 2022). Appendix E, Attachment E-1, contains copies of the field logbook pages for CWC surface water and sediment sampling conducted during CY 2023. The routine base-flow elevation sampling events are conducted at 10 CWC monitoring stations (C002 through C011). Locations of the 10 monitoring stations are shown on Figure 3-2. Monitoring station C004, located between the SLAPS and the HISS, is used to monitor the potential water quality impacts from the SLAPS to CWC. Monitoring station C005 is used to monitor water quality downstream from the HISS and the Latty Avenue VPs. Monitoring station C011, located at Schaefer Bend Park, is the farthest downstream monitoring station on CWC.

Starting in CY 2019, additional surface water samples were collected from CWC on a semi-annual basis during high-flow conditions as a BMP to determine if the creek is being measurably affected by COC migration. These high-flow surface water sampling events are conducted at upstream (C002), midstream (C007), and downstream (C009) locations (Figure 3-2). This sampling is conducted soon after a precipitation event resulting in high-flow conditions (i.e., gage height greater than 6 ft; discharge/streamflow greater than 2,000 ft^3 per second) as indicated at the U.S. Geological Survey (USGS) stream gage (06936475) on CWC near Black Jack, Missouri. High-flow surface water samples are typically collected twice per year over a 1- to 2-day period. Due to the lack of high-flow conditions as defined in the EMICY23, no high-flow sampling event was conducted in 2023.

Note that other non-FUSRAP industrial discharges are relatively common along the sampled reaches of CWC; therefore, sample parameters could be influenced by existing industrial sources other than former MED/AEC operations.

3.2.1 Coldwater Creek Surface Water Monitoring Results

Base-flow elevation sampling of surface water at CWC was conducted at or below base flow elevation during the months of April and October in CY 2023. The base flow elevation for CWC at the James S McDonnell Boulevard Bridge is 508.2 ft above mean sea level (amsl). The base flow also may be approximated by a depth measurement of 3.2 ft or less at an "average cross section."

CWC surface water monitoring included obtaining water quality parameters, as well as obtaining samples for metals and radionuclides listed in Table 3-3 of the EMICY23 (USACE 2022). Grab samples were collected and analyzed according to the protocol defined in the *Sampling and Analysis Guide for the St. Louis Sites* (SAG) (USACE 2000). In addition, isotopic U results were used to evaluate total U concentrations in surface water for comparison to the 30 µg/L monitoring guideline described in the ROD (USACE 2005).

With the exception of the high-flow surface water sampling, all surface water monitoring required through implementation of the EMICY23 was conducted as planned during CY 2023 (USACE 2022). The evaluation of monitoring data demonstrates that all applicable ARARs have been met. The sample results are contained in Appendix E, Table E-1, of this EMDAR.

Water Quality Parameters

Water quality data are collected as part of the routine performance of surface water sampling and are used as part of the overall evaluation of water quality. The water quality results for each surface water monitoring station are summarized in Table 3-5. The average surface water temperatures during the April and October sampling events were 14.18 and 19.3 °C, respectively. The average surface water pH values were 7.66 and 7.48, respectively. The average pH values for both the April and October sampling events were within the acceptance range (6.0 to 9.0) and thus provide suitable conditions for aquatic life.

Average DO levels in April were 13.02 mg/L and in October were 7.46 mg/L. The average specific conductivity for the April sampling event was 1.11 mS/cm, and the average specific conductivity for the October sampling event was 1.01 mS/cm. The average ORP value during the April sampling event (282 mV) was lower than that of the October sampling event (302 mV). The average turbidity value during April was 16 NTU and during the October sampling event was 31 NTU.

Table 3-5. Water Quality Results for CY 2023 CWC Surface Water Sampling

Monitoring Parameter	Unit	Monitoring Station										Average
		C002	C003	C004	C005	C006	C007	C008	C009	C010	C011	
First Sampling Event (04/03/23 to 04/04/23)												
Temperature	°C	14.45	14.77	14.6	14.6	14.88	14.56	13.3	13.5	13.62	13.48	14.18
pH	s.u.	7.96	8.1	7.67	7.14	7.8	7.77	7.95	7.66	7.63	6.9	7.66
DO	mg/L	13.62	12.41	13.04	10.17	14.5	14.28	13.13	12.63	11.78	14.6	13.02
Specific Conductivity	mS/cm	1.16	1.15	1.25	1.27	1.23	1.25	1.19	1.02	0.816	0.742	1.11
ORP	mV	288	276	305	328	276	280	253	271	243	302	282
Turbidity	NTU	35.6	25.9	22.8	8.3	19.6	5.8	14.3	11.3	13.2	5.6	16
Second Sampling Event (10/10/23 to 10/12/23)												
Temperature	°C	18.73	17.7	15.81	15.7	15.55	21.96	22.05	22.31	21.9	21.51	19.3
pH	s.u.	8.2	7.71	7.94	7.37	6.46	7.72	7.74	7.45	7.26	6.94	7.48
DO	mg/L	10.71	10.57	8.55	10.81	7.8	5.31	7.35	5.68	4.05	3.76	7.46
Specific Conductivity	mS/cm	1.05	1.07	1.08	1.06	1.06	1.19	1.17	1.06	0.77	0.538	1.01
ORP	mV	273	263	267	294	366	284	276	322	331	340	302
Turbidity	NTU	51.2	45.6	44.6	18.6	22.3	18.4	16.7	41.3	20.5	32.5	31

Note: Water quality data are used as part of the overall evaluation of water quality, but no ROD-defined monitoring criteria exist.

Radiological Parameters

The radiological monitoring results for the CY 2023 CWC surface water sampling events are summarized in Table 3-6. Historically, FUSRAP surface water analysis has included unfiltered water samples for the following radiological parameters: Ra-226, Ra-228, Th-228, Th-230, Th-232, U-234, U-235, and U-238. Unfiltered surface water samples from CWC were not analyzed for Ra-228 during CY 2023, because Ra-228 rapidly achieves equilibrium with Th-228, such that their concentrations are equal.

Table 3-6. Radiological Results for CY 2023 CWC Surface Water Sampling

Monitoring Parameter	Monitoring Stations									
	C002	C003	C004	C005	C006	C007	C008	C009	C010	C011
Radionuclide Concentration (pCi/L)										
First Sampling Event (04/03/23 and 04/04/23)										
Ra-226	<1.41[a]	<0.73[a]	<1.71[a]	<0.82[a]	<0.73[a]	<1.36	<0.74[a]	<0.62[a]	<0.66[a]	<0.90[a]
Th-228[b]	0.86	0.67	0.62	<0.46[a]	0.62	<0.61[a]	<0.67[a]	<0.57[a]	<0.48[a]	<0.41[a]
Th-230	1.85	1.85	1.72	0.88	0.77	1.32	0.52	1.35	0.83	0.62
Th-232	<0.55[a]	<0.55[a]	<0.51[a]	<0.64[a]	<0.57[a]	<0.44[a]	<0.67[a]	<0.48[a]	<0.40[a]	<0.57[a]
U-234	0.8	0.93	0.96	0.70	1.28	1.00	0.64	0.77	0.54	0.48
U-235	<0.48[a]	<0.70[a]	<0.54[a]	<0.42[a]	<0.47[a]	<0.60[a]	<0.77[a]	<0.58[a]	<0.55[a]	<0.68[a]
U-238	<0.53[a]	1.00	0.75	0.62	0.85	0.89	0.77	<0.47[a]	<0.37[a]	<0.55[a]
Total U[c] (µg/L)	2.05	2.99	2.58	1.94	3.15	3.24	2.09	1.61	1.28	1.26
Second Sampling Event (10/04/23 and 10/09/23)										
Ra-226	<0.89[a]	<0.43[a]	<0.54[a]	<0.89[a]	<0.75[a]	<0.91[a]	<0.59[a]	<0.66[a]	<0.69[a]	<0.44[a]
Th-228[b]	<0.49[a]	<0.67[a]	<0.71[a]	0.85	<0.73[a]	<0.46[a]	<0.57[a]	<0.78[a]	1.01	<0.70[a]
Th-230	0.87	<0.54[a]	0.57	<0.64[a]	0.97	0.78	1.00	<0.80[a]	1.13	<0.51[a]
Th-232	<0.49[a]	<0.53[a]	<0.49[a]	<0.64[a]	<0.59[a]	<0.46[a]	<0.57[a]	<0.69[a]	<0.51[a]	<0.70[a]
U-234	<0.48[a]	1.14	0.72	0.57	<0.43[a]	0.58	<0.70[a]	<0.58[a]	<0.73[a]	0.91
U-235	<0.59[a]	<0.79[a]	<0.77[a]	<0.80[a]	<0.74[a]	<0.58[a]	<0.89[a]	<0.51[a]	<0.66[a]	<0.83[a]
U-238	<0.48[a]	<0.46[a]	<0.62[a]	<0.46[a]	<0.60[a]	0.97	<0.70[a]	<0.42[a]	<0.53[a]	<0.48[a]
Total U[c] (µg/L)	0.85	2.17	1.81	1.45	0.81	2.40	1.87	1.13	1.29	1.75

[a] Reported result is less than the minimum detectable concentration (MDC) and is therefore set equal to the MDC.

[b] Ra-228 rapidly achieves equilibrium with Th-228, such that their concentrations are equal.

[c] Total U is equal to the sum of the concentrations of uranium isotopes (in pCi/L) divided by 0.677, where 0.677 picocuries per microgram is the specific activity for total U, assuming secular equilibrium.

Note: Total U (30 µg/L) is the only ROD monitoring guideline for surface water. Radiological monitoring parameter data are collected to monitor COC migration and to calculate total U.

Surface water data for U-234, U-235, and U-238 (reported in pCi/L) were converted to µg/L and compared to the 30 µg/L criterion for total U described in the ROD. The total U concentrations in surface water were significantly less than the 30 µg/L ROD criterion. A summary of the surface water radiological data collected from CWC since April of 2013 is presented in Table 3-7.

Table 3-7. Comparison of Historical Radiological Surface Water Results for CWC

Stations	Radionuclide	Units	04/13	10/13	03/14	10/14	03/15	10/15	03/16	10/16	03/17	10/17	04/18	10/18	04/19	10/19	04/20	10/20	03/21	10/21	04/22	10/22	04/23	10/23
C002	Total U[a]	µg/L	2.43	2.64	4.11	1.53	3.33	2.04	3.15	3.96	3.23	2.40	1.70	1.14	1.94	2.26	4.44	3.91	1.31	2.23	1.49	1.33	2.05	0.85
	Ra-226	pCi/L	2.15	<2.50[b]	<2.04[b]	<1.30[b]	<1.21[b]	<1.11[b]	<1.35[b]	<1. 25[b]	<1.84[b]	1.33	<1.12[a]	<1.59[a]	<1.34[a]	<1.30[a]	<0.74[a]	<0.78[a]	<0.24[a]	<0.31[a]	<0.77[a]	<0.72[a]	<1.41[a]	<0.89[a]
	Th-228[c]	pCi/L	<0.87[b]	<0.53[b]	<0.55[b]	0.25	<0. 46[b]	<0.51[b]	<0.55[b]	<0.45[b]	<0. 30[b]	<0.42[b]	<0.54[a]	<0.46[a]	<0.36[a]	<0.58[a]	<0.58[a]	0.53	<0.48[a]	<0.47[a]	<0.72[a]	<0.71[a]	0.86	<0.49[a]
	Th-230	pCi/L	1.19	<0.65[b]	0.40	<0.38[b]	<0.46[b]	0.63	0.45	0.37	0.42	<0.42[b]	<0.40[a]	0.45	<0.39[a]	<0.41[a]	<0.60[a]	<0.81[a]	0.57	1.07	<0.72[a]	0.57	1.85	0.87
	Th-232	pCi/L	<0.32[b]	<0.24[b]	<0.18[b]	<0.17[b]	<0.21[b]	<0.19[b]	<0.20[b]	<0.20[b]	<0.13[b]	<0.19[b]	<0.45[a]	<0.38[a]	<0.33[a]	<0.46[a]	<0.43[a]	<0.81[a]	<0.27[a]	<0.24[a]	<0.63[a]	<0.39[a]	<0.55[a]	<0.49[a]
C003	Total U[a]	µg/L	4.09	1.97	2.49	1.68	1.80	2.95	4.91	1.82	2.91	1.71	2.52	1.87	4.35	2.42	2.70	2.35	3.76	1.10	2.92	0.75	2.99	2.17
	Ra-226	pCi/L	1.62	<1.41[b]	<2.03[b]	<0.89[b]	<1.23[b]	<1.63[b]	<1.48[b]	<1.55[b]	<0.38[b]	<0.38[b]	<1.12[a]	<0.96[a]	<1.08[a]	<1.33[a]	<0.90[a]	<0.62[a]	<0.17[a]	<0.51[a]	<0.59[a]	<0.78[a]	<0.73[a]	<0.43[a]
	Th-228[c]	pCi/L	<0.38[b]	<0.44[b]	<0.26[b]	<0.56[b]	0.43	<0.41[b]	<0.73[b]	<0.54[b]	<0.41[b]	<0.19[b]	<0.61[a]	<0.48[a]	<0.49[a]	<0.46[a]	<0.46[a]	0.97	<0.27[a]	<0.50[a]	<0.79[a]	<0.62[a]	0.67	<0.67[a]
	Th-230	pCi/L	<0.38[b]	0.70	0.85	0.50	0.36	<0.18[b]	0.39	0.44	<0.29[b]	<0.19[b]	<0.38[a]	<0.36[a]	<0.33[a]	0.29	<0.33[a]	<0.44[a]	0.73	1.21	0.80	1.17	1.85	<0.54[a]
	Th-232	pCi/L	<0.38[b]	<0.54[b]	<0.26[b]	<0.18[b]	<0.53[b]	<0.50[b]	<0.58[b]	<0.20[b]	<0.29[b]	<0.19[b]	<0.53[a]	<0.30[a]	<0.36[a]	<0.27[a]	<0.33[a]	<0.63[a]	<0.19[a]	<0.26[a]	<0.64[a]	<0.39[a]	<0.55[a]	<0.53[a]
C004	Total U[a]	µg/L	1.17	2.48	3.13	1.19	2.48	2.58	2.81	2.61	3.26	1.88	3.32	1.35	2.20	1.94	2.39	2.88	3.29	1.03	1.44	0.74	2.58	1.81
	Ra-226	pCi/L	<1.93[b]	<1.93[b]	1.52	<1.46[b]	<1.22[b]	<1.47[b]	1.7	<1.34[b]	<1.09 [b]	<0.40[b]	<1.17[a]	<1.12[a]	<1.54[a]	<1.28[a]	<1.08[a]	<0.49[a]	0.72	<0.30[a]	<0.97[a]	<0.74[a]	<1.71[a]	<0.54[a]
	Th-228[c]	pCi/L	<0.65[b]	<0.18[b]	<0.97[b]	<0.52[b]	<0.55[b]	<0.64[b]	<0.22[b]	<0.62[b]	<0.32[b]	<0.60[b]	<0.63[a]	<0.42[a]	<0.56[a]	<0.48[a]	<0.53[a]	0.47	<0.39[a]	<0.42[a]	<1.05[a]	<0.50[a]	0.62	<0.71[a]
	Th-230	pCi/L	<0.65[b]	0.33	0.68	<0.42[b]	<0.48[b]	0.76	0.91	<0.44[b]	0.69	0.50	<0.36[a]	<0.42[a]	0.52	<0.35[a]	0.63	0.75	0.51	0.72	<0.66[a]	<0.88[a]	1.72	0.57
	Th-232	pCi/L	<0.29[b]	<0.39[b]	<0.63[b]	<0.42[b]	<0.18[b]	<0.46[b]	<0.49[b]	<0.44[b]	<0.32[b]	<0.15[b]	<0.43[a]	<0.39[a]	<0.35[a]	<0.35[a]	<0.35[a]	<0.31[a]	<0.30[a]	<0.20[a]	<0.61[a]	<0.47[a]	<0.51[a]	<0.49[a]
C005	Total U[a]	µg/L	2.31	1.42	2.51	1.14	3.15	2.23	2.99	1.71	3.56	1.83	4.14	2.44	4.27	1.54	2.64	1.74	3.23	1.47	0.82	0.00	1.94	1.45
	Ra-226	pCi/L	<1.60[b]	<1.76[b]	<1.84[b]	<1.19[b]	<1.05[b]	<0.74[b]	<1.81[b]	<1.18[b]	<1.23[b]	<1.32[b]	<1.91[a]	<1.09[a]	<1.27[a]	<1.36[a]	<0.54[a]	<0.77[a]	<0.28[a]	<0.30[a]	<0.47[a]	<0.82[a]	<0.82[a]	<0.89[a]
	Th-228[c]	pCi/L	<0.69[b]	<0.42[b]	<0.72[b]	0.37	<0.64[b]	<0.64[b]	<0.79[b]	<0.44[b]	<0.53[b]	<0.64[b]	<0.56[a]	<0.45[a]	<0.43[a]	<0.53[a]	<0.57[a]	0.77	0.47	<0.52[a]	<0.96[a]	<0.70[a]	<0.46[a]	0.85
	Th-230	pCi/L	0.69	0.63	0.65	<0.55[b]	<0.64[b]	0.69	<0.58[b]	<0.54[b]	<0.53[b]	<0.57[b]	0.56	<0.31[a]	<0.34[a]	<0.40[a]	0.57	0.42	<0.40[a]	0.99	0.69	0.96	0.88	<0.64[a]
	Th-232	pCi/L	<0.31[b]	<0.42[b]	<0.23[b]	<0.25[b]	<0.45[b]	<0.38[b]	<0.66[b]	<0.44[b]	<0.48[b]	<0.21[b]	<0.51[a]	<0.34[a]	<0.29[a]	<0.27[a]	<0.49[a]	<0.33[a]	<0.16[a]	<0.25[a]	<0.52[a]	<0.34[a]	<0.64[a]	<0.64[a]
C006	Total U[a]	µg/L	1.29	3.11	2.09	1.44	2.77	1.73	4.65	1.68	2.85	1.46[b]	2.29	0.91	1.74	1.48	2.68	1.60	2.29	1.34	1.99	0.64	3.15	0.81
	Ra-226	pCi/L	<1.20[b]	<1.44[b]	0.95	<1.39[b]	<1.09[b]	<1.67[b]	<0.80[b]	0.98	<1.11[b]	<0.94[b]	<1.21[a]	<0.33[a]	<1.02[a]	<1.00[a]	<0.97[a]	<0.66[a]	<0.21[a]	<0.26[a]	<0.82[a]	<0.53[a]	<0.73[a]	<0.75[a]
	Th-228[c]	pCi/L	<0.25[b]	<0.17[b]	<0.70[b]	<0.41[b]	<0.20[b]	<0.84[b]	<0.53[b]	<0.45[b]	<0.34[b]	<0.36[b]	<0.50[a]	<0.46[a]	<0.59[a]	<0.47[a]	<0.58[a]	<0.43[a]	<0.35[a]	<0.30[a]	<0.89[a]	0.50	0.62	<0.73[a]
	Th-230	pCi/L	0.74	<0.17[b]	0.53	<0.33[b]	<0.67[b]	<0.62[b]	0.65	0.48	0.26	<0.16[b]	<0.33[a]	0.41	<0.51[a]	<0.40[a]	<0.50[a]	0.91	<0.39[a]	0.48	0.87	0.98	0.77	0.97
	Th-232	pCi/L	<0.25[b]	<0.17[b]	<0.45[b]	<0.15[b]	<0.43[b]	<0.20[b]	<0.43[b]	<0.20[b]	<0.14[b]	<0.36 [b]	<0.46[a]	<0.28[a]	<0.44[a]	<0.44[a]	<0.36[a]	<0.43[a]	<0.24[a]	<0.21[a]	<0.56[a]	<0.33[a]	<0.57[a]	<0.59[a]
C007	Total U[a]	µg/L	2.15	5.65	2.06	1.84	4.29	1.69	2.39	2.25	3.25	1.59	3.09	0.89	2.24	1.60	1.85	NS1	3.16	NS1	NS1	2.08	3.24	2.40
	Ra-226	pCi/L	1.42	<2.01[b]	<1.54[b]	<0.98[b]	<1.35[b]	0.61	<1.52[b]	<1.06[b]	<0.85[b]	<1.50[b]	<1.50[a]	<1.13[a]	<1.22[a]	<1.01[a]	<0.76[a]	NS1	<0.25[a]	NS1	NS1	<0.56[a]	<1.36	<0.91[a]
	Th-228[c]	pCi/L	<0.80[b]	<0.19[b]	<0.42[b]	<0.89[b]	<0.63[b]	<0.42[b]	<0.49[b]	<0.55[b]	<0.35[b]	<0.50[b]	<0.66[a]	<0.65[a]	<0.49[a]	<0.47[a]	<0.61[a]	NS1	<0.26[a]	NS1	NS1	<0.50[a]	<0.61[a]	<0.46[a]
	Th-230	pCi/L	<0.29[b]	0.90	0.67	<0.57[b]	<0.20[b]	<0.42[b]	<0.49[b]	<0.16[b]	<0.44[b]	<0.61[b]	<0.54[a]	<0.40[a]	<0.46[a]	<0.34[a]	<0.41[a]	NS1	<0.67[a]	NS1	NS1	1.09	1.32	0.78
	Th-232	pCi/L	<0.29[b]	<0.51[b]	<0.19[b]	<0.26[b]	<0.45[b]	<0.34[b]	<0.49[b]	<0.16[b]	<0.15[b]	<0.23[b]	<0.44[a]	<0.37[a]	<0.31[a]	<0.32[a]	<0.47[a]	NS1	<0.25[a]	NS1	NS1	<0.51[a]	<0.44[a]	<0.46[a]

Table 3-7. Comparison of Historical Radiological Surface Water Results for CWC (Continued)

Stations	Radionuclide	Units	04/13	10/13	03/14	10/14	03/15	10/15	03/16	10/16	03/17	10/17	04/18	10/18	04/19	10/19	04/20	10/20	03/21	10/21	04/22	10/22	04/23	10/23
C008[d]	Total U[a]	µg/L	NA	NA	NA	1.32	2.82	1.79	3.07	1.71	3.02	1.82	3.60	0.46	1.88	1.50	3.00	1.95	3.06	0.67	1.58	2.13	2.09	1.87
	Ra-226	pCi/L				<0.83[b]	<1.28[b]	0.61	<0.95[b]	<2.15[b]	<0.95[b]	<1.06[b]	<1.48[a]	<1.21[a]	<1.43[a]	<1.26[a]	<0.69[a]	<0.70[a]	<0.22[a]	<0.21[a]	<0.64[a]	<0.58$_a$	<0.74[a]	<0.59[a]
	Th-228[c]	pCi/L				<0.54[b]	0.64	<0.42[b]	0.50	<0.17[b]	<0.45[b]	<0.58[b]	<0.34[a]	0.37	<0.38[a]	0.46	<0.48[a]	<0.39[a]	0.75	0.46	<0.92[a]	<0.52$_a$	<0.67[a]	<0.57[a]
	Th-230	pCi/L				0.22	<0.50[b]	<0.42[b]	0.47	0.53	<0.39[b]	0.50	0.69	<0.26[a]	<0.43[a]	<0.42[a]	0.98	1.12	0.67	0.89	<0.92[a]	0.89	0.52	1.00
	Th-232	pCi/L				<0.20[b]	<0.40[b]	<0.36[b]	<0.46[b]	<0.48[b]	<0.13[b]	<0.17[b]	<0.47[a]	<0.38[a]	<0.35[a]	<0.37[a]	<0.35[a]	<0.30[a]	<0.17[a]	<0.23[a]	<0.80[a]	<0.49$_a$	<0.67[a]	<0.57[a]
C009[d]	Total U[a]	µg/L	NA	NA	NA	1.92	3.53	2.47	1.16	2.17	1.60	1.13	2.05	0.88	1.77	1.57	2.83	1.94	2.56	0.89	0.92	2.78	1.61	1.13
	Ra-226	pCi/L				<0.90[b]	<1.04[b]	0.81	<1.4[b]	<1.27[b]	<1.02[b]	<1.02[b]	<1.47[a]	<1.05[a]	<1.02[a]	<1.47[a]	<0.64[a]	<0.71[a]	<0.23[a]	<0.20[a]	<0.74[a]	<0.57[a]	<0.62[a]	<0.66[a]
	Th-228[c]	pCi/L				<0.40[b]	<0.45[b]	<0.46[b]	<0.44[b]	<0.53[b]	0.32	<0.51[b]	<0.51[a]	<0.53[a]	<0.34[a]	<0.43[a]	<0.32[a]	0.74	<0.33[a]	0.88	<0.97[a]	<0.63$_a$	<0.57[a]	<0.78[a]
	Th-230	pCi/L				<0.49[b]	<0.45[b]	<0.51[b]	<0.36[b]	0.86	0.51	0.87	<0.48[a]	<0.40[a]	<0.37[a]	<0.34[a]	<0.39[a]	0.85	0.99	1.12	1.20	1.78	1.35	<0.80[a]
	Th-232	pCi/L				<0.18[b]	3.33	2.04	3.15	3.96	<0.34[b]	<0.18[b]	<0.48[a]	<0.45[a]	<0.26[a]	<0.31[a]	<0.32[a]	<0.70[a]	<0.23[a]	<0.24[a]	<0.73[a]	<0.35$_a$	<0.48[a]	<0.69[a]
C010[e]	Total U[a]	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.93	1.19	2.31	0.27	2.64	1.47	1.28	1.29
	Ra-226	pCi/L															<1.74[a]	<0.62[a]	<0.17[a]	<0.28[a]	<0.83[a]	<0.66[a]	<0.66[a]	<0.69[a]
	Th-228[c]	pCi/L															<0.44[a]	<0.36[a]	<0.42[a]	0.61	<0.74[a]	<0.83[a]	<0.48[a]	1.01
	Th-230	pCi/L															<0.48[a]	1.01	0.63	0.88	0.75	0.84	0.83	1.13
	Th-232	pCi/L															<0.32[a]	<0.31[a]	<0.16[a]	<0.15[a]	<0.65[a]	<0.52$_a$	<0.40[a]	<0.51[a]
C011[e]	Total U[a]	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.90	1.13	1.91	0.48	1.96	1.94	1.26	1.75
	Ra-226	pCi/L															<0.98[a]	<0.68[a]	<0.32[a]	<0.31[a]	<0.45[a]	<0.95[a]	<0.90[a]	<0.44[a]
	Th-228[c]	pCi/L															<0.38[a]	<0.37[a]	0.86	<0.40[a]	1.45	<0.87[a]	<0.41[a]	<0.70[a]
	Th-230	pCi/L															0.47	0.72	0.76	0.88	<0.76[a]	0.96	0.62	<0.51[a]
	Th-232	pCi/L															<0.53[a]	<0.53[a]	<0.27[a]	<0.17[a]	<0.75[a]	<0.45[a]	<0.57[a]	<0.70[a]

[a] Total U is equal to the sum of the concentrations of U isotopes (in pCi/L) divided by 0.677, where 0.677 picocuries per microgram is the specific activity for total U, assuming secular equilibrium.
[b] Reported result is less than the MDC and is therefore set equal to the MDC.
[c] Ra-228 rapidly achieves equilibrium with Th-228, such that their concentrations are equal.
[d] Stations C008 and C009 were established and initially sampled during the second semi-annual event of CY 2014.
[e] Stations C010 and C011 were established and initially sampled during the first semi-annual event of CY 2021.
Note: Total U (30 µg/L) is the only ROD monitoring guideline for surface water. The other radiological monitoring parameter data are collected to monitor potential COC migration.
NA – not applicable (No sample was collected during this event, because this station was established in 2014 or later.)
NS1 – no sample, remediation activities at this location prevented sampling.

Chemical Parameters

No chemical-specific ROD monitoring guidelines exist for surface water. Chemical monitoring parameter data are collected to monitor COC migration. The chemical monitoring results for the CY 2023 CWC surface water sampling events are presented in Table 3-8.

Table 3-8. Chemical Results for CY 2023 CWC Surface Water Sampling

Monitoring Parameter[a]	Monitoring Stations									
	C002	C003	C004	C005	C006	C007	C008	C009	C010	C011
Target Analyte List Metals Concentration (µg/L)										
First Sampling Event (04/03/23 and 04/04/23)										
Antimony	<2.0[b]	<2.0[b]	<2.0[b]	<2.0[b]	<2.0[b]	<2.0[b]	<2.0[b]	<2.0[b]	<2.0[b]	<2.0[b]
Arsenic	2.8	2.8	2.2	2.3	1.9	2.1	1.7	1.8	<1.6[b]	<1.6[b]
Barium	110	110	120	120	110	120	110	95	81	74
Cadmium	<0.2[b]	<0.2[b]	<0.2[b]	<0.2[b]	<0.2[b]	<0.2[b]	<0.2[b]	<0.2[b]	<0.2[b]	<0.2[b]
Chromium	<4.0[b]	<4.0[b]	<4.0[b]	<4.0[b]	<4.0[b]	<4.0[b]	<4.0[b]	<4.0[b]	<4.0[b]	<4.0[b]
Molybdenum	7.0	6.5	6.7	6.9	6.5	7.2	6.4	5.7	2.9	2.9
Nickel	<2.0[b]	<2.0[b]	2.0	<2.0[b]	2.4	<2.0[b]	<2.0[b]	<2.0[b]	<2.0[b]	<2.0[b]
Selenium	<2.0[b]	<2.0[b]	<2.0[b]	2.4	<2.0[b]	2.9	<2.0[b]	<2.0[b]	<2.0[b]	<2.0[b]
Thallium	<0.1[b]	<0.1[b]	<0.1[b]	<0.1[b]	<0.1[b]	<0.1[b]	<0.1[b]	<0.1[b]	<0.1[b]	<0.1[b]
Vanadium	<4.0[b]	<4.0[b]	<4.0[b]	<4.0[b]	<4.0[b]	<4.0[b]	<4.0[b]	<4.0[b]	<4.0[b]	<4.0[b]
Second Sampling Event (10/04/23 and 10/09/23)										
Antimony	0.38	0.42	0.42	0.41	0.66	0.51	0.49	0.57	0.57	0.58
Arsenic	3.2	3.2	3.1	2.8	2.5	3.0	2.9	2.9	2.7	2.7
Barium	88	92	100	100	98	110	110	110	85	73
Cadmium	<0.1[b]	<0.1[b]	<0.1[b]	<0.1[b]	<0.1[b]	<0.1[b]	<0.1[b]	<0.1[b]	0.1	<0.1[b]
Chromium	1.3	1.5	1.4	1.4	1.4	1.6	<1.3[b]	<1.3[b]	<1.3[b]	<1.3[b]
Molybdenum	10	10	11	11	11	13	9.1	11	9.8	7.7
Nickel	2.0	2.0	2.1	3.0	2.3	2.9	2.3	2.3	2.3	2.2
Selenium	1.2	1.3	1.6	1.7	1.8	1.3	1.3	1.2	1.5	1.4
Thallium	<0.4[b]	<0.4[b]	<0.4[b]	<0.4[b]	<0.4[b]	<0.4[b]	<0.4[b]	<0.4[b]	<0.4[b]	<0.4[b]
Vanadium	<4.0[b]	<4.0[b]	<4.0[b]	<4.0[b]	<4.0[b]	<4.0[b]	<4.0[b]	<4.0[b]	<4.0[b]	<4.0[b]

[a] No chemical-specific ROD monitoring guidelines exist for surface water.
[b] Reported result is less than the MDC and is therefore set equal to the MDC.

3.2.2 Coldwater Creek Sediment Monitoring Results

CY 2023 sediment sampling at CWC was conducted during the months of April and October as part of the EMP. Sediment samples were collected in depositional environments near each of the 10 previously described surface water locations (C002 through C011) (Figure 3-2) and analyzed according to the methods described in the SAG (USACE 2000). Sediment samples collected for the EMP were evaluated for the radiological and metal constituents listed in Table 3-3 of the EMICY23 (USACE 2022).

With the exception of the high-water flow sampling, all sediment monitoring required through implementation of the EMICY23 was conducted as planned during CY 2023 (USACE 2022). The evaluation of monitoring data demonstrates that all applicable ARARs have been met. The analytical results from these monitoring activities are contained in Appendix E, Table E-2, of this EMDAR.

Radiological Parameters

The radiological results for CY 2023 CWC sediment sampling events are presented in Table 3-9. The ROD established sediment RGs for Ra-226, Th-230, and U-238 at the NC Sites (USACE 2005). Therefore, sediment sampling results for those radionuclides were compared

against their corresponding RGs. Sediment samples from CWC were not analyzed for U-234 during CY 2023, because U-234 is assumed to be in equilibrium with U-238.

Table 3-9. Radiological Results for CY 2023 CWC Sediment Sampling

Monitoring Parameter	RGs[a]	Monitoring Stations									
		C002	C003	C004	C005	C006	C007	C008	C009	C010	C011
Radionuclide Concentration (pCi/g)											
First Sampling Event (04/03/23 and 04/04/23)											
Ac-227	No RG	<0.21[b]	<0.21[b]	<0.19[b]	<0.77[b]	<0.22[b]	<0.18[b]	<0.23[b]	<0.21[b]	<0.11[b]	0.25
Pa-231	No RG	<0.75[b]	<0.75[b]	<0.77[b]	<2.67[b]	<0.79[b]	<0.71[b]	<0.88[b]	<0.76[b]	<0.85[b]	<0.91[b]
Ra-226	15	0.84	0.81	0.97	0.91	0.87	0.94	0.98	0.99	1.09	1.56
Ra-228	No RG	0.34	0.52	0.57	0.72	0.74	0.32	0.79	0.74	0.62	0.85
Th-228[c]	No RG	0.50	0.83	0.87	0.58	1.18	0.72	1.07	1.13	0.75	1.65
Th-230[c]	43	1.49	1.41	7.53	8.26	1.74	2.38	2.11	2.89	3.14	17
Th-232[c]	No RG	0.39	0.62	0.81	0.88	0.89	0.61	1.18	0.73	0.47	1.21
U-235	No RG	<0.24[b]	<0.24[b]	<0.26[b]	<0.86[b]	<0.27[b]	<0.22[b]	<0.28[b]	<0.26[b]	<0.27[b]	<0.30[b]
U-238[d]	150	0.64	0.84	1.01	<0.78[b]	1.19	0.46	1.15	0.95	0.74	0.94
Second Sampling Event (10/04/23 and 10/09/23)											
Ac-227	No RG	<0.18[b]	<0.33[b]	<0.25[b]	<0.36[b]	<0.33[b]	<0.36[b]	<0.36[b]	<0.26[b]	<0.25[b]	<0.31[b]
Pa-231	No RG	<0.67[b]	<1.42[b]	<0.93[b]	<1.26[b]	<1.29[b]	<1.25[b]	<1.35[b]	<0.87[b]	<0.93[b]	<1.06[b]
Ra-226	15	0.87	1.11	1.16	1.00	1.10	1.01	1.11	1.33	1.21	2.06
Ra-228	No RG	0.40	0.72	0.89	0.60	0.88	0.65	0.80	0.98	0.62	0.96
Th-228[c]	No RG	0.58	0.74	1.47	1.18	1.01	0.68	1.16	1.79	1.33	1.43
Th-230[c]	43	0.93	2.91	2.07	2.03	3.82	3.00	2.21	3.24	3.87	17.5
Th-232[c]	No RG	0.33	0.43	1.17	1.20	1.04	0.54	0.87	1.14	0.79	1.72
U-235	No RG	<0.24[b]	<0.46[b]	<0.31[b]	<0.45[b]	<0.40[b]	<0.41[b]	<0.40[b]	<0.32[b]	<0.32[b]	<0.36[b]
U-238[d]	150	0.52	0.91	1.1	0.90	0.91	0.86	<0.67[b]	1.17	0.88	1.25

[a] RGs presented in the ROD (USACE 2005).
[b] Reported result is less than the MDC and is therefore set equal to the MDC.
[c] Both gamma spectroscopy and alpha spectroscopy results are produced; alpha spectroscopy results are reported.
[d] U-238 and U-234 are assumed to be in equilibrium.

All sediment data results were below the RGs established by the ROD. The historical radiological sediment sampling data for all monitoring stations since April of 2013 are summarized in Table 3-10.

Table 3-10. Comparison of Historical Radiological Sediment Results for CWC

Station	Radionuclide	Units	04/13	10/13	03/14	10/14	03/15	10/15	03/16	10/16	03/17	10/17	04/18	10/18	04/19	10/19	04/20	10/20	03/21	10/21	04/22	10/22	04/23	10/23
C002	Total U[a]	pCi/g	1.49	1.02	0.75	0.90	1.35	1.89	3.89	5.74	5.50	1.55	1.35	1.70	1.98	1.34	1.13	1.13	1.34	1.23	3.05	1.11	1.28	1.10
	Ra-226	pCi/g	0.91	1.01	0.94	0.88	0.78	1.26	1.34	2.01	1.30	1.22	0.98	1.24	1.36	0.81	0.92	0.99	0.83	0.97	0.95	0.81	0.84	0.87
	Ra-228	pCi/g	0.30	0.28	0.26	0.36	0.18	1.01	1.11	1.08	0.89	0.51	0.34	0.61	0.57	0.38	0.32	0.20	0.34	0.31	0.36	0.26	0.34	0.40
	Th-228	pCi/g	0.30	<0.16[b]	<0.26[b]	0.69	<0.18[c]	1.52	1.74	1.61	0.52	0.53	0.32	0.92	0.60	0.33	0.50	1.01	0.33	0.50	0.58	0.23	0.50	0.58
	Th-230	pCi/g	1.06	1.20	0.69	0.55	0.56	1.53	1.99	2.10	2.26	1.26	0.65	1.30	1.28	1.68	2.17	2.90	1.35	0.92	1.12	0.99	1.49	0.93
	Th-232	pCi/g	0.36	<0.44[b]	0.26	0.55	0.26	1.36	1.39	0.57	0.89	0.41	<0.16[c]	0.62	0.75	0.34	0.41	0.56	<0.20[c]	0.52	0.24	0.35	0.39	0.33
C003	Total U[a]	pCi/g	1.80	1.01	0.90	2.04	2.68	0.99	1.22	2.27	1.90	1.44	1.60	1.94	2.20	2.23	2.12	2.35	2.57	1.54	1.27	1.15	1.68	2.00
	Ra-226	pCi/g	1.41	1.03	1.42	1.22	1.00	0.92	1.11	1.41	1.10	1.29	1.04	1.47	1.44	1.40	1.34	1.06	1.06	1.02	0.85	0.85	0.81	1.11
	Ra-228	pCi/g	0.91	0.36	0.91	0.63	0.82	0.22	0.66	0.98	0.76	0.64	0.66	0.81	0.74	0.86	0.79	0.85	0.84	0.55	0.25	0.35	0.52	0.72
	Th-228	pCi/g	1.01	0.94	1.21	0.68	0.84	0.44	1.28	1.35	1.33	1.01	1.14	1.05	0.65	1.00	1.46	2.00	1.13	0.76	0.40	0.62	0.83	0.74
	Th-230	pCi/g	3.92	1.90	1.67	1.04	2.57	0.57	2.55	3.71	2.85	1.29	2.70	1.48	1.54	3.26	2.51	2.35	1.61	1.75	1.01	0.97	1.41	2.91
	Th-232	pCi/g	0.99	<0.35[b]	0.95	0.89	0.84	0.25	0.87	1.14	1.11	0.68	0.95	0.86	0.70	0.69	1.00	1.30	1.05	0.91	0.53	0.63	0.62	0.43
C004	Total U[a]	pCi/g	1.97	2.14	1.84	1.20	1.67	2.14	2.71	2.00	1.74	1.87	1.72	2.07	1.96	2.31	2.08	2.12	1.79	2.18	2.62	1.86	2.13	2.25
	Ra-226	pCi/g	1.16	1.25	1.62	1.36	1.00	1.21	1.39	1.44	1.12	1.14	1.17	1.33	1.21	1.35	1.42	1.15	1.10	1.14	1.05	0.95	0.97	1.16
	Ra-228	pCi/g	0.72	0.62	0.80	0.89	0.90	1.01	0.95	1.03	0.87	0.85	0.71	0.79	0.50	0.78	0.80	0.87	0.75	0.79	0.87	0.67	0.57	0.89
	Th-228	pCi/g	0.74	1.09	0.94	0.73	1.81	1.31	1.64	1.17	1.14	1.19	0.92	0.91	0.72	0.92	1.91	0.84	1.72	1.15	1.27	0.63	0.87	1.47
	Th-230	pCi/g	2.37	2.15	3.11	1.82	1.7	3.02	2.77	2.11	3.27	2.30	1.83	1.50	1.45	1.73	4.84	2.24	2.06	1.69	2.35	1.74	7.53	2.07
	Th-232	pCi/g	0.84	1.42	0.57	1.50	1.32	0.81	1.30	0.94	1.24	1.05	0.86	0.94	0.72	1.18	1.11	1.49	1.14	0.75	1.03	0.94	0.81	1.17
C005	Total U[a]	pCi/g	1.86	1.20	2.10	1.55	1.58	2.44	2.58	2.50	0.98	1.62	2.05	2.10	1.61	2.72	2.14	2.38	2.09	2.57	2.28	1.71	1.21	1.98
	Ra-226	pCi/g	1.28	1.01	1.59	1.62	1.12	1.05	1.44	1.74	1.08	1.60	1.78	1.68	2.20	1.68	1.62	1.22	1.07	1.14	1.10	0.98	0.91	1.00
	Ra-228	pCi/g	0.87	0.47	1.00	0.99	0.94	0.81	1.06	0.99	0.91	0.99	0.92	0.87	0.91	1.00	0.94	0.96	0.94	0.86	0.71	0.63	0.72	0.60
	Th-228	pCi/g	0.64	0.82	1.35	1.19	1.27	1.50	1.70	1.26	1.31	1.25	1.24	1.04	1.79	1.02	1.13	1.32	1.29	1.24	0.82	1.08	0.58	1.18
	Th-230	pCi/g	4.65	3.26	1.53	1.58	2.13	2.28	2.23	1.83	2.48	2.24	1.61	3.50	2.94	1.70	2.69	2.56	2.10	1.99	1.86	6.09	8.26	2.03
	Th-232	pCi/g	1.08	0.49	1.16	0.69	0.88	0.97	1.30	1.43	1.22	0.78	1.10	0.89	1.08	1.57	0.72	0.89	1.08	1.33	0.73	0.83	0.88	1.20
C006	Total U[a]	pCi/g	1.53	1.87	0.19	2.60	2.77	1.70	1.85	2.33	2.80	1.78	2.02	1.49	2.05	2.69	2.28	2.36	2.39	2.45	2.32	2.28	2.42	1.82
	Ra-226	pCi/g	1.13	1.37	1.38	1.36	1.06	1.28	1.27	1.47	1.21	1.19	1.23	1.59	1.50	1.32	1.38	1.12	1.12	1.08	0.98	0.95	0.87	1.10
	Ra-228	pCi/g	0.99	0.91	1.01	1.05	0.85	0.90	0.85	1.14	0.87	0.85	0.79	0.81	0.84	0.88	0.96	0.79	0.92	0.87	0.86	0.80	0.74	0.88
	Th-228	pCi/g	0.97	1.07	0.60	1.18	1.20	0.88	1.49	1.23	1.84	1.21	1.11	1.27	1.27	1.30	2.27	1.30	1.24	1.09	1.12	1.01	1.18	1.01
	Th-230	pCi/g	2.18	1.57	2.30	2.39	1.52	2.12	3.89	2.31	6.62	3.84	2.71	4.52	2.71	4.42	3.15	4.99	2.17	1.87	2.54	1.96	1.74	3.82
	Th-232	pCi/g	1.31	0.88	0.85	1.04	0.74	1.27	0.95	1.45	1.38	1.33	1.06	1.18	1.13	1.14	1.11	1.16	1.02	1.23	1.07	0.98	0.89	1.04

Table 3-10. Comparison of Historical Radiological Sediment Results for CWC (Continued)

Station	Radionuclide	Units	04/13	10/13	03/14	10/14	03/15	10/15	03/16	10/16	03/17	10/17	04/18	10/18	04/19	10/19	04/20	10/20	03/21	10/21	04/22	10/22	04/23	10/23
C007	Total U[a]	pCi/g	2.13	1.79	0.49	3.35	1.55	1.32	1.91	1.49	1.52	1.41	1.66	1.91	2.22	1.74	1.67	NS1	2.32	NS1	NS1	1.78	1.02	1.75
	Ra-226	pCi/g	1.32	1.20	1.55	2.12	1.10	1.08	1.14	1.28	0.95	1.33	1.14	1.39	1.55	1.19	1.33	NS1	1.20	NS1	NS1	1.14	0.94	1.01
	Ra-228	pCi/g	0.85	0.54	0.77	1.01	0.87	0.64	0.67	0.59	0.66	0.63	0.69	0.64	0.74	0.54	0.58	NS1	0.75	NS1	NS1	0.38	0.32	0.65
	Th-228	pCi/g	0.86	0.94	0.74	0.80	1.06	1.24	0.47	0.62	1.18	1.29	0.95	1.01	1.57	0.82	1.09	NS1	1.02	NS1	NS1	0.94	0.72	0.68
	Th-230	pCi/g	3.25	4.50	3.19	6.81	3.89	3.91	3.77	4.75	5.79	2.98	3.79	3.29	3.11	2.77	6.02	NS1	7.30	NS1	NS1	4.80	2.38	3.00
	Th-232	pCi/g	0.62	0.69	1.21	0.85	0.66	0.87	1.04	0.87	1.02	0.88	1.01	0.73	1.08	0.65	0.92	NS1	0.85	NS1	NS1	0.56	0.61	0.54
C008[d]	Total U[a]	pCi/g	NA	NA	NA	2.60	1.81	1.37	3.24	3.11	1.93	1.73	0.91	-0.17	2.40	2.10	2.35	2.20	2.29	2.39	2.30	1.98	2.40	1.85
	Ra-226	pCi/g				1.22	1.17	1.23	1.27	1.71	1.13	1.30	1.20	1.70	1.53	1.70	1.59	1.26	1.07	1.17	1.10	1.01	0.98	1.11
	Ra-228	pCi/g				0.72	0.81	0.76	0.90	1.27	1.06	0.94	0.74	0.88	0.89	0.98	0.95	0.87	0.92	0.87	0.90	0.79	0.79	0.80
	Th-228	pCi/g				0.82	1.18	0.86	1.16	1.26	1.22	0.99	1.12	1.01	1.02	1.28	0.85	0.99	1.74	1.17	1.08	1.00	1.07	1.16
	Th-230	pCi/g				2.80	2.48	3.36	2.30	1.93	2.68	1.82	2.11	2.23	2.06	2.79	2.98	1.94	2.70	2.53	2.98	2.40	2.11	2.21
	Th-232	pCi/g				0.56	1.19	0.55	1.19	1.06	1.26	0.80	0.90	1.18	0.80	0.60	0.82	0.84	1.00	1.12	1.25	1.03	1.18	0.87
C009[d]	Total U[a]	pCi/g	NA	NA	NA	1.79	1.72	1.63	1.10	1.45	1.76	1.89	1.43	1.76	2.15	1.50	1.96	2.32	2.97	1.84	1.23	2.04	1.93	2.43
	Ra-226	pCi/g				1.43	1.26	1.19	1.43	1.48	1.10	1.27	1.25	1.67	1.52	1.22	1.43	1.09	1.13	1.15	0.80	1.10	0.99	1.33
	Ra-228	pCi/g				0.80	0.94	0.81	0.83	0.88	0.86	0.64	0.73	0.88	0.71	0.46	0.66	0.64	0.80	0.78	0.59	0.81	0.74	0.98
	Th-228	pCi/g				0.86	1.16	1.06	1.30	1.26	0.82	0.86	1.25	0.87	0.87	0.57	1.51	1.12	1.18	1.00	1.09	1.05	1.13	1.79
	Th-230	pCi/g				3.96	2.27	2.99	2.46	3.54	2.95	2.28	2.21	4.60	2.15	6.25	4.81	3.16	4.43	3.44	1.62	2.95	2.89	3.24
	Th-232	pCi/g				1.06	1.22	0.63	1.26	0.98	0.88	0.53	0.86	0.72	0.66	0.55	0.83	0.70	1.01	0.80	1.04	0.87	0.73	1.14
C010[e]	Total U[a]	pCi/g	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.56	2.14	1.87	1.64	1.64	1.09	1.49	1.79
	Ra-226	pCi/g															1.48	1.14	1.19	1.13	0.94	1.08	1.09	1.21
	Ra-228	pCi/g															0.70	0.85	0.65	0.39	0.66	0.43	0.62	0.62
	Th-228	pCi/g															0.91	1.62	0.86	0.61	0.98	0.79	0.75	1.33
	Th-230	pCi/g															2.63	2.52	1.63	3.52	2.05	3.76	3.14	3.87
	Th-232	pCi/g															0.99	0.89	0.94	0.37	0.71	0.44	0.47	0.79

Table 3-10. Comparison of Historical Radiological Sediment Results for CWC (Continued)

Station	Radionuclide	Units	04/13	10/13	03/14	10/14	03/15	10/15	03/16	10/16	03/17	10/17	04/18	10/18	04/19	10/19	04/20	10/20	03/21	10/21	04/22	10/22	04/23	10/23
C011[e]	Total U[a]	pCi/g	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.62	2.32	2.40	1.56	1.39	2.18	2.11	2.71
	Ra-226	pCi/g															1.63	1.27	1.16	1.09	1.11	1.21	1.56	2.06
	Ra-228	pCi/g															0.88	0.89	0.84	0.60	0.62	0.75	0.85	0.96
	Th-228	pCi/g															1.48	1.3	1.15	0.92	1.40	0.99	1.65	1.43
	Th-230	pCi/g															4.22	3.48	3.86	12.1	13.1	5.01	17.0	17.5
	Th-232	pCi/g															1.57	1.22	1.51	1.07	1.01	0.95	1.21	1.72

[a] Total U is equal to the sum of the concentrations of U isotopes (Office of the Federal Register, NARA 1998).
[b] Reported result is less than the MDC and is therefore set equal to the MDC.
[c] Both gamma spectroscopy and alpha spectroscopy results were produced; gamma spectroscopy results are reported.
Note: The sediment RGs for Ra-226, Th-230, and U-238 are 15 pCi/g, 43 pCi/g, and 150 pCi/g, respectively. The other radiological monitoring parameter data are collected to monitor COC migration.
NA – not applicable (No sample was collected during this event, because this station was established in 2014 or later.)
NS1 – no sample, remediation activities at this location prevented sampling.

Chemical Parameters

Chemical monitoring results for CY 2023 CWC sediment sampling events are presented in Table 3-11.

Table 3-11. Chemical Results for CY 2023 CWC Sediment Sampling

Monitoring Parameter	Monitoring Stations									
	C002	C003	C004	C005	C006	C007	C008	C009	C010	C011
Target Analyte List Metals Concentration (mg/kg)										
First Sampling Event (04/03/23 and 04/04/23)										
Antimony	0.37	0.25	0.44	1.4	0.31	0.58	0.83	0.79	0.92	0.61
Arsenic	4.1	4.7	3.9	6.7	3.2	4.0	5.2	5.8	8.3	7.5
Barium	200	98	110	160	130	92	330	150	150	170
Cadmium	0.43	0.25	0.42	0.7	0.27	0.41	0.80	0.54	0.64	0.65
Chromium	40	11	15	23	14	14	20	22	25	35
Molybdenum	2.0	0.28	0.71	1.5	0.21	0.94	1.2	0.54	0.62	0.30
Nickel	11	12	12	18	13	11	27	16	17	18
Selenium	1	3.2	0.87	1.6	0.87	1.1	1.3	1.3	0.99	1.0
Thallium	0.08	0.16	0.11	0.19	0.16	0.12	0.20	0.18	0.15	0.16
Vanadium	12	17	16	23	19	17	23	22	19	23
Second Sampling Event (10/04/23 and 10/09/23)										
Antimony	0.13	1.1	0.3	0.78	0.61	0.96	0.44	0.49	0.60	0.37
Arsenic	2.8	6.6	6.7	4.4	2.5	4.1	3.7	3.2	7.3	5.6
Barium	100	150	140	110	110	91	98	120	160	140
Cadmium	0.30	0.69	0.30	0.50	0.26	0.74	0.42	0.18	0.94	0.56
Chromium	8.7	30	11	16	16	21	24	16	30	21
Molybdenum	0.73	1.2	0.33	0.82	0.33	0.85	0.52	0.19	0.71	0.46
Nickel	4.2	19	14	14	13	14	13	14	18	17
Selenium	0.79	1.8	1.1	1.4	1.3	1.7	1.4	1.5	1.6	1.3
Thallium	0.05	0.2	0.14	0.15	0.14	0.14	0.13	0.16	0.15	0.16
Vanadium	7.7	25	19	18	19	18	18	20	25	19

[a] Reported result is less than the DL and is therefore set equal to the DL.

Note: There are no chemical-specific ROD RGs or monitoring guidelines for sediment. Chemical monitoring parameter data are collected to monitor COC migration.

3.2.3 Impact of FUSRAP Coldwater Creek Remedial Action on Total Uranium Concentrations in Coldwater Creek Surface Water and Sediment

As part of the FUSRAP RA at the SLAPS, sediment and soil were removed from the bed and banks of CWC near monitoring stations C002 and C003 during August of 2004. An evaluation was conducted to determine if the SLAPS RA resulted in increased levels of uranium in CWC. The concentrations of radionuclides in sediment and surface water samples from various stations along CWC were assessed. Radionuclide data from surface water and sediment samples collected from March of 2000 to March of 2004 were used to create a baseline for comparison with sample results collected after the RA.

Methodology

Total U results from CY 2023 surface water and sediment samples from six monitoring stations (C002 through C007) were compared to the 2000 to 2004 dataset for this evaluation. Total U was selected for this evaluation because it is among the most mobile of all the radionuclide COCs present at the SLAPS.

The total U concentration statistics for surface water and sediment at monitoring stations C002 through C007 for 2000 through 2004 are presented in Table 3-12.

Table 3-12. Total Uranium Concentration Statistics for CWC (2000-2004)

Stations[a]	Statistics for Total U in Surface Water March 2000 to March 2004 Data (pCi/L)			Statistics for Total U in Sediment March 2000 to March 2004 Data (pCi/g)		
	UCL_{95}	Mean	LCL_{95}	UCL_{95}	Mean	LCL_{95}
C002	4.2	3.1	1.9	1.7	1.4	1.1
C003	3.8	3.3	2.7	1.9	1.5	1.0
C004	4.5	3.4	2.3	2.3	1.7	1.2
C005	4.1	3.0	1.9	2.8	2.4	2.0
C006	8.2[b]	5.0	[c]	3.0	2.4	1.8
C007	4.7	3.4	0.75	2.5	1.9	1.3

[a] Monitoring stations C008 and C009 were established in 2014 and C010 and C011 were established in 2021.
[b] March 2000 to March 2004 data are gamma distributed. Therefore, approximate gamma upper confidence limit (UCL) is used.
[c] The 95 percent lower confidence limit (LCL_{95}) is not calculated due to gamma-distributed data. ProUCL, the USEPA-approved statistical software, does not compute lower confidence limits of the mean for gamma-distributed data (USEPA 2013).

Qualitative trend line graphs of total U results from surface water and sediment samples collected at monitoring stations C002 through C007 from March of 2000 to October of 2023 are presented on Figures 3-3 and 3-4. The mean, 95 percent upper confidence limit (UCL_{95}), and 95 percent lower confidence limit (LCL_{95}) concentrations of total U calculated from the March 2000 to March 2004 dataset are also shown on Figures 3-3 and 3-4. Surface water and sediment data for total U from monitoring stations C008 to C011 are also included on Figures 3-3 and 3-4.

Conclusion

The data fit two hypothetical scenarios. First, the post-RA sampling results were not significantly different than the pre-RA sampling results for downstream stations at the SLAPS (C003 through C007), so it is unlikely that total U from the SLAPS RA is causing a significant contribution to CWC. The RA over time should markedly reduce the total U load in CWC if the SLAPS were a significant contributor. While a time lag in the fate downstream could occur, the current total U concentrations are already low. Second, the RA within CWC did not adversely impact concentrations of total U in CWC surface water or sediment. Had the RA contributed adversely, a notable short-term increase in total U concentrations would have been observed.

3.2.4 COLDWATER CREEK DAILY SURFACE WATER SAMPLING

As described in the EMICY23 (USACE 2022), dated December 22, 2023, surface water samples are being collected from CWC downstream from the removal actions occurring at CWC-386, CWC-387, and CWC-388 (Northwest Bank of CWC). These samples are collected daily on days when active removal actions taking place within the CWC corridor have the potential to affect water quality. The sampling methods and parameters, including water quality, are consistent with the routine semi-annual CWC surface water sampling as described in Section 3.3 of the EMICY23. Surface water is monitored for the radiological, chemical, and water quality parameters. The water quality parameters measured include pH, temperature, DO, specific conductivity, ORP, and turbidity. The sample results are contained in Appendix E, Table E-3, of this EMDAR.

Water Quality Parameters

The water quality results for each daily surface water sampling are summarized in Table 3-13. Temperatures varied from a low of 4.2 °C in December to a high of 29.43 °C in August. Values for pH ranged from 6.35 to 7.68. All pH values were within the acceptance range (6.0 to 9.0) and thus provide suitable conditions for aquatic life.

The highest DO levels recorded were in December (15.63 mg/L) and the lowest DO levels were recorded in August (3.19 mg/L). Specific conductivity ranged from a low of 0.21 mS/cm to a high

of 1.12 mS/cm. The lowest ORP value (196 mV) occurred in September and the highest ORP level (534 mV) occurred in August. Turbidity ranged from a low in September of 3.50 NTU to a high of 139 NTU in August.

Table 3-13. Daily Surface Water Sampling Water Quality Results for CY 2023

Date	pH (s.u.)	Specific Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	Temperature (°C)	ORP (mV)
07/24/23	7.50	0.805	39.4	5.39	26.47	248
07/25/23	7.52	0.830	40.1	5.24	27.71	270
07/26/23	7.45	0.732	50.1	5.40	27.86	272
07/27/23	7.36	0.785	29.5	4.16	28.64	279
07/31/23	7.24	0.365	25.6	7.71	26.62	306
08/01/23	7.29	0.443	30.9	4.45	25.36	534
08/03/23	7.40	0.373	49.4	5.71	24.66	360
08/07/23	7.38	0.428	48.1	5.16	25.19	341
08/08/23	7.33	0.673	33.2	5.75	25.27	361
08/09/23	7.31	0.767	37.9	4.62	24.29	375
08/10/23	7.34	0.675	46.7	5.50	24.94	348
08/14/23	7.31	0.214	139	6.41	24.44	327
08/15/23	7.27	0.324	43.5	5.96	23.36	394
08/16/23	7.35	0.472	35.8	5.90	22.34	335
08/17/23	7.35	0.555	45.6	3.19	23.58	335
08/21/23	7.61	0.951	40.6	6.31	27.31	313
08/22/23	7.44	1.010	39.9	5.48	28.35	298
08/23/23	7.50	1.040	42.4	5.11	28.31	294
08/24/23	7.52	0.974	50.1	6.14	29.43	330
08/28/23	7.09	0.401	25.5	5.06	24.4	329
08/29/23	7.68	0.491	16.2	5.35	24.28	277
08/30/23	7.65	0.593	44.5	5.54	24.06	245
08/31/23	7.65	0.701	5.7	6.46	22.69	303
09/05/23	7.52	0.991	24.5	5.85	25.35	262
09/06/23	7.40	1.040	12.5	5.37	25.42	320
09/07/23	7.68	1.060	19	6.53	23.41	196
09/11/23	7.43	0.823	34.7	6.57	21.56	364
09/12/23	7.13	0.528	60.6	7.22	21.39	393
09/13/23	7.01	0.755	5.7	6.02	20.83	383
09/14/23	7.24	0.969	26.9	5.58	20.44	364
09/18/23	7.54	1.090	3.5	6.62	19.44	340
09/19/23	7.07	1.060	4.1	7.10	19.6	358
09/20/23	7.28	1.030	33	6.42	20.17	379
09/21/23	7.50	0.929	11.4	5.96	20.45	333
09/25/23	7.09	0.445	42.1	3.43	22.22	357
09/26/23	6.91	0.477	29.4	3.72	22.07	362
12/05/23	6.35	0.300	56.7	8.60	7.53	305
12/06/23	6.72	0.424	65	10.76	7.28	316
12/07/23	6.65	0.550	33.1	11.17	7.42	361
12/08/23	6.59	0.530	23.8	12.69	7.54	369
12/11/23	6.59	0.766	11.8	8.11	7.57	399
12/12/23	6.71	0.949	21.4	15.63	6.47	386
12/13/23	6.61	1.010	23.1	13.75	6.47	376
12/14/23	6.75	1.080	31.4	15.10	6.6	392
12/15/23	6.91	1.120	27.1	13.56	5.65	375
12/18/23	6.57	0.444	42.2	11.21	6.99	392

Table 3-13. Daily Surface Water Sampling Water Quality Results for CY 2023 (Continued)

Date	pH (s.u.)	Specific Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	Temperature (°C)	ORP (mV)
12/19/23	6.67	0.497	33.1	10.44	4.63	401
12/20/23	6.70	0.533	27.2	14.35	4.2	401
12/21/23	6.58	0.614	25.3	10.92	6.06	395

Note: Water quality data are used as part of the overall evaluation of water quality, but no ROD-defined monitoring criteria exist.

Radiological Parameters

The radiological monitoring results for the CY 2023 CWC daily surface water sampling events are summarized in Table 3-14. Surface water data for U-234, U-235, and U-238 (reported in pCi/L) were converted to µg/L and compared to the 30 µg/L criterion for total U described in the ROD. The total U concentrations in surface water were significantly less than the 30 µg/L ROD criterion.

Table 3-14. Radiological Results for CY 2023 CWC Daily Surface Water Sampling

Monitoring Parameter	Low	High
Radionuclide Concentration (pCi/L)		
Ra-226	<0.43[a]	0.71
Th-228[b]	<0.36[a]	1.03
Th-230	<0.36[a]	1.78
Th-232	<0.36[a]	<1.23[a]
U-234	<0.33[a]	2.95
U-235	<0.45[a]	<1.52[a]
U-238	<0.24[a]	2.71
Total U[c] (µg/L)	0	8.36

[a] Reported result is less than the DL and is therefore set equal to the DL.

[b] Ra-228 rapidly achieves equilibrium with Th-228, such that their concentrations are equal.

[c] Total U is equal to the sum of the concentrations of uranium isotopes (in pCi/L) for an individual sample divided by 0.677, where 0.677 pCi/µg is the specific activity for total U, assuming secular equilibrium.

Note: Total U (30 µg/L) is the only ROD monitoring guideline for surface water. Radiological monitoring parameter data are collected to monitor COC migration and to calculate total U.

Chemical Parameters

No chemical-specific ROD monitoring guidelines exist for surface water. Chemical monitoring parameter data are collected to monitor COC migration. The chemical monitoring results for the CY 2023 CWC surface water sampling events are presented in Table 3-15. The chemical data collected for the daily-flow surface water sampling event was comparable to the data collected from base-flow events.

Table 3-15. Chemical Results for CY 2023 CWC Surface Water Sampling

Monitoring Parameter	Low	High
Target Analyte List Metals Concentration (µg/L)[a]		
Antimony	0.34	<2.00[a]
Arsenic	<1.60[a]	3.60
Barium	36	120
Cadmium	0.06	0.23
Chromium	1.30	4.30
Molybdenum	2.20	21.0
Nickel	1.40	3.60
Selenium	0.67	2.00
Thallium	<0.13[a]	<0.38[a]

[a] Reported result is less than the DL and is therefore set equal to the DL.

4.0 EVALUATION OF GROUNDWATER MONITORING DATA

During CY 2023, 24 groundwater monitoring wells were sampled at the NC Sites. Groundwater was sampled following protocol for individual wells and analytes and was analyzed for various radiological constituents and/or inorganic analytes. Static water levels were measured quarterly at the monitoring wells. An expanded groundwater monitoring event was added in CY 2023. This comprehensive sampling event included the collection of groundwater samples from the entire well network of 24 wells for the NC Sites. In addition, field parameters were measured during purging of the wells before sampling. The static water levels and other groundwater field parameter results for CY 2023 sampling are contained in Appendix F, Tables F-1 and F-2. Summary tables providing the NC Sites groundwater analytical sampling results for CY 2023 are contained in Appendix F, Tables F-3 and F-4.

Groundwater Guidelines

The CY 2023 groundwater monitoring data for the NC Sites are compared to the ROD groundwater monitoring guidelines (henceforth referred to as ROD guidelines) listed in Tables G-1 and G-2 in Appendix G of this EMDAR. The ROD guidelines for the NC Sites are based on requirements specified in the ROD (USACE 2005) and are further explained in Sections 4.1.1 and 4.2.1.

Stratigraphy

The stratigraphic units present at the NC sites are shown in the stratigraphic column presented on Figure 4-1. Fill and topsoil (Unit 1) overlie Pleistocene loess (Unit 2) and glaciolacustrine deposits. The glaciolacustrine sediments consist of Subunit 3T (silty clay), Subunit 3M (moderately to highly plastic clay), Subunit 3B (silty clay), and Unit 4 (clayey and sandy gravel). Beneath these unconsolidated deposits, the bedrock is composed of Mississippian limestone (Unit 6). Stratigraphic Unit 5, Pennsylvanian shale bedrock, is not present at the HISS or Futura, but is found directly overlying Unit 6 under portions of the SLAPS.

4.1 LATTY AVENUE PROPERTIES

The Latty Avenue Properties include the HISS, Futura, and 10 Latty Avenue VPs (VPs 01[L] through 06[L]; VP-40A East; and Parcels 10K530065, 10K530076, and 10K530087). The groundwater monitoring wells at the Latty Avenue Properties are located on or adjacent to the HISS and Futura.

Stratigraphy at the Latty Avenue Properties

Four HZs (HZ-A through HZ-C, and HZ-E) have been identified at the Latty Avenue Properties. The shallow groundwater zone, HZ-A, consists of the fine-grained silts and clays of Unit 1, Unit 2, and Subunit 3T. Underlying HZ-A is HZ-B, which consists of a highly impermeable clay (Subunit 3M). HZ-C consists of silty clay, clayey silt, and clayey gravel deposits that comprise the stratigraphic Subunit 3B and Unit 4. The Mississippian limestone bedrock is defined as HZ-E. HZ-E is the protected aquifer for the site. As a result of their very low permeability, Subunits 3M and 3B limit vertical groundwater movement between HZ-A and the deep groundwater zones (HZ-C and HZ-E) at the Latty Avenue Properties.

Summary of Calendar Year 2023 Groundwater Monitoring Results at the Latty Avenue Properties

Based on an evaluation of the groundwater data at the Latty Avenue Properties, five inorganic soil COCs (molybdenum, cadmium, nickel, selenium, and vanadium) and two radiological COCs

(U-234 and total U) were detected at concentrations in excess of the ROD guidelines in HZ-A groundwater at the Latty Avenue Properties in CY 2023. Molybdenum, cadmium, nickel, selenium, and vanadium were detected above the corresponding ROD guidelines in HZ-A wells (HISS-01, HISS-10, HISS-11A, and HW22) during the CY 2023 sampling events. Molybdenum and selenium were detected above the ROD guideline at HISS-10 in the samples collected during the second, third, and fourth quarters and the comprehensive sampling events of CY 2023. Molybdenum and selenium were above the ROD guideline in the previous sampling events conducted in CY 2022. Therefore, molybdenum and selenium concentrations in HISS-10 have exceeded the ROD guideline for more than 12 months. The Mann-Kendall Trend Test results indicate a statistically significant increasing trend for molybdenum and selenium in HISS-10. Nickel exceeded the ROD guideline at HISS-10 in the samples collected during the third quarter of CY 2023. However, nickel concentrations did not exceed the ROD guideline at HISS-10 in the samples collected during the fourth quarter of CY 2023. Therefore, nickel concentrations in HISS-10 have not exceeded the ROD guideline for more than 12 months. Cadmium exceeded the ROD guideline at HISS-10 in the samples collected during the second quarter of CY 2023. However, cadmium concentrations did not exceed the ROD guideline at HISS-10 in the samples collected during the third or fourth quarters or the comprehensive sampling events of CY 2023. Therefore, cadmium concentrations in HISS-10 have not exceeded the ROD guideline for more than 12 months.

Molybdenum exceeded the ROD guideline at HISS-01 and HISS-11A in the samples collected from the comprehensive sampling event of CY 2023. However, molybdenum concentrations did not exceed the ROD guideline at HISS-01 and HISS-11A in the samples collected during the fourth quarter of CY 2023. Therefore, molybdenum concentrations in HISS-01 and HISS-11A have not exceeded the ROD guideline for more than 12 months.

Selenium exceeded the ROD guideline at HW22 in the samples collected during the third and fourth quarters and the comprehensive sampling events of CY 2023. However, selenium concentrations did not exceed the ROD guideline at HW22 in the samples collected during the second quarter of CY 2023. Therefore, selenium concentrations in HW22 have not exceeded the ROD guideline for more than 12 months. Vanadium exceeded the ROD guideline at HW22 in the samples collected during the second quarter of CY 2023. However, vanadium was not detected above the ROD guideline at HW22 in the sample collected during the previous sampling event in the second quarter of CY 2022. Therefore, vanadium concentrations in HW22 have not exceeded the ROD guideline for more than 12 months.

The U-234 concentrations in the sample collected at HISS-10 during the fourth-quarter sampling event exceeded the ROD guideline. However, U-234 was not detected above the ROD guideline at HISS-10 in the sample collected during the previous comprehensive sampling event of CY 2023. Therefore, U-234 has not exceeded the ROD guideline for more than 12 months at HISS-10. Total U exceeded the ROD guideline at HISS-01 in the samples collected during the fourth-quarter sampling event of CY 2023. However, total U concentrations did not exceed the ROD guideline at HISS-01 in the samples collected during the comprehensive sampling event in CY 2023 or the previous sampling event during the third quarter of CY 2022. Therefore, the total U concentrations in HISS-01 have not exceeded the ROD guideline for more than 12 months.

Because a significant degradation of CWC surface water has not occurred and is not anticipated, no finding currently indicates significantly degraded groundwater conditions in HZ-A groundwater, as defined by the ROD. However, because molybdenum and selenium levels in HISS-10 have exceeded the ROD guideline for a period of at least 12 months, groundwater monitoring will continue subject to subsequent CERCLA 5-year reviews.

Based on the CY 2023 results for HW23, concentrations of all inorganic and radiological soil COCs were below the ROD groundwater guidelines in HZ-C during CY 2023. Therefore, no findings currently indicate significantly degraded groundwater conditions in HZ-C groundwater. An evaluation of potential response actions is therefore not required.

4.1.1 Evaluation of Groundwater Monitoring Data at the Latty Avenue Properties

The groundwater monitoring data for the Latty Avenue Properties are evaluated against the requirements for groundwater monitoring identified in the ROD (USACE 2005). The ROD specifies two types of groundwater monitoring guidelines: (1) response-action monitoring guidelines and (2) a total U monitoring guideline (which is used for both response-action and long-term monitoring). Response-action monitoring of HZ-A and HZ-C is being conducted to ensure that the RA does not degrade current groundwater conditions. Another purpose of the response-action groundwater monitoring of HZ-C is to document protection of the limestone aquifer (HZ-E) during the RA.

The response-action monitoring guideline is two times the UCL_{95}, based on historical concentrations of the analyte in a particular well before RAs were initiated under the ROD. The response-action monitoring guidelines have been developed for the ROD soil COCs for each of the wells at the Latty Avenue Properties. The methodology for the development of the response-action monitoring guidelines is detailed in Appendix G of this EMDAR. The total U guideline is defined in the ROD to be equal to the total U maximum contaminant level of 30 µg/L (USACE 2005). If total U levels exceed 30 µg/L, monitoring would continue subject to a CERCLA 5-year review.

In addition to the previous requirements, an evaluation of concentration trends over time is conducted for the COCs detected above the ROD guidelines in groundwater to support assessment of the effectiveness of the RA in the CERCLA 5-year reviews.

Monitoring Well Network at the Latty Avenue Properties

The CY 2023 EMP well network for the Latty Avenue Properties is shown on Figure 4-2. With the exception of monitoring well HW23, which is screened in HZ-C, the monitoring wells are screened in HZ-A. The screened HZs for the groundwater monitoring wells at the Latty Avenue Properties are identified in Table 4-1. Appendix H, Attachment H-1, provides the well maintenance checklists for the annual inspection of the groundwater monitoring wells at the Latty Avenue Properties, conducted on April 18, 2023.

Table 4-1. Screened HZs for Groundwater Monitoring Wells at the Latty Avenue Properties in CY 2023

Well ID	Screened HZs
HISS-01[a]	HZ-A
HISS-06A[a]	HZ-A
HISS-10[a]	HZ-A
HISS-11A[a]	HZ-A
HISS-17S[a]	HZ-A
HISS-19S[a]	HZ-A
HW22[a]	HZ-A
HW23[a]	HZ-C

[a] Wells sampled in CY 2023.

Groundwater sampling was conducted at eight groundwater monitoring wells at the Latty Avenue Properties in CY 2023. Appendix H, Attachment H-2, contains copies of the field logbook pages for groundwater sampling conducted in CY 2023. First-quarter sampling was conducted on

February 15, 2023; second-quarter sampling was conducted on May 16 and 17, 2023; third-quarter sampling was conducted on August 30 and September 5, 2023; fourth-quarter sampling was conducted on October 25 to November 22, 2023; and a comprehensive sampling event was conducted on June 14 to 21, 2023.

HZ-A Groundwater

Groundwater samples were collected from seven HZ-A wells in CY 2023. A summary table presenting the CY 2023 analytical data for all analytes is included in Appendix F (Table F-3).

For response-action monitoring, the CY 2023 groundwater data were evaluated to determine if groundwater conditions have significantly degraded. Continued monitoring of HZ-A could be required long term if significantly degraded groundwater conditions are found. Based on the ROD, a significantly degraded groundwater condition requires all of the following:

1. That soil COC concentrations have statistically increased in groundwater (relative to the well's historical data and accounting for uncertainty) for more than a 12-month period. Significantly increased concentrations are defined as doubling of an individual COC concentration above the upper confidence limit (UCL) of the mean (based on the historical concentration before RA) for a period of 12 months;
2. That the degraded well is close enough to impact CWC; and
3. That a significant degradation of CWC surface water is anticipated.

The CY 2023 results were compared to the guidelines for the soil COCs identified in the ROD (i.e., antimony, arsenic, barium, cadmium, chromium, molybdenum, nickel, selenium, thallium, total U, vanadium, Ra-226, Ra-228, Th-228, Th-230, Th-232, U-234, U-235, and U-238). The ROD guideline for total U (30 µg/L) is used for both response-action and long-term monitoring of groundwater at the Latty Avenue Properties. Total U concentrations were compared to the 30 µg/L monitoring guideline. Total U concentrations (in µg/L) were calculated as follows from the isotopic results (in pCi/L) and the specific activities (in pCi/µg) for each radionuclide.

$$Total U\left(\frac{\mu g}{L}\right) = \left[\frac{U^{234}\left(\frac{pCi}{L}\right)}{6240\left(\frac{pCi}{\mu g}\right)}\right] + \left[\frac{U^{235}\left(\frac{pCi}{L}\right)}{2.16\left(\frac{pCi}{\mu g}\right)}\right] + \left[\frac{U^{238}\left(\frac{pCi}{L}\right)}{0.335\left(\frac{pCi}{\mu g}\right)}\right]$$

Those soil COCs with concentrations above the ROD guidelines in HZ-A groundwater samples at the Latty Avenue Properties during CY 2023 are listed in Table 4-2. Because no groundwater sampling data are available for HISS-06A and HISS-11A prior to CY 2011, the ROD guidelines for HISS-06A and HISS-11A were developed using the pre-2006 data from the wells previously at these locations (HISS-06 and HISS-11).

Table 4-2. Analytes Exceeding ROD Guidelines in HZ-A Groundwater at the Latty Avenue Properties in CY 2023

Analyte	Units	Station	ROD Guidelines[a]	Minimum Detected	Maximum Detected	Mean Detected	Detects above ROD Guidelines[a]	Frequency of Detection
Molybdenum	µg/L	HISS-01	23	20	24	22	1	2/2
		HISS-10	5.6	47	89	71	4	4/4
		HISS-11A	4.8	3.8	4.9	4.26	1	3/3
Cadmium	µg/L	HISS-10	1.4	0.18	2.3	1.24	1	4/4

Table 4-2. Analytes Exceeding ROD Guidelines in HZ-A Groundwater at the Latty Avenue Properties in CY 2023 (Continued)

Analyte	Units	Station	ROD Guidelines[a]	Minimum Detected	Maximum Detected	Mean Detected	Detects above ROD Guidelines[a]	Frequency of Detection
Selenium	µg/L	HISS-10	7.6	8.5	120	38.12	4	4/4
		HW22	17	16	37	26.5	3	3/4
Nickel	µg/L	HISS-10	3.8	2.7	9	4.5	1	4/4
Vanadium	µg/L	HW22	6.44	7.00	7.00	7.00	1	1/4
U-234[b,c]	pCi/L	HISS-10	6.6	4.96	7.74	6.37	1	3/3
Total U[b]	µg/L	HISS-01	30	26.15	31.72	28.93	1	2/2

[a] ROD guidelines include the response-action monitoring guidelines and the total U monitoring guideline of 30 µg/L. Response-action monitoring guideline = 2 x UCL_{95}, based on historical concentrations before RAs were initiated (USACE 2005). Results are reported to two significant digits.

[b] Total U values were calculated from isotopic concentrations in pCi/L and converted to µg/L using radionuclide-specific activities with the following formula: total U (µg/L) = U-234 (pCi/L)/6240 + U-235 (pCi/L)/2.16 + U-238 (pCi/L)/0.335.

[c] Total concentration of U-234 detected in HISS-10 is not above the ROD guideline when measurement error is taken into account.

Five inorganic COCs (molybdenum, cadmium, selenium, nickel, and vanadium) were detected above their ROD guidelines in HZ-A groundwater at the Latty Avenue Properties in CY 2023. Molybdenum and selenium were detected in HISS-10 at levels above the ROD guideline of 5.6 µg/L and 7.6 µg/L, respectively, during the second, third, and fourth quarters and in comprehensive samples (molybdenum at 67 µg/L, 89 µg/L, 47 µg/L, 81 µg/L; and selenium at 13 µg/L, 8.5 µg/L, 120 µg/L, 11 µg/L). Molybdenum and selenium were above the ROD guideline in the previous sampling events conducted in CY 2022. Therefore, molybdenum and selenium concentrations in HISS-10 have exceeded the ROD guideline for more than 12 months. The nickel concentration exceeded the ROD guideline (3.8 µg/L) in HISS-10 in the third-quarter sample (9 µg/L). The nickel concentrations did not exceed the ROD guideline in the fourth quarter of CY 2023. Therefore, nickel concentrations in HISS-10 have not exceeded the ROD guideline for more than 12 months. The cadmium concentration exceeded the ROD guideline (1.4 µg/L) in HISS-10 in the second-quarter sample (2.3 µg/L). Cadmium was below the ROD guideline in the samples collected during the third and fourth quarters and the comprehensive sampling events of CY 2023. Therefore, cadmium concentrations in HISS-10 have not exceeded the ROD guideline for more than 12 months.

The molybdenum concentration exceeded the ROD guideline in HISS-01 (23 µg/L) and HISS-11A (4.8 µg/L) and in the comprehensive samples (24 µg/L and 4.9 µg/L, respectively). The molybdenum concentrations did not exceed the ROD guideline during the fourth quarter of CY 2023. Therefore, molybdenum concentrations in HISS-01 and HISS-11A have not exceeded the ROD guideline for more than 12 months.

The selenium concentration exceeded the ROD guideline (17 µg/L) in HW22 in the third-quarter sample (33 µg/L), fourth-quarter sample (37 µg/L), and the comprehensive sample (21 µg/L) of CY 2023. The selenium concentrations did not exceed the ROD guideline in the second-quarter sample of CY 2023. Therefore, selenium concentrations in HW22 have not exceeded the ROD guideline for more than 12 months. The vanadium concentration exceeded the ROD guideline at HW22 in the second quarter (7.0 µg/L) of CY 2023. The vanadium concentration was below the ROD guideline in the previous sampling event conducted in the second quarter of CY 2022. Vanadium concentrations for the third and fourth quarters and a comprehensive sampling event do not exceed the ROD guideline when measurement error is taken into account. Therefore, vanadium concentrations in HW22 have not exceeded the ROD guideline for more than 12 months.

Two radiological COCs (U-234 and total U) were detected above their ROD guidelines in HZ-A wells at HISS-10 and HISS-01 at the Latty Avenue Properties in CY 2023. The U-234 concentrations exceeded the ROD guideline (6.6 pCi/L) in HISS-10 in the fourth-quarter sample (7.74 pCi/L). U-234 did not exceed the ROD guideline when measurement error is taken into account. In addition, U-234 concentrations did not exceed the ROD guideline in the previous comprehensive sampling event of CY 2023. Therefore, U-234 has not exceeded the ROD guideline for more than 12 months at HISS-10. The total U concentration exceeded the ROD guideline (30 µg/L) in HISS-01 in the fourth-quarter sample (31.72 µg/L). The total U concentration did not exceed the ROD guideline in the comprehensive sampling event in CY 2023 or the previous sampling event during the third quarter of CY 2022. Therefore, the total U concentrations in HISS-01 have not exceeded the ROD guideline for more than 12 months.

In summary, comparison of the data to the ROD guidelines indicates that five inorganic COCs (Molybdenum, cadmium, nickel, selenium and vanadium) and two radiological COCs (U-234 and total U) exceeded the ROD guidelines in HZ-A groundwater in CY 2023. Because a significant degradation of CWC surface water has not occurred and is not anticipated, no findings currently indicate significantly degraded groundwater conditions in HZ-A groundwater, as defined by the ROD. However, because molybdenum and selenium levels in HISS-10 have exceeded the ROD guideline for a period of at least 12 months, groundwater monitoring will continue subject to subsequent CERCLA 5-year reviews.

HZ-C Groundwater

Groundwater samples were collected from one HZ-C well (HW23) in CY 2023. This well was sampled for both radionuclides and inorganics during the second, third, and fourth quarters and a comprehensive sampling event. Concentrations of all inorganic and radiological soil COCs were below the ROD groundwater guidelines in HW23 during CY 2023.

In summary, the CY 2023 HZ-C groundwater data from the Latty Avenue Properties indicate that no analytes were detected at concentrations above ROD groundwater guidelines. Therefore, there is currently no finding of significantly degraded groundwater conditions in HZ-C groundwater.

4.1.2 Comparison of Historical Groundwater Data at the Latty Avenue Properties

Groundwater sampling has been conducted at the Latty Avenue Properties from CY 1984 to the present. The most extensive groundwater monitoring program, involving sampling from 18 monitoring wells, was conducted at the site in the summer of CY 1997. Results from subsequent sampling events were used to evaluate contaminant trends at the Latty Avenue Properties during the period from the first quarter of CY 1999 to the fourth quarter of CY 2023. Statistical analysis was used to assist with identifying trends for those contaminants that exceeded the ROD guidelines in CY 2023.

Statistical Method and Trend Analysis

Several statistical methods are available to evaluate contaminant trends in groundwater. These include the Mann-Kendall Trend Test, the Wilcoxon Rank Sum (WRS) Test, and the Seasonal Kendall Test (USEPA 2000). The latter two tests are applicable to data that may or may not exhibit seasonal behavior, but generally require larger sample sizes than the Mann-Kendall Trend Test. The Mann-Kendall Trend Test was selected for this project because this test can be used with small sample sizes (as few as four data points), and because a seasonal variation in concentrations was not indicated by the time-versus-concentration plots at the NC Sites. The Mann-Kendall Trend Test is a non-parametric test and, as such, is not dependent upon assumptions of distribution, missing data,

or irregularly spaced monitoring periods. In addition, data reported as being less than the detection limit (DL) can be used (Gibbons 1994). The test can assess whether a time-ordered dataset exhibits an increasing or decreasing trend, within a predetermined level of significance. While the Mann-Kendall Trend Test can use as few as four data points, often this is not enough data to detect a trend. Therefore, the test was performed only at those monitoring stations at the NC Sites for which data have been collected for at least six sampling events.

A customized Microsoft Excel® spreadsheet was used to perform the Mann-Kendall Trend Test. The test involves listing the sampling results in chronological order and computing all differences that may be formed between current measurements and earlier measurements. The value of the test statistic (S) is the difference between the number of strictly positive differences and the number of strictly negative differences. If S is a large positive value, then evidence indicates an increasing trend in the data. If S is a large negative value, then evidence indicates a decreasing trend in the data. If no trend exists and all observations are independent, then all rank orderings of the annual statistics are equally likely (USEPA 2000). The results of the Mann-Kendall Trend Test are reported in terms of a p-value or Z-score, depending on sample size, N. If the sample size is less than or equal to 10, then the p-value is computed. If the p value is less than or equal to 0.05, the test concludes that the trend is statistically significant. If the p value is greater than 0.05, the test concludes no evidence of a significant trend exists. For dataset sizes larger than 10, the Z-score is compared to ±1.65, which is the comparison level at a 95 percent confidence level. If the Z-score is greater than 1.65, the test concludes that a significant upward trend exists. If the Z-score is less than –1.65, the test concludes that a significant downward trend exists. For Z-scores between –1.65 and 1.65, no evidence of a significant trend exists.

The results of the Mann-Kendall Trend Test are less reliable for datasets containing a high number of non-detect values, particularly if the DL changes over time. For that reason, for datasets in which more than 50 percent of the time-series data are non-detect results, the Mann-Kendall Trend Test was not conducted. No general consensus exists regarding the percentage of non-detect results that can be handled by the Mann-Kendall Trend Test.

Only unfiltered data were used, and split and QC sample results were not included in the database for the Mann-Kendall Trend Test. The Mann-Kendall Trend Test is used to evaluate the radiological data and to determine trends without regard to isotopic analysis. In addition, for monitoring wells for which the Mann-Kendall Trend Test has indicated a trend (either upward or downward), another analysis is performed to determine whether the trend is due to inherent error associated with the analytical test method for each sample analysis. This analysis involves graphing the data and the associated error-bar for the specific constituent. The time-versus-concentration plots for molybdenum at HISS-01, HISS-10, HISS-11A, selenium at HISS-10, HW22, U-234 at HISS-10 and for total U at HISS-01 are provided on Figure 4-3.

Results of Trend Analysis for Groundwater at the Latty Avenue Properties

For those stations at which an analyte exceeded the ROD guideline at least once during the year and for which sufficient historical data were available to evaluate trends (i.e., at least six samples), statistical trend analysis is conducted to assess whether concentrations of the analyte are increasing (upward trending) or decreasing (downward trending) over time. For the purposes of this trend analysis, a statistically significant trend in concentration is defined as a trend with a confidence level greater than 95 percent. The confidence level denotes the probability that the indicated trend is an actual trend in the data, rather than a result of the random nature of environmental data.

HZ-A Groundwater

The Mann-Kendall Trend Test was performed for those wells in which analytes exceeded the ROD guidelines at least once during CY 2023, for which sufficient data were available (i.e., at least six samples were collected during the period from the first quarter of CY 1999 through the fourth quarter of CY 2023), and at which the percentage of non-detect results is less than or equal to 50 percent.

Inorganics

The concentration of five inorganic soil COCs (molybdenum, cadmium, nickel, vanadium, and selenium) were above the ROD groundwater guidelines in the CY 2023 groundwater samples from HZ-A wells HISS-01, HISS-10, HISS-11A, and HW22. Because the historical dataset for cadmium and nickel in HISS-10 and vanadium in HW22 do not have a detection frequency greater than 50 percent, a Mann-Kendall Trend Test was not performed for these COCs. A trend analysis was conducted for molybdenum and total U in HISS-01; molybdenum, selenium, and U 234 in HISS-10; molybdenum in HISS-11A; and selenium in HW22. As shown in Table 4-3 and on the time-versus-concentration plots on Figure 4-3, a statistically significant increasing trend in molybdenum and selenium concentrations (i.e., a trend with a confidence level greater than 95 percent) was observed for molybdenum at HISS-01, HISS-10, HISS-11A and selenium at HISS-10 and HW22 for the CY 2023 dataset.

Table 4-3. Results of the Mann-Kendall Trend Test for Analytes Exceeding the ROD Guidelines in Groundwater at the Latty Avenue Properties in CY 2023

Analyte	Station	N[a]	Test Statistics[b]		Trend[d]
			S[c]	Z[c]	
Molybdenum	HISS-01	30	157	2.88	Upward Trend
	HISS-10	48	786	7.05	Upward Trend
	HISS-11A	20	65	2.08	Upward Trend
Selenium	HISS-10	51	589	4.87	Upward Trend
	HW22	29	148	2.76	Upward Trend
U-234	HISS-10	38	402	5.04	Upward Trend
Total U	HISS-01	39	139	1.67	Upward Trend

[a] N is the number of unfiltered groundwater sample results for a particular analyte.
[b] Test Statistics: S – the S-Statistic; Z – Z-score, or normalized test statistic (for datasets having N greater than 10).
[c] One-tailed Mann-Kendall Trend Tests were performed at a UCL_{95}.
[d] Trend: If N is greater than 10, the Z-score is compared to ±1.65 to determine trend significance.

Radionuclides

The concentrations of two radiological COCs (U-234 and total U) were above the ROD groundwater guidelines in the CY 2023 groundwater sample from HZ-A wells HISS-10 and HISS-01. However, the concentrations of U-234 detected in HISS-10 during the fourth-quarter sampling event were not above the ROD guideline when measurement error is taken into account. A trend analysis was conducted for total U concentration at HISS-10. Because total U values are calculated using the U-234 and U-238 values, the trend in their values should be similar. As shown in Table 4-3 and on the time-versus-concentration plot on Figure 4-3, a statistically significant increasing trend in total U concentration (i.e., a trend with a confidence level greater than 95 percent) was observed for HISS-10 for the CY 1999 through CY 2023 dataset.

As shown in Table 4-3 and on the time-versus-concentration plot on Figure 4-3, the trend analysis conducted for total U at HISS-01 indicates and upward trend, and a statistically significant increasing trend in total U concentrations was observed for HISS-01 for the CY 1999 through CY 2023 dataset.

The time-versus-concentration plots shown on Figure 4-4 provide an overview of the temporal and spatial variability in the concentrations of total U in groundwater at the Latty Avenue Properties. Total U concentrations were calculated using the isotopic U results measured in pCi/L and converted to µg/L using radionuclide-specific activities. The reported values were used for detected and non-detected isotopic values, except when the value was negative. If the reported value was negative, a value equal to zero was substituted for the result prior to calculating the total U concentration.

HZ-C Groundwater

The Mann-Kendall Trend Test is performed for those wells in which analytes exceeded the ROD guidelines at least once during CY 2023. Concentrations of all soil COCs were below the ROD groundwater guidelines in CY 2023. Therefore, a trend analysis was not conducted for HZ-C groundwater for the Latty Avenue monitoring well.

4.1.3 Evaluation of the Potentiometric Surface at the Latty Avenue Properties

Groundwater surface elevations were measured at the Latty Avenue Properties in February, May, August, and October of CY 2023. Groundwater elevation contours were drawn using the May 15, 2023, and October 25, 2023, measurements to illustrate groundwater flow conditions in wet and dry seasons, respectively. The potentiometric surface maps, shown on Figures 4-5 through 4-8, were developed for both HZ-A and HZ-C groundwater zones. The groundwater flow direction is interpreted to be perpendicular to the groundwater equipotential contours. The groundwater surface elevations at the Latty Avenue Properties, the SLAPS, and the SLAPS VPs were mapped on the same figures because these areas are located in the same groundwater flow regime.

The top of the saturated zone occurs in the low hydraulic conductivity silts and clays of stratigraphic Units 2 and 3T at the Latty Avenue Properties. The potentiometric data indicate some mounding of the HZ-A groundwater at the HISS and Futura. Wells HISS-01, HISS-06A, HISS-10, and HISS-17S have the highest potentiometric surface elevations, with lower groundwater elevations measured in the surrounding wells. At the western edge of the HISS and Futura, groundwater in the HZ-A zone flows to the west toward CWC. The local horizontal gradient for HZ-A groundwater at the HISS and Futura ranged from 0.007 ft/ft (October) to 0.01 ft/ft (May) in CY 2023. Based on the CY 2023 water-level measurements, the position of the HZ-A groundwater surface averages approximately 2.5 ft higher in the corresponding shallow wells at the HISS in the wet season (May) than in the dry season (October).

The potentiometric surface of the HZ-C groundwater at the Latty Avenue Properties is not well defined due to the limited data available for the deeper HZs. Based on measured groundwater elevations in the HZ-C monitoring well HW23 at the Latty Avenue Properties and several HZ-C wells located to the southwest at the SLAPS and the SLAPS VPs, the flow direction in the HZ-C groundwater beneath the Latty Avenue Properties was generally toward the southeast at an average horizontal gradient of 0.0007 ft/ft (May) and 0.0008 ft/ft (October) in CY 2023.

4.2 ST. LOUIS AIRPORT SITE AND ST. LOUIS AIRPORT SITE VICINITY PROPERTIES

Groundwater monitoring wells have been installed at the SLAPS and the SLAPS VPs to characterize the site stratigraphy, groundwater chemistry, and groundwater migration pathways.

Stratigraphy at the St. Louis Airport Site and the St. Louis Airport Site Vicinity Properties

In the vicinity of the SLAPS and the adjacent SLAPS VP Ballfields, surficial deposits (Unit 1) include topsoil and anthropogenic fill (rubble, scrap metal, gravel, glass, slag, and concrete) generally less than 14 ft thick (Figures 4-1, 4-9, and 4-10). Unit 2 is comprised of loess and has a thickness of 11 to 30 ft. Unit 3, which is subdivided into Subunits 3T, 3M, and 3B, primarily consists of clay and silt lakebed deposits. Each of these clayey subunits has a thickness of up to 30 ft. Unit 4 consists of clayey gravel with fine to very-fine sand and sandy gravel. This unit is interpreted to be approximately 5 to 15 ft thick and thins eastward and westward of the SLAPS. This unit is absent beneath the eastern part of the SLAPS, where Subunits 3M and 3B drape, or onlap, onto shale bedrock. Below Units 3 and 4 are Units 5 and 6, which consist of Pennsylvanian shale/siltstone and Mississippian limestone, respectively. Depth to bedrock ranges from approximately 55 ft on the eastern part of the SLAPS to a maximum of 90 ft toward CWC to the west. The hydrogeologic and geologic setting at the SLAPS and the SLAPS VPs is similar to that at the HISS, with one exception. The Pennsylvanian shale bedrock unit (Unit 5), present beneath portions of the SLAPS and the SLAPS VPs, is absent beneath the HISS.

Five HZs (HZ-A through HZ-E) are recognized beneath the SLAPS and the SLAPS VPs. HZ-A consists of fill (Unit 1) and the Pleistocene, glacially related sediments of stratigraphic Unit 2, and Subunit 3T. Underlying HZ-A is HZ-B, which consists of highly impermeable clay (Subunit 3M). HZ-C consists of the stratigraphic Subunit 3B and Unit 4. The shale (Unit 5) and limestone (Unit 6) bedrock are recognized as HZ-D and HZ-E, respectively. HZ-E is the protected aquifer for the site.

The shallow (HZ-A) groundwater flow is toward CWC under normal flow conditions. The shallow groundwater flow at the SLAPS and IA-09 is to the northwest toward CWC, and the shallow groundwater flow at IA-10 is to the southeast toward CWC. Average depths to the groundwater surface at the site range from approximately 9 ft below ground surface during the spring months to approximately 11 ft below ground surface (bgs) during the fall months. The dominant flow in HZ-A is through the more permeable Unit 2. Each of the subunits in Unit 3 has lower hydraulic conductivity than Units 1, 2, and 4. Units HZ-B and the Pennsylvanian shale HZ-D limit the passage of groundwater vertically beneath the SLAPS and the SLAPS VPs. Subunit 3M of HZ-B acts as a vertical barrier to groundwater movement under the western portion of the site. Subunit 3M is a clayey aquitard (unit resisting water passage) that effectively separates the HZ-A groundwater system from the underlying HZ-C and HZ-E. The dominant unit to obtain water in the lower horizon is the sandy, clayey gravel of Unit 4. Unit 4 of HZ-C is used as a surrogate for HZ-E, because water movement within the Mississippian limestone is dependent upon the limestone's joint and solutioned system. In addition, the limestone has exhibited massive characteristics and is very slow to recharge.

Summary of Calendar Year 2023 Groundwater Monitoring Results at the St. Louis Airport Site and the St. Louis Airport Site Vicinity Properties

Six soil COCs (barium, nickel, selenium, vanadium, cadmium, and total U) exceeded the ROD guidelines in HZ-A groundwater at the SLAPS and the SLAPS VPs in CY 2023. Total U has exceeded the ROD guideline in PW46 for a period of at least 12 months. A statistically significant decreasing trend was observed for total U concentrations at PW46. Barium concentrations at B53W06S, cadmium concentrations at PW46, nickel concentrations at B53W07S, and selenium concentrations at B53W17S have not exceeded the ROD guidelines for a period of at least 12 months. A statistically significant increasing trend was observed for barium concentrations at B53W06S and nickel concentrations at B53W07S. Because a significant degradation of CWC surface water has not occurred and is not anticipated, no findings

currently indicate significantly degraded groundwater conditions in HZ-A groundwater, as defined by the ROD. However, because total U levels have exceeded the ROD guidelines for a period of at least 12 months, groundwater monitoring in PW46 will continue subject to subsequent CERCLA 5-year reviews.

One inorganic soil COC (cadmium) exceeded the ROD guidelines in HZ-E groundwater at the SLAPS and the SLAPS VPs in CY 2023. Cadmium has exceeded the ROD guideline in PW35 for a period of at least 12 months. A Mann-Kendall Trend Test could not be performed for the cadmium results in PW35 because less than 50 percent of the time-series data were above the detection limit. Because a significant degradation of CWC surface water has not occurred and is not anticipated, no findings currently indicate significantly degraded groundwater conditions in HZ-E groundwater, as defined by the ROD. No inorganic or radiological soil COCs exceeded the ROD groundwater guidelines in HZ-C groundwater during CY 2023.

4.2.1 Evaluation of Groundwater Monitoring Data at the St. Louis Airport Site and the St. Louis Airport Site Vicinity Properties

The purpose of the groundwater monitoring conducted at the SLAPS and the SLAPS VPs is specified in the ROD (USACE 2005). Response-action monitoring is currently being conducted in HZ-A and HZ-C to assess the improvement of water quality due to source removals, and to document the protection of the limestone aquifer (HZ-E) during the RA.

The groundwater monitoring data at the SLAPS and the SLAPS VPs are evaluated against the requirements for groundwater monitoring identified in the ROD (USACE 2005).

In addition to the previously described monitoring, an evaluation of concentration trends is conducted for the COCs detected in excess of the ROD guidelines in groundwater to support assessment of the effectiveness of the RA in the CERCLA 5-year reviews.

Monitoring Well Network at the St. Louis Airport Site and the St. Louis Airport Site Vicinity Properties

The current EMP well network for the SLAPS and the SLAPS VPs is shown on Figure 4-11. A summary of the HZ information for the groundwater monitoring wells located at the SLAPS and the SLAPS VPs is provided in Table 4-4. HZ-A is considered the upper (or shallow) zone, while HZ-C, HZ-D, and HZ-E have been considered the lower (or deep) zone. This designation of upper and lower zones is separated at Subunit 3M of HZ-B. A total of 11 wells are screened exclusively across the shallow zone (HZ-A). A total of 4 wells are screened exclusively in the lower zone across HZ-C, HZ-D, and/or HZ-E. The remaining well (PW36) is screened across both HZ-B and HZ-C. Appendix H, Attachment H-1, provides the well maintenance checklists for the annual inspection of the groundwater monitoring wells at the SLAPS and the SLAPS VPs, conducted in April 2023.

Table 4-4. Groundwater Monitoring Well Network at the SLAPS and the SLAPS VPs in CY 2023

Well ID	Screened HZs			
	HZ-A	HZ-B	HZ-C	HZ-E
B53W01D[a]			X	
B53W01S[a]	X			
B53W06S[a]	X			
B53W07D[a]			X	
B53W07S[a]	X			
B53W09S[a]	X			
B53W17S[a]	X			
MW31-98[a]	X			

Table 4-4. Groundwater Monitoring Well Network at the SLAPS and the SLAPS VPs in CY 2023 (Continued)

Well ID	Screened HZs			
	HZ-A	HZ-B	HZ-C	HZ-E
MW32-98[a]	X			
PW35[a]				X
PW36[a]		X	X	
PW42[a]			X	
PW43[a]	X			
PW44[a]	X			
PW45[a]	X			
PW46[a]	X			

[a] Wells sampled in CY 2023.

During CY 2023, 16 groundwater wells were sampled for various parameters at the SLAPS and the SLAPS VPs. Appendix H, Attachment H-2, contains copies of the field logbook pages for groundwater sampling conducted in CY 2023. Groundwater samples collected from these wells were analyzed for radiological and/or inorganic constituents. Historically, radiological parameters (Ra-226, Ra-228, Th-228, Th-230, Th-232, U-234, U-235, and U-238) and inorganic constituents have been the main focus of the groundwater sampling. The analytical data for the CY 2023 groundwater sampling at the SLAPS and the SLAPS VPs are contained in Appendix F, Table F-4.

In CY 2023, groundwater sampling was conducted on February 16 and 21 (first quarter); May 15, 16, and 18 (second quarter); August 29 and 31 (third quarter); November 2 through the 28 (fourth quarter); and a comprehensive event conducted from June 15 to July 3. The CY 2023 results were compared to ROD guidelines for the soil COCs identified in the ROD (i.e., antimony, arsenic, barium, cadmium, chromium, molybdenum, nickel, selenium, thallium, total U, vanadium, Ra-226, Ra-228, Th-228, Th-230, Th-232, U-234, U-235, and U-238).

HZ-A Groundwater

Eleven HZ-A wells (B53W01S, B53W06S, B53W07S, B53W09S, B53W17S, MW31-98, MW32-98, PW43, PW44, PW45, and PW46) were sampled at the SLAPS and the SLAPS VPs during CY 2023. Table 4-5 lists those soil COCs exceeding the ROD guidelines in CY 2023 groundwater samples from HZ-A wells at the SLAPS and the SLAPS VPs.

Table 4-5. Analytes Exceeding ROD Guidelines in HZ-A Groundwater at the SLAPS and the SLAPS VPs in CY 2023

Analyte	Units	Station	ROD Guidelines[a]	Minimum Detected	Maximum Detected	Mean Detected	Detects above ROD Guidelines[a]	Frequency of Detection
Barium	µg/L	B53W06S	190	100	230	165	1	1/3
Nickel	µg/L	B53W07S	5.2	4.9	7.4	6.25	1	1/2
		PW46	3.4	2.6	10	6.3	1	1/2
Selenium	µg/L	B53W17S	140	130	150	140	2	2/4
Cadmium	µg/L	PW46	1.2	0.38	1.2	0.79	1	1/2
Vanadium	µg/L	PW43	3.1	4.7	4.7	4.7	1	1/4
Total U[b]	µg/L	PW46	30	122	802	462	4	4/4

[a] ROD guidelines = response-action monitoring guideline and total U monitoring guideline. Response-action monitoring guideline = 2 x UCL_{95} (based on historical concentrations before RAs were initiated). Total U monitoring guideline = 30 µg/L (USACE 2005).

[b] Total U values were calculated from isotopic concentrations in pCi/L and converted to µg/L using radionuclide-specific activities with the following formula: total U (µg/L) = U-234 (pCi/L)/6240 + U-235 (pCi/L)/2.16 + U-238 (pCi/L)/0.335.

Five inorganic soil COCs (barium, selenium, vanadium, cadmium, and nickel) were detected in HZ-A groundwater at concentrations in excess of the ROD guidelines at the SLAPS and the SLAPS VPs during CY 2023. Barium was detected at a concentration exceeding the ROD guideline in the HZ-A well B53W06S during first-quarter CY 2023 sampling events. The barium concentration did not exceed the ROD guideline in the sample collected from B53W06S during the fourth quarter or the comprehensive event for CY 2023. Therefore, barium concentrations in B53W06S did not exceed the ROD guideline for more than 12 months.

Selenium was detected at concentrations exceeding the ROD guideline in HZ-A well B53W17S during CY 2023. The selenium concentration did not exceed the ROD guideline in the sample collected from B53W17S in CY 2022 or the third and fourth quarters of CY 2023. Therefore, the selenium concentration at B53W17S has not exceeded the ROD guideline for a period of at least 12 months.

Vanadium was detected at concentrations exceeding the ROD guideline in HZ-A well PW43 during CY 2023. The vanadium concentration did not exceed the ROD guideline in the sample collected from PW43 in CY 2022. Therefore, the vanadium concentration at PW43 has not exceeded the ROD guideline for a period of at least 12 months.

Nickel was detected at concentrations exceeding the ROD guideline in HZ-A well B53W07S during CY 2023. The nickel concentration did not exceed the ROD guideline in the sample collected from B53W07S in CY 2022 or the third and fourth quarters of CY 2023. Therefore, the nickel concentration at B53W07S have not exceeded the ROD guideline for a period of at least 12 months.

Nickel was detected at concentrations exceeding the ROD guideline in HZ-A well PW46 during CY 2023. The nickel concentration did not exceed the ROD guideline in the sample collected from PW46 during the fourth quarter of CY 2023. Therefore, the nickel concentration at PW46 has not exceeded the ROD guideline for a period of at least 12 months.

Cadmium was detected at concentrations exceeding the ROD guideline in HZ-A well PW46 during CY 2023. The cadmium concentration did not exceed the ROD guideline in the sample collected from PW46 in the comprehensive event of CY 2023. Therefore, the cadmium concentration at PW46 has not exceeded the ROD guideline for a period of at least 12 months.

One radiological soil COC (total U) exceeded the ROD guideline of 30 µg/L in HZ-A groundwater at the SLAPS and the SLAPS VPs. The total U concentration in PW46 (calculated from the isotopic concentrations) exceeded the 30 µg/L guideline during the first-, second-, third-, and fourth-quarter and comprehensive CY 2023 sampling events. The total U concentration during CY 2023 in PW46 ranged from 122 µg/L (first-quarter sample) to 802 µg/L (fourth-quarter sample). PW46 is an RA evaluation well that was installed at the western edge of the SLAPS in April of 2006. Although no groundwater sampling data are available for PW46 prior to May 18, 2006, data are available for PW38, the previous well at this location. The ROD guidelines for PW46 were developed using pre-2004 data from PW38. The CY 2023 total U concentration at PW46 is lower than the historical concentrations reported at PW38 prior to its decommissioning in November of 2003 (Figure 4-13). Based on the statistical evaluation of trends presented in Section 4.2.2, a statistically significant downward trend in the concentrations of total U was observed in PW46 during CY 2023.

In summary, five inorganic soil COCs (barium in B53W06S, selenium in B53W17S, vanadium in PW43, cadmium in PW46, and nickel in B53W07S and PW46) exceeded the ROD guidelines in HZ-A groundwater at the SLAPS and the SLAPS VPs in CY 2023 when measurement error was taken into account. However, these inorganics did not exceed the ROD guidelines for a period of at least 12 months. In addition, the concentration of total U exceeded the guideline of 30 µg/L in

one HZ-A well (PW46) located at the western edge of the SLAPS and has exceeded the ROD guideline for a period of at least 12 months. However, comparison of the CY 2023 concentration with historical well data did not indicate that significant degradation of HZ-A groundwater is occurring. Because a significant degradation of CWC surface water has not occurred and is not anticipated, no findings currently indicate significantly degraded groundwater conditions in HZ-A groundwater, as defined by the ROD. However, because total U levels have exceeded the ROD guidelines for a period of at least 12 months in PW46, monitoring will continue subject to subsequent CERCLA 5-year reviews.

Lower Groundwater (HZ-C Through HZ-E)

Table 4-6 lists those soil COCs exceeding the ROD guidelines in groundwater samples collected from HZ-C wells at the SLAPS and the SLAPS VPs in CY 2023. Groundwater samples were collected from four HZ-C wells (B53W01D, B53W07D, PW36, and PW42) and one HZ-E well (PW35) in CY 2023. Monitoring well B53W01D was sampled during the second and fourth quarters and the comprehensive events for inorganics and radionuclides. Monitoring wells B53W07D, PW35, PW36, and PW42 were sampled during the fourth quarter and during a comprehensive event for inorganics and radionuclides.

One inorganic soil COC (cadmium) was detected at a concentration exceeding the ROD groundwater guideline in HZ-E groundwater in CY 2023. Cadmium was detected in PW35 at 1.5 µg/L, as compared to the ROD groundwater guideline of 0.6 µg/L. The cadmium concentration also exceeded the ROD groundwater guideline in the sample collected from PW35 during CY 2021 when measurement error was taken into account. Therefore, cadmium has exceeded the ROD guideline in PW35 for a period of at least 12 months. A Mann-Kendall Trend Test could not be performed for the cadmium results in PW35 because less than 50 percent of the time-series data were above the detection limit. Because a significant degradation of CWC surface water has not occurred and is not anticipated, no findings currently indicate significantly degraded groundwater conditions in HZ-E groundwater, as defined by the ROD.

Inorganic and radionuclide concentrations did not exceed the ROD guidelines in the samples collected from HZ-C groundwater during CY 2023.

Table 4-6. Analytes Exceeding ROD Guidelines in HZ-C Groundwater at the SLAPS and the SLAPS VPs in CY 2023

Analyte	Units	Station	ROD Guidelines[a]	Minimum Detected	Maximum Detected	Mean Detected	Detects above ROD Guidelines[a]	Frequency of Detection
Cadmium	µg/L	PW35	0.6	13	1.5	1.4	2	2/2

[a] ROD guidelines = response-action monitoring guideline. Response-action monitoring guideline = 2 x UCL_{95} (based on historical concentrations before RAs were initiated).

4.2.2 Comparison of Historical Groundwater Data at the St. Louis Airport Site and the St. Louis Airport Site Vicinity Properties

Results of groundwater sampling conducted from CY 1998 though CY 2023 indicate that various inorganics and radionuclides have been detected at concentrations exceeding the ROD guidelines in HZ-A groundwater at the SLAPS and the SLAPS VPs. Statistical analysis was used to identify trends for those contaminants that exceeded these guidelines during CY 2023. As described in Section 4.1.2, the Mann-Kendall Trend Test is the statistical method used to evaluate contaminant trend in groundwater. Filtered data, split samples, and field duplicates were not included in the analysis. For datasets in which 50 percent or more of the time-series data are non-detect values, the Mann-Kendall Trend Test was not performed.

Results of Trend Analysis at the St. Louis Airport Site and the St. Louis Airport Site Vicinity Properties

The evaluation of historical trends for groundwater at the SLAPS and the SLAPS VPs focuses on those contaminants that exceeded the ROD guidelines in samples collected during CY 2023. For those monitoring wells at which an analyte exceeded these guidelines in one or more samples during CY 2023 and the historical dataset had a detection frequency greater than 50 percent and a sample size of at least six, a statistical trend analysis was conducted to assess whether concentrations of the analyte are increasing (upward trending) or decreasing (downward trending) over time. For the purposes of this EMDAR, a statistically significant trend in concentration is defined as a trend with a confidence level greater than 95 percent. Because the Mann-Kendall Trend Test does not consider the effects of measurement error and does not provide any information concerning the magnitude of trends, time-versus-concentration plots were used to evaluate these factors.

Based on the CY 2023 groundwater monitoring data for the SLAPS and the SLAPS VPs, six soil COCs (barium, selenium, nickel, vanadium, cadmium, and total U) exceeded the ROD guidelines in HZ-A groundwater. The Mann-Kendall Trend Test was performed for barium at B53W06S, for nickel at B53W07S, for selenium at B53W17S, for cadmium at PW46, and for total U at PW46. Vanadium at PW45 and nickel at PW46 did not have a historical dataset with a detection frequency greater than 50 percent. A Mann-Kendall Trend test was not performed for vanadium at PW45 and nickel at PW46. To aid in the evaluation of locations that exhibited an upward or downward trend, a time-versus-concentration plots for B53W06S, B53W07S, and B53W17S are provided on Figure 4-12. A time-versus-concentration plot for total U at PW46 is provided on Figure 4-13.

When measurement error was taken into account, one soil COC exceeded the ROD guideline in lower groundwater (HZ-C through HZ-E) during CY 2023 at the SLAPS and the SLAPS VPs. The cadmium concentration in HZ-E well PW35 exceeded the ROD guideline when measurement error was taken into account. Because the historical dataset for cadmium in PW35 does not have a detection frequency greater than 50 percent, a Mann-Kendall Trend Test was not performed for this constituent.

Inorganics

The results of the Mann-Kendall Trend Tests are provided in Table 4-7. As shown in Table 4-7, statistically significant increasing trends were observed for barium concentrations at B53W06S and nickel concentration at B53W07S. A statistically significant decreasing trend was observed for selenium concentration at B53W17S, whereas cadmium concentration at PW46 did not exhibit any trend. Because the Mann-Kendall Trend Test does not consider the effects of measurement error and does not provide any information concerning the magnitude of the trend, time-versus-concentration plots for those soil COCs having statistically significant increasing or decreasing trends in groundwater (provided on Figure 4-12) were used to evaluate these factors. The best-fit trend lines based on the data scatter are also shown on the graphs on these figures.

Table 4-7. Results of Mann-Kendall Trend Test for Analytes with Concentrations Exceeding ROD Guidelines in Groundwater at the SLAPS and the SLAPS VPs in CY 2023

Analyte	Station	N[a]	Test Statistics[b]		Trend[d]
			S[c]	Z[c]	
Barium	B53W06S	41	313	3.51	Upward Trend
Nickel	B53W07S	28	121	2.54	Upward Trend
Cadmium	PW46	24	51	1.28	No Trend

Table 4-7. Results of Mann-Kendall Trend Test for Analytes with Concentrations Exceeding ROD Guidelines in Groundwater at the SLAPS and the SLAPS VPs in CY 2023 (Continued)

Analyte	Station	N[a]	Test Statistics[b]		Trend[d]
			S[c]	Z[c]	
Selenium	B53W17S	49	-287	-2.47	Downward Trend
Total U	PW46	34	-153	-2.25	Downward Trend

[a] N is the number of unfiltered groundwater sample results for a particular analyte with the exception of total U at PW46. PW46 was installed in April of 2006, the dataset covers the period between May of 2006 and December of 2023.
[b] Test Statistics: S – the S-Statistic; Z – Z-score, or normalized test statistic (used if N greater than 10).
[c] One-tailed Mann-Kendall Trend Tests were performed at a 95-percent level of confidence.
[d] Trend: If N is greater than 10, the Z-score is compared to ±1.64 to determine trend significance

Radionuclides

A statistical evaluation of historical uranium concentrations has been conducted using total U concentrations. Total U values were calculated from isotopic concentrations in pCi/L and converted to µg/L using radionuclide-specific activities. The Mann-Kendall Trend Test was performed for total U in the HZ-A well with concentrations in excess of the 30 µg/L ROD guideline in CY 2023 (PW46). The results of the Mann-Kendall Trend Test are provided in Table 4-7. The Mann-Kendall Trend Test results indicate a downward trend for total U concentrations in PW46. A graph of time-versus-total U concentrations for PW46 is shown on Figure 4-13. PW46 was installed in April of 2006 near the former location of PW38 and is screened across the same interval. For comparison purposes, the PW38 data collected between March of 2000 and November of 2003 are also shown on the graph of PW46 data on Figure 4-13. As indicated on the graph, total U concentrations in PW46 have decreased from the levels reported at PW38 prior to installation of PW46. Time-versus-concentration graphs for total U for the wells sampled in CY 2023 at the SLAPS and the SLAPS VPs are provided on Figures 4-14 and 4-15. These graphs provide an overview of the temporal and spatial variability in the concentrations of total U in groundwater at the SLAPS and the SLAPS VPs.

4.2.3 Evaluation of the Potentiometric Surface at the St. Louis Airport Site and the St. Louis Airport Site Vicinity Properties

Groundwater surface elevations were measured from wells at the SLAPS and the SLAPS VPs in February, May, August, and October of CY 2023. Groundwater elevation contours were drawn using the May 15, 2023, and October 25, 2023, measurements to provide a comparison of the groundwater flow conditions during periods of high and low groundwater elevations, respectively. The potentiometric surface maps, shown on Figures 4-5 through 4-8, were developed for both HZ-A and HZ-C groundwater zones. The groundwater flow direction is interpreted to be perpendicular to the groundwater equipotential contours.

In May and October of CY 2023, the groundwater flow direction in the HZ-A groundwater at the SLAPS and adjacent SLAPS VP Ballfields was northwesterly toward CWC (Figures 4-5 and 4-7). The groundwater flow direction in the HZ-A groundwater at SLAPS VP IA-10 is to the southeast toward CWC. In the eastern portion of the SLAPS, the average horizontal hydraulic gradient in HZ-A groundwater was 0.012 ft/ft in the wet season (May 15, 2023) and the dry season (October 25, 2023). The hydraulic gradient in HZ-A groundwater increases near CWC, where the average horizontal gradient ranges from 0.027 ft/ft (October 25, 2023) to 0.040 ft/ft (May 15, 2023). The unconfined HZ-A groundwater is interpreted to discharge into CWC, which divides the HZ-A groundwater system south and east of the creek from areas north and west of CWC. Groundwater recharge comes from three primary sources: precipitation, off-site inflow of

groundwater, and creek bed infiltration during high creek stage. Groundwater discharge could occur by seepage into CWC during low creek stage (DOE 1994). The vertical gradient varies beneath the site and is influenced by stratigraphic heterogeneity and seasonal fluctuations in recharge and evapotranspiration. Based on the CY 2023 water-level measurements, the elevation of the HZ-A groundwater surface averaged approximately 4.09 ft higher in the corresponding shallow wells at the SLAPS and the SLAPS VPs in the wet season (May) than in the dry season (October).

A review of the screened intervals in the deep wells (both active and abandoned wells) indicates that many wells were screened across multiple lithologic units and HZs. Based on this review, the HZ-C (Units 3B and 4) potentiometric surface was determined to be a proper representation of the lower groundwater system. This review reduces the number of data points used to develop the potentiometric surface contours but results in a higher level of confidence in contouring the HZ-C potentiometric surface.

The potentiometric surface contours for the HZ-C groundwater in CY 2023 are illustrated on Figures 4-6 and 4-8. The flow direction in HZ-C is generally southeast beneath the SLAPS and the SLAPS VPs, at an average horizontal gradient of 0.0016 ft/ft in May to 0.0019 ft/ft in October of 2023. A comparison of the groundwater elevations from monitoring well pairs indicates that the wells completed in HZ-A exhibit different hydraulic heads from the wells completed in HZ-C. Near CWC, the potentiometric surface of the “confined” aquifer HZ-C averages approximately 6.13 ft higher than the potentiometric surface of the unconfined HZ-A, indicating an upward vertical gradient. The large difference in hydraulic head demonstrates that the HZ-A and HZ-C groundwater zones are distinct groundwater systems with limited hydraulic connection. This is supported by the lithologic data, which indicate that a highly impermeable clay (Subunit 3M of HZ-B) and silty clay (Subunit 3B of HZ-C) separates the HZ-A groundwater system from the underlying groundwater zones. The HZ-C potentiometric surfaces do not appear to be influenced by CWC (the creek’s thalweg is approximately 500 ft amsl) or by seasonal changes. These features are likely a result of the overlying clay layers limiting vertical groundwater movement.

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5.0 ENVIRONMENTAL QUALITY ASSURANCE PROGRAM

5.1 PROGRAM OVERVIEW

The environmental quality assurance (QA) program includes management of the QA/QC programs, plans, and procedures governing environmental monitoring activities at all SLS and at subcontracted vendor laboratories. This section discusses the environmental monitoring standards of the FUSRAP and the goals for these programs, plans, and procedures.

The environmental QA program provides the FUSRAP with reliable, accurate, and precise monitoring data. The program furnishes guidance and directives to detect and prevent problems from the time a sample identification number is issued until the associated data are evaluated and reported.

Key elements in achieving the goals of this program are maintaining compliance with the QA program; personnel training; compliance assessments; use of QC samples; documentation of field activities and laboratory analyses; and a review of data to document precision, accuracy, and completeness.

General objectives are as follows:

- To provide data of sufficient quality and quantity to support ongoing remedial efforts, aid in defining potential COCs, meet the requirements of the EMG and the SAG, and support the ROD (USACE 1999a, 2000, 2005);
- To provide data of sufficient quality to meet applicable State of Missouri and federal concerns (e.g., reporting requirements); and
- To ensure samples were collected using approved techniques and are representative of existing site conditions.

5.2 QUALITY ASSURANCE PROGRAM PLAN

The quality assurance program plan (QAPP) for activities performed at the NC Sites is described in Section 3.0 of the SAG. The QAPP provides the organization, objectives, functional activities, and specific QA/QC activities associated with investigations and sampling activities at the NC Sites.

QA/QC procedures are performed in accordance with applicable professional technical standards, USEPA requirements, government regulations and guidelines, and specific project goals and requirements. The QAPP was prepared in accordance with USEPA and USACE guidance documents, including *Interim Guidelines and Specifications for Preparing Quality Assurance Project Plans* (USEPA 1991), *EPA Requirements for Quality Assurance Project Plans for Environmental Data Operations* (USEPA 1994), and Engineer Manual (EM) 200-1-3, *Requirements for the Preparation of Sampling and Analysis Plans* (USACE 2001).

5.3 SAMPLING AND ANALYSIS GUIDE

The SAG summarizes standard operating procedures (SOPs) and data quality requirements for collecting and analyzing environmental data. The SAG integrates protocols and methodologies identified under various USACE and regulatory guidance. It describes administrative procedures for managing environmental data and governs sampling plan preparation, data review, evaluation and validation, database administration, and data archiving. The identified sampling and monitoring

structures are delineated in programmatic documents such as the EMG (USACE 1999a) for the NC Sites, which is an upper-tier companion document to the SAG (USACE 2000). The EMICY23 outlines the analyses to be performed at the NC Sites for various media (USACE 2022).

Flexibility to address non-periodic environmental sampling (e.g., specific studies regarding environmental impacts, well installations, and/or in-situ waste characterizations) was accomplished by the issuance of work descriptions. Environmental monitoring data obtained during these sampling activities were reported to the USEPA Region 7 on a quarterly basis in the Federal Facilities Agreement Progress Reports.

5.4 FIELD SAMPLE COLLECTION AND MEASUREMENT

Prior to beginning field sampling, field personnel were trained, as necessary, and participated in a project-specific readiness review. These activities ensured that standard procedures were followed in sample collection and completion of field logbooks, chain-of-custody forms, labels, and custody seals. Documentation of training and readiness were submitted to the project file.

The master field investigation documents are the site field logbooks. The primary purpose of these documents is to record daily field activities; personnel on each sampling team; and any administrative occurrences, conditions, or activities that may have affected the fieldwork or data quality of any environmental samples for a given day. Guidance for documenting specific types of field sampling activities in field logbooks or log sheets is provided in Appendix C of EM 200-1-3, *Requirements for the Preparation of Sampling and Analysis Plans* (USACE 2001).

At any point in the process of sample collection or data and document review, a non-conformance report may be initiated if non-conformances are identified (Leidos 2015a). Data entered into the St. Louis FUSRAP database may be flagged accordingly.

5.5 PERFORMANCE AND SYSTEM AUDITS

Performance and system audits of both field and laboratory activities were conducted to verify that sampling and analysis activities were performed in accordance with the procedures established in the SAG and activity-specific work description or the EMICY23 (USACE 2022).

5.5.1 Field Assessments

Internal assessments (audit or surveillance) of field activities (sampling and measurements) are periodically conducted by the QA/QC Officer (or designee). Assessments could include an examination of field sampling records; field instrument operating records; sample collection, handling, and packaging procedures; and maintenance of QA procedures and chain-of-custody forms. These assessments occurred at the onset of the project to verify that all established procedures were followed (systems audit).

Performance assessments followed the system audits to ensure that deficiencies had been corrected and to verify that QA practices/procedures were being maintained throughout the duration of the project. These assessments involved reviewing field measurement records, instrumentation calibration records, and sample documentation.

External assessments may be conducted at the discretion of the USACE, USEPA Region 7, or the State of Missouri.

5.5.2 Laboratory Audits

The on-site project laboratory locations are subject to periodic review(s) by the local USACE Chemist to demonstrate compliance with the *Department of Defense/Department of Energy Consolidated Quality Systems Manual for Environmental Laboratories* (QSM) (DoD and DOE 2021). Accordingly, the on-site laboratories participate in blind, third-party performance evaluation studies (performance audits) at least twice per year, with results reported to the local USACE point(s) of contact. In addition, contract laboratories are required to be accredited under the DoD Environmental Laboratory Accreditation Program (ELAP). The DoD ELAP requires an annual audit and re-accreditation every 3 years. The annual ELAP audit was performed on August 15 through 16, 2023.

These system audits include examining laboratory documentation of sample receipt, sample log-in, sample storage, chain-of-custody procedures, sample preparation and analysis, and instrument operating records. Performance audits consist of USACE laboratories receiving performance evaluation samples from an outside vendor for an ongoing assessment of laboratory precision and accuracy. The analytical results of the analysis of performance evaluation samples are evaluated by the local USACE Chemist to ensure that laboratories maintain acceptable performance.

Internal performance and system audits of laboratories were conducted by the Laboratory QA Manager as directed in the *Laboratory Quality Assurance Plan for the FUSRAP St. Louis Radioanalytical Laboratory* (USACE 2018). System audits included an examination of laboratory documentation of sample receipt, sample log-in, sample storage, chain-of-custody procedures, sample preparation and analysis, and instrument operating records against the requirements of the laboratory's SOPs. Internal performance audits were also conducted on a regular basis. Single-blind performance samples were prepared and submitted along with project samples to the laboratory for analysis. The Laboratory QA Manager evaluated the analytical results of these single-blind performance samples to ensure that the laboratory maintained acceptable performance. Quarterly QA/QC reports were generated and provided to the local USACE authority; these reports document the ongoing QC elements and allow further monitoring of quality processes/status. In addition, QA plans and methodology follow the guidance presented in the QSM (DoD and DOE 2021).

5.6 SUBCONTRACTED LABORATORY PROGRAMS

All samples collected during environmental monitoring activities were analyzed by USACE-approved subcontractor laboratories. QA samples collected for groundwater and sediment were analyzed by the designated USACE QA laboratory. Each laboratory supporting this work maintained statements of qualifications including organizational structure, QA manual, and SOPs. Additionally, subcontracted laboratories were also required to be an accredited laboratory under the DoD ELAP.

Samples collected during these investigations were analyzed by the USEPA methods contained in *Test Methods for Evaluating Solid Waste, Physical/Chemical Methods SW-846* (USEPA 1993) and by other documented USEPA or nationally recognized methods. Laboratory SOPs are based on the QSM [DoD and DOE 2021]).

5.7 QUALITY ASSURANCE AND QUALITY CONTROL SAMPLES

The QA and QC samples were analyzed for the purpose of assessing the quality of the sampling effort and the reported analytical data. The QA and QC samples include duplicate samples (–1)

and split samples (–2). The equations utilized for accuracy and precision can be found in Section 5.9.

5.7.1 Duplicate Samples

These samples, which measure precision, were collected by the sampling teams and were submitted for analysis to the on-site project laboratory or contract laboratories. The purpose of these samples is to provide activity-specific, field-originated information regarding the homogeneity of the sampled matrix and the consistency of the sampling effort. These samples were collected concurrently with the primary environmental samples and equally represent the medium at a given time and location. Duplicate samples were collected from groundwater, surface water, and sediment and were submitted to the contracted laboratories for analysis. One duplicate sample was collected for approximately every 20 field samples of each matrix and analyte across the SLS. Precision is measured by the relative percent difference (RPD) for radiological and by non-radiological analyses or the normalized absolute difference (NAD) for radiological analyses.

The RPDs for non-radiological analyses are presented in Tables 5-1 and 5-2. The RPDs and NADs for radiological analyses are presented in Tables 5-3 through 5-5. The overall precision for CY 2023 environmental monitoring activities was acceptable. See Section 5.9 for the evaluation process.

Table 5-1. Non-Radiological Duplicate Sample Analysis for CY 2023 – Surface Water and Groundwater

Water Sample Name[a]	Antimony	Arsenic	Barium	Cadmium	Chromium
	RPD (%)[b]				
CWC266247 / CWC266247-1	NC	11.32	0.00	NC	NC
CWC267927 / CWC267927-1	5.99	4.65	1.83	NC	0.00
CWC269571 / CWC269571-1	4.65	0.00	2.44	NC	6.06
CWC269705 / CWC269705-1	0.00	3.77	1.38	NC	NC
HIS266927 / HIS266927-1	NC	0.00	2.74	NC	NC
HIS270127 / HIS270127-1	12.66	NC	4.65	**55.74**	NC
SVP266968 / SVP266968-1	NC	NC	4.88	NC	NC
Water Sample Name[a]	**Molybdenum**	**Nickel**	**Selenium**	**Thallium**	**Vanadium**
	RPD (%)[b]				
CWC266247 / CWC266247-1	1.55	NC	NC	NC	NC
CWC267927 / CWC267927-1	4.00	0.00	NC	NC	NC
CWC269571 / CWC269571-1	0.00	0.00	6.06	NC	NC
CWC269705 / CWC269705-1	2.56	8.70	0.00	NC	NC
HIS266927 / HIS266927-1	1.42	3.77	NC	NC	NC
HIS270127 / HIS270127-1	10.53	NC	7.19	NC	NC
SVP266968 / SVP266968-1	NC	NC	NC	NC	NC

[a] Surface/groundwater samples ending in "-1" are duplicate surface/groundwater samples.
[b] RPD criterion for liquid samples is less than or equal to 30 percent.
NC – not calculated (due to one or both concentrations being below DLs)
Bold values exceed the control limits. Values not in bold are within control limits.

Table 5-2. Non-Radiological Duplicate Sample Analysis for CY 2023 – Sediment

Soil Sample Name[a]	Antimony	Arsenic	Barium	Cadmium	Chromium
	RPD (%)[b]				
CWC266248 / CWC266248-1	27.59	**67.61**	1.02	0.00	0.00
CWC269706 / CWC269706-1	23.81	14.88	35.29	23.62	41.51
Soil Sample Name[a]	**Molybdenum**	**Nickel**	**Selenium**	**Thallium**	**Vanadium**
	RPD (%)[b]				
CWC266248 / CWC266248-1	22.22	0.00	14.49	6.06	5.71
CWC269706 / CWC269706-1	35.71	5.71	26.67	11.76	5.13

[a] Sediment samples ending in "-1" are duplicate sediment samples.
[b] RPD criterion for solid matrix samples is less than or equal to 50 percent.
Bold values exceed the control limits. Values not in bold are within control limits.

Table 5-3. Radiological Duplicate Sample Analysis for CY 2023 – Surface Water and Groundwater

Water Sample Name[a]	Ra-226		Ra-228		Th-228		Th-230	
	RPD (%)[b]	NAD[b]	RPD (%)[b]	NAD[b]	RPD (%)[b]	NAD[b]	RPD (%)[b]	NAD[b]
CWC266247 / CWC266247-1	NC	NA	*	*	NC	NA	NC	NA
CWC267927 / CWC267927-1	NC	NA	*	*	NC	NA	37.77	0.38
CWC269571 / CWC269571-1	NC	NA	*	*	NC	NA	34.24	0.33
CWC269705 / CWC269705-1	NC	NA	*	*	NC	NA	NC	NA
HIS266927 / HIS266927-1	NC	NA	*	*	NC	NA	NC	NA
HIS270127 / HIS270127-1	NC	NA	*	*	NC	NA	3.31	NA
SVP266968 / SVP266968-1	NC	NA	*	*	NC	NA	NC	NA
Water Sample Name[a]	**Th-232**		**U-234**		**U-235**		**U-238**	
	RPD (%)[b]	NAD[b]	RPD (%)[b]	NAD[b]	RPD (%)[b]	NAD[b]	RPD (%)[b]	NAD[b]
CWC266247 / CWC266247-1	NC	NA	6.66	NA	NC	NA	NC	NA
CWC267927 / CWC267927-1	NC	NA	NC	NA	NC	NA	NC	NA
CWC269571 / CWC269571-1	NC	NA	2.78	NA	NC	NA	NC	NA
CWC269705 / CWC269705-1	NC	NA	NC	NA	NC	NA	NC	NA
HIS266927 / HIS266927-1	NC	NA	NC	NA	NC	NA	NC	NA
HIS270127 / HIS270127-1	NC	NA	4.74	NA	NC	NA	6.03	NA
SVP266968 / SVP266968-1	NC	NA	10.34	NA	NC	NA	NC	NA

[a] Surface/groundwater samples ending in "-1" are duplicate surface/groundwater samples.
[b] RPD criterion for liquid samples is less than or equal to 30 percent. If the RPD is greater than 30 percent, then the NAD shall be less than or equal to 1.96 to remain within the control limits.
Bold values exceed the control limits. Values not in bold are within control limits.
* Not calculated, because either parent or duplicate sample was not analyzed.
NA – not applicable (see RPD)
NC – not calculated (due to one or both concentrations being below MDCs)

Table 5-4. Radiological Duplicate Sample Alpha Analysis for CY 2023 – Sediment

Soil Sample Name[a]	Th-228		Th-230		Th-232	
	RPD (%)[b]	NAD[b]	RPD (%)[b]	NAD[b]	RPD (%)[b]	NAD[b]
CWC266248 / CWC266248-1	5.48	NA	12.62	NA	20.58	NA
CWC269706 / CWC269706-1	14.23	NA	21.52	NA	40.56	NA

[a] Sediment samples ending in "-1" are duplicate sediment samples.
[b] RPD criterion for solid matrix samples is less than or equal to 50 percent. If the RPD is greater than 50 percent, then the NAD shall be less than or equal to 1.96 to remain within the control limits.
Bold values exceed the control limits. Values not in bold are within control limits.
NA – not applicable (see RPD)

Table 5-5. Radiological Duplicate Sample Gamma Analysis for CY 2023 – Sediment

Soil Sample Name[a]	Ac-227		Am-241		Cs-137		K-40	
	RPD (%)[b]	NAD[b]	RPD (%)[b]	NAD[b]	RPD (%)[b]	NAD[b]	RPD (%)[b]	NAD[b]
CWC266248 / CWC266248-1	NC	NA	NC	NA	NC	NA	1.77	NA
CWC269706 / CWC269706-1	NC	NA	NC	NA	0.47	NA	5.13	NA
Soil Sample Name[a]	**Pa-231**		**Ra-226**		**Ra-228**		**Th-228**	
	RPD (%)[b]	**NAD[b]**	**RPD (%)[b]**	**NAD[b]**	**RPD (%)[b]**	**NAD[b]**	**RPD (%)[b]**	**NAD[b]**
CWC266248 / CWC266248-1	NC	NA	6.58	NA	10.91	NA	10.91	NA
CWC269706 / CWC269706-1	NC	NA	15.14	NA	2.88	NA	2.88	NA
Soil Sample Name[a]	**Th-230**		**Th-232**		**U-235**		**U-238**	
	RPD (%)[b]	**NAD[b]**	**RPD (%)[b]**	**NAD[b]**	**RPD (%)[b]**	**NAD[b]**	**RPD (%)[b]**	**NAD[b]**
CWC266248 / CWC266248-1	NC	NA	10.91	NA	NC	NA	13.63	NA
CWC269706 / CWC269706-1	20.99	NA	2.88	NA	NC	NA	19.49	NA

[a] Sediment samples ending in "-1" are duplicate sediment samples.
[b] RPD criterion for solid matrix samples is less than or equal to 50 percent. If the RPD is greater than 50 percent, then the NAD shall be less than or equal to 1.96 to remain within the control limits.
Am – americium, Cs – cesium
Bold values exceed the control limits. Values not in bold are within control limits.
NA – not applicable (see RPD)
NC – not calculated (due to one or both concentrations being below MDCs)

5.7.2 Split Samples

Split samples measure accuracy and were collected by the sampling team and sent to a USACE QA laboratory for analysis to provide an independent assessment of contractor and subcontractor laboratory performance. One split sample was collected for approximately every 20 groundwater, surface water, and sediment samples for non-radiological and for radiological analytes at the NC Sites.

The RPDs for non-radiological analyses are presented in Tables 5-6 and 5-7. The RPDs and NADs for radiological analyses are presented in Tables 5-8 through 5-10. The overall accuracy for the CY 2023 environmental monitoring activities was acceptable. See Section 5.9 for the evaluation process.

Table 5-6. Non-Radiological Split Sample Analysis for CY 2023 – Surface Water and Groundwater

Water Sample Name[a]	Antimony	Arsenic	Barium	Cadmium	Chromium
	RPD (%)[b]				
CWC266247 / CWC266247-2	NC	**60.47**	8.70	NC	NC
CWC267927 / CWC267927-2	8.28	12.77	1.87	NC	**92.24**
CWC269571 / CWC269571-2	15.38	0.00	1.23	NC	NC
CWC269705 / CWC269705-2	15.87	10.53	12.82	NC	NC
HIS266927 / HIS266927-2	NC	8.70	8.00	NC	NC
HIS270127 / HIS270127-2	13.33	NC	1.50	NC	NC
SVP266968 / SVP266968-2	NC	NC	9.52	NC	NC

Table 5-6. Non-Radiological Split Sample Analysis for CY 2023 – Surface Water and Groundwater (Continued)

Water Sample Name[a]	Molybdenum	Nickel	Selenium	Thallium	Vanadium
	RPD (%)[b]				
CWC266247 / CWC266247-2	4.51	NC	NC	NC	NC
CWC267927 / CWC267927-2	0.00	**35.29**	NC	NC	NC
CWC269571 / CWC269571-2	0.00	5.71	0.00	NC	NC
CWC269705 / CWC269705-2	13.33	9.52	**30.30**	NC	NC
HIS266927 / HIS266927-2	9.52	**34.78**	NC	NC	NC
HIS270127 / HIS270127-2	5.13	7.41	10.22	NC	NC
SVP266968 / SVP266968-2	NC	NC	NC	NC	NC

[a] Surface/groundwater samples ending in "-2" are split surface/groundwater samples.
[b] RPD criterion for liquid samples is less than or equal to 30 percent.
Bold values exceed the control limits. Values not in bold are within control limits.
NC – not calculated (due to one or both concentrations being below DLs)

Table 5-7. Non-Radiological Split Sample Analysis for CY 2023 – Sediment

Soil Sample Name[a]	Antimony	Arsenic	Barium	Cadmium	Chromium
	RPD (%)[b]				
CWC266248 / CWC266248-2	4.08	**53.13**	11.54	7.69	37.04
CWC269706 / CWC269706-2	**99.32**	26.36	19.35	25.00	38.46
Soil Sample Name[a]	**Molybdenum**	**Nickel**	**Selenium**	**Thallium**	**Vanadium**
	RPD (%)[b]				
CWC266248 / CWC266248-2	**60.00**	8.00	**92.44**	0.00	45.45
CWC269706 / CWC269706-2	**66.67**	11.11	26.09	17.14	**53.85**

[a] Sediment samples ending in "-2" are split sediment samples.
[b] RPD criterion for solid matrix samples is less than or equal to 50 percent.
Bold values exceed the control limits. Values not in bold are within control limits.

Table 5-8. Radiological Split Sample Analysis for CY 2023 – Surface Water and Groundwater

Water Sample Name[a]	Ra-226		Ra-228		Th-228		Th-230	
	RPD (%)[b]	NAD[b]	RPD (%)[b]	NAD[b]	RPD (%)[b]	NAD[b]	RPD (%)[b]	NAD[b]
CWC266247 / CWC266247-2	NC	NA	*	*	NC	NA	NC	NA
CWC267927 / CWC267927-2	NC	NA	*	*	NC	NA	NC	NA
CWC269571 / CWC269571-2	NC	NA	*	*	NC	NA	NC	NA
CWC269705 / CWC269705-2	NC	NA	*	*	NC	NA	NC	NA
HIS266927 / HIS266927-2	NC	NA	*	*	NC	NA	NC	NA
HIS270127 / HIS270127-2	NC	NA	*	*	NC	NA	NC	NA
SVP266968 / SVP266968-2	NC	NA	*	*	NC	NA	NC	NA
Water Sample Name[a]	**Th-232**		**U-234**		**U-235**		**U-238**	
	RPD (%)[b]	NAD[b]	RPD (%)[b]	NAD[b]	RPD (%)[b]	NAD[b]	RPD (%)[b]	NAD[b]
CWC266247 / CWC266247-2	NC	NA	4.63	NA	NC	NA	35.43	0.47
CWC267927 / CWC267927-2	NC	NA	NC	NA	NC	NA	NC	NA
CWC269571 / CWC269571-2	NC	NA	26.55	NA	NC	NA	65.11	0.53
CWC269705 / CWC269705-2	NC	NA	124.05	1.12	NC	NA	NC	NA
HIS266927 / HIS266927-2	NC	NA	NC	NA	NC	NA	NC	NA
HIS270127 / HIS270127-2	NC	NA	1.87	NA	NC	NA	8.46	NA
SVP266968 / SVP266968-2	NC	NA	71.86	1.22	NC	NA	NC	NA

[a] Surface/groundwater samples ending in "-2" are split surface/groundwater samples.
[b] RPD criterion for liquid samples is less than or equal to 30 percent. If the RPD is greater than 30 percent, then the NAD shall be less than or equal to 1.96 to remain within the control limits.
Bold values exceed the control limits. Values not in bold are within control limits.
* Not calculated, because either parent or split sample was not analyzed.
NA – not applicable (see RPD)
NC – not calculated (due to one or both concentrations being below MDCs)

Table 5-9. Radiological Split Sample Alpha Analysis for CY 2023 – Sediment

Soil Sample Name[a]	Th-228		Th-230		Th-232	
	RPD (%)[b]	NAD[b]	RPD (%)[b]	NAD[b]	RPD (%)[b]	NAD[b]
CWC266248 / CWC266248-2	22.40	NA	28.34	NA	4.11	NA
CWC269706 / CWC269706-2	56.85	1.33	7.72	NA	**85.12**	**1.98**

[a] Sediment samples ending in "-2" are split sediment samples.
[b] RPD criterion for solid matrix sample is less than or equal to 50 percent. If the RPD is greater than 50 percent, then the NAD shall be less than or equal to 1.96 to remain within the control limits.
Bold values exceed the control limits. Values not in bold are within control limits.
NA – not applicable (see RPD)

Table 5-10. Radiological Split Sample Gamma Analysis for CY 2023 – Sediment

Soil Sample Name[a]	Ac-227		Am-241		Cs-137		K-40	
	RPD (%)[b]	NAD[b]	RPD (%)[b]	NAD[b]	RPD (%)[b]	NAD[b]	RPD (%)[b]	NAD[b]
CWC266248 / CWC266248-2	NC	NA	NC	NA	NC	NA	25.68	NA
CWC269706 / CWC269706-2	NC	NA	NC	NA	NC	NA	4.50	NA
Soil Sample Name[a]	**Pa-231**		**Ra-226**		**Ra-228**		**Th-228**	
	RPD (%)[b]	**NAD[b]**	**RPD (%)[b]**	**NAD[b]**	**RPD (%)[b]**	**NAD[b]**	**RPD (%)[b]**	**NAD[b]**
CWC266248 / CWC266248-2	NC	NA	38.12	NA	**89.36**	**2.36**	*	*
CWC269706 / CWC269706-2	NC	NA	3.34	NA	32.42	NA	*	*
Soil Sample Name[a]	**Th-230**		**Th-232**		**U-235**		**U-238**	
	RPD (%)[b]	**NAD[b]**	**RPD (%)[b]**	**NAD[b]**	**RPD (%)[b]**	**NAD[b]**	**RPD (%)[b]**	**NAD[b]**
CWC266248 / CWC266248-2	*	*	**89.36**	**2.36**	NC	NA	NC	NA
CWC269706 / CWC269706-2	*	*	32.42	NA	NC	NA	NC	NA

[a] Sediment samples ending in "-2" are split sediment samples.
[b] RPD criterion for solid matrix samples is less than or equal to 50 percent. If the RPD is greater than 50 percent, then the NAD shall be less than or equal to 1.96 to remain within the control limits.
* Not calculated, because either parent or split sample was not analyzed.
Bold values exceed the control limits. Values not in bold are within control limits.
NA – not applicable (see RPD)
NC – not calculated (due to one or both concentrations being below MDCs)

5.7.3 Equipment Rinsate Blanks

Equipment rinsate blank samples are typically taken from the rinsate water collected from equipment decontamination activities. These samples consist of analyte-free water that has been rinsed over sampling equipment for the purposes of evaluating the effectiveness of equipment decontamination. All of the monitoring wells have dedicated sampling equipment, rendering decontamination unnecessary. Because decontamination does not apply, equipment rinsate blanks were not employed.

Sediment samples from CWC are collected from each station using a clean sampling spoon. These spoons are segregated after use and decontaminated at the SLAPS field trailer according to Field Technical Procedure 400, "Equipment Decontamination" (Leidos 2015b). Because the process of collecting sediment occurs below the surface of the water, a rinsate blank would not represent the wetted surface of the sampling spoon at the time of sample collection and would therefore not apply. The CWC surface water samples are collected using new nitrile gloves and new laboratory sample containers. Equipment rinsate blanks for these samples are also not required, because no potential for contamination exists.

5.8 DATA REVIEW, EVALUATION, AND VALIDATION

All data packages received from the analytical laboratory were reviewed and either evaluated or validated by data management personnel. Data validation is the systematic process of ensuring that the precision and accuracy of the analytical data are adequate for their intended use. Validation was performed in accordance with *Data Verification and Validation* (Leidos 2015c), and/or with project-specific guidelines. General chemical data quality management guidance found in Engineer Regulation 1110-1-263 (USACE 1998c) was also used when planning for chemical data management and evaluation. Additional details of data review, evaluation, and validation are provided in the *FUSRAP Laboratory Data Management Process for the St. Louis Site* (USACE 1999b). Data assessment guidance to determine the usability of data from hazardous, toxic, and radioactive waste projects is provided in EM 200-1-6 (USACE 1997).

One hundred (100) percent of the data generated from all analytical laboratories was independently reviewed and either evaluated and/or validated. The data review process documents the possible effects on the data from various QC failures; it does not determine data usability, nor does it include assignment of data validation qualifier (VQ) flags. The data evaluation process uses the results of the data review to determine the usability of the data. The process of data evaluation summarizes the potential effects of QA/QC failures on the data, and the USACE Chemist or USACE Health Physicist assesses their impact on the attainment of the project-specific data quality objectives (DQOs). Consistent with the data quality requirements, as defined in the DQOs, approximately 10 percent of all project data were validated.

5.9 PRECISION, ACCURACY, REPRESENTATIVENESS, COMPARABILITY, COMPLETENESS, AND SENSITIVITY

The data evaluation process considers precision, accuracy, representativeness, completeness, comparability, and sensitivity. This section provides detail to the particular parameters and how the data were evaluated for each, with discussion and tables to present the associated data. An evaluation of the overall precision, accuracy, representativeness, completeness, comparability, and sensitivity of the CY 2023 environmental monitoring activities was acceptable and complete.

Accuracy and precision can be measured by the RPD or the NAD using the following equations:

$$RPD = \left(\frac{[S - D]}{\frac{S+D}{2}} \right) x\ 100$$

$$NAD = \frac{|S - D|}{\sqrt{U_S^2 + U_D^2}}$$

where:

S = parent sample result
D = duplicate/split sample result
U_S = parent sample uncertainty
U_D = duplicate/split sample uncertainty
RPD has units of percent (%); NAD is unitless

The RPD is calculated for all samples for which a detectable result is reported for both the parent and the QA field split or field duplicate. For surface and groundwater radiological samples, when the RPD is greater than 30 percent, the NAD is used to determine the accuracy or precision of

the method. NAD accounts for uncertainty in the results; RPD does not. The NAD should be equal to or less than a value of 1.96. The RPD criterion for sediment samples is equal to 50 percent. Neither equation is used when the analyte in one or both of the samples is not detected. In cases in which neither equation can be used, the comparison is counted as acceptable in the overall number of comparisons.

Precision is a measure of mutual agreement among individual measurements performed under the same laboratory controls. To evaluate for precision, a field duplicate is submitted to the same laboratory as the original sample to be analyzed under the same laboratory conditions.

The RPD and NAD between the two results was calculated and used as an indication of the precision of the analyses performed (Tables 5-1 through 5-5). Sample collection precision was measured in the laboratory by the analyses of duplicates. The overall precision for the CY 2023 environmental monitoring activities was acceptable.

Accuracy provides a gauge or measure of the agreement between an observed result and the true value for an analysis. The RPD and NAD between the two results was calculated and used as an indication of the accuracy of the analyses performed (Tables 5-6 through 5-10). For this EMDAR, accuracy is measured through the use of the field split samples through a comparison of the prime laboratory results versus the results of an independent laboratory. The overall accuracy for CY 2023 environmental monitoring activities was acceptable. The laboratory control sample (LCS) is also an indicator of accuracy, and all LCS recoveries were within the 25 percent criteria.

Representativeness expresses the degree to which data accurately and precisely represent a characteristic of a population, parameter variations at a sampling point, a process condition, or an environmental condition. Representativeness is a qualitative parameter that depends upon the proper design of the sampling program and proper laboratory protocols. Representativeness is satisfied through proper design of the sampling network, use of proper sampling techniques, following proper analytical procedures, and not exceeding holding times of the samples.

Representativeness was determined by assessing the combined aspects of the QA program, QC measures, and data evaluations. The network design was developed from the EMICY23, the sampling protocol from the SAG has been followed, and analytical procedures were conducted within the bounds of the QAPP. The overall representativeness of the CY 2023 environmental monitoring activities was acceptable.

Comparability expresses the confidence with which one dataset can be compared with another. The extent to which analytical data will be comparable depends upon the similarity of sampling and analytical methods, as well as sample-to-sample and historical comparability. Standardized and consistent procedures used to obtain analytical data are expected to provide comparable results. For example, post-CY 1997 analytical data may not be directly comparable to data collected before CY 1997, because of differences in DQOs. Additionally, some sample media (e.g., stormwater and radiological monitoring) have values that are primarily useful in the present, thus the comparison to historical data is not as relevant. However, the overall comparability of the applicable environmental monitoring data met the project DQOs.

Completeness is a measure of the amount of valid data obtained from a measurement system compared to the amount expected to be obtained under normal conditions. Laboratories are expected to provide data meeting QC acceptance criteria for all samples tested. For the CY 2023 environmental monitoring activities, the data completeness was 100 percent (St. Louis FUSRAP DQO for completeness is 90 percent).

Sensitivity is the determination of minimum detectable concentration (MDC) values that allows the investigation to assess the relative confidence that can be placed in an analytical result in comparison to the magnitude or level of analyte concentration observed. For this EMDAR, MDC is a term generically used to represent both the method detection limit (MDL) for non-radiologicals and the minimum detectable activity (MDA) for radiological analytes. The closer a measured value to the MDC, the less confidence and more variation the measurement will have. Project sensitivity goals were expressed as quantitation level goals in the SAG. These levels were achieved or exceeded throughout the analytical process.

The MDC is reported for each result obtained by laboratory analysis. These very low MDCs are achieved through the use of gamma spectroscopy for all radionuclides of concern, with additional analyses from alpha spectroscopy for thorium and from inductively coupled plasma (ICP) for metals. Variations in MDCs for the same radiological analyte reflect variability in the detection efficiencies and conversion factors due to factors such as individual sample aliquot, sample density, and variations in analyte background radioactivity for gamma and alpha spectroscopy at the laboratory. Variations in MDLs for the same non-radiological analyte reflect variability in calibrations between laboratories, dilutions, and analytical methods. In order to complete the data evaluation (i.e., precision, accuracy, representativeness, and comparability), analytical results that exceed the MDC of the analyte are desired.

5.10 DATA QUALITY ASSESSMENT SUMMARY

The overall quality of the data meets the established project objectives. Through proper implementation of the project data review, evaluation, validation, and assessment process, project information has been determined to be acceptable for use.

Data, as presented, have been qualified as usable, but estimated when necessary. Data that have been estimated have concentrations/activities that are below the quantitation limit or are indicative of accuracy, precision, or sensitivity less than desired but adequate for interpretation.

These data can withstand scientific scrutiny, are appropriate for the intended purpose, and are technically defensible. The environmental information presented has an established confidence, which allows utilization for the project objectives and provides data for future needs.

5.11 RESULTS FOR PARENT SAMPLES AND THE ASSOCIATED DUPLICATE AND SPLIT SAMPLES

Summaries of the QA parent sample results and associated duplicate and/or split sample results are presented in Tables 5-11 through 5-14.

Table 5-11. Non-Radiological Parent Samples and Associated Duplicate and Split Samples (Surface Water and Groundwater) for CY 2023

Water Sample Name[a]	Antimony			Arsenic			Barium			Cadmium			Chromium		
	Result (µg/L)	DL (µg/L)	VQ	Result (µg/L)	DL (µg/L)	VQ	Result (µg/L)	DL (µg/L)	VQ	Result (µg/L)	DL (µg/L)	VQ	Result (µg/L)	DL (µg/L)	VQ
CWC266247	2.00	2.00	U	2.80	1.60	=	110.00	0.69	=	0.20	0.20	U	4.00	4.00	U
CWC266247-1	2.00	2.00	U	2.50	1.60	=	110.00	0.69	=	0.20	0.20	U	4.00	4.00	U
CWC266247-2	0.45	0.40	=	1.50	0.50	=	120.00	0.38	=	0.19	0.19	U	0.50	0.50	U
CWC267927	0.81	0.29	=	2.20	1.60	=	54.00	0.69	=	0.06	0.06	U	1.60	1.30	=
CWC267927-1	0.86	0.29	=	2.10	1.60	=	55.00	0.69	=	0.06	0.06	U	1.60	1.30	=
CWC267927-2	0.88	0.40	=	2.50	0.50	=	53.00	0.38	=	0.19	0.19	U	0.59	0.50	=
CWC269571	0.42	0.29	=	1.80	1.60	=	81.00	0.69	=	0.06	0.06	U	1.60	1.30	J
CWC269571-1	0.44	0.29	=	1.80	1.60	=	83.00	0.69	=	0.06	0.06	U	1.70	1.30	J
CWC269571-2	0.49	0.40	=	1.80	0.50	=	82.00	0.38	=	0.36	0.19	=	0.50	0.50	U
CWC269705	0.58	0.29	=	2.70	1.60	=	73.00	0.69	=	0.06	0.06	U	1.30	1.30	U
CWC269705-1	0.58	0.29	=	2.60	1.60	=	72.00	0.69	=	0.06	0.06	U	1.30	1.30	U
CWC269705-2	0.68	0.40	=	3.00	0.50	=	83.00	0.38	=	0.19	0.19	U	0.50	0.50	U
HIS266927	2.00	2.00	U	240.00	1.60	=	360.00	0.69	=	0.20	0.20	U	4.00	4.00	U
HIS266927-1	2.00	2.00	U	240.00	1.60	=	370.00	0.69	=	0.20	0.20	U	4.00	4.00	U
HIS266927-2	0.40	0.40	U	220.00	0.50	=	390.00	0.38	J	0.19	0.19	U	0.50	0.50	U
HIS270127	0.42	0.29	=	1.60	1.60	U	66.00	0.69	=	0.22	0.06	=	1.30	1.30	U
HIS270127-1	0.37	0.29	=	1.60	1.60	U	63.00	0.69	=	0.39	0.06	=	1.30	1.30	U
HIS270127-2	0.48	0.40	=	0.58	0.50	=	67.00	0.38	=	0.19	0.19	U	0.50	0.50	U
SVP266968	2.00	2.00	U	1.60	1.60	U	200.00	0.69	=	0.20	0.20	U	4.00	4.00	U
SVP266968-1	2.00	2.00	U	1.60	1.60	U	210.00	0.69	=	0.20	0.20	U	4.00	4.00	U
SVP266968-2	0.40	0.40	U	0.78	0.50	=	220.00	0.38	J	0.29	0.19	=	0.50	0.50	U

Table 5-11. Non-Radiological Parent Samples and Associated Duplicate and Split Samples (Surface Water and Groundwater) for CY 2023 (Continued)

Water Sample Name[a]	Molybdenum			Nickel			Selenium			Thallium			Vanadium		
	Result (µg/L)	DL (µg/L)	VQ	Result (µg/L)	DL (µg/L)	VQ	Result (µg/L)	DL (µg/L)	VQ	Result (µg/L)	DL (µg/L)	VQ	Result (µg/L)	DL (µg/L)	VQ
CWC266247	6.50	2.00	=	2.00	2.00	U	2.00	2.00	U	0.13	0.13	U	4.00	4.00	U
CWC266247-1	6.40	2.00	=	2.00	2.00	U	2.00	2.00	U	0.13	0.13	U	4.00	4.00	U
CWC266247-2	6.80	0.37	=	1.50	0.83	=	1.60	1.00	=	0.21	0.21	U	1.20	1.10	=
CWC267927	4.90	2.00	=	2.00	0.89	=	0.67	0.67	U	0.38	0.38	U	4.00	4.00	U
CWC267927-1	5.10	2.00	=	2.00	0.89	=	0.67	0.67	U	0.38	0.38	U	4.00	4.00	U
CWC267927-2	4.90	0.37	=	1.40	0.83	=	1.00	1.00	U	0.21	0.21	U	3.20	1.10	=
CWC269571	11.00	2.00	=	1.80	0.89	J	1.70	0.67	=	0.38	0.38	U	4.00	4.00	U
CWC269571-1	11.00	2.00	=	1.80	0.89	J	1.60	0.67	=	0.38	0.38	U	4.00	4.00	U
CWC269571-2	11.00	0.37	=	1.70	0.83	=	1.70	1.00	=	0.21	0.21	U	1.40	1.10	=
CWC269705	7.70	2.00	=	2.20	0.89	J	1.40	0.67	=	0.38	0.38	U	4.00	4.00	U
CWC269705-1	7.90	2.00	=	2.40	0.89	J	1.40	0.67	=	0.38	0.38	U	4.00	4.00	U
CWC269705-2	8.80	0.37	=	2.00	0.83	=	1.90	1.00	=	0.21	0.21	U	2.90	1.10	=
HIS266927	7.00	2.00	=	2.70	2.00	=	2.00	2.00	U	0.13	0.13	U	4.00	4.00	U
HIS266927-1	7.10	2.00	=	2.60	2.00	=	2.00	2.00	U	0.13	0.13	U	4.00	4.00	U
HIS266927-2	7.70	0.37	=	1.90	0.83	=	1.00	1.00	U	0.21	0.21	U	1.10	1.10	U
HIS270127	20.00	2.00	=	0.98	0.89	=	72.00	0.67	=	0.38	0.38	U	4.00	4.00	U
HIS270127-1	18.00	2.00	=	0.89	0.89	U	67.00	0.67	=	0.38	0.38	U	4.00	4.00	U
HIS270127-2	19.00	0.37	=	0.91	0.83	=	65.00	1.00	=	0.21	0.21	U	1.10	1.10	U
SVP266968	2.00	2.00	U	2.00	2.00	U	2.00	2.00	U	0.13	0.13	U	4.00	4.00	U
SVP266968-1	2.00	2.00	U	2.00	2.00	U	2.00	2.00	U	0.13	0.13	U	4.00	4.00	U
SVP266968-2	1.20	0.37	=	1.00	0.83	=	1.00	1.00	U	0.21	0.21	U	1.10	1.10	U

[a] Samples ending in "-1" are duplicate samples. Samples ending in "-2" are split samples.

VQ symbols indicate: "=" for positively identified results, "J" analyte was identified as estimated quantity, and "U" for not detected.

Table 5-12. Non-Radiological Parent Samples and Associated Duplicate and Split Samples (Sediment) for CY 2023

Soil Sample Name[a]	Antimony			Arsenic			Barium			Cadmium			Chromium		
	Result (mg/kg)	DL (mg/kg)	VQ	Result (mg/kg)	DL (mg/kg)	VQ	Result (mg/kg)	DL (mg/kg)	VQ	Result (mg/kg)	DL (mg/kg)	VQ	Result (mg/kg)	DL (mg/kg)	VQ
CWC266248	0.25	0.09	=	4.70	0.13	=	98.00	0.20	=	0.25	0.02	J	11.00	0.63	=
CWC266248-1	0.33	0.09	=	9.50	0.14	=	99.00	0.21	=	0.25	0.02	J	11.00	0.66	=
CWC266248-2	0.24	0.04	=	8.10	0.06	=	110.00	0.08	=	0.27	0.02	=	16.00	0.11	=
CWC269706	0.37	0.08	=	5.60	0.16	=	140.00	0.18	=	0.56	0.02	=	21.00	0.38	=
CWC269706-1	0.47	0.10	=	6.50	0.18	=	200.00	0.21	=	0.71	0.02	=	32.00	0.44	=
CWC269706-2	1.10	0.05	=	7.30	0.07	=	170.00	0.10	=	0.72	0.03	=	31.00	0.14	=
Soil Sample Name[a]	**Molybdenum**			**Nickel**			**Selenium**			**Thallium**			**Vanadium**		
	Result (mg/kg)	DL (mg/kg)	VQ	Result (mg/kg)	DL (mg/kg)	VQ	Result (mg/kg)	DL (mg/kg)	VQ	Result (mg/kg)	DL (mg/kg)	VQ	Result (mg/kg)	DL (mg/kg)	VQ
CWC266248	0.28	0.18	=	12.00	0.20	=	3.20	0.27	=	0.16	0.03	=	17.00	0.56	=
CWC266248-1	0.35	0.19	=	12.00	0.21	=	3.70	0.28	=	0.17	0.03	=	18.00	0.59	=
CWC266248-2	0.52	0.07	=	13.00	0.18	=	8.70	0.04	=	0.16	0.02	=	27.00	0.11	=
CWC269706	0.46	0.17	=	17.00	0.19	=	1.30	0.25	=	0.16	0.03	=	19.00	0.53	=
CWC269706-1	0.66	0.20	=	18.00	0.22	=	1.70	0.29	=	0.18	0.04	=	20.00	0.60	=
CWC269706-2	0.92	0.09	=	19.00	0.24	=	1.00	0.05	=	0.19	0.03	=	33.00	0.15	=

[a] Samples ending in "-1" are duplicate samples. Samples ending in "-2" are split samples.
VQ symbols indicate: "=" for positively identified results and "J" analyte was identified as estimated quantity.

Table 5-13. Radiological Parent Samples and Associated Duplicate and Split Samples (Surface Water and Groundwater) for CY 2023

Water Sample Name[a]	Ra-226[b]				Ra-228[b]				Th-228[b]				Th-230[b]			
	Result	Error	MDC	VQ	Result	Error	MDC	VQ	Result	Error	MDC	VQ	Result	Error	MDC	VQ
	(pCi/L)				(pCi/L)				(pCi/L)				(pCi/L)			
CWC266247	0.04	0.25	0.73	UJ	*	*	*	*	0.67	0.48	0.55	J	1.85	0.78	0.40	J
CWC266247-1	-0.15	0.39	1.33	UJ	*	*	*	*	0.52	0.46	0.63	UJ	0.43	0.42	0.63	UJ
CWC266247-2	0.15	0.16	0.26	UJ	*	*	*	*	0.08	0.14	0.21	UJ	0.07	0.21	0.31	UJ
CWC267927	-0.06	0.18	0.69	UJ	*	*	*	*	0.57	0.52	0.74	UJ	0.66	0.51	0.46	J
CWC267927-1	-2.81	0.74	2.85	UJ	*	*	*	*	0.45	0.47	0.83	UJ	0.96	0.62	0.64	J
CWC267927-2	0.08	0.14	0.25	UJ	*	*	*	*	0.10	0.18	0.30	UJ	0.15	0.23	0.31	UJ
CWC269571	0.48	0.48	0.84	UJ	*	*	*	*	0.32	0.38	0.59	UJ	0.62	0.50	0.49	J
CWC269571-1	0.09	0.36	0.97	UJ	*	*	*	*	0.09	0.25	0.65	UJ	0.88	0.59	0.65	J
CWC269571-2	-0.01	0.19	0.38	UJ	*	*	*	*	0.16	0.30	0.50	UJ	0.06	0.25	0.39	UJ
CWC269705	0.36	0.33	0.44	UJ	*	*	*	*	0.38	0.43	0.70	UJ	0.45	0.43	0.51	UJ
CWC269705-1	-0.03	0.23	0.73	UJ	*	*	*	*	0.34	0.38	0.63	UJ	0.77	0.55	0.63	J
CWC269705-2	0.08	0.14	0.25	UJ	*	*	*	*	-0.04	0.16	0.33	UJ	0.00	0.18	0.29	UJ
HIS266927	0.68	0.57	0.88	UJ	*	*	*	*	0.00	0.00	0.68	U	0.22	0.29	0.54	UJ
HIS266927-1	0.36	0.42	0.75	UJ	*	*	*	*	0.31	0.29	0.35	UJ	0.78	0.48	0.48	J
HIS266927-2	0.53	0.29	0.36	J	*	*	*	*	0.01	0.27	0.55	UJ	0.34	0.38	0.47	UJ
HIS270127	0.04	0.33	1.09	UJ	*	*	*	*	0.66	0.46	0.40	J	1.19	0.62	0.40	J
HIS270127-1	0.15	0.43	1.12	UJ	*	*	*		0.26	0.30	0.47	UJ	1.23	0.62	0.39	J
HIS270127-2	0.03	0.17	0.33	UJ	*	*	*	*	0.00	0.11	0.19	UJ	-0.09	0.14	0.26	UJ
SVP266968	0.39	0.38	0.57	UJ	*	*	*	*	0.27	0.33	0.62	UJ	0.96	0.53	0.51	J
SVP266968-1	0.00	0.18	0.63	UJ	*	*	*	*	0.19	0.25	0.49	UJ	0.28	0.27	0.39	UJ
SVP266968-2	0.18	0.10	0.12	J	*	*	*	*	-0.02	0.11	0.20	UJ	0.11	0.18	0.24	UJ

Table 5-13. Radiological Parent Samples and Associated Duplicate and Split Samples (Surface Water and Groundwater) for CY 2023 (Continued)

Water Sample Name[a]	Th-232[b]				U-234[b]				U-235[b]				U-238[b]			
	Result	Error	MDC	VQ	Result	Error	MDC	VQ	Result	Error	MDC	VQ	Result	Error	MDC	VQ
	(pCi/L)				(pCi/L)				(pCi/L)				(pCi/L)			
CWC266247	0.15	0.26	0.55	UJ	0.93	0.57	0.57	J	0.10	0.27	0.70	UJ	1.00	0.59	0.57	J
CWC266247-1	0.09	0.24	0.63	UJ	0.99	0.56	0.52	J	0.09	0.25	0.64	UJ	0.35	0.35	0.52	UJ
CWC266247-2	0.02	0.06	0.12	UJ	0.97	0.32	0.13	=	0.06	0.08	0.09	UJ	0.70	0.26	0.11	=
CWC267927	-0.03	0.20	0.54	UJ	0.14	0.24	0.44	UJ	0.10	0.29	0.75	UJ	0.08	0.23	0.60	UJ
CWC267927-1	0.00	0.25	0.64	UJ	0.07	0.18	0.47	UJ	0.00	0.31	0.81	UJ	0.27	0.35	0.65	UJ
CWC267927-2	-0.01	0.03	0.14	UJ	0.15	0.13	0.16	UJ	0.03	0.05	0.08	UJ	0.17	0.12	0.11	J
CWC269571	0.16	0.27	0.49	UJ	0.82	0.61	0.71	J	0.09	0.25	0.65	UJ	0.57	0.49	0.52	J
CWC269571-1	-0.02	0.18	0.47	UJ	0.84	0.59	0.51	J	0.00	0.33	0.87	UJ	0.67	0.55	0.70	UJ
CWC269571-2	-0.02	0.09	0.24	UJ	0.62	0.28	0.24	=	0.08	0.12	0.19	UJ	0.29	0.20	0.23	J
CWC269705	0.10	0.27	0.70	UJ	0.91	0.61	0.67	J	0.11	0.32	0.83	UJ	0.16	0.26	0.48	UJ
CWC269705-1	0.09	0.24	0.63	UJ	0.55	0.44	0.57	UJ	0.00	0.27	0.71	UJ	0.08	0.22	0.57	UJ
CWC269705-2	-0.01	0.03	0.13	UJ	0.21	0.13	0.11	J	0.02	0.04	0.10	UJ	0.39	0.17	0.09	=
HIS266927	-0.02	0.15	0.39	UJ	0.06	0.16	0.42	UJ	0.00	0.27	0.71	UJ	0.21	0.27	0.41	UJ
HIS266927-1	0.20	0.26	0.48	UJ	0.58	0.46	0.58	J	0.30	0.39	0.72	UJ	0.24	0.33	0.63	UJ
HIS266927-2	0.09	0.15	0.25	UJ	0.09	0.17	0.31	UJ	-0.01	0.02	0.26	UJ	0.03	0.10	0.24	UJ
HIS270127	0.08	0.21	0.56	UJ	10.80	2.18	0.50	=	0.27	0.34	0.52	UJ	10.60	2.15	0.58	=
HIS270127-1	0.15	0.25	0.54	UJ	10.30	2.04	0.39	=	0.70	0.52	0.48	J	9.98	2.00	0.46	=
HIS270127-2	0.04	0.07	0.12	UJ	10.60	1.22	0.05	=	0.60	0.23	0.06	=	9.74	1.15	0.08	=
SVP266968	0.13	0.22	0.47	UJ	0.64	0.49	0.59	J	-0.02	0.20	0.53	UJ	0.48	0.43	0.59	UJ
SVP266968-1	0.04	0.11	0.29	UJ	0.58	0.46	0.46	J	0.11	0.30	0.78	UJ	0.68	0.52	0.63	J
SVP266968-2	0.00	0.04	0.12	UJ	1.36	0.33	0.16	=	0.08	0.09	0.12	UJ	1.02	0.28	0.10	=

[a] Samples ending in "-1" are duplicate samples. Samples ending in "-2" are split samples.

[b] Negative results are less than the laboratory system's background level.

* Not available, because sample was not analyzed.

VQ symbols indicate: "=" for positively identified results, "J" analyte was identified as estimated quantity, and "UJ" analyte was not detected and had QC deficiencies.

Table 5-14. Radiological Parent Samples and Associated Duplicate and Split Samples (Sediment) for CY 2023

Soil Sample Name[a]	Th-228[b]				Th-230[b]				Th-232[b]			
	Result	Error	MDC	VQ	Result	Error	MDC	VQ	Result	Error	MDC	VQ
	(pCi/g)				(pCi/g)				(pCi/g)			
CWC266248	0.83	0.31	0.14	J	1.41	0.42	0.12	J	0.62	0.26	0.18	=
CWC266248-1	0.88	0.31	0.17	J	1.60	0.43	0.11	J	0.76	0.28	0.11	=
CWC266248-2	0.67	0.19	0.13	=	1.06	0.25	0.16	=	0.65	0.18	0.08	=
CWC269706	1.43	0.45	0.16	=	17.50	2.66	0.20	=	1.72	0.50	0.21	J
CWC269706-1	1.24	0.37	0.14	=	14.10	2.06	0.17	=	1.14	0.36	0.17	=
CWC269706-2	0.80	0.17	0.10	=	16.20	1.52	0.11	=	0.69	0.15	0.05	=
Soil Sample Name[a]	Ac-227				Am-241				Cs-137			
	Result	Error	MDC	VQ	Result	Error	MDC	VQ	Result	Error	MDC	VQ
	(pCi/g)				(pCi/g)				(pCi/g)			
CWC266248	-0.05	0.13	0.21	UJ	0.00	0.02	0.04	UJ	-0.01	0.01	0.02	UJ
CWC266248-1	-0.02	0.12	0.20	UJ	0.00	0.03	0.04	UJ	-0.01	0.01	0.02	UJ
CWC266248-2	0.38	0.65	1.15	UJ	0.09	0.34	0.56	UJ	0.00	0.11	0.19	UJ
CWC269706	0.21	0.18	0.31	UJ	-0.02	0.03	0.06	UJ	0.06	0.01	0.02	=
CWC269706-1	0.26	0.06	0.16	=	0.01	0.04	0.06	UJ	0.06	0.04	0.02	=
CWC269706-2	0.30	0.67	1.33	UJ	-0.12	0.30	0.50	UJ	0.04	0.12	0.20	UJ
Soil Sample Name[a]	K-40				Pa-231				Ra-226			
	Result	Error	MDC	VQ	Result	Error	MDC	VQ	Result	Error	MDC	VQ
	(pCi/g)				(pCi/g)				(pCi/g)			
CWC266248	11.20	1.47	0.19	=	0.15	0.44	0.75	UJ	0.81	0.21	0.05	=
CWC266248-1	11.40	1.50	0.19	=	-0.14	0.46	0.77	UJ	0.86	0.23	0.06	=
CWC266248-2	14.50	2.89	1.10	=	0.61	2.56	15.10	UJ	1.19	0.29	0.22	=
CWC269706	15.20	1.98	0.25	=	-0.22	0.64	1.06	UJ	2.06	0.51	0.07	=
CWC269706-1	16.00	2.08	0.24	=	0.15	0.61	1.04	UJ	1.77	0.44	0.07	=
CWC269706-2	15.90	2.53	0.44	=	1.16	3.66	8.15	UJ	2.13	0.37	0.21	=
Soil Sample Name[a]	Ra-228				Th-228				Th-230			
	Result	Error	MDC	VQ	Result	Error	MDC	VQ	Result	Error	MDC	VQ
	(pCi/g)				(pCi/g)				(pCi/g)			
CWC266248	0.52	0.07	0.05	=	0.52	0.07	0.05	=	0.08	2.24	3.73	UJ
CWC266248-1	0.58	0.08	0.05	=	0.58	0.08	0.05	=	2.59	2.37	4.03	UJ
CWC266248-2	1.36	0.35	0.47	=	*	*	*	*	*	*	*	*
CWC269706	0.96	0.12	0.06	=	0.96	0.12	0.06	=	16.20	4.40	5.92	=
CWC269706-1	0.99	0.12	0.06	=	0.99	0.12	0.06	=	20.00	4.70	6.31	=
CWC269706-2	1.33	0.31	0.23	=	*	*	*	*	*	*	*	*
Soil Sample Name[a]	Th-232				U-235				U-238			
	Result	Error	MDC	VQ	Result	Error	MDC	VQ	Result	Error	MDC	VQ
	(pCi/g)				(pCi/g)				(pCi/g)			
CWC266248	0.52	0.07	0.05	=	-0.03	0.15	0.24	UJ	0.84	0.15	0.28	=
CWC266248-1	0.58	0.08	0.05	=	0.02	0.15	0.26	UJ	0.96	0.17	0.28	=
CWC266248-2	1.36	0.35	0.47	=	0.28	0.60	1.86	UJ	2.13	1.58	3.30	UJ
CWC269706	0.96	0.12	0.06	=	0.21	0.22	0.36	UJ	1.25	0.21	0.41	=
CWC269706-1	0.99	0.12	0.06	=	0.23	0.21	0.36	UJ	1.52	0.24	0.40	=
CWC269706-2	1.33	0.31	0.23	=	0.47	0.50	1.56	J	1.67	1.75	3.92	UJ

[a] Samples ending in "-1" are duplicate samples. Samples ending in "-2" are split samples.

[b] Results from alpha spectroscopy.

* Not available, because sample was not analyzed.

VQ symbols indicate: "=" for positively identified results, "J" analyte was identified as estimated quantity, and "UJ" analyte was not detected and had QC deficiencies

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6.0 RADIOLOGICAL DOSE ASSESSMENT

This section evaluates the cumulative dose to a hypothetically impacted individual from exposure to radiological contaminants at the NC Sites and documents dose trends. The regulatory dose limit for members of the public is 100 mrem per year, as stated in 10 *CFR* 20.1301. Although 10 *CFR* 20.1301 is not an ARAR for the NC Sites, the USACE has provided this evaluation to assess public exposures from St. Louis FUSRAP cleanup operations. Compliance with the dose limit in §20.1301 can be demonstrated in one of the two following methods (§20.1302(b)(1) and (2)):

1. Demonstrating by measurement or calculation that the TEDE to the individual likely to receive the highest dose from FUSRAP cleanup operations at the NC Sites does not exceed the annual dose limit (i.e., 100 mrem per year); or
2. Demonstrating that: (*i*) the annual average concentration of radioactive material released in gaseous and liquid effluents at the boundary of the unrestricted area does not exceed the values specified in Table 2 of Appendix B to 10 *CFR* 20; and (*ii*) if an individual were continuously present in an unrestricted area, the dose from external sources would not exceed 2 mrem per hour.

The USACE has elected to demonstrate compliance by calculation of the TEDE to a hypothetical individual likely to receive the highest dose from FUSRAP cleanup operations at the NC Sites (method 1). This section describes the methodology employed for this evaluation.

Dose calculations are presented for hypothetical maximally exposed individuals at the Latty Avenue Properties, the SLAPS, the SLAPS VPs, and CWC. The monitoring data used in the dose calculations are reported in the respective environmental monitoring sections of this EMDAR.

Dose calculations related to airborne emissions, as required by 40 *CFR* 61, Subpart I, *National Emission Standards for Emissions of Radionuclides Other Than Radon From Federal Facilities Other Than Nuclear Regulatory Commission Licensees and Not Covered By Subpart H,* are presented in Appendix B (the "North St. Louis County FUSRAP Sites 2023 Radionuclide Emissions NESHAP Report Submitted in Accordance with Requirements of 40 *CFR* 61, Subpart I").

6.1 SUMMARY OF ASSESSMENT RESULTS AND DOSE TRENDS

In 2017, a small area was identified along the railroad tracks on VP-40A where the external radiation levels are slightly above background levels. This area is currently classified as inaccessible and is known to have radiological contamination in excess of ROD RGs. However, the average external gamma radiation levels at this location do not exceed the ROD monitoring threshold of 20 µR per hour. As a best management practice (BMP), air monitoring at this location was initiated for external gamma and radon.

The TEDE from Latty Avenue Properties to a hypothetical maximally exposed individual from all complete/applicable pathways combined was calculated to be approximately 2.1 mrem per year, estimated for an individual who works full time at a location approximately 50 m east of VP-40A on the Futura property.

The TEDE from the SLAPS to a hypothetical maximally exposed individual from all complete/applicable pathways combined was 1.2 mrem per year, estimated for an individual who works full time at a location approximately 200 m west-northwest from the center of the SLAPS Loadout area. Because of the proximity of the IA-09 Ballfields excavation area, the dose

from airborne particulates modeled from the IA-09 Ballfields excavation area is included for the business receptor located 200 m east-southeast of the IA-09 Ballfields excavation area.

The TEDE from the SLAPS VPs to a hypothetical maximally exposed individual from all complete/applicable pathways combined was 3.5 mrem per year, estimated for a resident who lives full time at a location approximately 50 m east of the CWC-386, CWC-387, and CWC-388 (Northwest Bank of CWC) excavation areas.

The TEDE from CWC to a hypothetical maximally exposed individual from all complete/applicable pathways combined was less than 0.3 mrem per year, estimated for a resident youth (10-year-old child) spending time as a recreational user of CWC.

Annual dose trends from CY 2000 to CY 2023 at applicable NC Sites are documented on Figure 6-1. A comparison of the maximum annual dose from CY 2000 to CY 2023 at each of the applicable NC Sites to the annual average natural background dose of approximately 620 mrem per year is provided on Figure 6-2.

6.2 PATHWAY ANALYSIS

The six complete pathways for exposure to NC Site radiological contaminants evaluated by the St. Louis FUSRAP EMP are listed in Table 6-1. These pathways are used to identify data gaps in the EMP and to estimate potential radiological exposures from the site. Of the six complete pathways, four were applicable in CY 2023 and were thus incorporated into radiological dose estimates.

Table 6-1. Complete Radiological Exposure Pathways

Exposure Pathway	Pathway Description	Applicable to CY 2023 Dose Estimate	
		NC Sites	CWC
Liquid A	Ingestion of groundwater from local wells down-gradient from the site.	NA	NA
Liquid B	Ingestion of fish inhabiting CWC.	NC	NA
Liquid C	Ingestion of surface water[a] and sediments.	NC	Y[b]
Airborne A	Inhalation of particulates dispersed through wind erosion and RAs.	Y	NC
Airborne B	Inhalation of Rn-222 and decay products emitted from contaminated soils/wastes.	Y	NC
External	Direct gamma radiation from contaminated soils/wastes.	Y	NA

[a] Surface water includes stormwater run-off from NC Sites, MSD discharges, and the water in CWC.

[b] The pathway is only applicable to a recreational receptor (youth) exposed to contaminants present in CWC water and sediments. Data from NC Sites stormwater discharges and MSD discharges are not applicable to the hypothetical recreational receptor; therefore, those data are not evaluated in this section.

NA – not applicable for the site
NC – not a complete pathway for the respective site
Y – applicable for the site

In developing specific elements of the St. Louis FUSRAP EMP, potential exposure pathways of the radioactive materials present on site are reviewed to determine which pathways are complete. Evaluation of each exposure pathway is based on hypothetical sources, release mechanisms, types, probable environmental fates of contaminants, and the locations and activities of potential receptors. Pathways are then reviewed to determine whether a link exists between one or more radiological contaminant sources, or between one or more environmental transport processes, to an exposure point at which human receptors are present. If a link exists, the pathway is termed complete. Each complete pathway was reviewed to determine if a potential for exposure was

present in CY 2023. If a potential for exposure was possible, the pathway is termed applicable. Only applicable pathways are considered in estimates of dose.

The pathways applicable to the CY 2023 dose estimates for NC Sites, including CWC, are shown in Table 6-1. The incomplete pathways were not considered in the dose assessment and are only listed in Table 6-1 because they were complete for at least one receptor location. The pathways listed as not applicable were listed as such in CY 2023 for the following reasons:

- Liquid A is not applicable, because the aquifer is of naturally low quality and is not known to be used for any domestic purpose in the vicinity of the NC Sites (DOE 1994).
- Liquid B is not applicable at CWC or for the SLAPS transient receptor, because the receptor would be unlikely to catch and eat a game fish. A survey was conducted, and 97 percent of the fish collected at CWC during the survey were fathead minnows (Parker and Szlemp 1987).
- The dose equivalent from CWC to the receptor from contaminants in the water/sediment was estimated using the Microshield Version 5.03 computer-modeling program. The scenario used was a youth playing in the creek bed (1 ft of water shielding and dry) for 52 hours per year. The highest estimated whole-body dose to the youth was 0.3 microrem per year. The gamma dose rate emitted from the contaminants is indistinguishable from background gamma radiation. Therefore, the external gamma pathway (from contaminants in the creek water/sediment) is not applicable for the CWC receptor.

6.3 EXPOSURE SCENARIOS

Dose calculations were performed for maximally exposed individuals at critical receptor locations for applicable exposure pathways (see Table 6-1) to assess dose due to radiological releases from the NC Sites. First, conditions were set to determine the TEDE to a maximally exposed individual at each of the main site locations on which excavation and loadout activities occurred (i.e., the Latty Avenue Properties, the SLAPS, and the SLAPS VPs). A second dose equivalent for CWC was calculated. A third set of dose equivalent calculations was performed to meet NESHAP requirements (Appendix B). These dose equivalent calculations were also used for purposes of TEDE calculation.

The scenarios and models used to evaluate these radiological exposures are conservative but appropriate. Although radiation doses can be calculated or measured for individuals, it is not appropriate to predict the health risk to a single individual using the methods prescribed herein. Dose equivalents to a single individual are estimated by hypothesizing a maximally exposed individual and placing this individual in a reasonable but conservative scenario. This method is acceptable when the magnitude of the dose to a hypothetical maximally exposed individual is small, as is the case for the NC Sites. This methodology provides for reasonable estimates of potential exposure to the public and maintains a conservative approach. The scenarios and resulting estimated doses are outlined in Section 6.4.

All ingestion calculations were performed using the methodology described in International Commission on Radiation Protection (ICRP) Reports 26 and 30 for a 50-year committed effective dose equivalent (CEDE). The 50-year CEDE conversion factors were obtained from *Federal Guidance Report 11: Limiting Values of Radionuclide Intake and Air Concentration and Dose Conversion Factors for Inhalation, Submersion and Ingestion* (USEPA 1989a) and *Calculation of Slope Factors and Dose Coefficients* (ORNL 2014).

6.4 DETERMINATION OF TOTAL EFFECTIVE DOSE EQUIVALENT FOR EXPOSURE SCENARIOS

The TEDE for the exposure scenarios was calculated using CY 2023 monitoring data. Calculations for dose scenarios are provided in Appendix I. Dose equivalent estimates are well below the standards set by the NRC for annual public exposure and the USEPA NESHAP limits.

The CY 2023 TEDE for a hypothetical maximally exposed individual near the Latty Avenue Properties, the SLAPS, the SLAPS VPs, and CWC is 2.1 mrem per year, 0.5 mrem per year, 3.5 mrem per year, and 0.3 mrem per year, respectively. In comparison, the annual average exposure to natural background radiation in the United States results in a TEDE of approximately 620 mrem per year (NCRP 2009). Assumptions are detailed in the following sections.

6.4.1 Radiation Dose Equivalent from the Latty Avenue Properties to a Maximally Exposed Individual

The Latty Avenue Properties contributing to dose include the monitored area on Futura/VP-40A in CY 2023. This section discusses the estimated TEDE to a hypothetical maximally exposed individual assumed to be located approximately 50 m east from the area identified as having the highest external gamma radiation level on Futura/VP-40A. No private residences are adjacent to the site. Therefore, all calculations of dose equivalent due to the applicable pathway assume a realistic residence time that is less than 100 percent. A full-time-employee business receptor was considered the maximally exposed individual for the Latty Avenue Properties.

The exposure scenario assumptions are as follows:

- Exposure to external gamma radiation and radon from Futura/VP-40A sources occurs to the maximally exposed individual while working full time outside at the receptor location (i.e., Futura) located approximately 50 m east from the area identified as having the highest external gamma level on Futura/VP-40A Exposure time is 2,000 hours per year (Leidos 2024b).
- Exposure from external gamma radiation was calculated using environmental TLD monitoring data at the perimeter between the source and the receptor. The site is assumed to represent a line-source to the receptor (Leidos 2024b).
- Exposure from airborne radioactive particulates, if applicable, from Futura/VP-40A was calculated by using soil concentration data and air particulate monitoring data to determine a source term and then running the CAP88-PC computer code to calculate dose to the receptor from active excavations (Leidos 2024b).
- Exposure from Rn-222 (and decay chain isotopes) was calculated using a dispersion factor and Rn-222 (ATD) monitoring data at the site perimeter between the source and the receptor (Leidos 2024b).

Based on the exposure scenario and assumptions described previously, a maximally exposed individual working outside at the Futura facility located 50 m east from the monitored area on Futura/VP-40A identified as having the highest external gamma level would have received less than 0.1 mrem per year from external gamma, negligible dose from airborne radioactive particulates, and 2.0 mrem per year from Rn-222, for a TEDE of 2.1 mrem per year (Leidos 2024b).

6.4.2 Radiation Dose Equivalent from the St. Louis Airport Site to a Maximally Exposed Individual

The SLAPS area contributing to dose (i.e., those areas at which waste handling activities occurred in CY 2023) is the SLAPS Loadout area. This section discusses the estimated TEDE to a hypothetical maximally exposed individual assumed to be located approximately 200 m west-northwest from the center of the SLAPS Loadout area and to receive a radiation dose by the exposure pathways identified previously. Because of the proximity of the IA-09 Ballfields and James S McDonnell Boulevard excavation areas, the doses from airborne particulates modeled from these excavation area are included for the business receptor. The hypothetical maximally exposed individual is assumed to be located 200 m east-southeast and 400 m west from the IA-09 Ballfields and James S McDonnell Boulevard excavation areas, respectively. No private residences are adjacent to the site. Therefore, all calculations of dose equivalence due to the applicable pathways assume a realistic residence time that is less than 100 percent. A full-time-employee business receptor was considered the maximally exposed individual for the SLAPS.

The exposure scenario assumptions are as follows:

- Exposure to radiation from all SLAPS sources occurs to the maximally exposed individual while working full time outside at the receptor location facility located approximately 200 m west-northwest from the center of the SLAPS Loadout area, 200 m east-southeast of the IA-09 Ballfields, and 400 m west of the James S McDonnell Boulevard excavation areas. Exposure time is 2,000 hours per year (Leidos 2024c).
- Exposure from external gamma radiation was calculated using environmental TLD monitoring data at the perimeter between the source and the receptor. The site is assumed to represent a line-source to the receptor (Leidos 2024c).
- Exposure from airborne radioactive particulates was calculated using soil concentration data and air particulate monitoring data to determine a source term and then running the CAP88-PC computer code to calculate dose to the receptor (Leidos 2024c).
- Exposure from Rn-222 (and decay chain isotopes) was calculated using ATD monitoring data at the site locations representative of areas accessible to the public between the source and the receptor (Leidos 2024c).

Based on the exposure scenario and assumptions described previously, a maximally exposed individual working outside at the receptor facility 200 m west-northwest from the center of the SLAPS Loadout area, 200 m east-southeast of the IA-09 Ballfields, and 400 m west of the James S McDonnell Boulevard excavation areas would have received 0.6 mrem per year from external gamma, an 0.4 mrem per year from airborne radioactive particulates, and 0.2 mrem per year from Rn-222, for a TEDE of 1.2 mrem per year (Leidos 2024c).

6.4.3 Radiation Dose Equivalent from the St. Louis Airport Site Vicinity Properties to a Maximally Exposed Individual

The SLAPS VPs contributing to dose (i.e., those properties at which RA occurred in CY 2023) include the following: CWC-386, CWC-387, and CWC-388 (Northwest Bank of CWC); James S McDonnell Boulevard; Pershall Road, VP-56; and the IA-09 Ballfields. This section discusses the estimated TEDE to a hypothetical maximally exposed individual assumed to frequent the perimeter of the SLAPS VPs and to receive a radiation dose by the exposure pathways identified previously. Because radiation dose due to radon and external gamma radiation are considered negligible at the SLAPS VPs, the estimated TEDE only includes dose

from exposure to airborne radioactive particulates that are assumed to be released during active excavations. A private residence located approximately 50 m east of the CWC-386, CWC-387, and CWC-388 (Northwest Bank of CWC) excavation areas had the highest TEDE for all SLAPS VPs; therefore, a residential receptor was considered the maximally exposed individual for the SLAPS VPs.

The exposure scenario assumptions are as follows:

- Exposure to radiation from all SLAPS VP sources occurs to the maximally exposed individual while living full time at the residence receptor location located approximately 50 m east of the CWC-386, CWC-387, and CWC-388 (Northwest Bank of CWC) excavation areas. Exposure time is 8,760 hours per year (Leidos 2024c).
- Exposure from airborne radioactive particulates was calculated using soil concentration data and air particulate monitoring data to determine a source term and then running the CAP88-PC modeling code to calculate dose to the receptor (Leidos 2024c).

Based on the exposure scenario and assumptions described previously, a maximally exposed individual living at the residence receptor location 50 m east of the CWC-386, CWC-387, and CWC-388 (Northwest Bank of CWC) excavation areas would have received 3.5 mrem per year from airborne radioactive particulates for a TEDE of 3.5 mrem per year (Leidos 2024c).

6.4.4 Radiation Dose Equivalent from Coldwater Creek to a Maximally Exposed Individual

This section describes the estimated TEDE to a hypothetical maximally exposed individual assumed to frequent CWC and receive a radiation dose by the exposure pathways identified previously. The assumed scenario is for a recreational user. Therefore, all calculations of dose equivalent due to the applicable pathway assume a realistic residence time that is less than 100 percent. A youth spending time as a recreational user of CWC is considered the maximally exposed individual for CWC.

The exposure scenario assumptions are as follows:

- The youth spends 2 hours at CWC during each visit, and visits once every 2 weeks. It is likely that this activity would be greater in summer and less in winter, but the yearly average is 26 visits (Leidos 2024d).
- The soil/sediment ingestion rate is 50 mg per day, and the water ingestion rate is 2 L per day (USEPA 1989b; Leidos 2024d).
- The UCL_{95} of the mean radionuclide concentrations in CWC surface water/sediment samples collected in CY 2023 were assumed to be present in the water/sediment ingested by the maximally exposed individual (Leidos 2024d).
- Dose equivalent conversion factors for ingestion (for a 10-year-old child) are as follows: total U, 2.63E-04 mrem/pCi; Ra-226, 2.97E-03 mrem/pCi; Ra-228, 1.45E-02 mrem/pCi; Th-228, 5.07E-04 mrem/pCi; Th-230, 9.10E-04 mrem/pCi; and Th-232, 1.07E-03 mrem/pCi (ORNL 2014; Leidos 2024d).

Based on the exposure scenario and assumptions described herein, a maximally exposed individual using CWC for recreational purposes would have received less than 0.1 mrem per year from soil/sediment ingestion and 0.2 mrem per year from water ingestion, for a TEDE of approximately 0.3 mrem per year (Leidos 2024d).

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FIGURES

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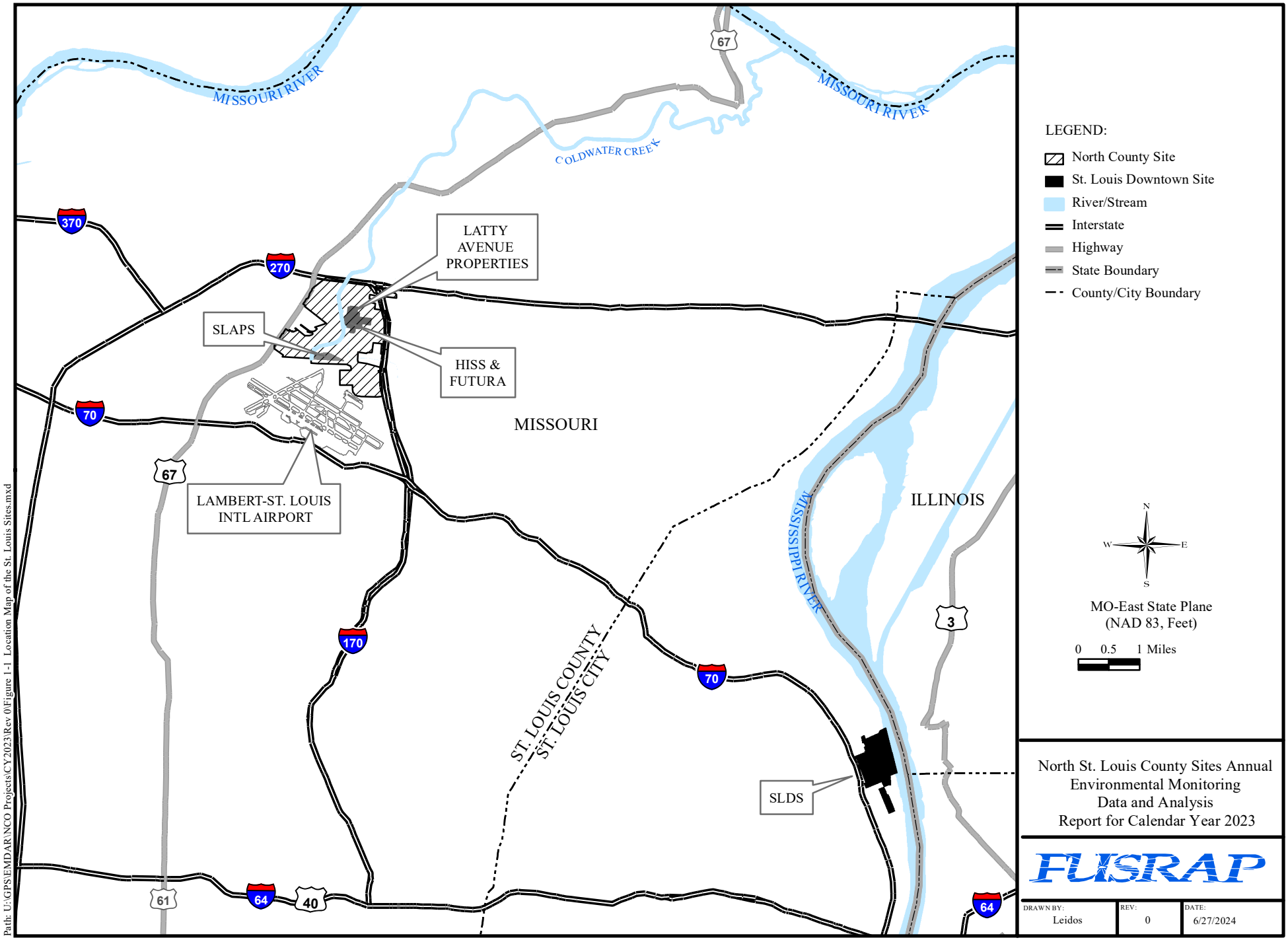


Figure 1-1. Location Map of the St. Louis Sites

Path: U:\GPS\EMDAR\NCO Projects\CY2023\Rev 0\Figure 1-2 Plan View of the SLAPS and SLAPS VPs.mxd

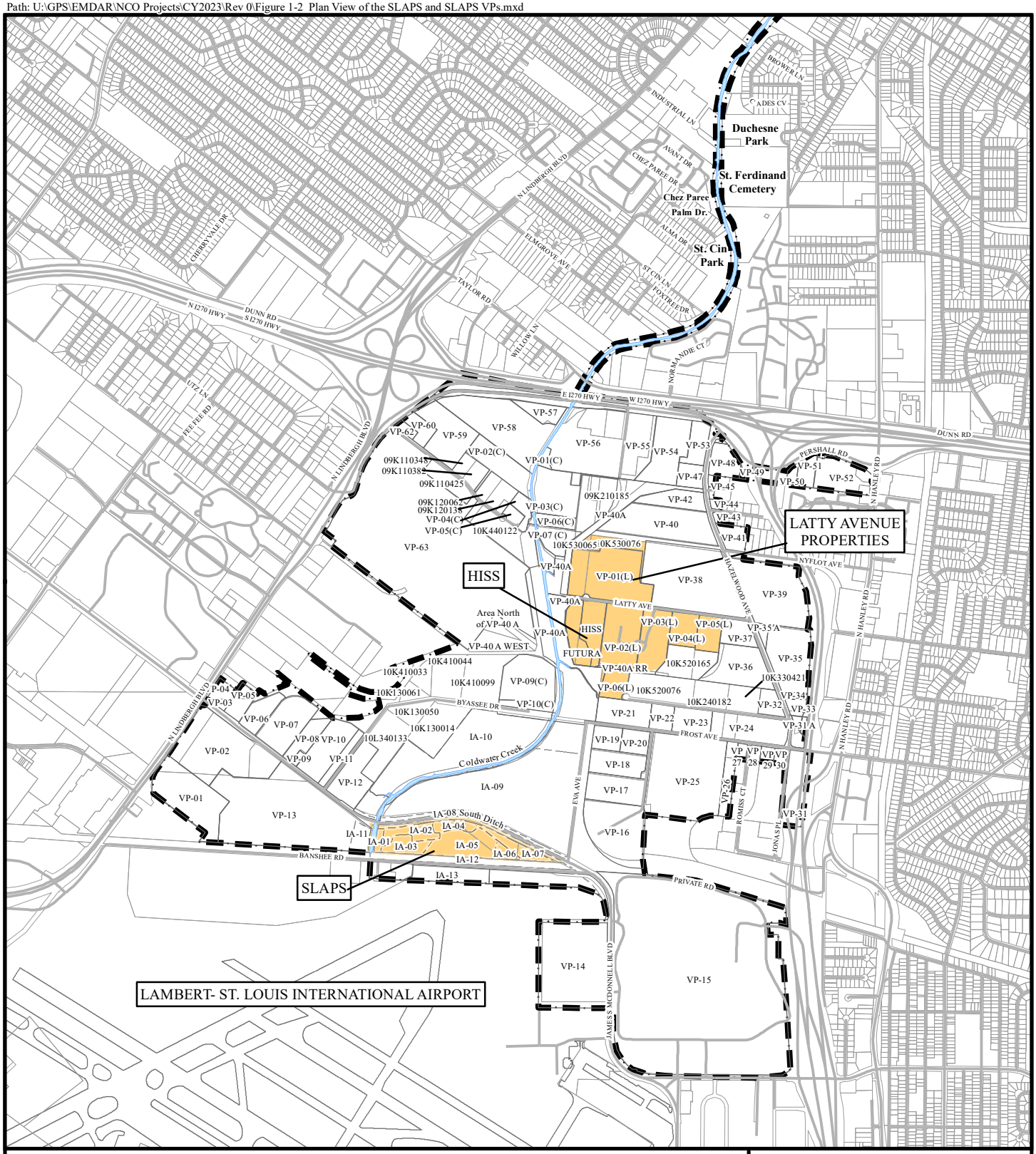


Figure 1-2. Plan View of the SLAPS, SLAPS VPs, and Latty Avenue Properties

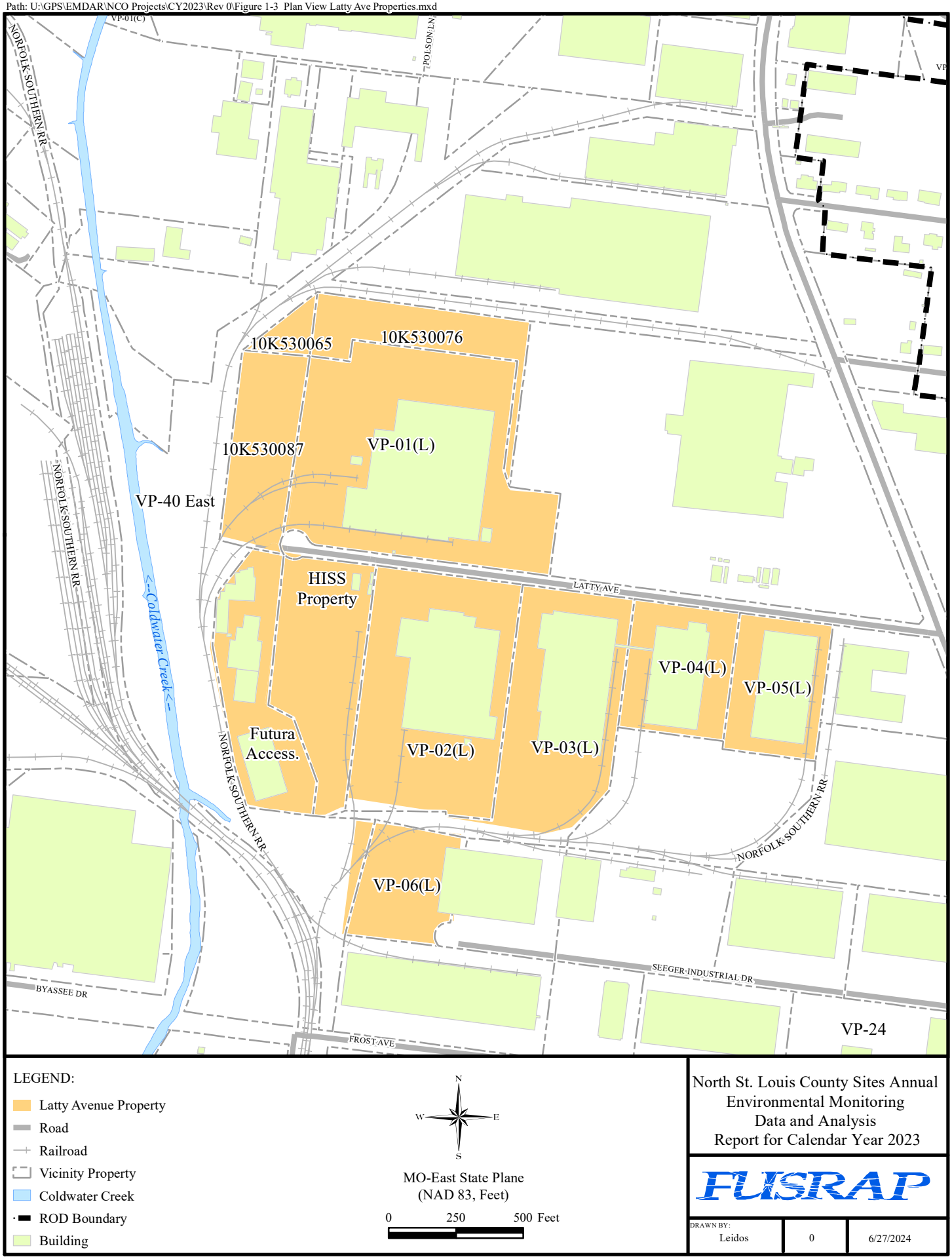


Figure 1-3. Plan View of the Latty Avenue Propeties including HISS and Futura

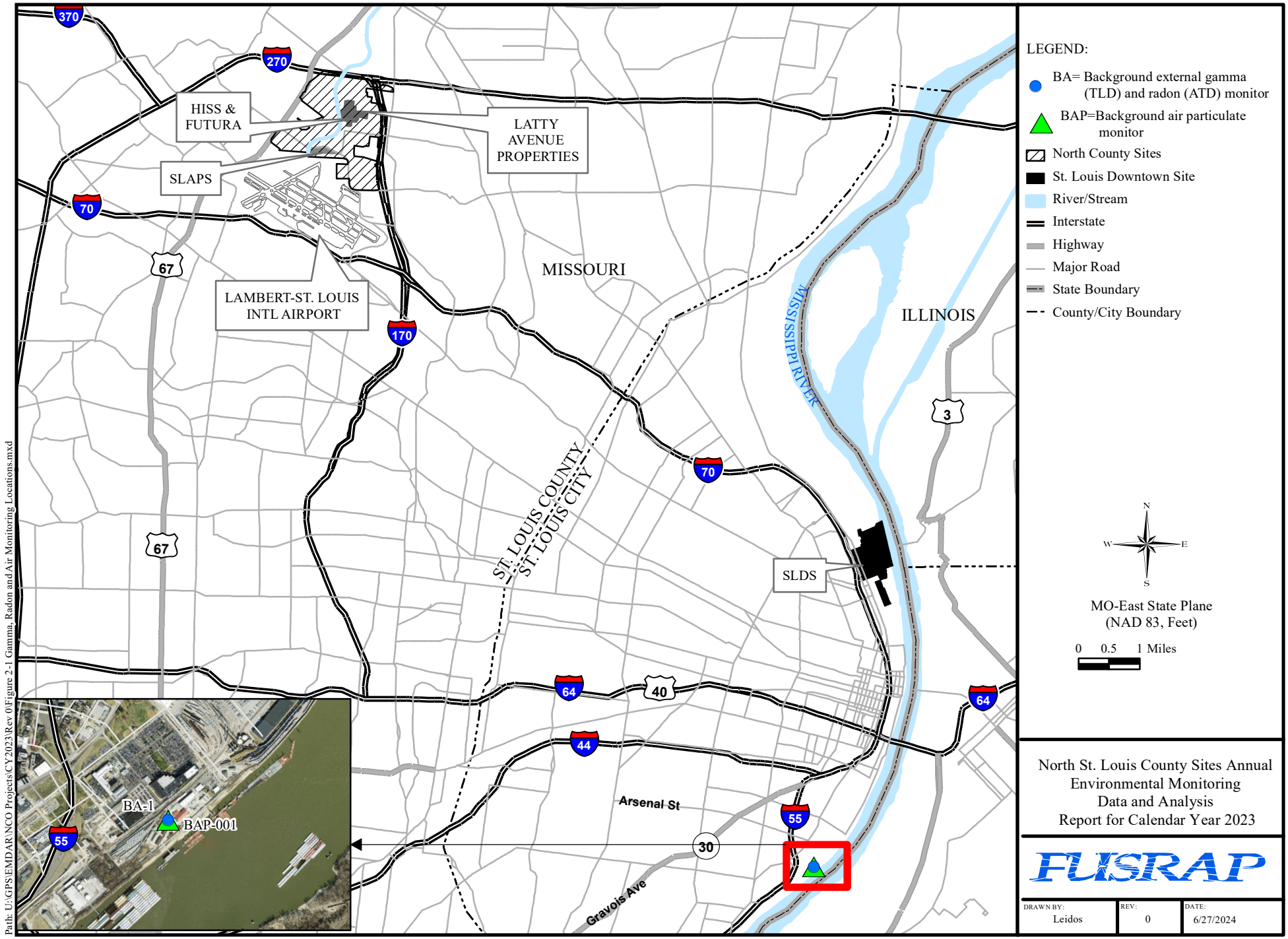
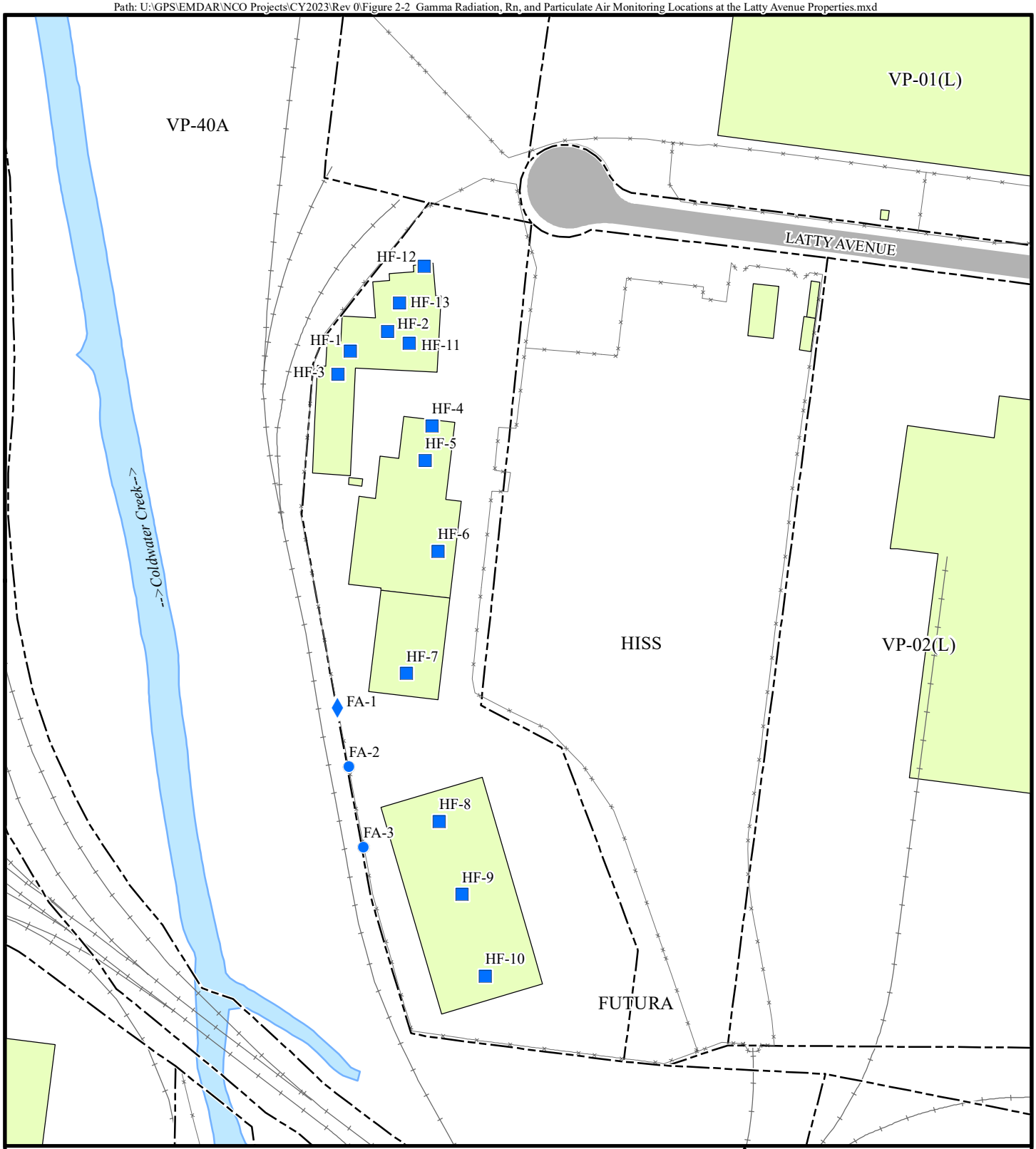


Figure 2-1. Gamma Radiation, Radon, and Particulate Air Monitoring at the St. Louis Background Location - USACE Service Base

Path: U:\GPS\EMDAR\NCO Projects\CY2023\Rev 0\Figure 2-2 Gamma Radiation, Rn, and Particulate Air Monitoring Locations at the Latty Avenue Properties.mxd



LEGEND:

- Fence
- River/Stream
- Railroad
- Buildings
- Vicinity Property
- Indoor Radon Monitoring Location (ATD)
- External Gamma (TLD) and Radon (ATD) Monitoring Location
- Outdoor Radon Monitoring Location (ATD)

N
W E
S

MO-East State Plane
(NAD 83, Feet)

0 75 150 Feet

North St. Louis County Sites Annual Environmental Monitoring Data and Analysis Report for Calendar Year 2023

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Figure 2-2. Gamma Radiation and Radon Monitoring Locations at the Latty Avenue Properties

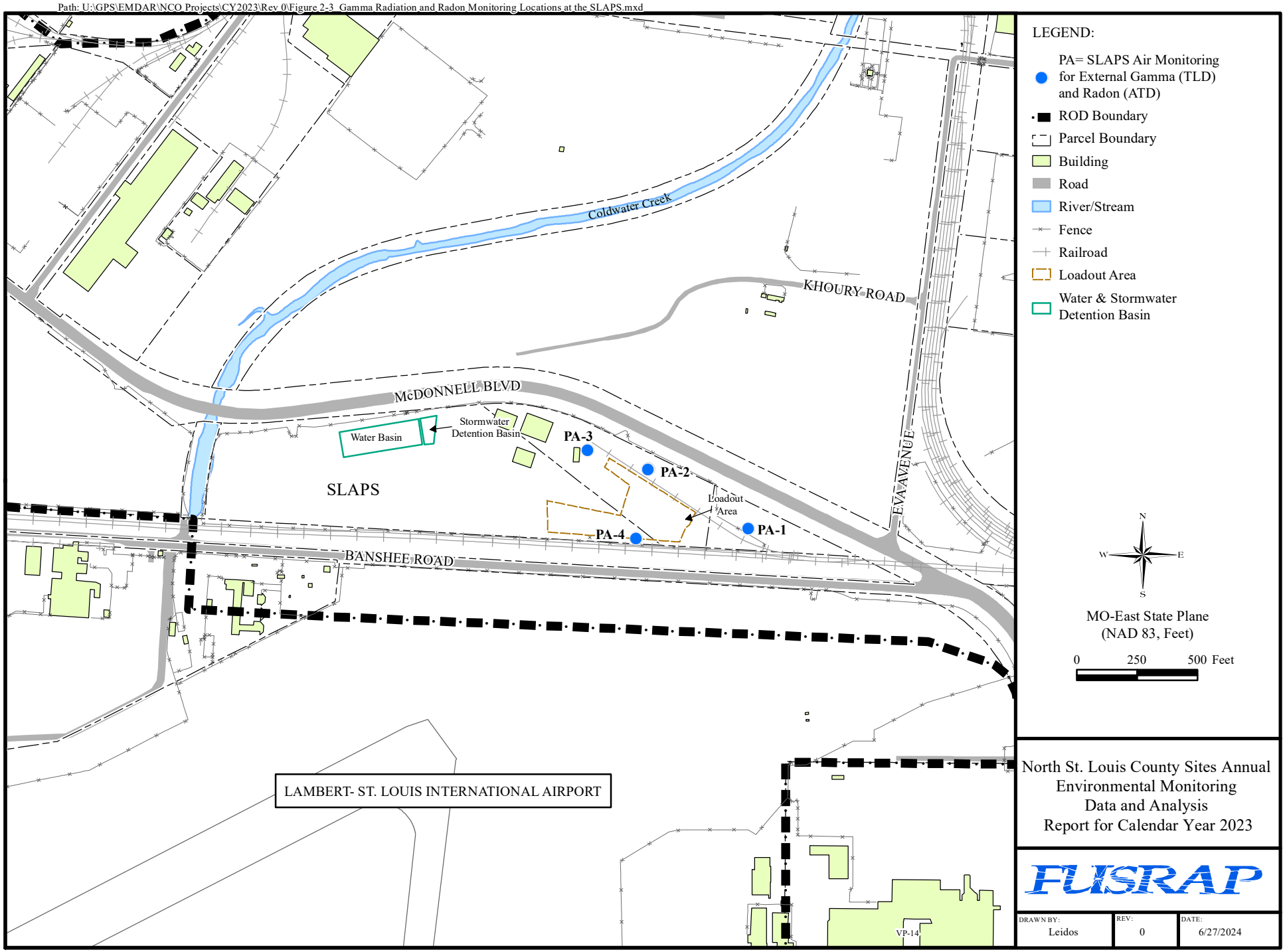


Figure 2-3. Gamma Radiation and Radon Monitoring Locations at the SLAPS

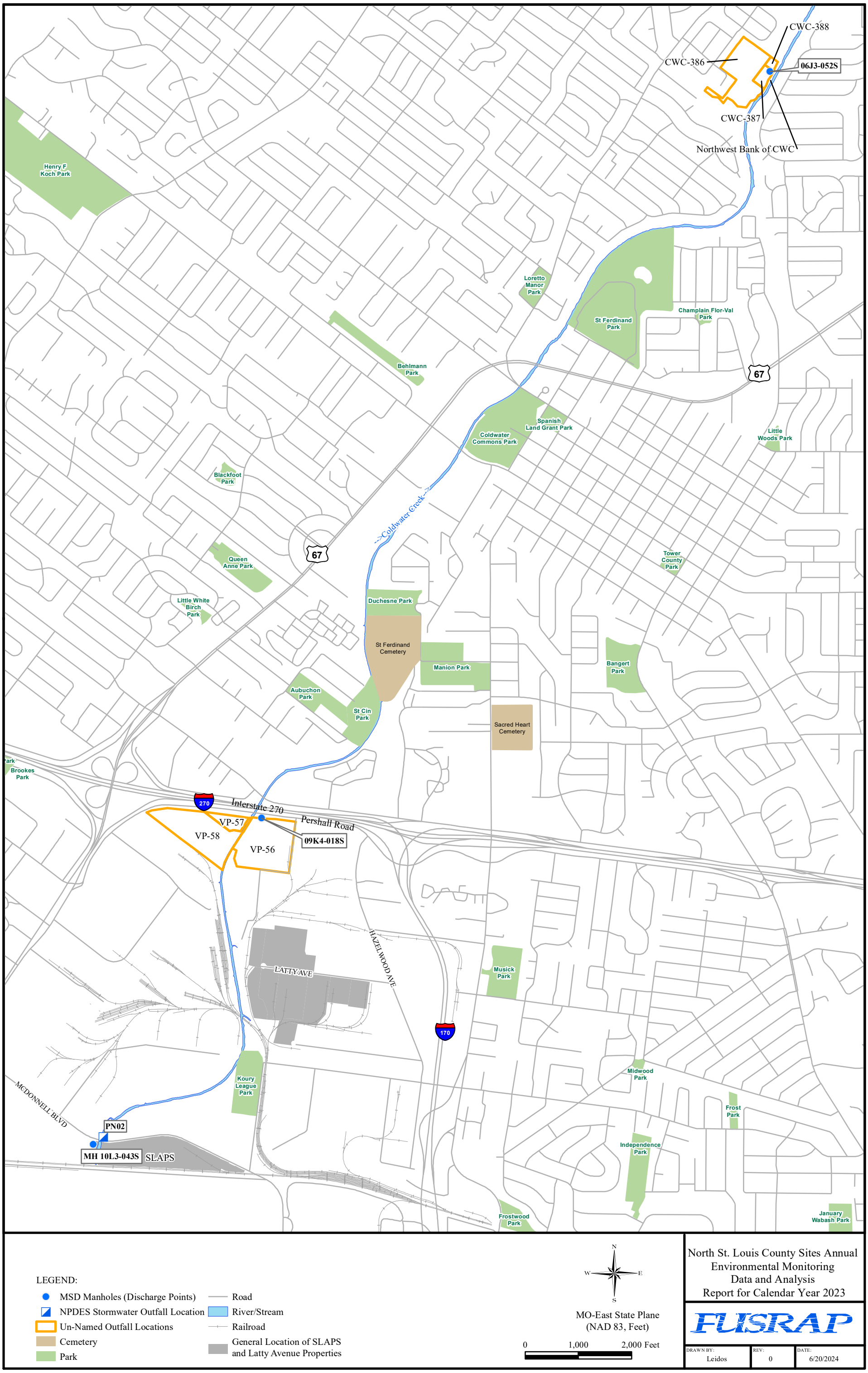


Figure 3-1. Stormwater Outfalls and MSD Excavation Water Discharge Points at the SLAPS

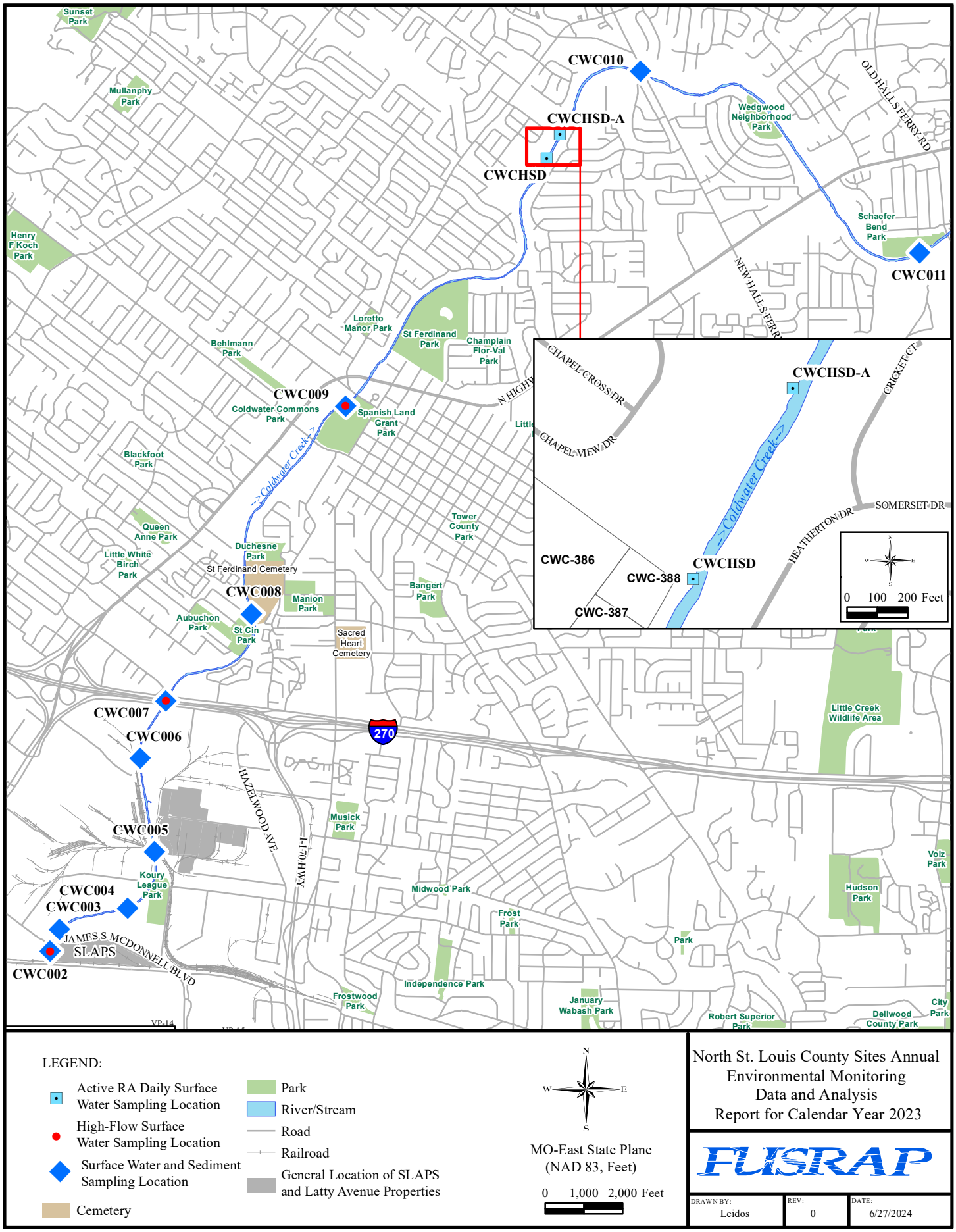
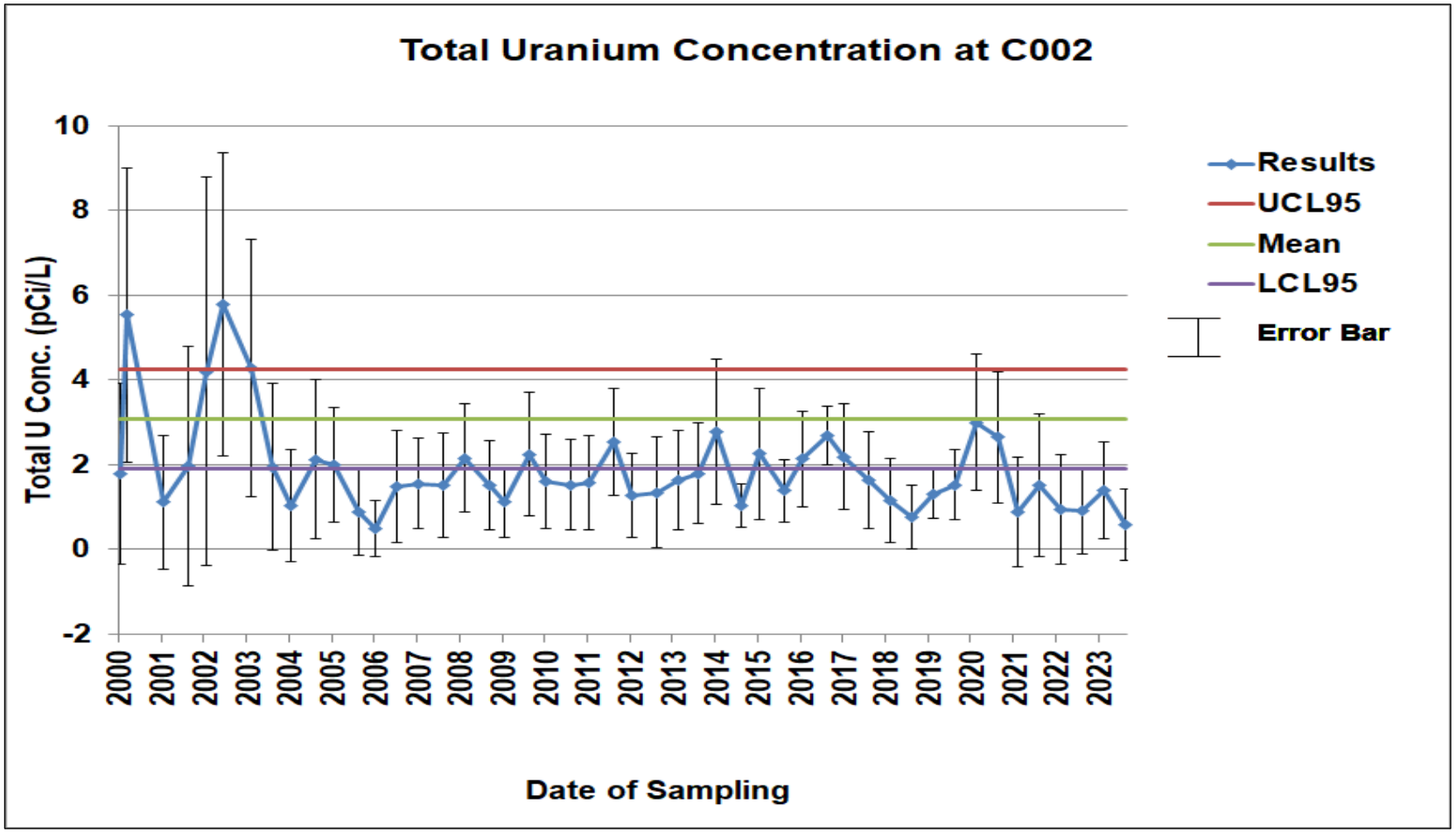


Figure 3-2. Surface Water and Sediment Sampling Locations at Coldwater Creek



Note:
The error bar represents ± the sum of the measurement errors for U-234, U-235, and U-238.

Figure 3-3. Total U Concentrations in Surface Water Versus Sampling Date

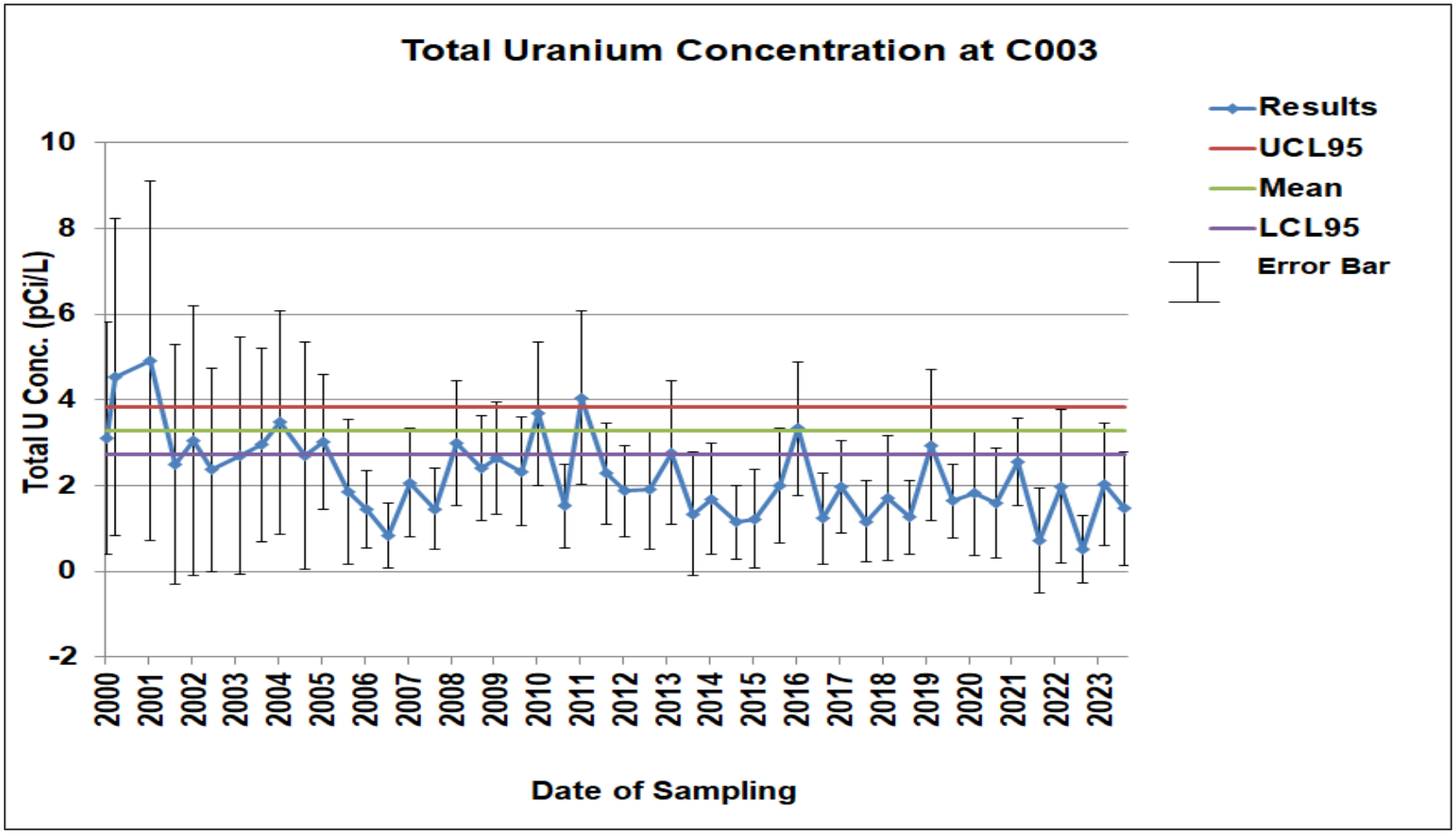


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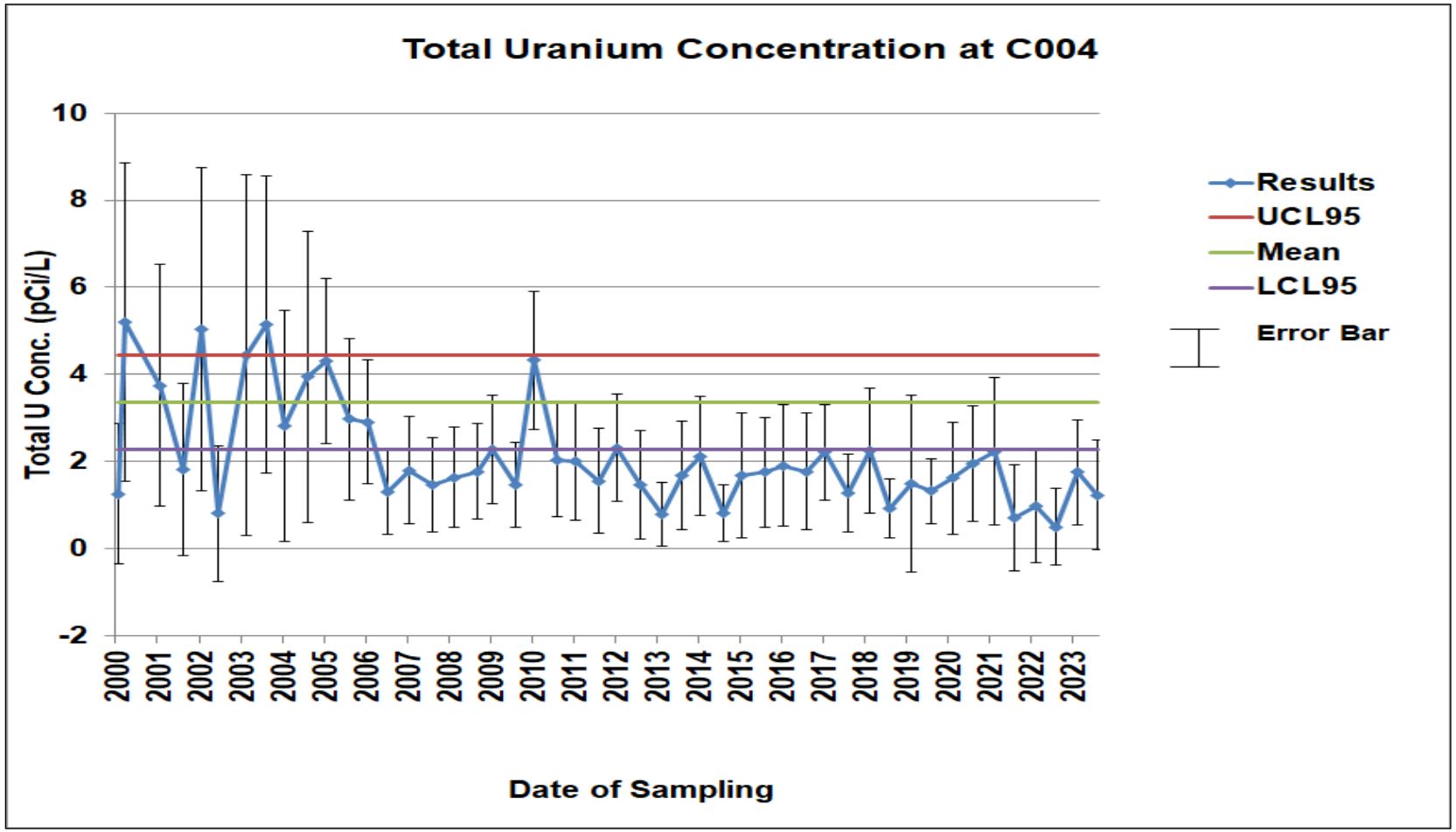
Figure 3-3. Total U Concentrations in Surface Water Versus Sampling Date (Continued)



Note:
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Figure 3-3. Total U Concentrations in Surface Water Versus Sampling Date (Continued)

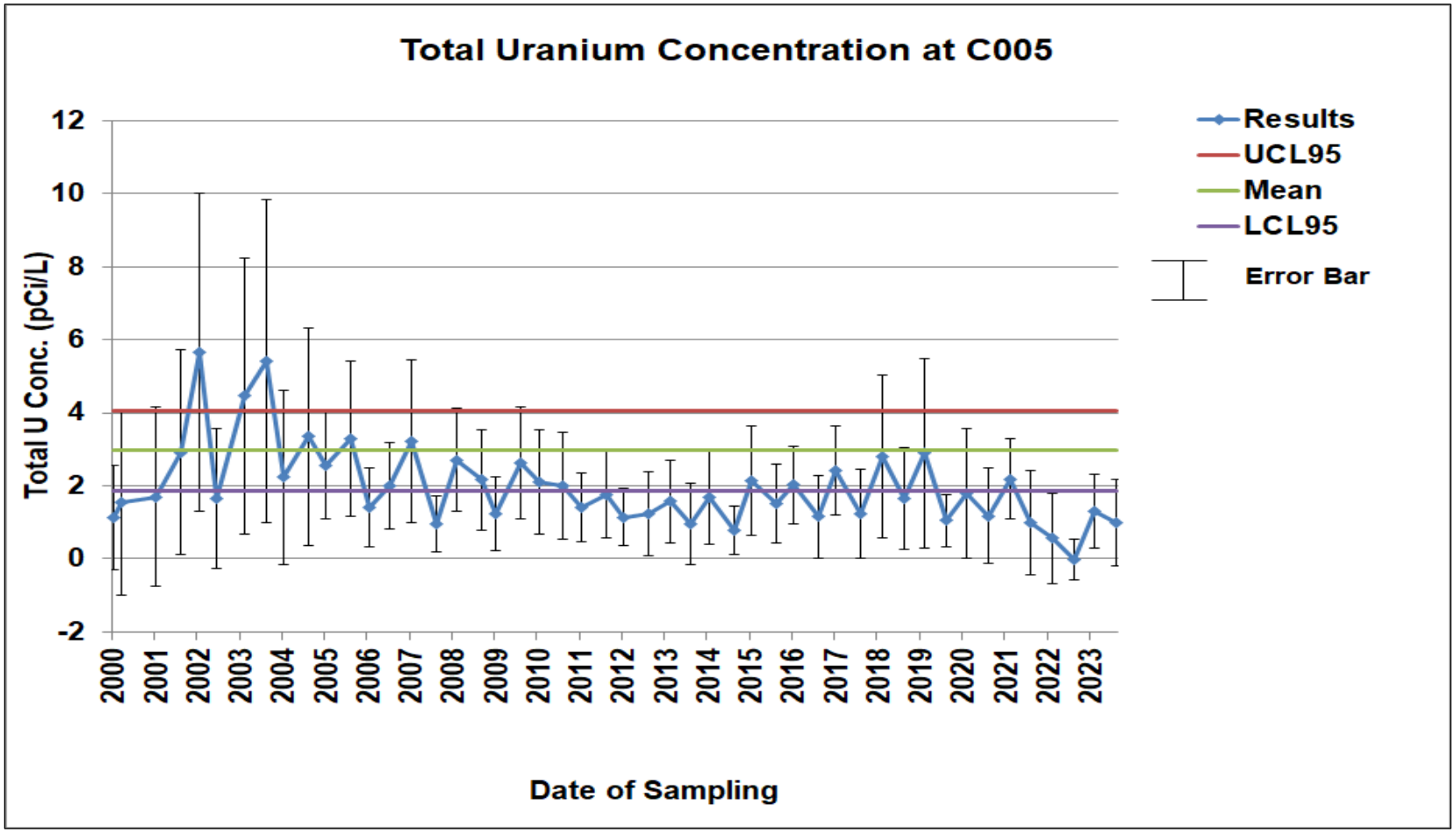

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Figure 3-3. Total U Concentrations in Surface Water Versus Sampling Date (Continued)

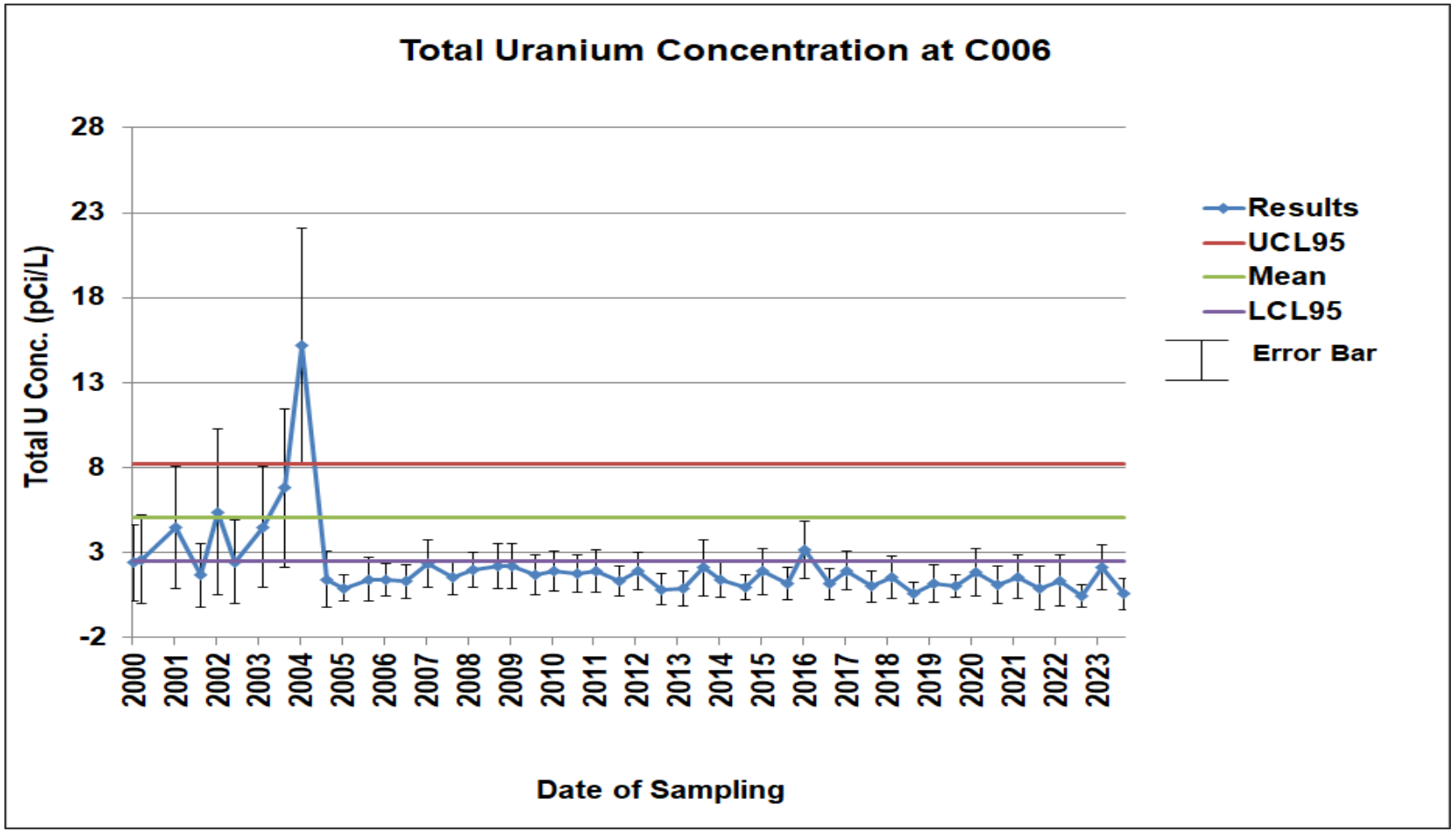

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Figure 3-3. Total U Concentrations in Surface Water Versus Sampling Date (Continued)

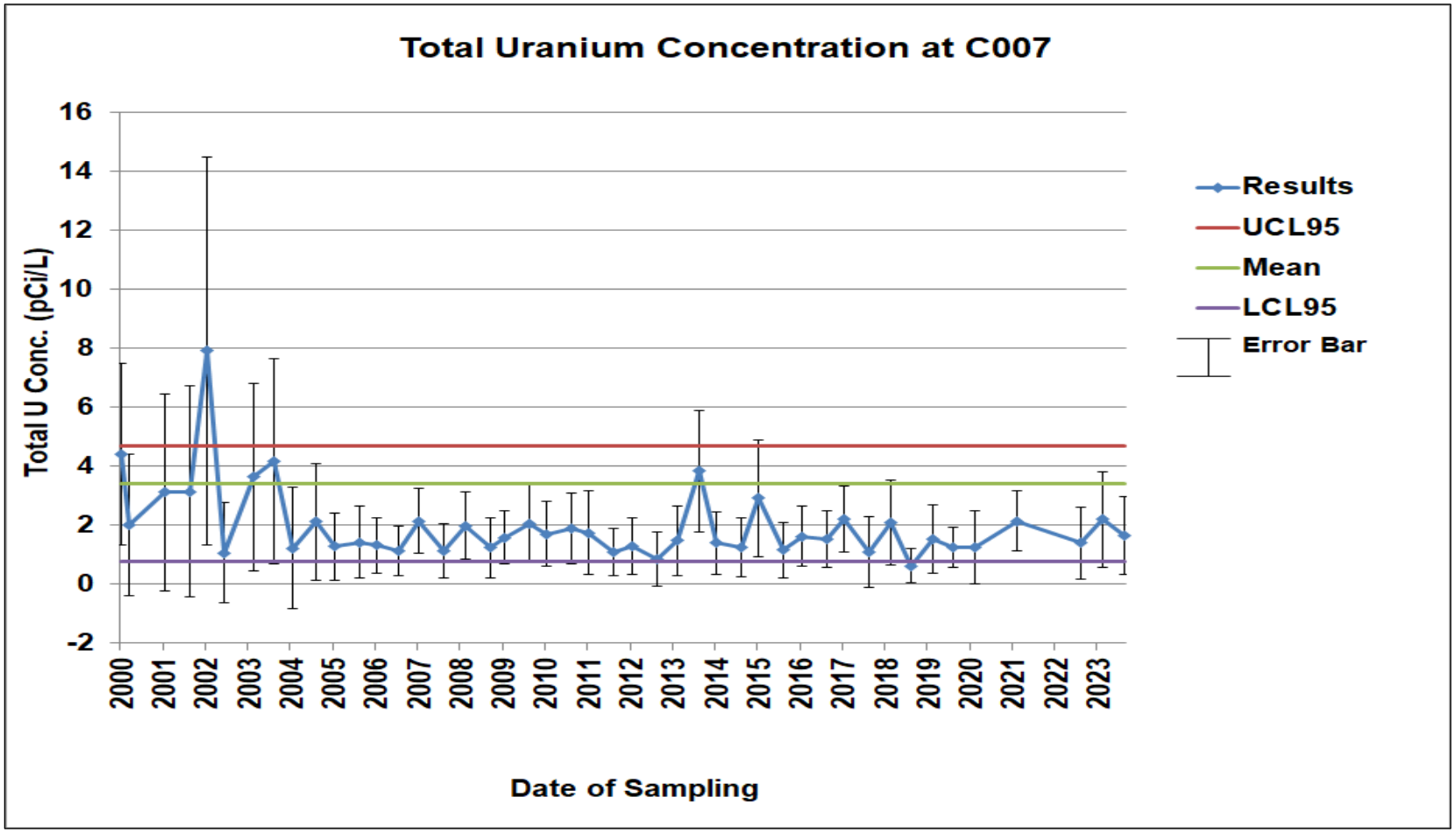

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Figure 3-3. Total U Concentrations in Surface Water Versus Sampling Date (Continued)

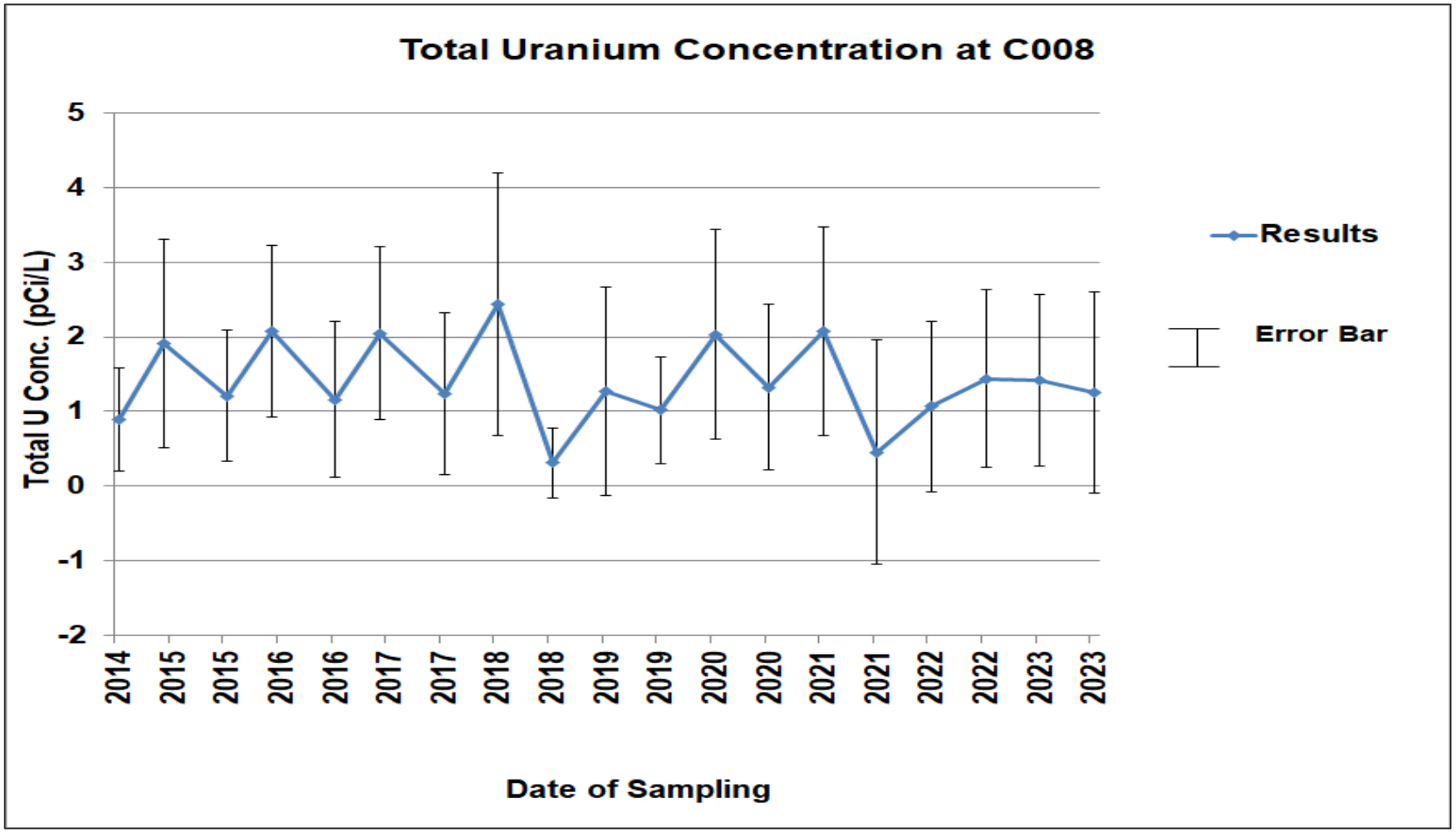

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Figure 3-3. Total U Concentrations in Surface Water Versus Sampling Date (Continued)

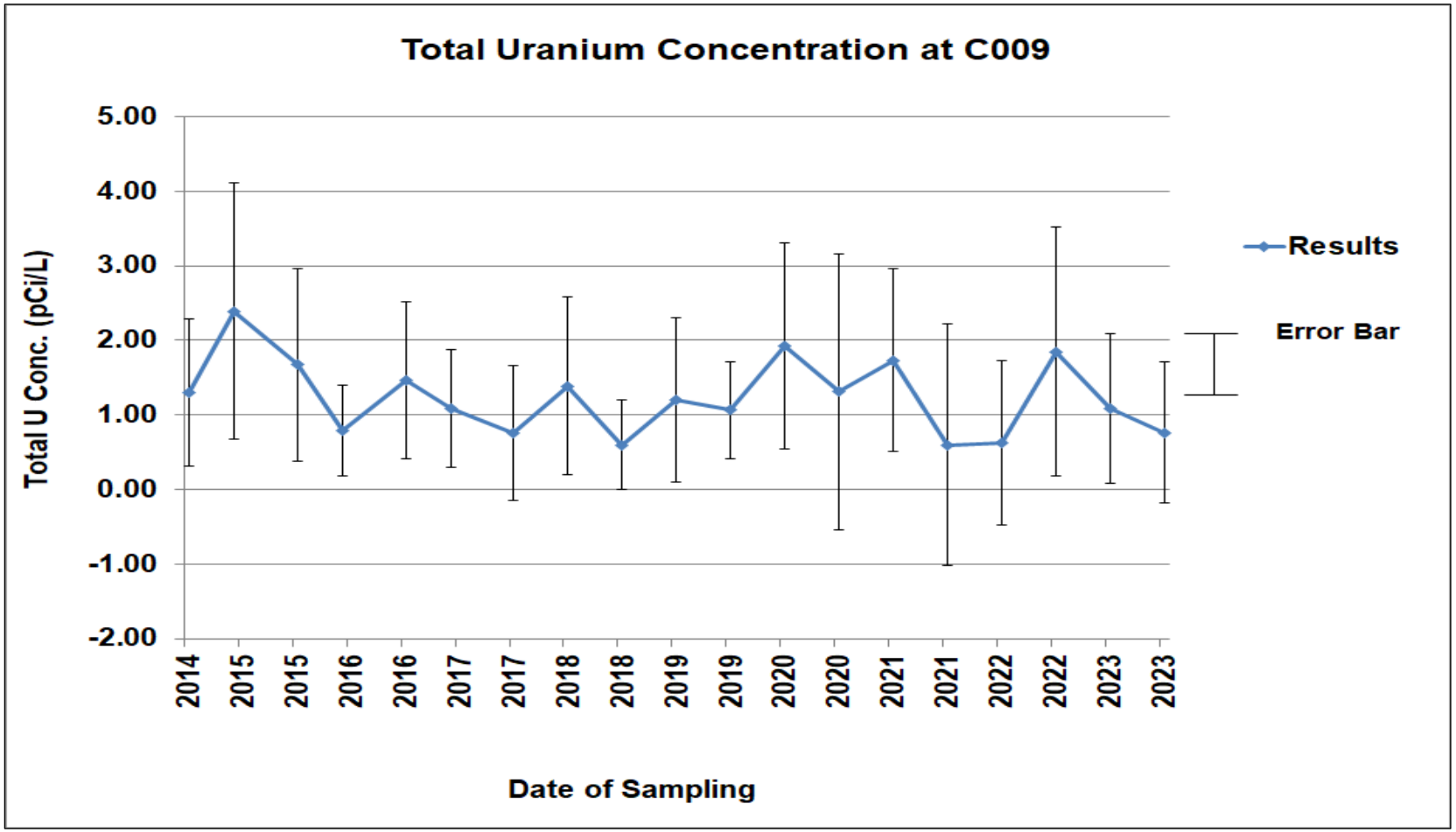

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Figure 3-3. Total U Concentrations in Surface Water Versus Sampling Date (Continued)

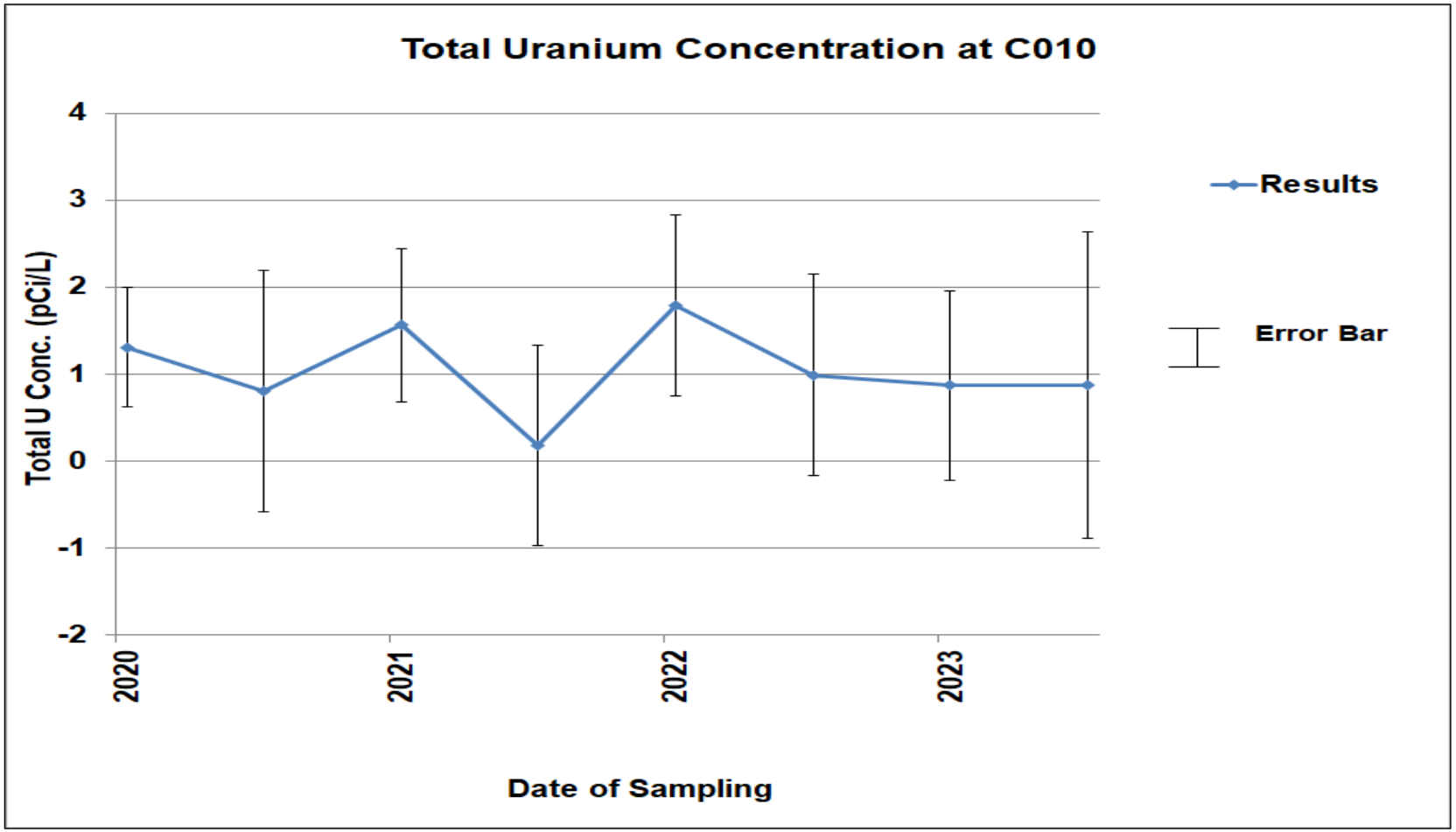

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Figure 3-3. Total U Concentrations in Surface Water Versus Sampling Date (Continued)

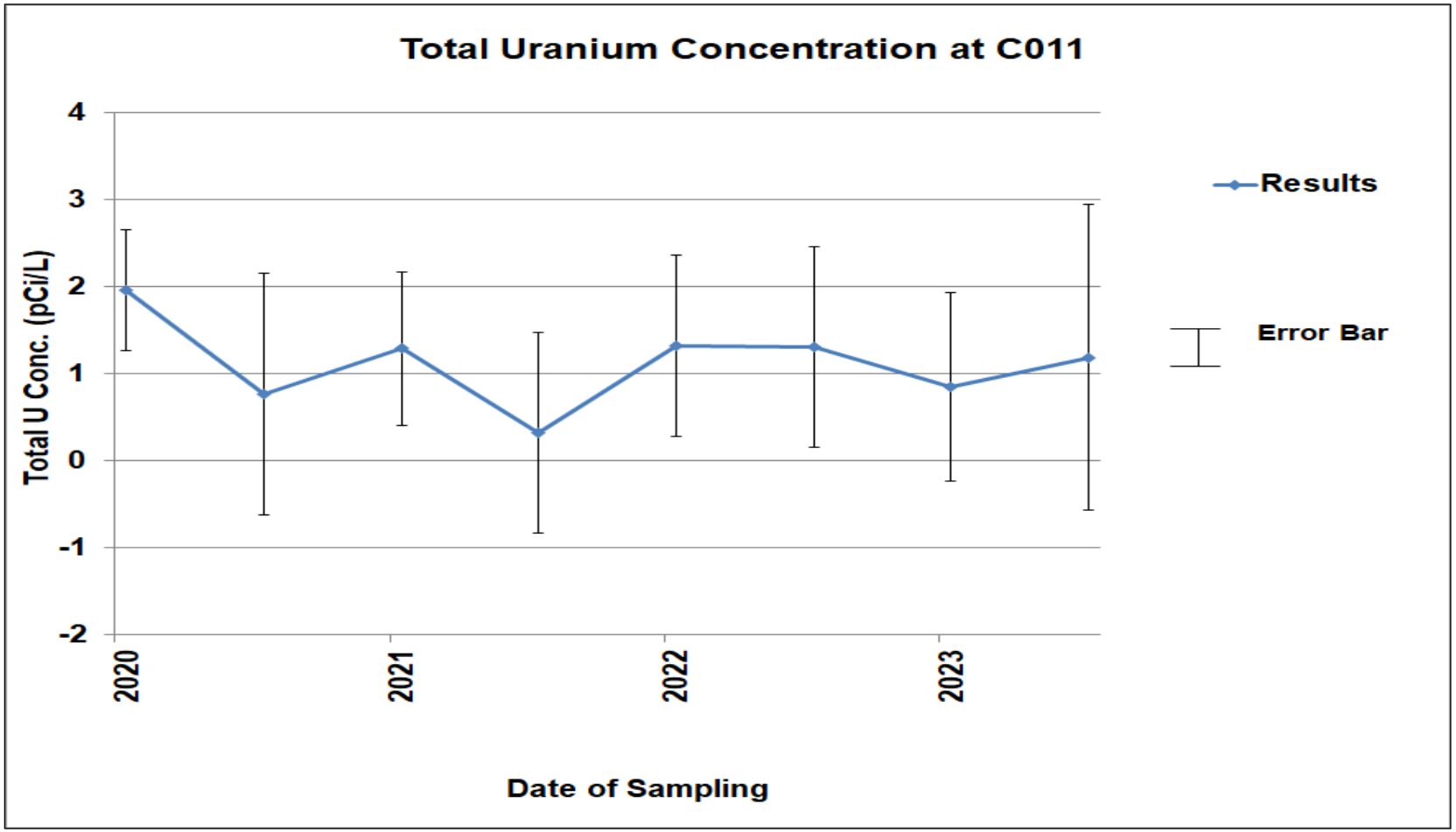

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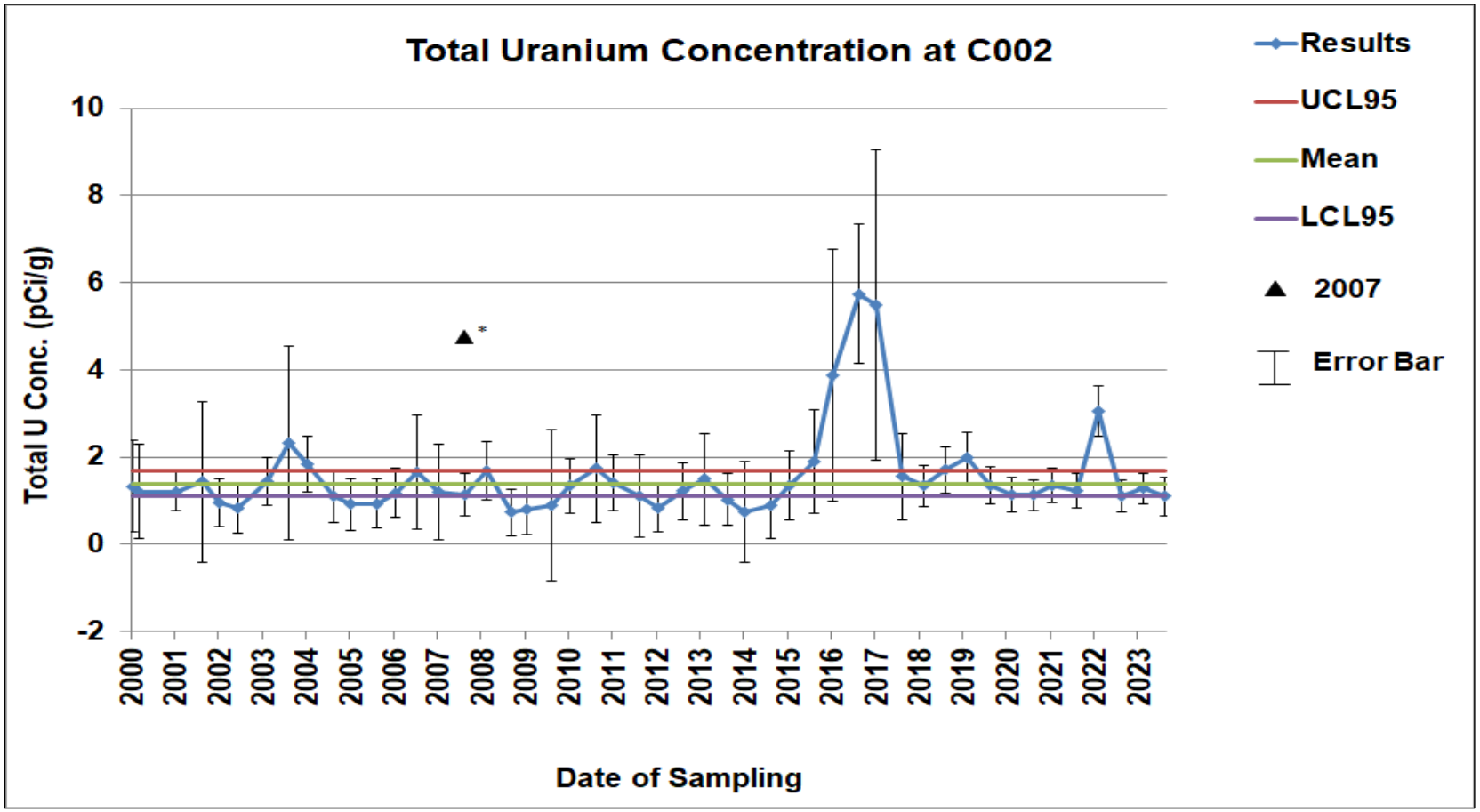
Figure 3-3. Total U Concentrations in Surface Water Versus Sampling Date (Continued)



Notes:
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* The October 2007 value was incorrectly graphed in previous reports due to the alpha and gamma results being added together, artificially increasing the value. The charts in this figure have been corrected.

Figure 3-4. Total U Concentrations in Sediment Versus Sampling Date

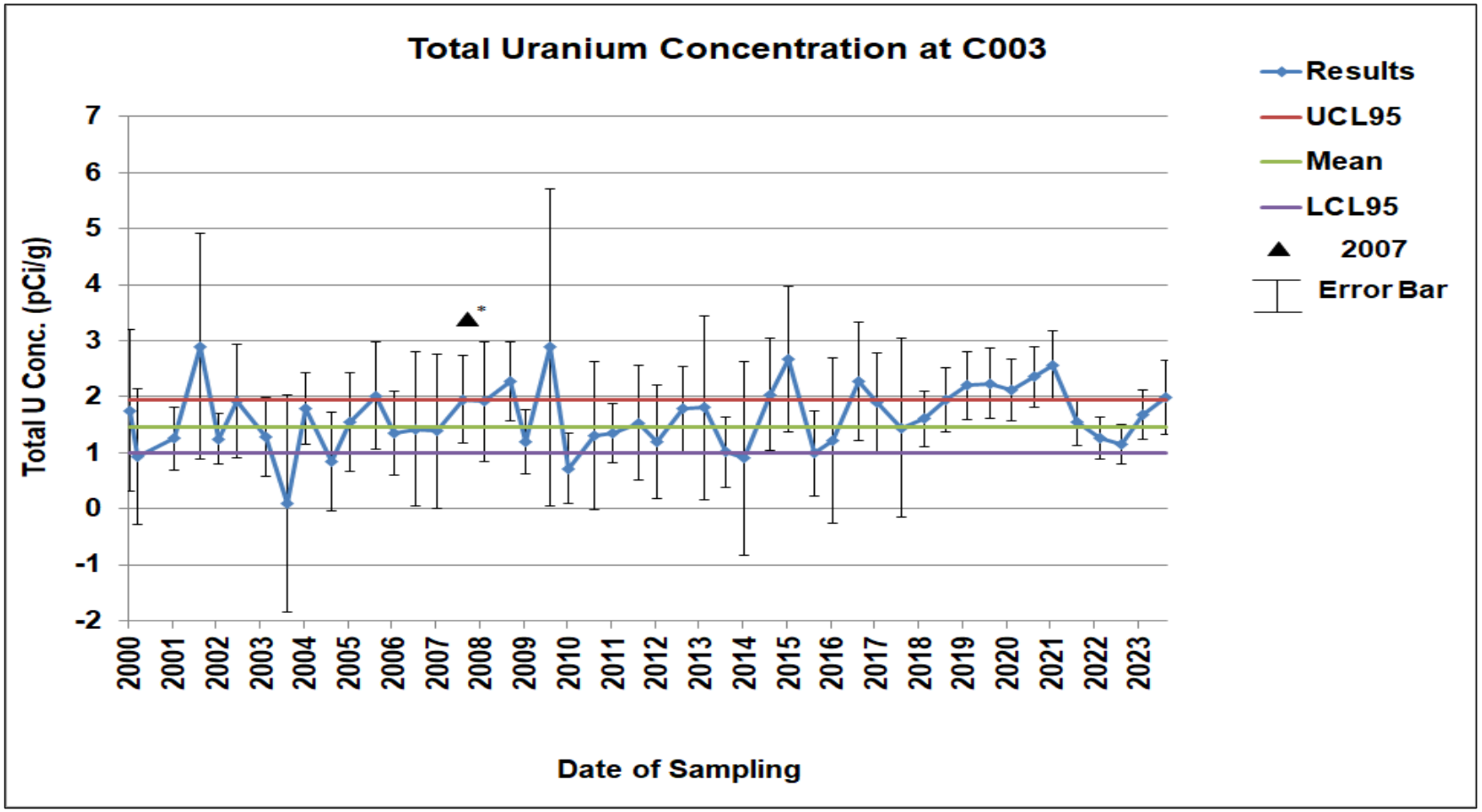

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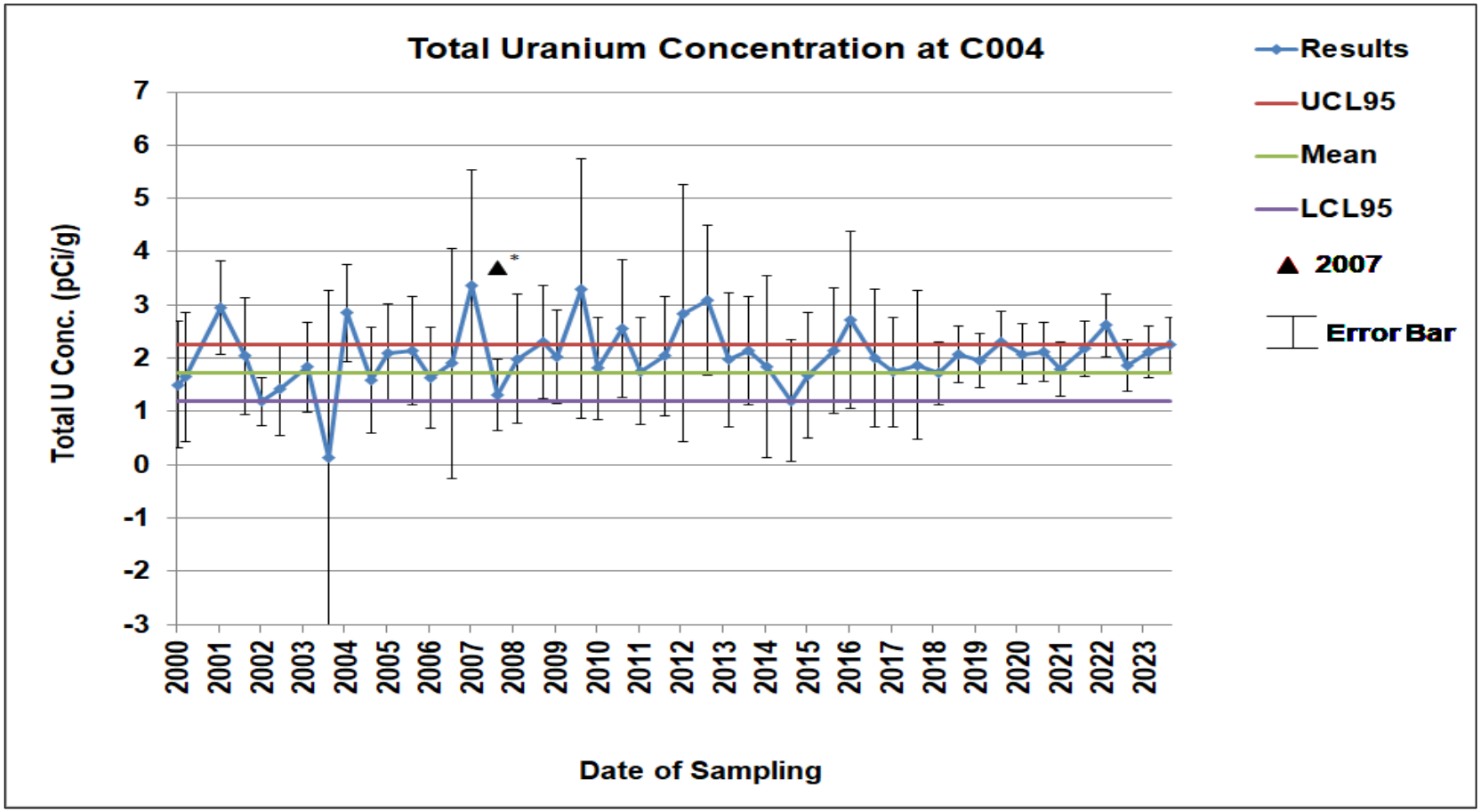
Figure 3-4. Total U Concentrations in Sediment Versus Sampling Date (Continued)



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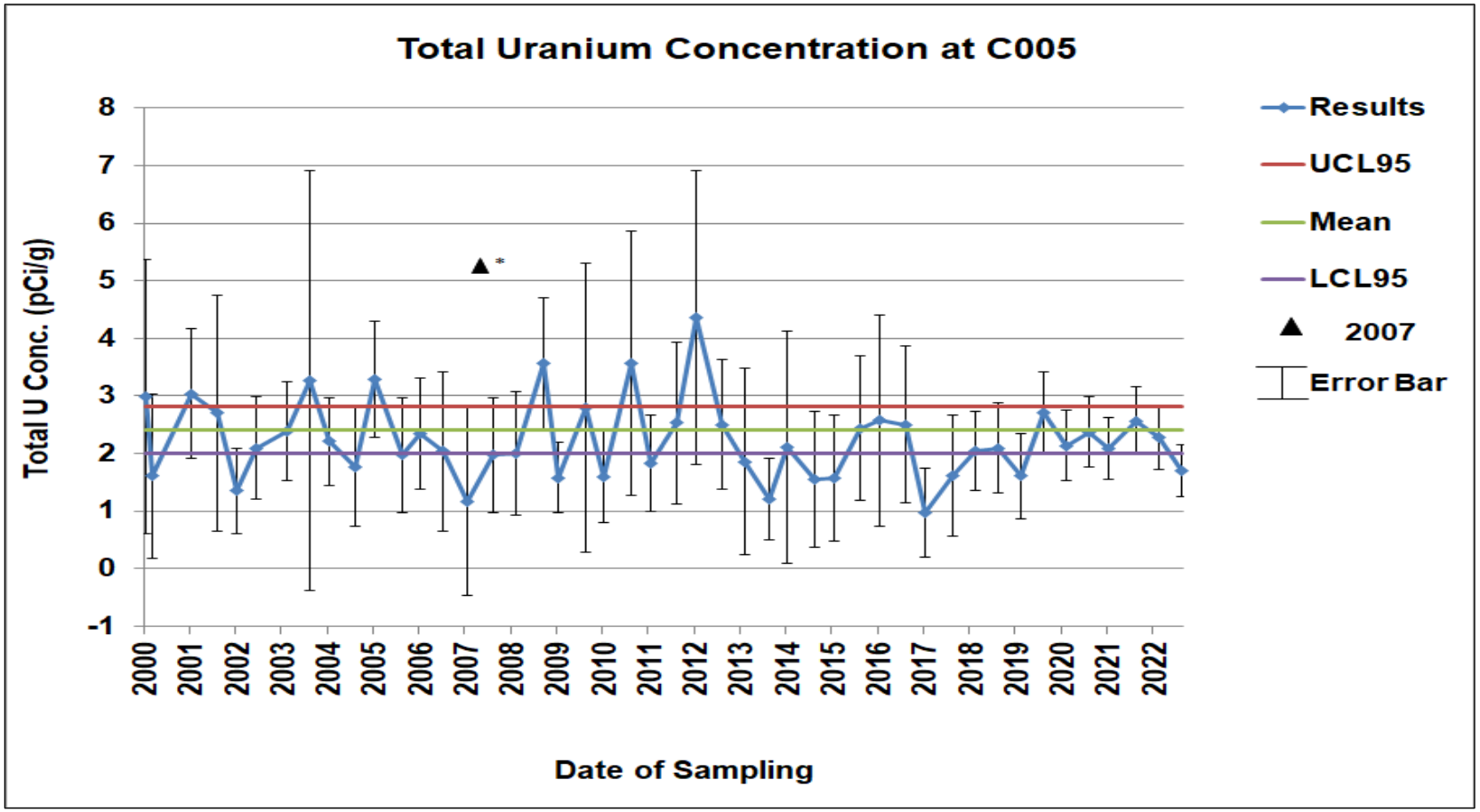

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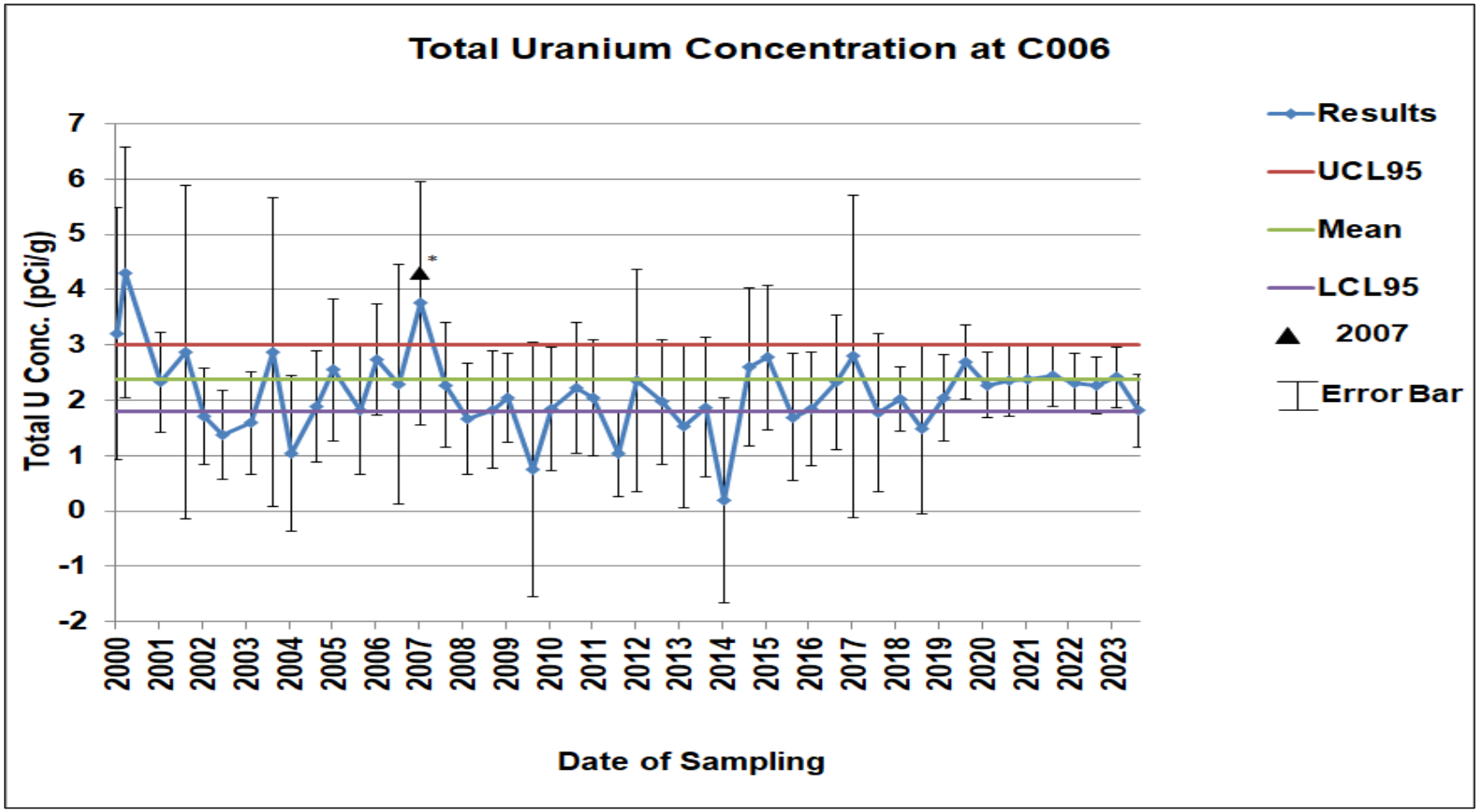

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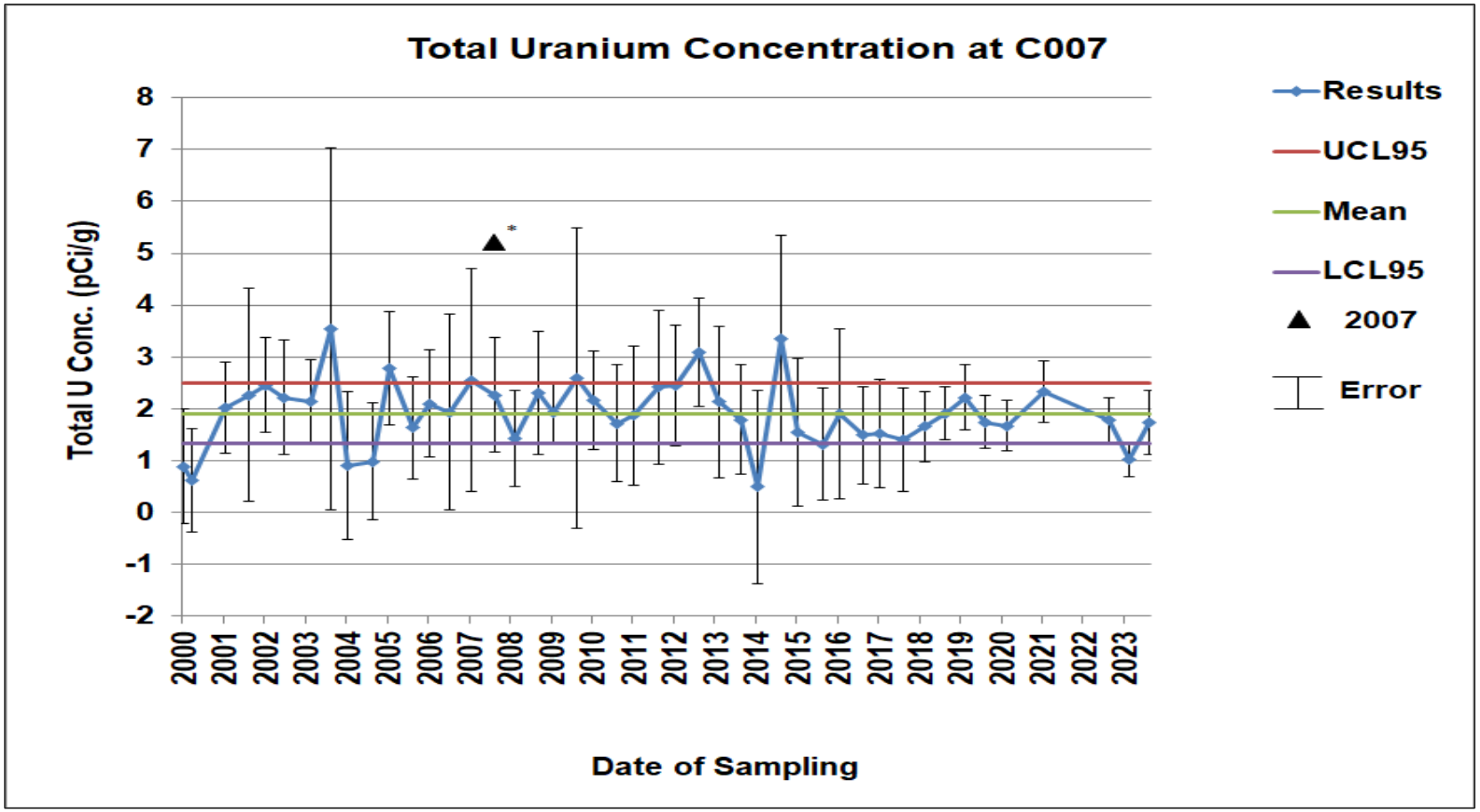
Figure 3-4. Total U Concentrations in Sediment Versus Sampling Date (Continued)



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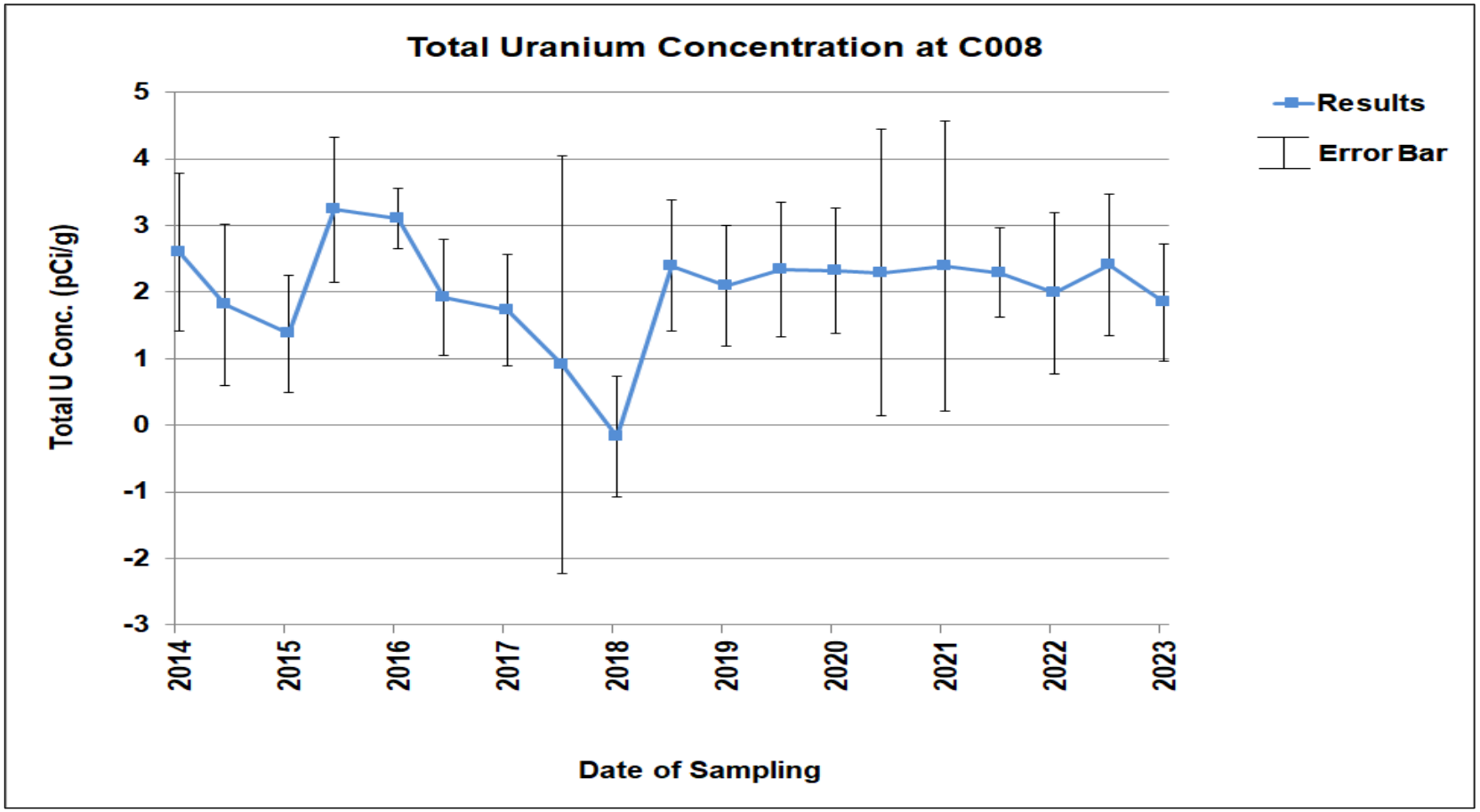

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Figure 3-4. Total U Concentrations in Sediment Versus Sampling Date (Continued)

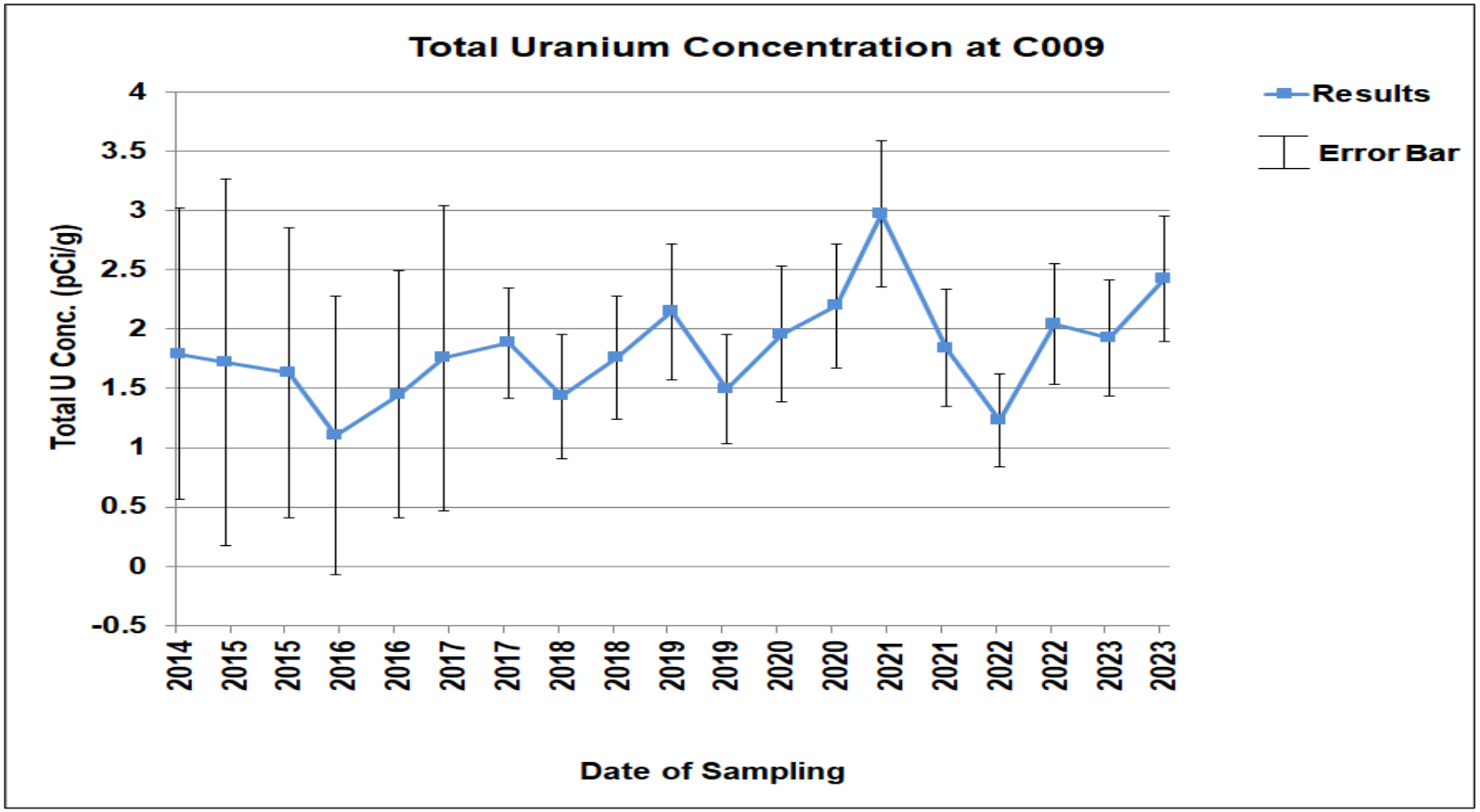

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Figure 3-4. Total U Concentrations in Sediment Versus Sampling Date (Continued)

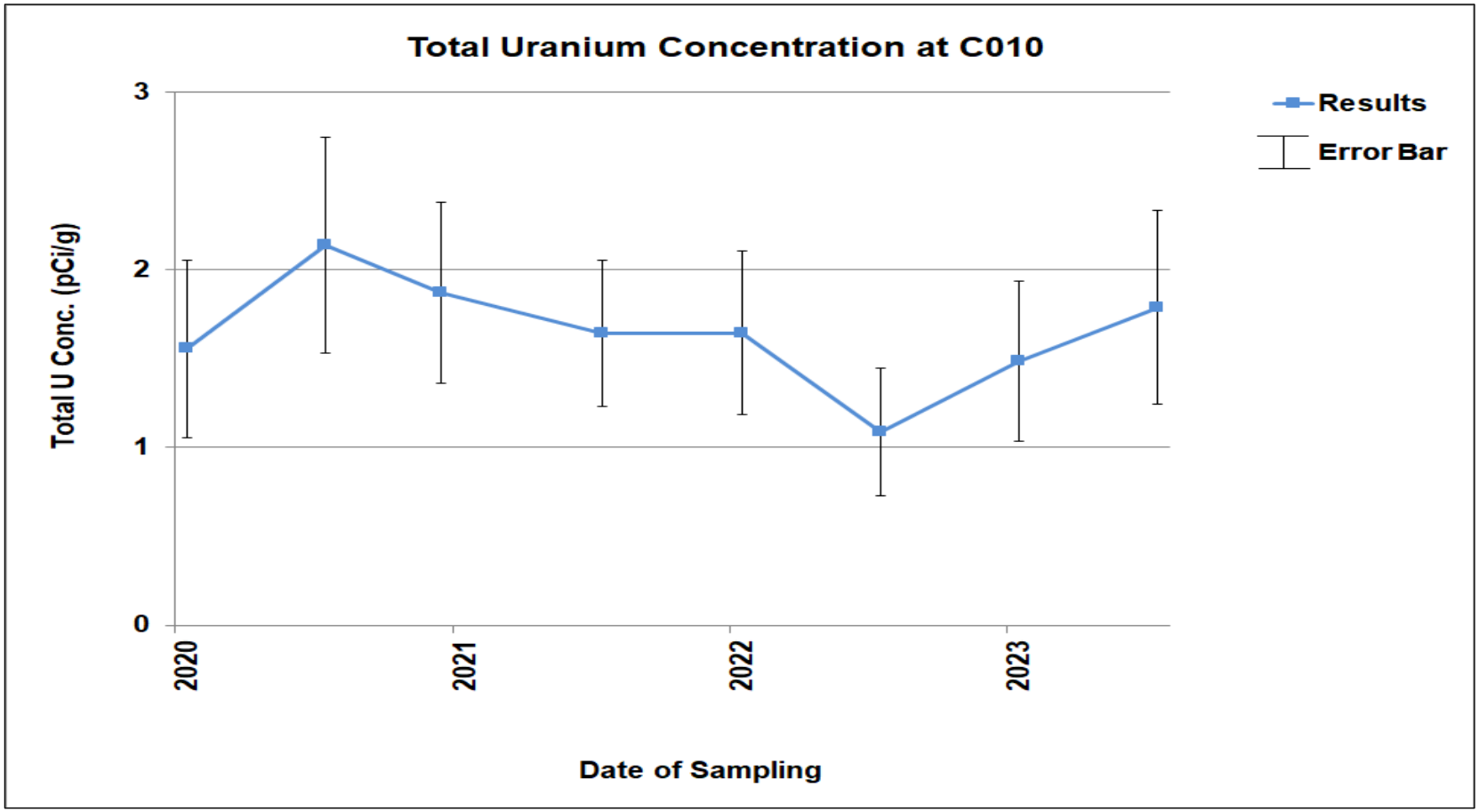

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Figure 3-4. Total U Concentrations in Sediment Versus Sampling Date (Continued)

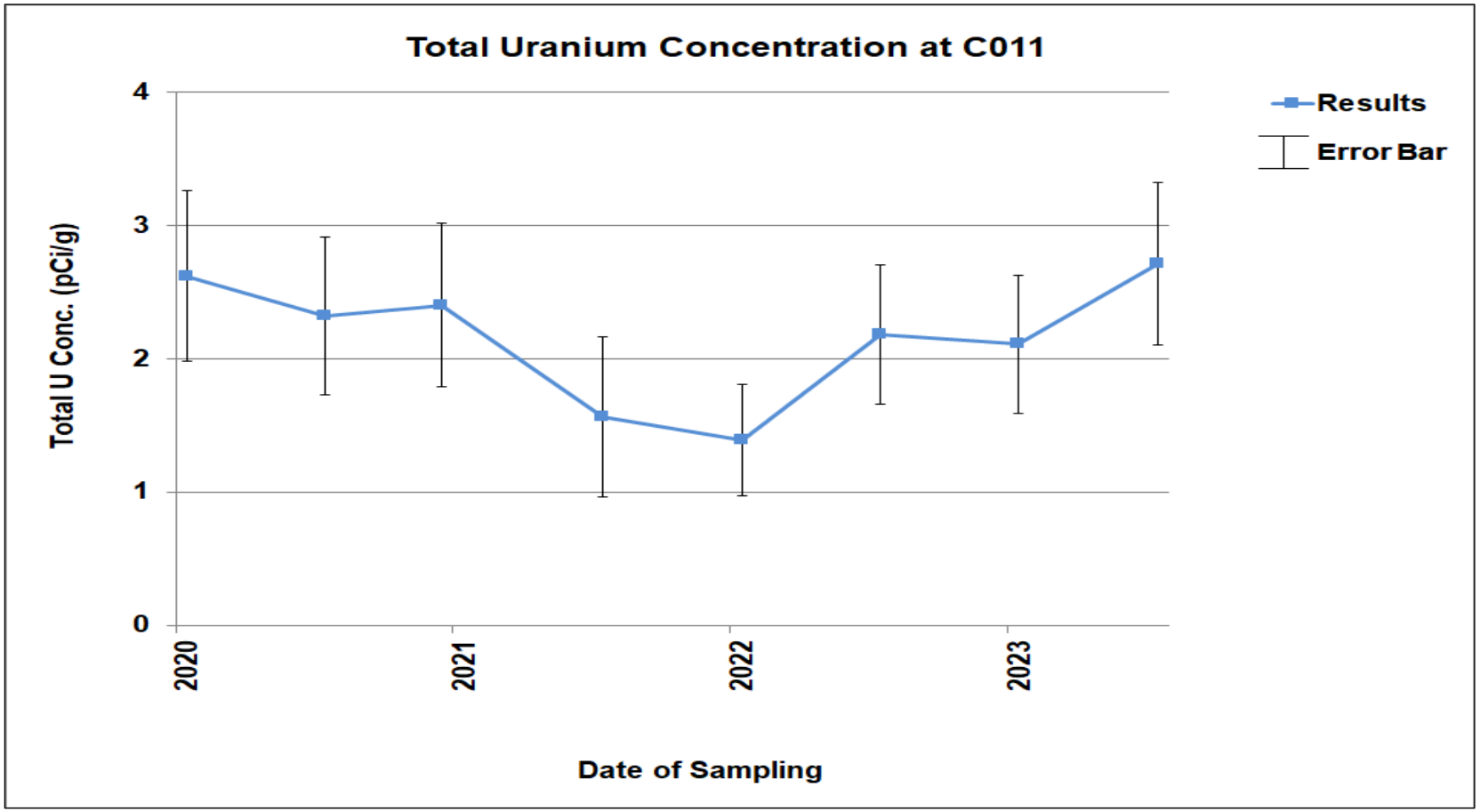

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Figure 3-4. Total U Concentrations in Sediment Versus Sampling Date (Continued)

Zone	Period	Epoch	Stratigraphy	Thickness (ft.)	Description
Hydrostratigraphic zone (HZ)-A	Quaternary	Holocene	FILL/TOPSOIL	0-14	**UNIT 1** Fill - Sand, silt, clay, concrete, rubble. Topsoil - Organic silts, clayey silts, wood, fine sand.
		Pleistocene	LOESS (CLAYEY SILT)	11-32	**UNIT 2** Clayey silts, fine sands, commonly mottled with iron oxide staining. Scattered roots and organic material, and a few fossils.
			GLACIOLACUSTRINE SERIES: SILTY CLAY	19-75 (3) 9-27 (3T)	**UNIT 3** Silty clay with scattered organic blebs and peat stringers. Moderate plasticity. Moist to saturated (3T).
Hydrostratigraphic zone (HZ)-B			VARVED CLAY	0-8	Alternating layers of dark and light clay as much as 1/16 inch thick (3M).
			CLAY	0-26	Dense, stiff, moist, highly plastic clay (3M).
Hydrostratigraphic zone (HZ)-C			SILTY CLAY	10-29	Similar to upper silty clay. Probable unconformable contact with highly plastic clay (3B).
			BASAL CLAYEY AND SANDY GRAVEL	0-6	**UNIT 4** Glacial clayey gravels, sands, and sandy gravels. Mostly chert.
Hydrostratigraphic zone (HZ)-D	Pennsylvanian		CHEROKEE (?) GROUP (UNDIFFERENTIATED)	0-35	**UNIT 5** BEDROCK: Interbedded silty clay/shale, lignite/coal, sandstone, and siltstone. Erosionally truncated by glaciolacustrine sequences. (Absent at the HISS).
Hydrostratigraphic zone (HZ)-E	Mississippian		STE. GENEVIEVE ST. LOUIS LIMESTONES	10+	**UNIT 6** BEDROCK: Hard, white to olive, well cemented, sandy limestone with interbedded shale laminations.

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North St. Louis County Sites
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AUTHOR	REVISION	DATE	NOT TO SCALE
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Figure 4-1. Generalized Stratigraphic Column

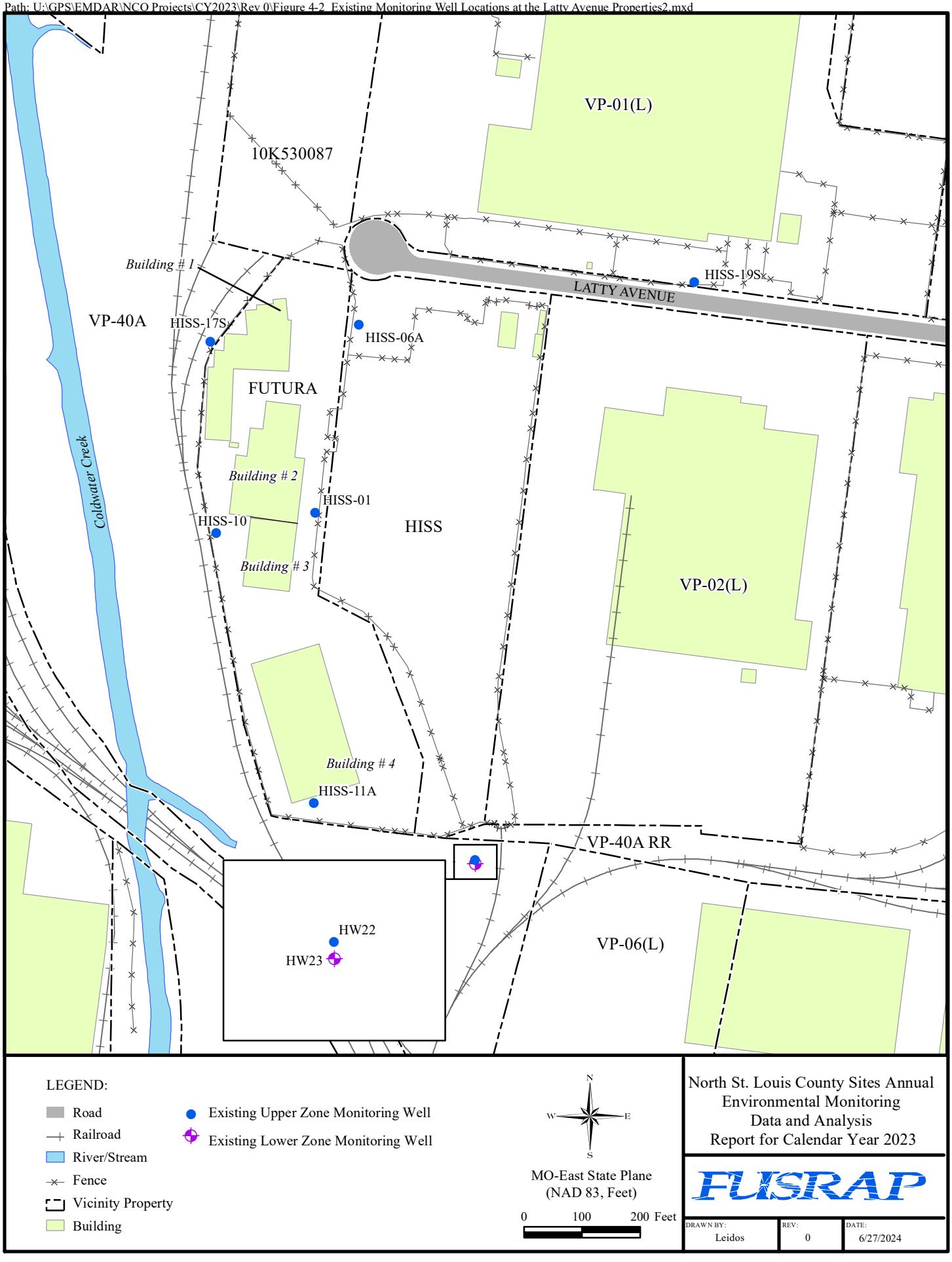
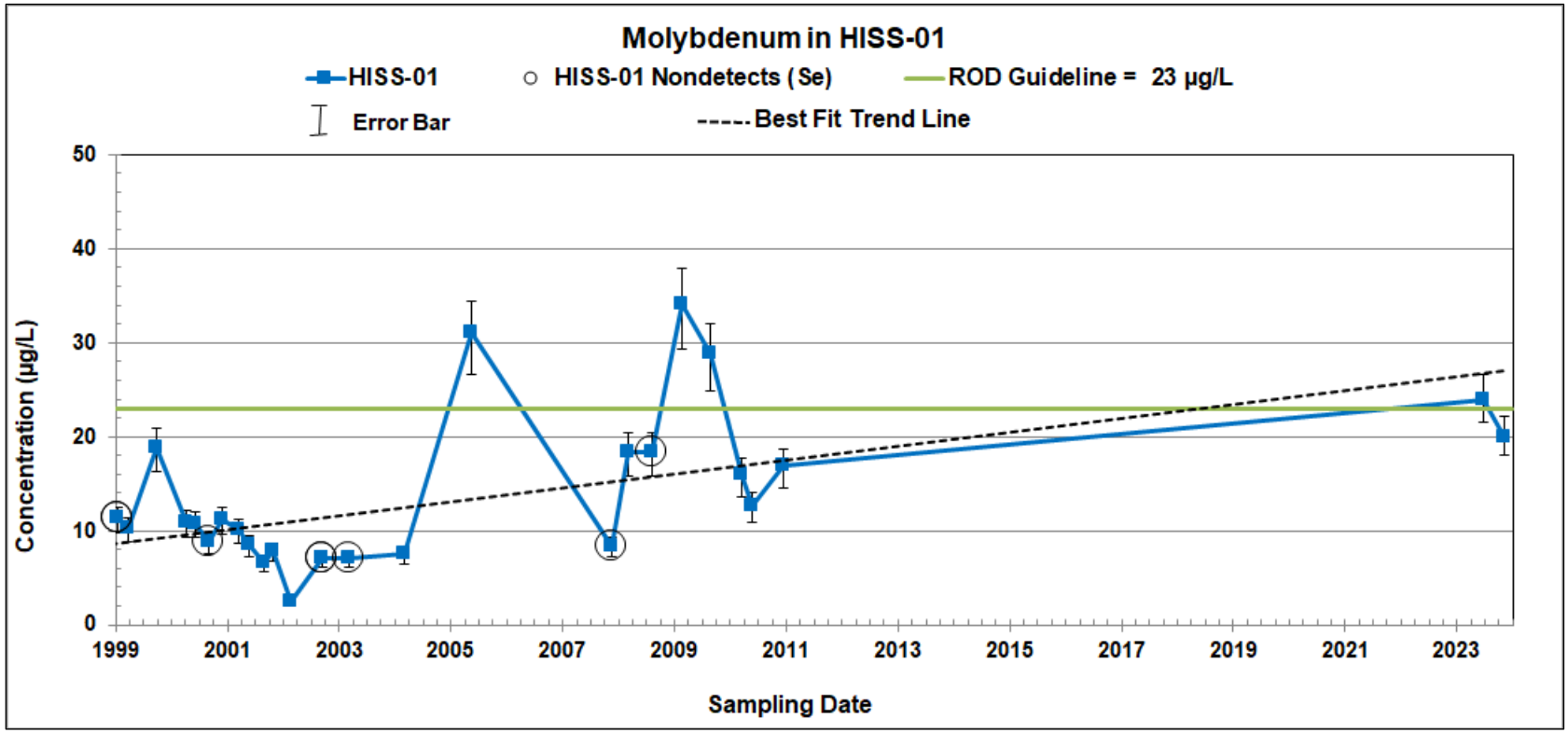
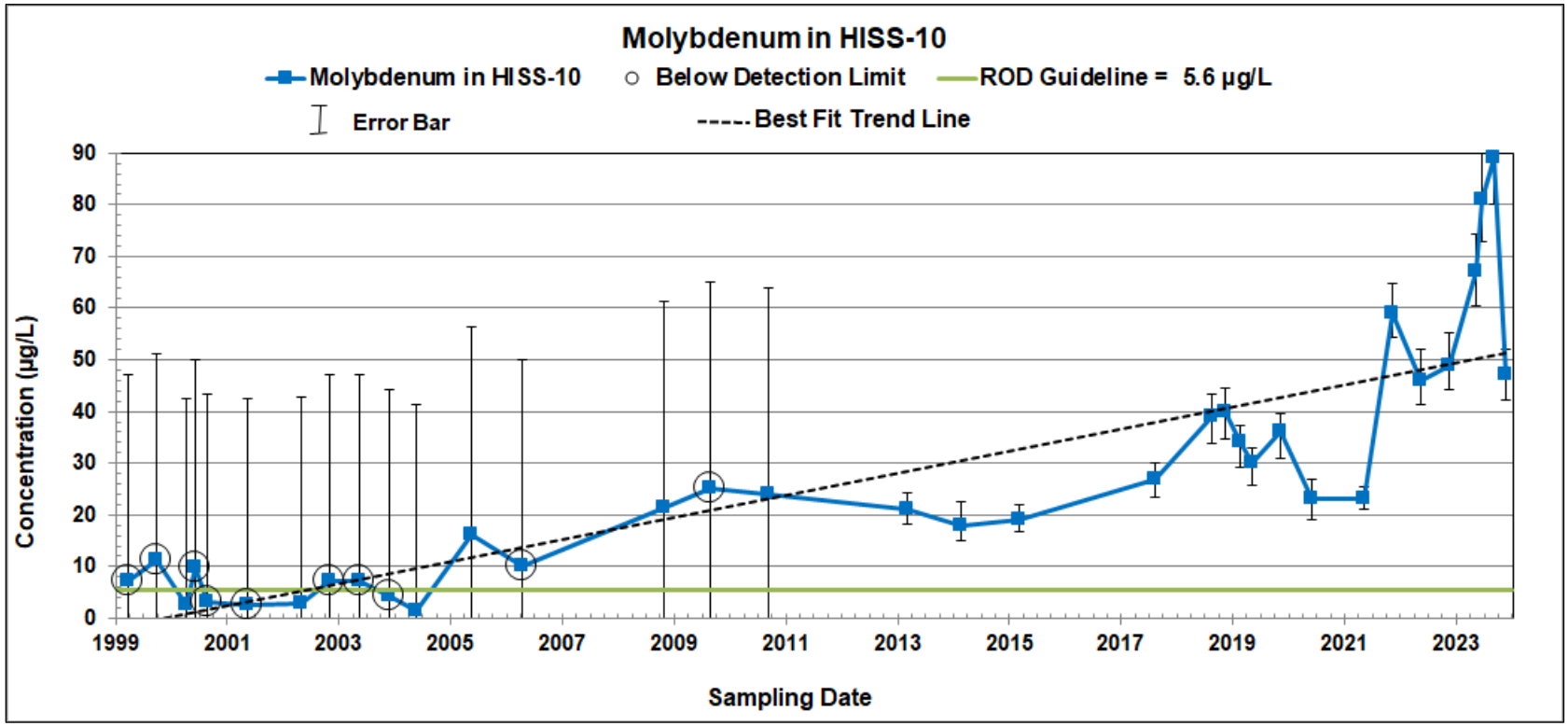


Figure 4-2. Existing Monitoring Well Locations at the Latty Avenue Properties



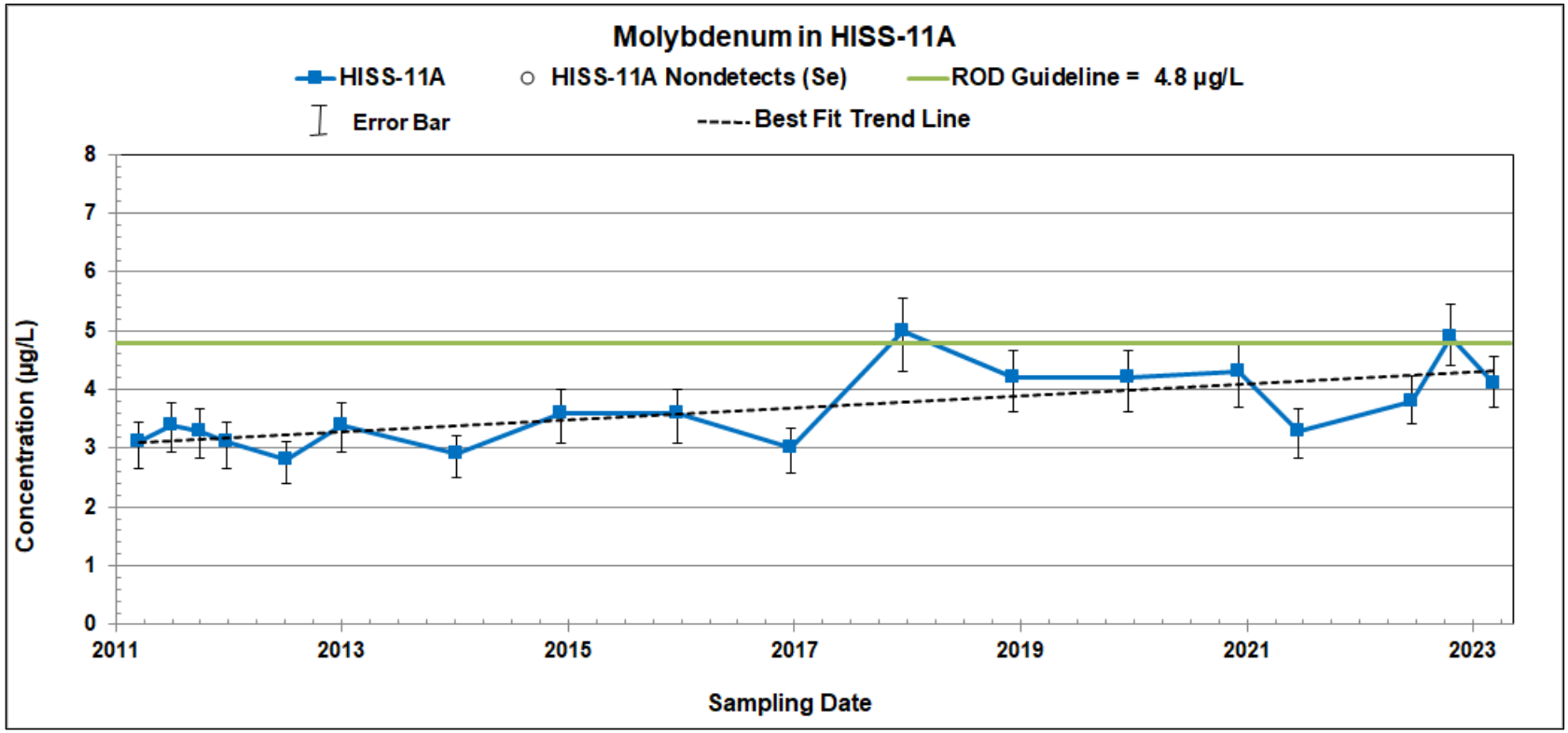
Notes:
For molybdenum results less than 3 times the RL, the error bar represents ± RL. The RL for molybdenum changed from 40 µg/L to 5 µg/L in CY 2011.
For molybdenum results exceeding 3 times the RL, the error bar represents the upper and lower control limits on the control spike samples.
Molybdenum error bars for 2003 and earlier are based on laboratory control limits for 2003. Error bars for 2004 and later are based on laboratory control limits reported for the respective years.

Figure 4-3. Time-Versus-Concentration Plots for Molybdenum in Groundwater at HISS-01, HISS-10, and HISS-11A; Selenium in Groundwater at HISS-10 and HW22; and Total U in Groundwater at HISS-01 and HISS-10



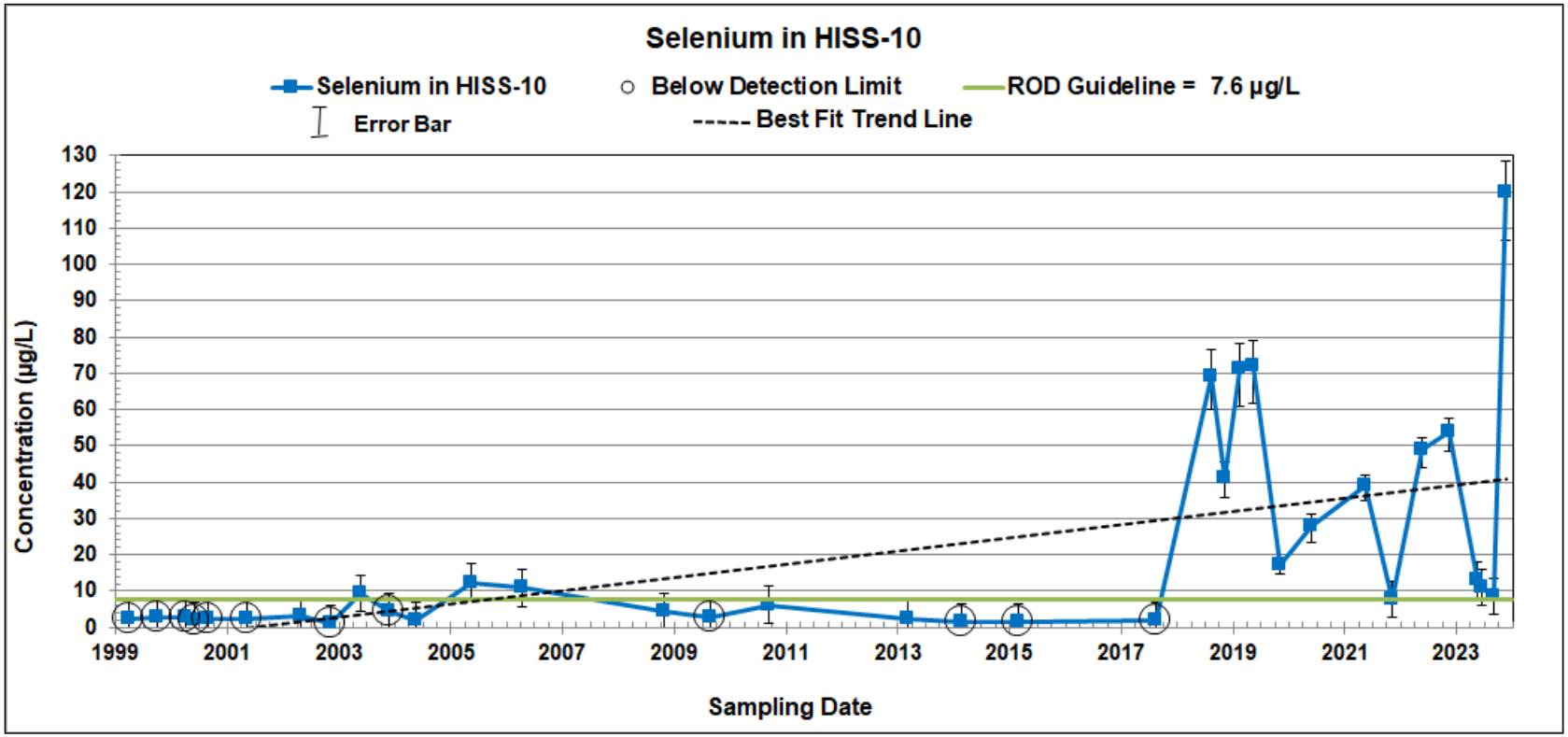
Notes:
For molybdenum results less than 3 times the reporting limit (RL), the error bar represents ± RL. The RL for molybdenum changed from 40 µg/L to 5 µg/L in CY 2011.
For molybdenum results exceeding 3 times the RL, the error bar represents the upper and lower control limits on the control spike samples.
Molybdenum error bars for 2003 and earlier are based on laboratory control limits for 2003. Error bars for 2004 and later are based on laboratory control limits reported for the respective years.

Figure 4-3. Time-Versus-Concentration Plots for Molybdenum in Groundwater at HISS-01, HISS-10, and HISS-11A; Selenium in Groundwater at HISS-10 and HW22; and Total U in Groundwater at HISS-01 and HISS-10 (Continued)



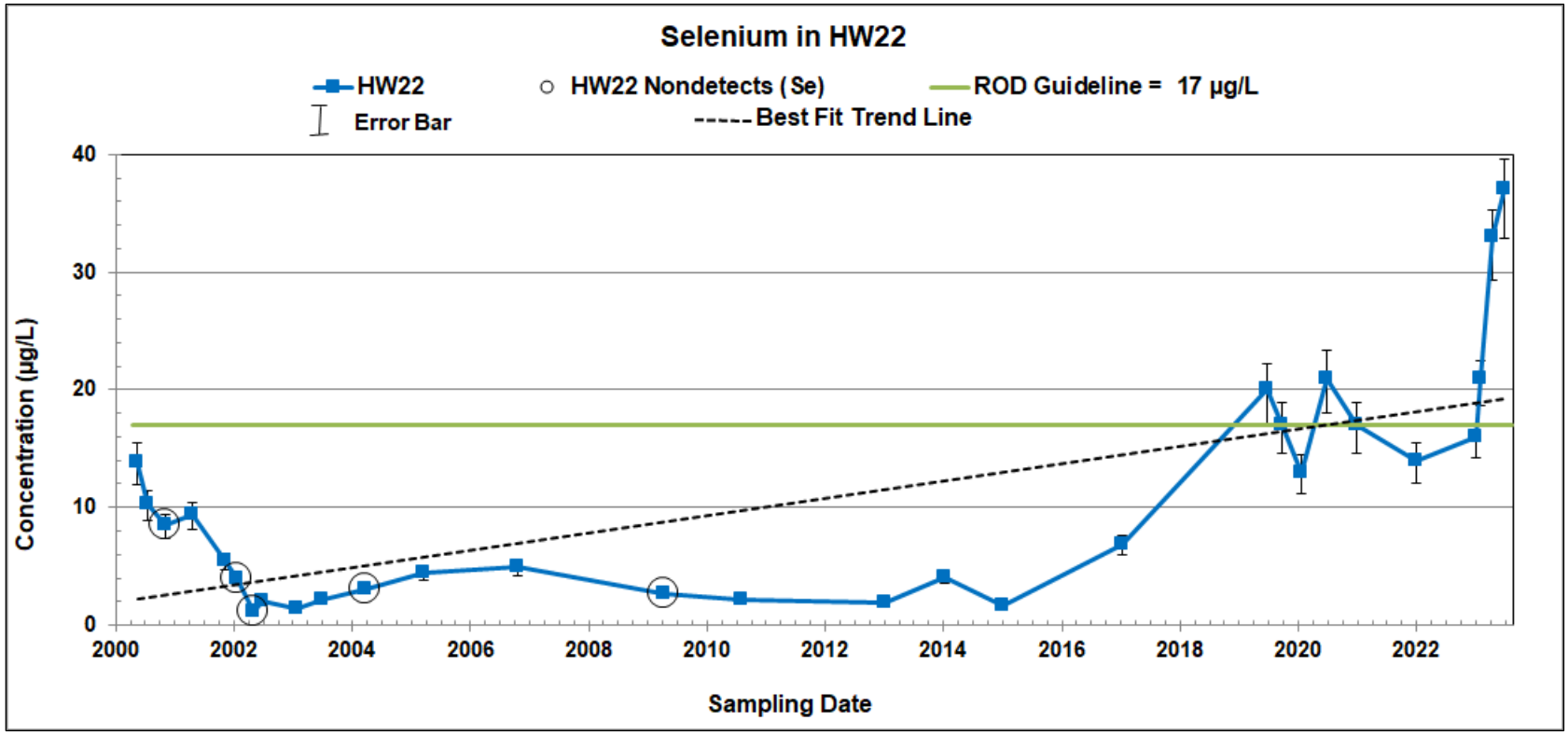
Notes:
For molybdenum results less than 3 times the RL, the error bar represents ± RL. The RL for molybdenum changed from 40 µg/L to 5 µg/L in CY 2011.
For molybdenum results exceeding 3 times the RL, the error bar represents the upper and lower control limits on the control spike samples.
Molybdenum error bars for 2003 and earlier are based on laboratory control limits for 2003. Error bars for 2004 and later are based on laboratory control limits reported for the respective years.

Figure 4-3. Time-Versus-Concentration Plots for Molybdenum in Groundwater at HISS-01, HISS-10, and HISS-11A; Selenium in Groundwater at HISS-10 and HW22; and Total U in Groundwater at HISS-01 and HISS-10 (Continued)



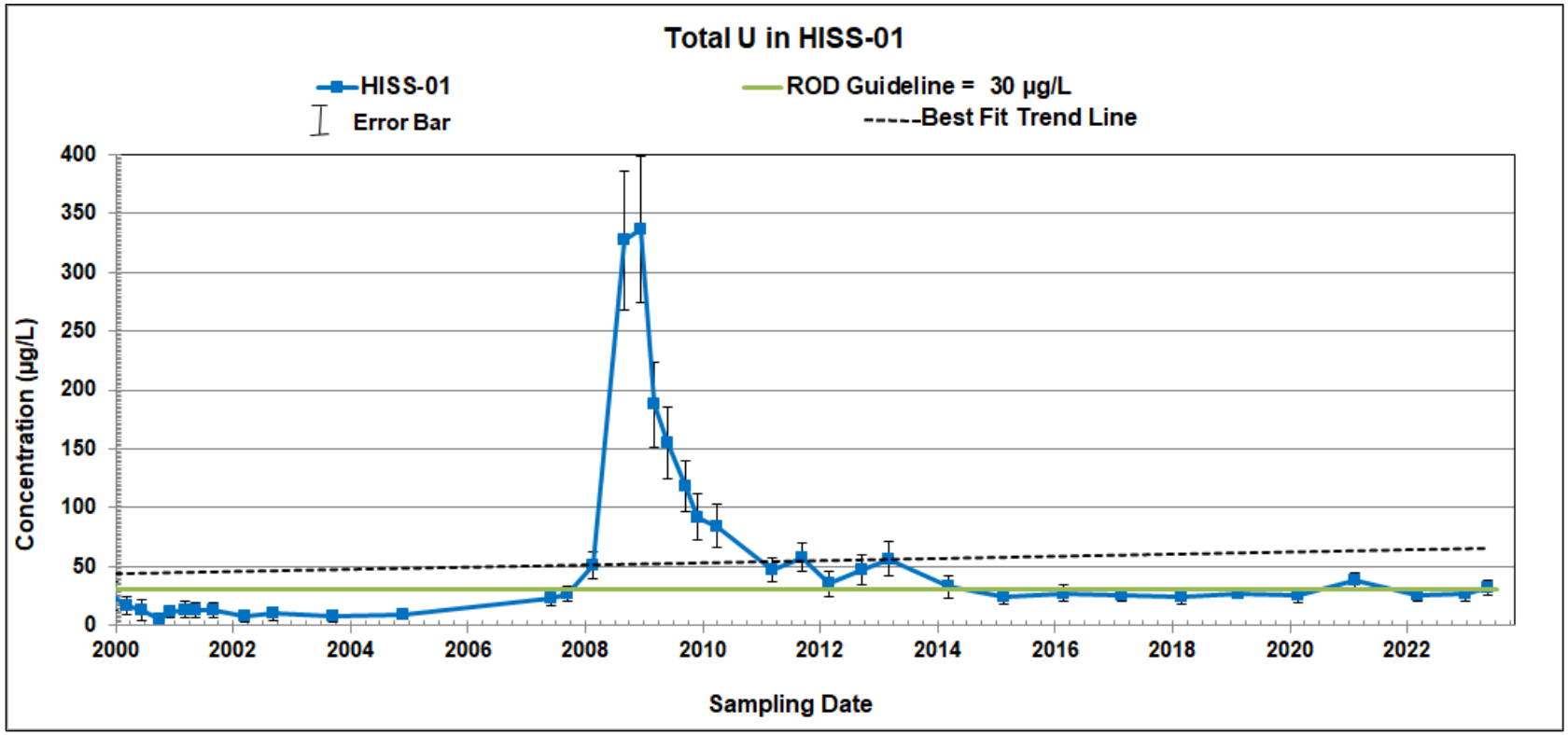
Notes:
For selenium results less than 3 times the RL, the error bar represents ± RL of 5 µg/L.
For selenium results exceeding 3 times the RL, the error bar represents the upper and lower control limits on the control spike samples.
Selenium error bars for 2003 and earlier are based on laboratory control limits for 2003. Error bars for 2004 and later are based on laboratory control limits reported for the respective years.

Figure 4-3. Time-Versus-Concentration Plots for Molybdenum in Groundwater at HISS-01, HISS-10, and HISS-11A; Selenium in Groundwater at HISS-10 and HW22; and Total U in Groundwater at HISS-01 and HISS-10 (Continued)



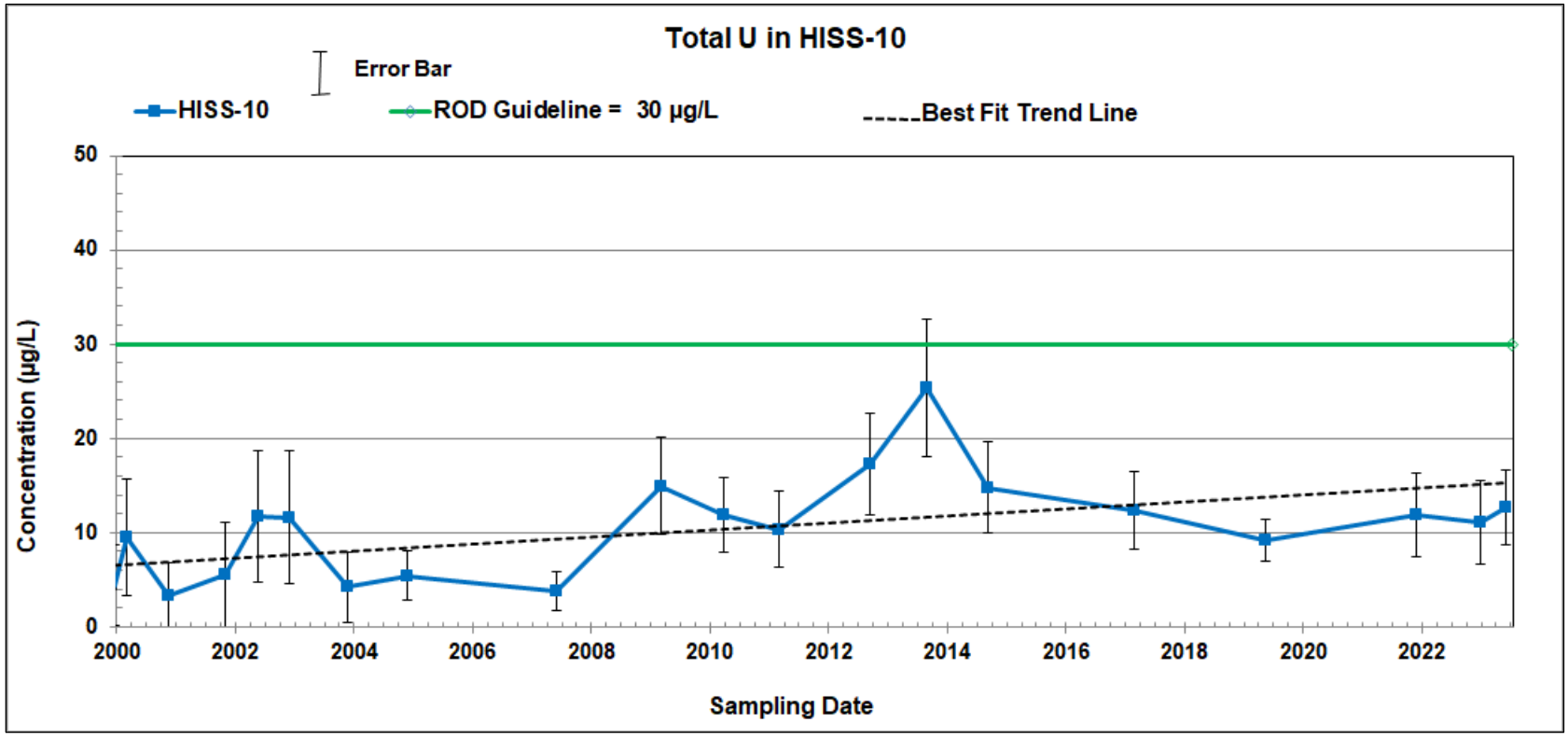
Notes:
For selenium results less than 3 times the RL, the error bar represents ± RL of 5 µg/L.
For selenium results exceeding 3 times the RL, the error bar represents the upper and lower control limits on the control spike samples.
Selenium error bars for 2003 and earlier are based on laboratory control limits for 2003. Error bars for 2004 and later are based on laboratory control limits reported for the respective years.

Figure 4-3. Time-Versus-Concentration Plots for Molybdenum in Groundwater at HISS-01, HISS-10, and HISS-11A; Selenium in Groundwater at HISS-10 and HW22; and Total U in Groundwater at HISS-01 and HISS-10 (Continued)



Notes:
For total U, the error bar represents ± the sum of the measurement errors for U-234, U-235, and U-238, converted to µg/L.

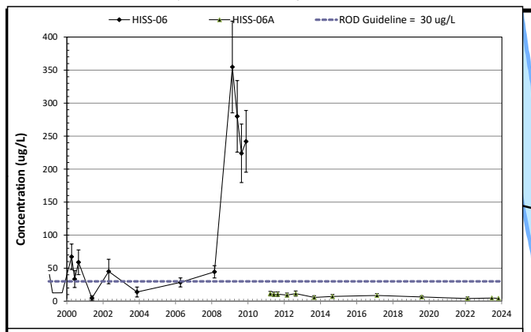
Figure 4-3. Time-Versus-Concentration Plots for Molybdenum in Groundwater at HISS-01, HISS-10, and HISS-11A; Selenium in Groundwater at HISS-10 and HW22; and Total U in Groundwater at HISS-01 and HISS-10 (Continued)

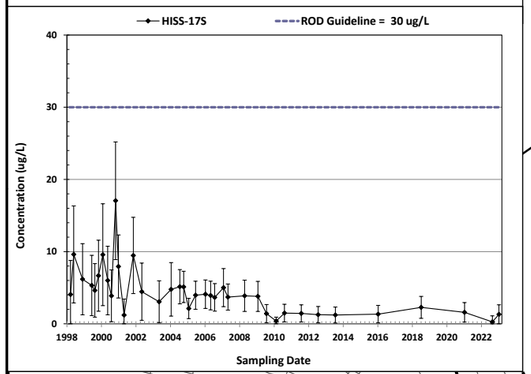


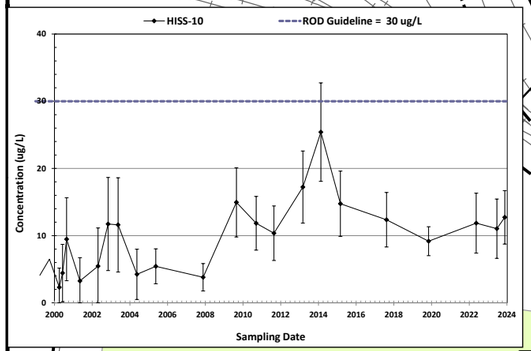
Notes:
For total U, the error bar represents ± the sum of the measurement errors for U-234, U-235, and U-238, converted to µg/L.

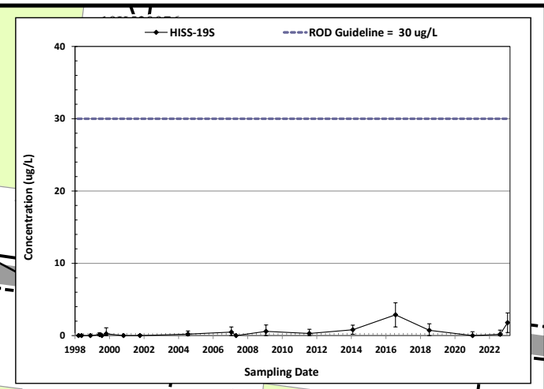
Figure 4-3. Time-Versus-Concentration Plots for Molybdenum in Groundwater at HISS-01, HISS-10, and HISS-11A; Selenium in Groundwater at HISS-10 and HW22; and Total U in Groundwater at HISS-01 and HISS-10 (Continued)

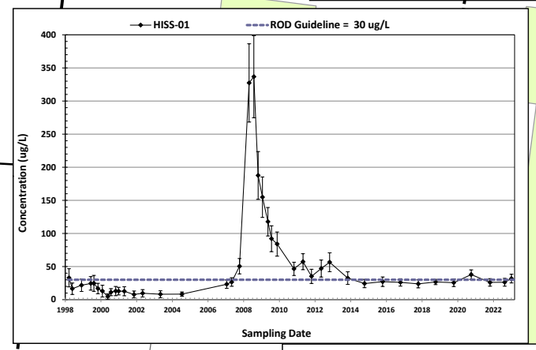
Path: U:\GPS\EMDAR\NCO Projects\CY2023\Rev 0\Figure 4-4 Total U Concentrations in Unfiltered HZ-A Ground Water at the Latty Avenue Properties.mxd

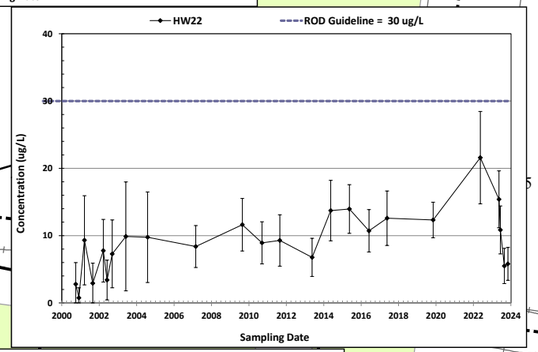


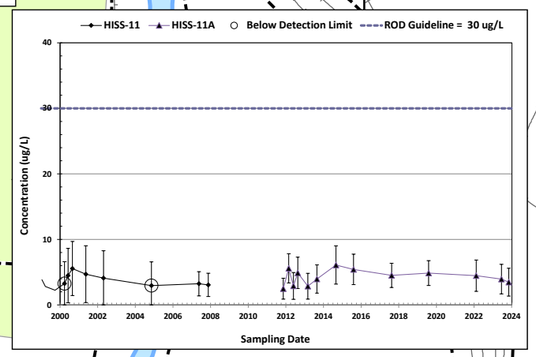


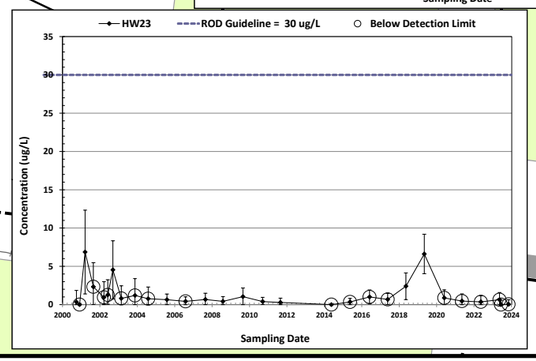












10K530087
VP-01(L)
LATTY AVENUE
HISS Property
HISS-19S
HISS-17S
HISS-06/06A
HISS-01
HISS-10
Futura
Coldwater Creek
VP-04(L)
VP-03(L)
VP-02(L)
HISS-11/11A
HW22
HW23
VP-10(C)
VP-22
VP-23

LEGEND:
- Existing HZ-A Monitoring Well
- Existing HZ-C Monitoring Well
- River/Stream
- Vicinity Property
- Railroad
- Road
- Building
- Error Bars

N
W E
S

MO-East State Plane
(NAD 83, Feet)

0 95 190 Feet

North St. Louis County Sites Annual Environmental Monitoring Data and Analysis Report for Calendar Year 2023

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Figure 4-4. Total U Concentrations in Unfiltered Groundwater at the Latty Avenue Properties

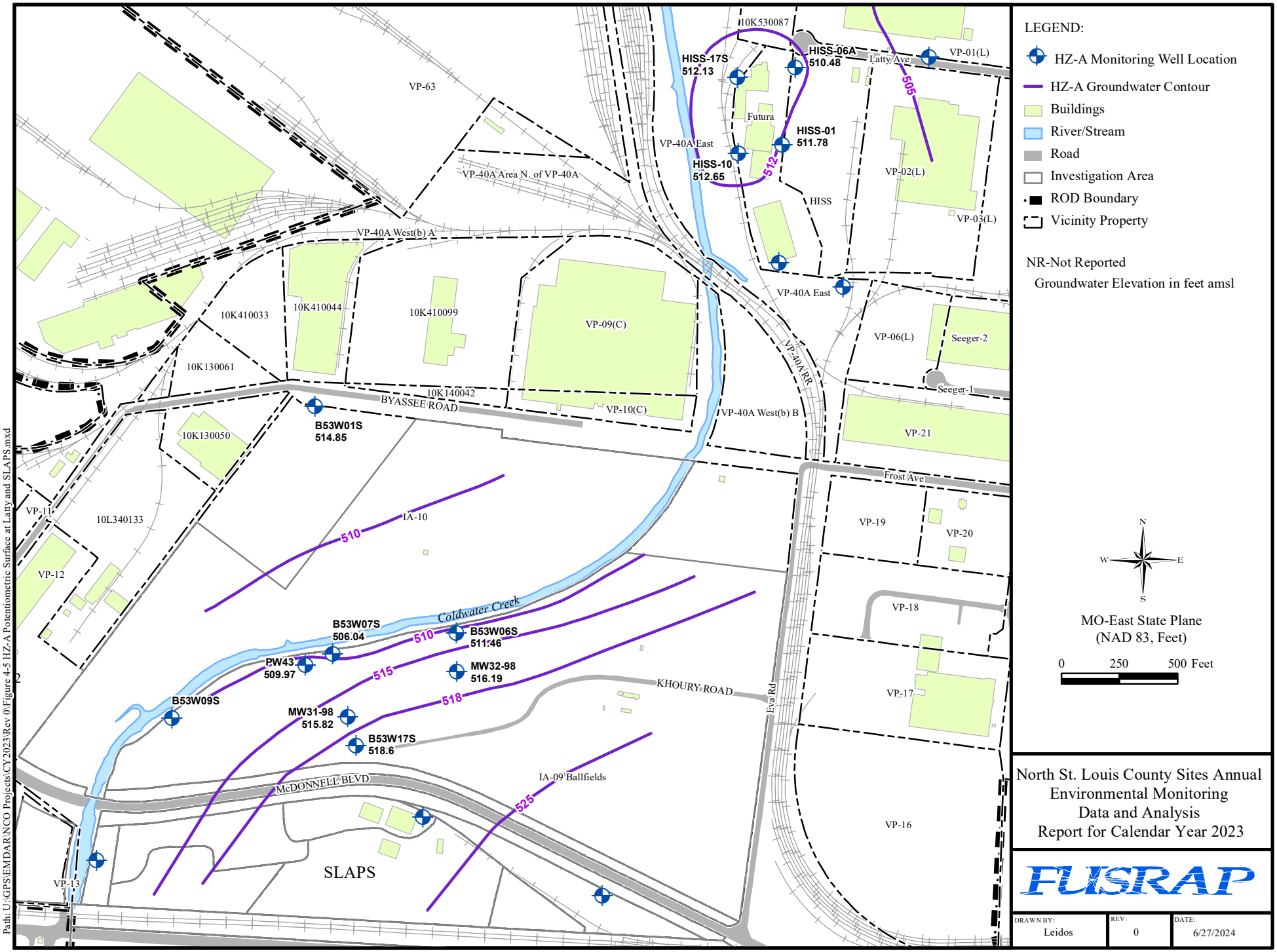


Figure 4-5. HZ-A Potentiometric Surface at the Latty Avenue Properties, the SLAPS, and the SLAPS VPs (May 15, 2023)

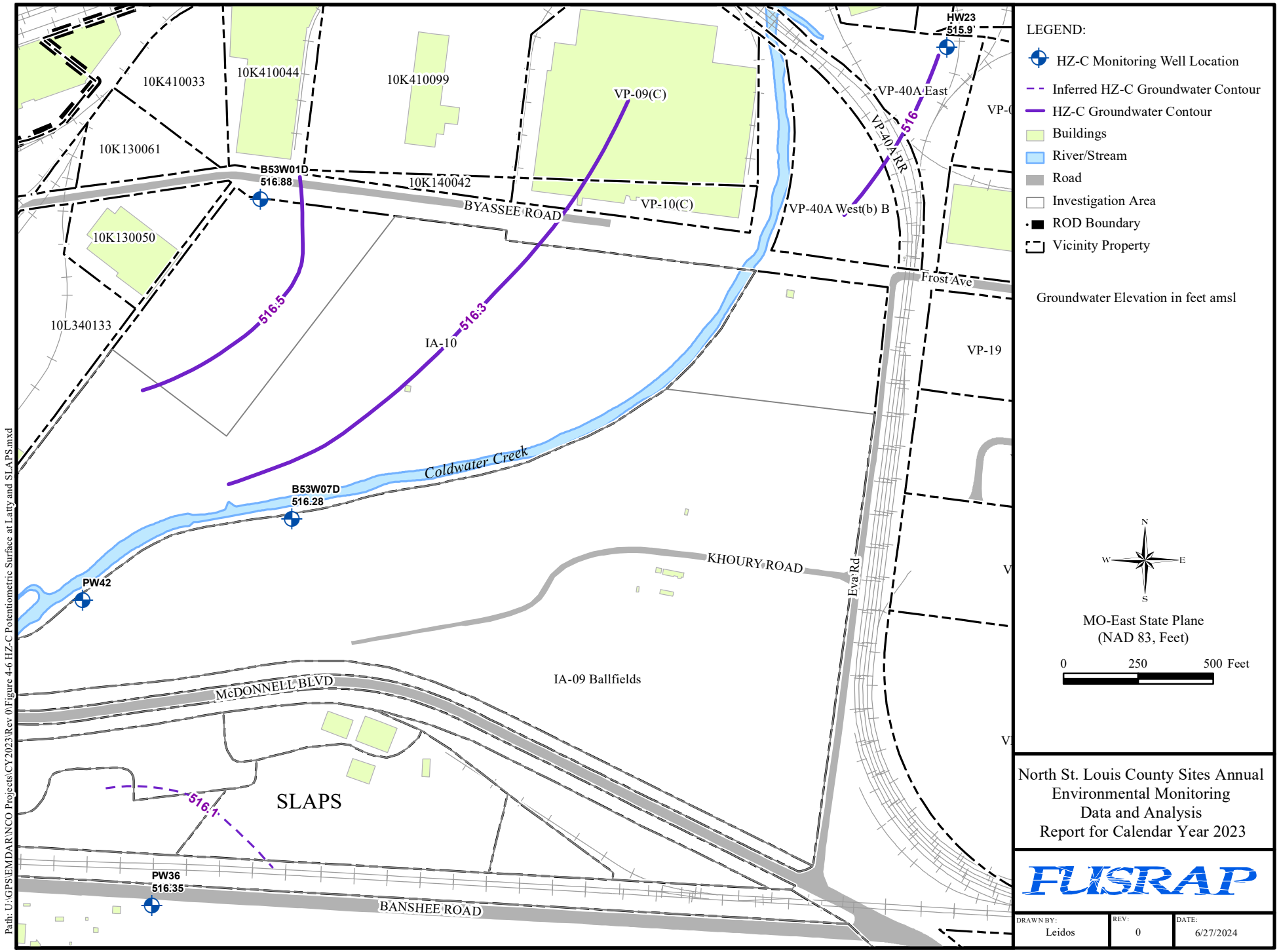


Figure 4-6. HZ-C Potentiometric Surface at the Latty Avenue Properties, the SLAPS, and the SLAPS VPs (May 15, 2023)

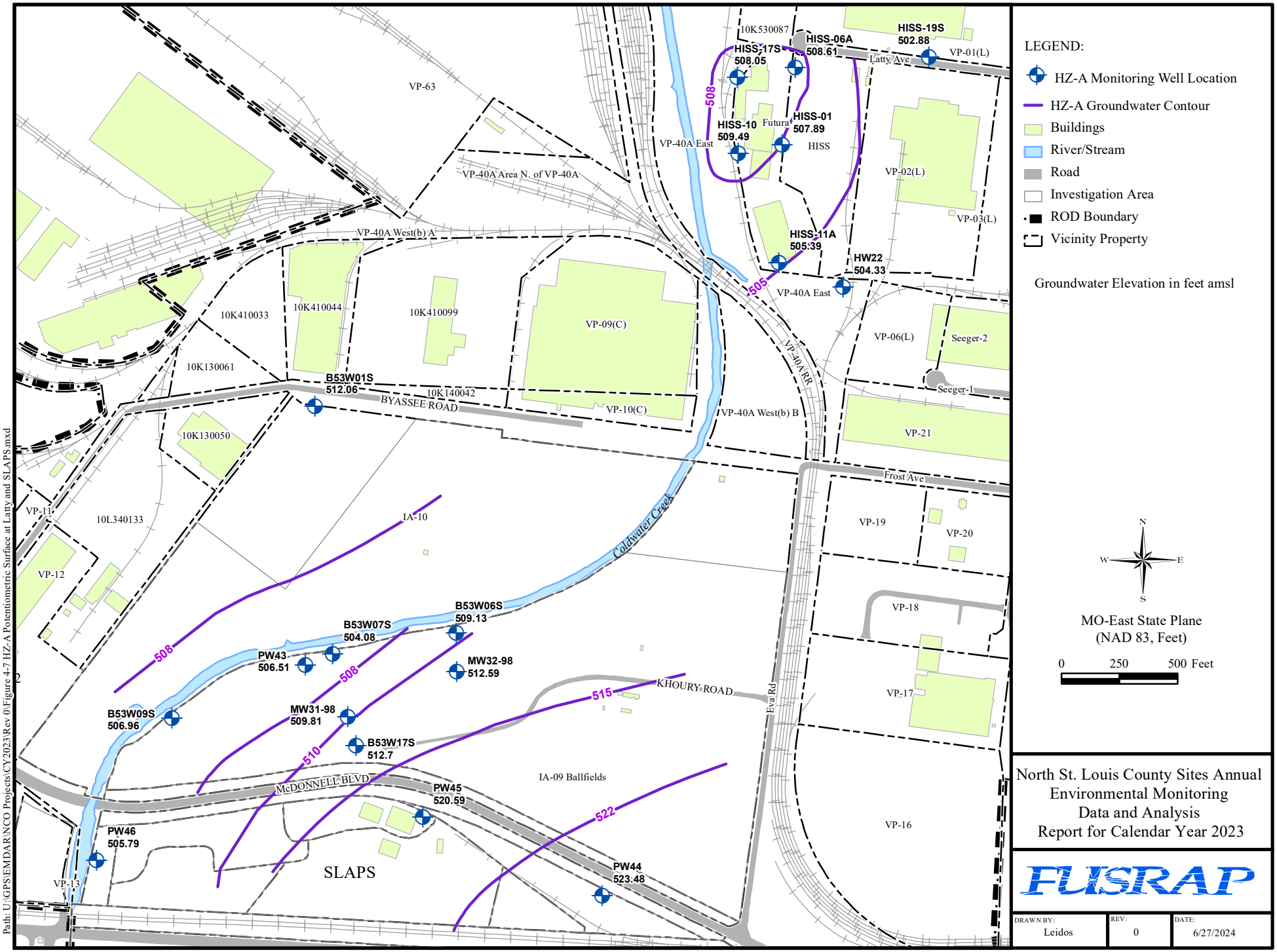


Figure 4-7. HZ-A Potentiometric Surface at the Latty Avenue Properties, the SLAPS, and the SLAPS VPs (October 25, 2023)

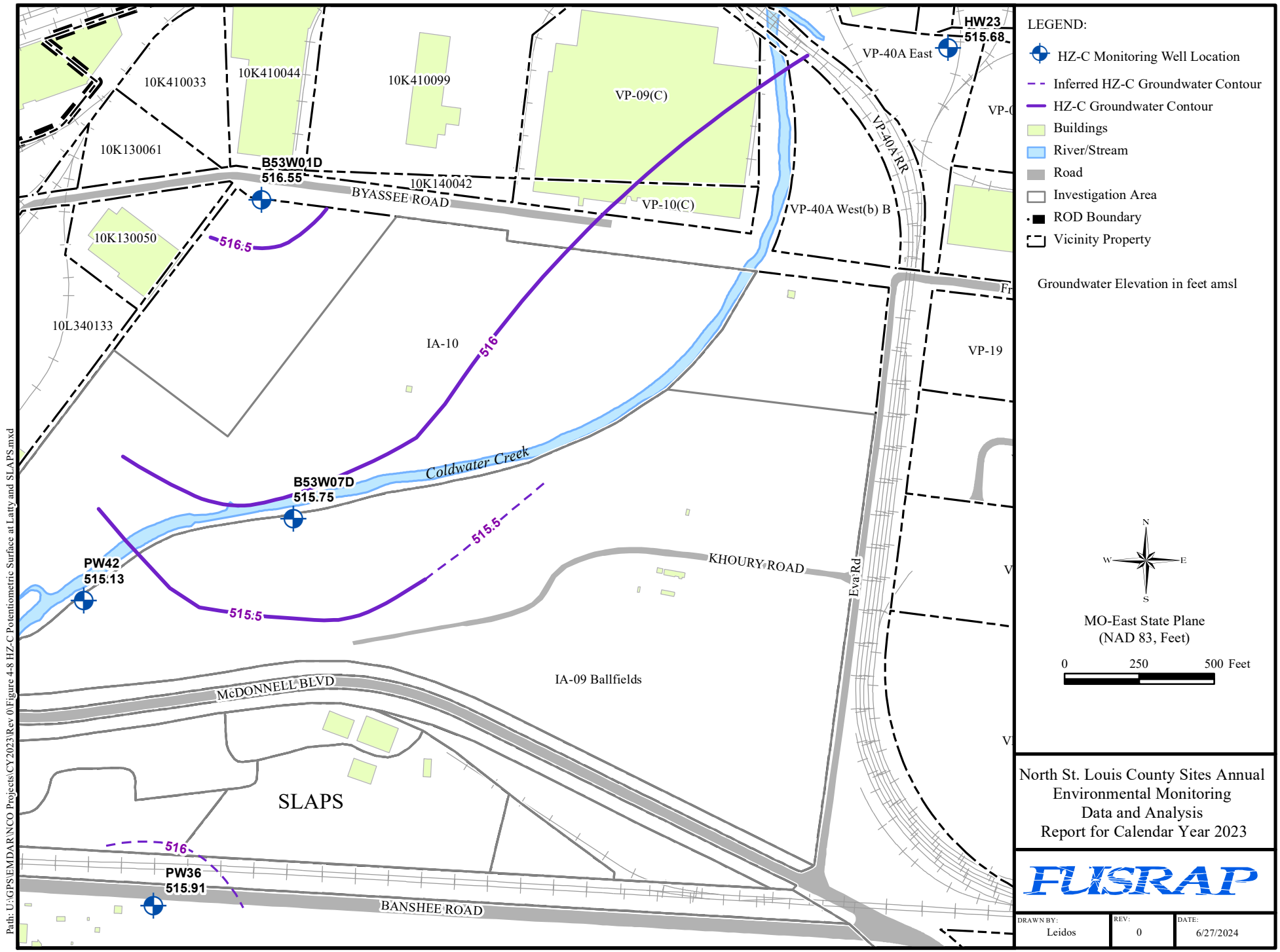
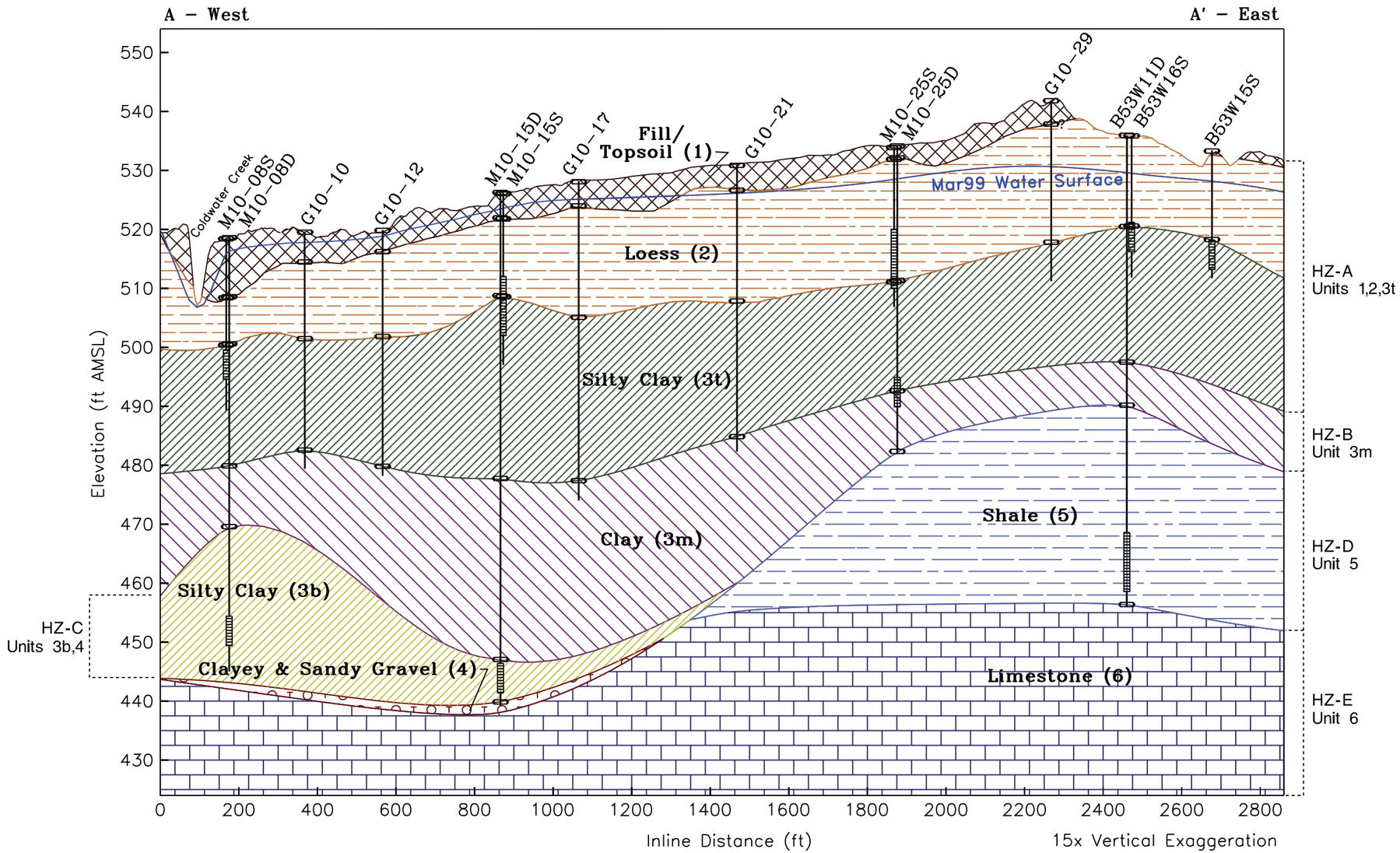


Figure 4-8. HZ-C Potentiometric Surface at the Latty Avenue Properties, the SLAPS, and the SLAPS VPs (October 25, 2023)



Notes

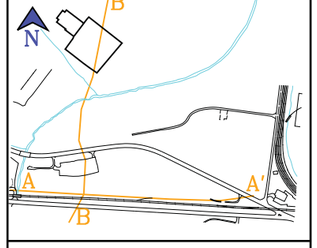
Geologic data used in the cross section collected through 2000.

Legend

Borehole pick

Well screen

Cross Section Location Map



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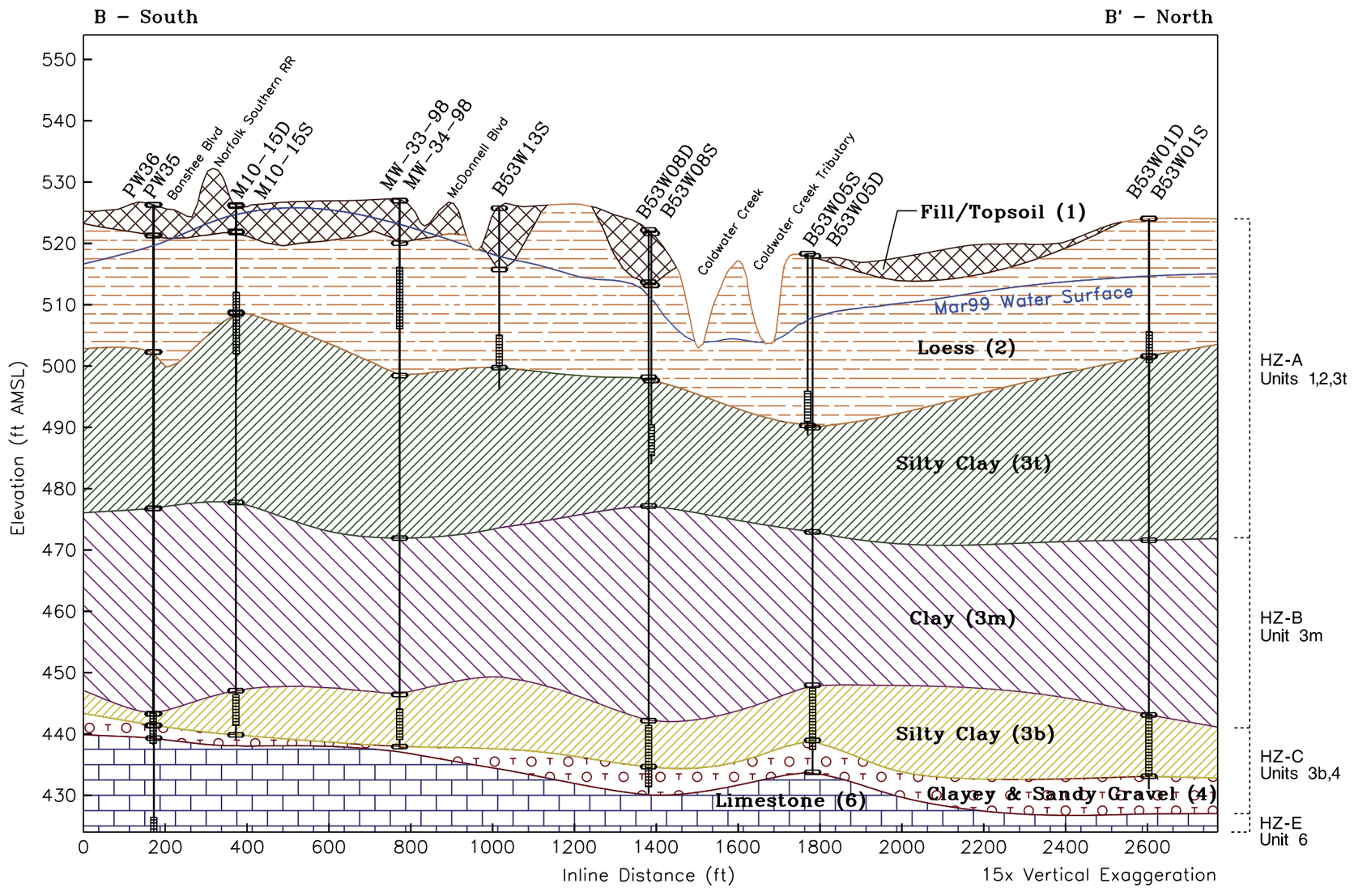
Calendar Year 2023

Revision 0

Author: Leidos Date: 08/29/2000

SLAPSGlg05ExtendedAAS.sho

Figure 4-9. Geologic Cross-Section A-A' at the SLAPS



Notes

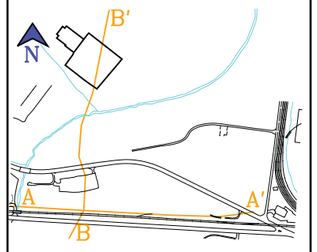
Geologic data used in the cross section collected through 2000.

Legend

Borehole pick

Well screen

Cross Section Location Map



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Data and Analysis Report for
Calendar Year 2023

Revision 0

Author: Leidos Date: 8/29/2000

File: SLAPSGlg05ExtendedBBS.sho

Figure 4-10. Geologic Cross-Section B-B' at the SLAPS and SLAPS VPs

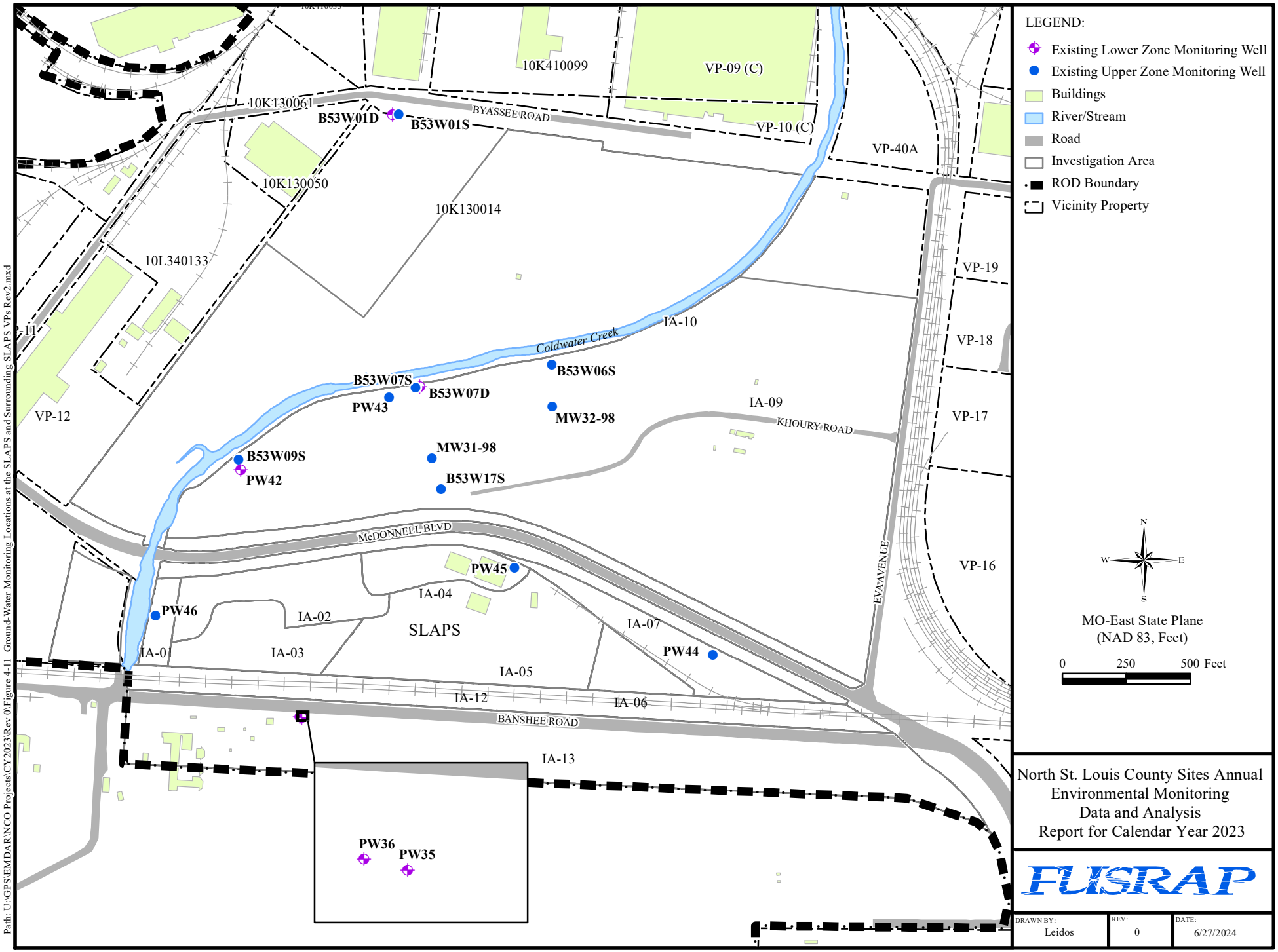
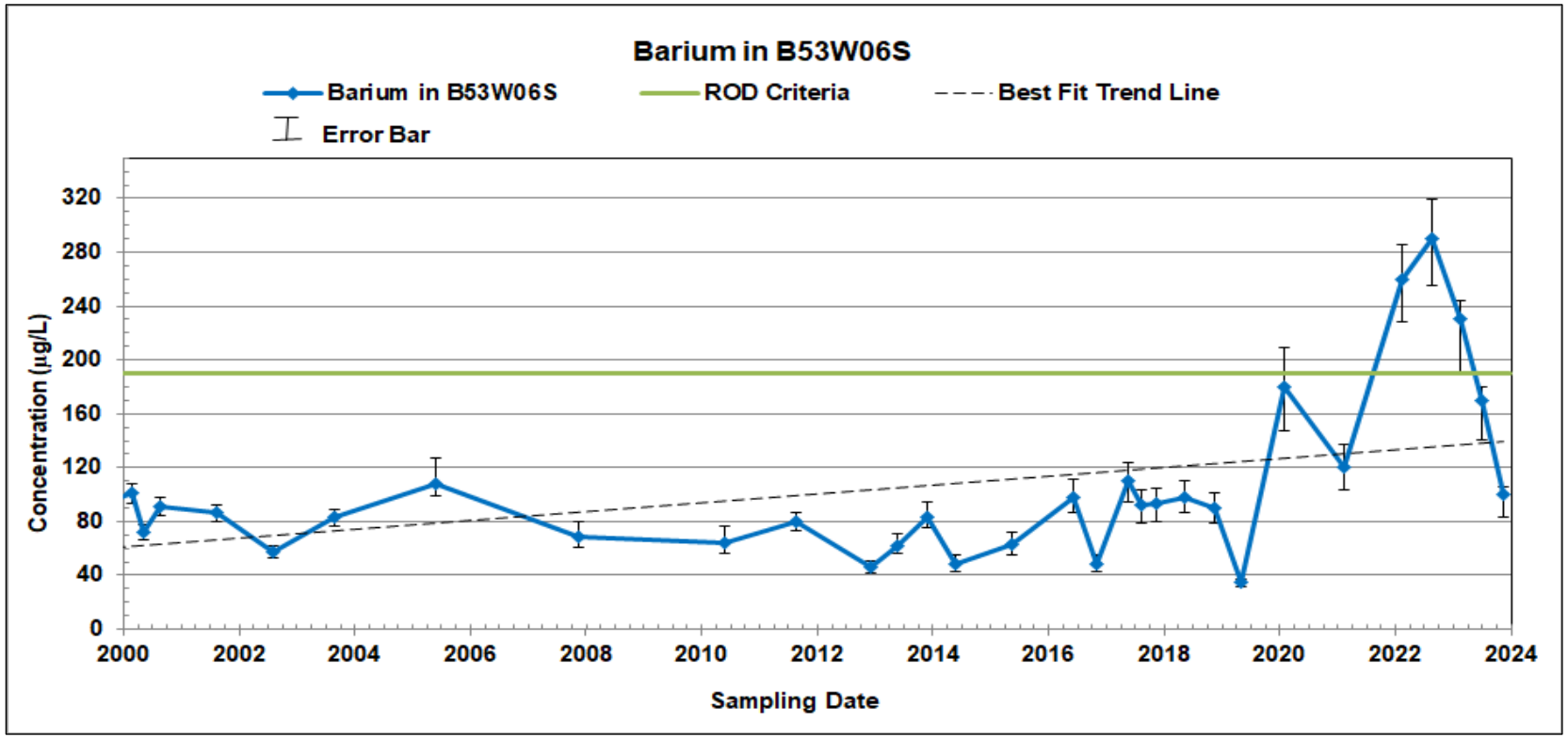
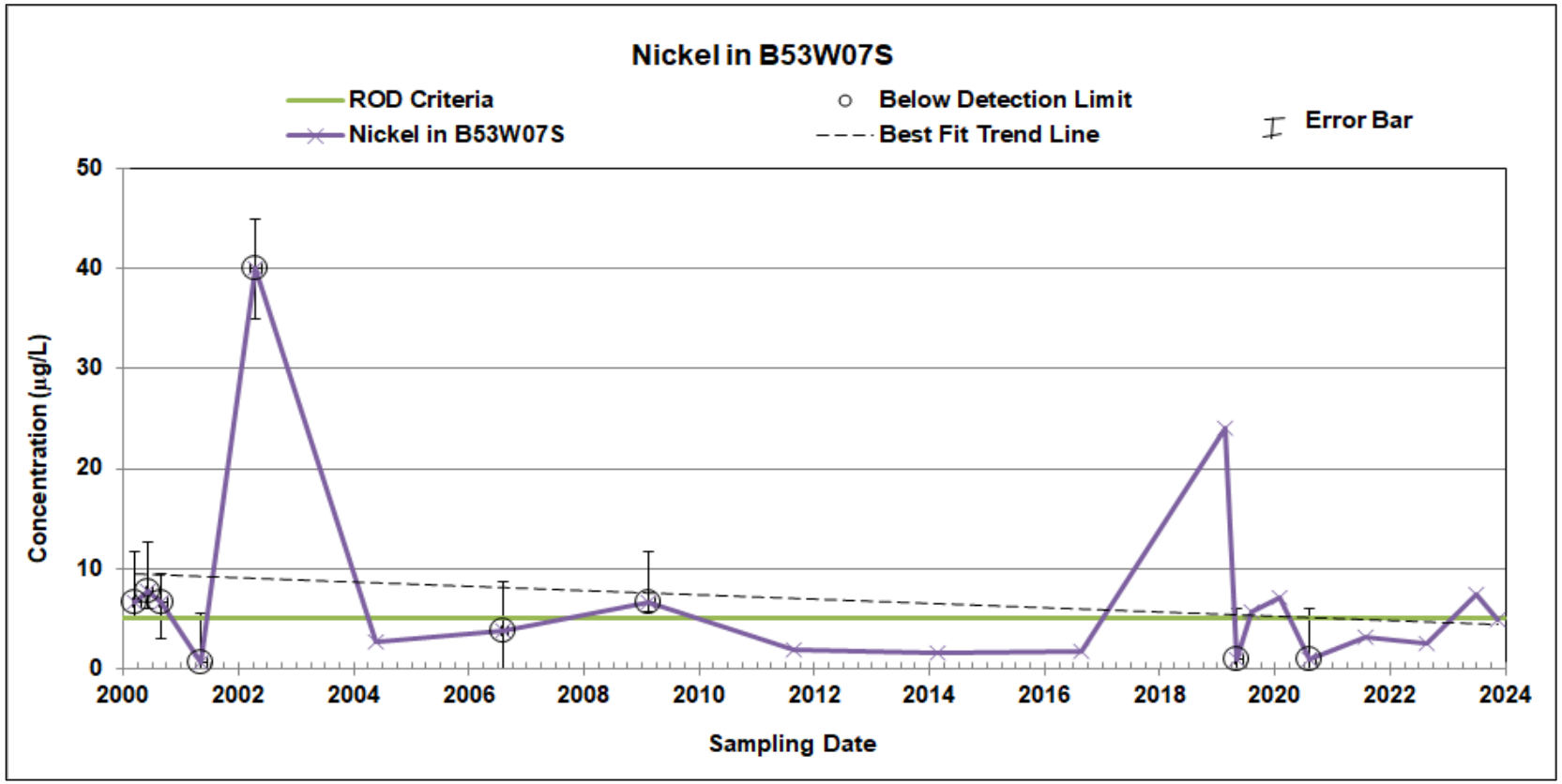


Figure 4-11. Existing Groundwater Monitoring Locations at the SLAPS and SLAPS VPs



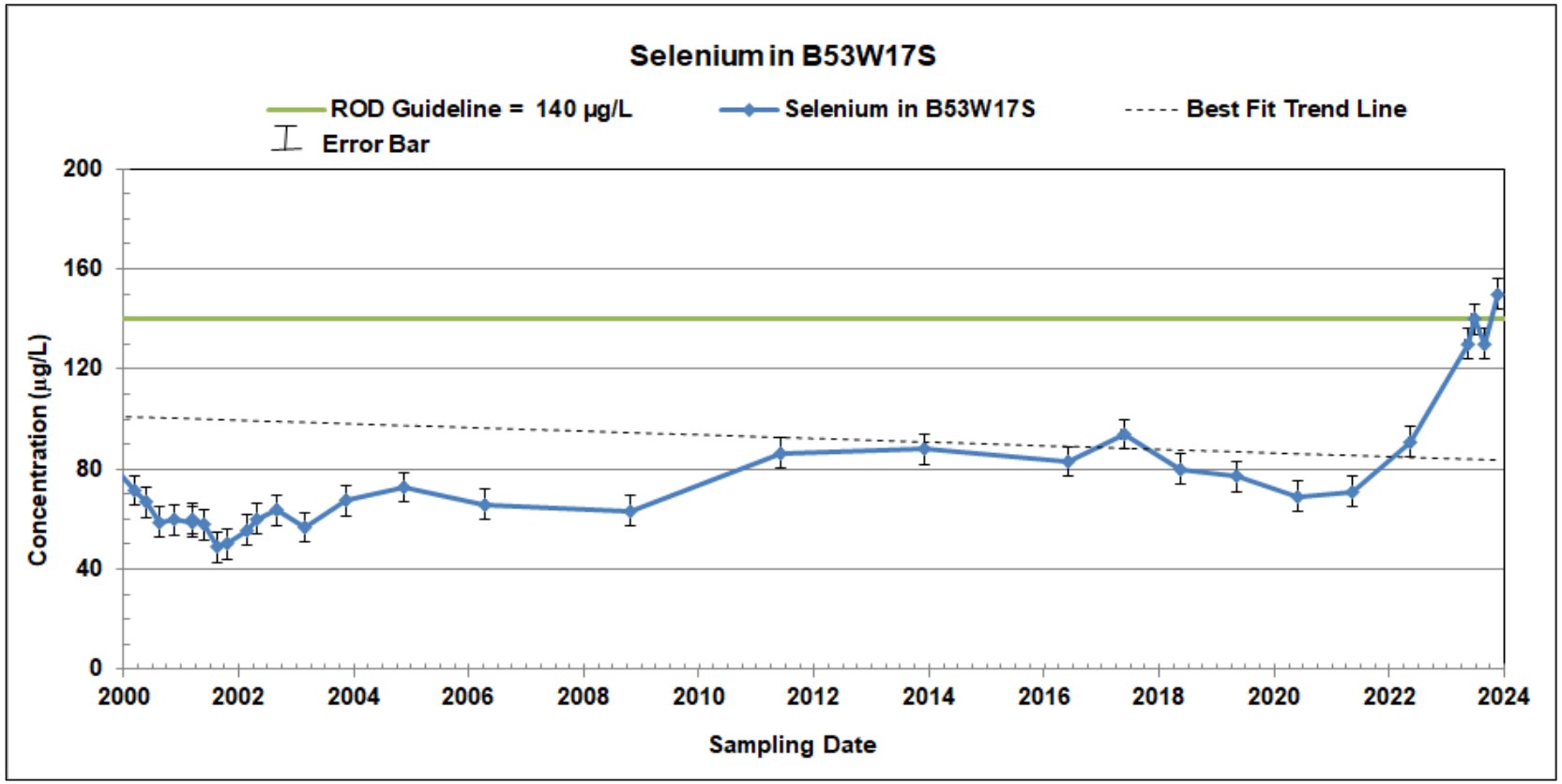
Notes:
For results less than 3 times the RL, the error bar represents ± RL. For results exceeding 3 times the RL, the error bar represents the upper and lower control limits on the control spike samples.
For results reported below the DL (non-detect), the value plotted is half the DL.

Figure 4-12. Time-Versus-Concentration Graphs for Barium in Groundwater at B53W06S, Nickel in Groundwater at B53W07S, and Selenium in Groundwater at B53W17S



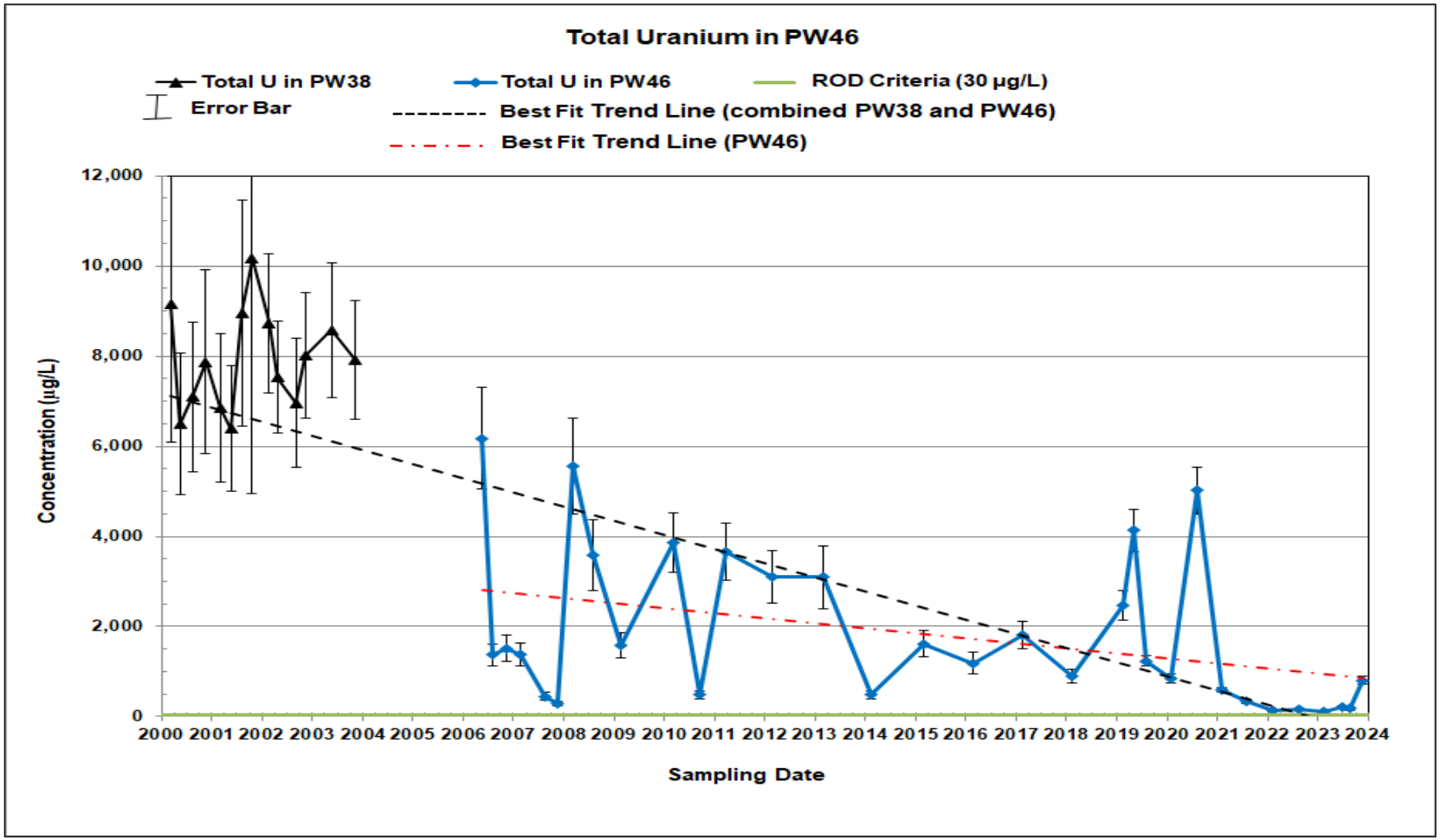
Notes:
For results less than 3 times the RL, the error bar represents ± RL. For results exceeding 3 times the RL, the error bar represents the upper and lower control limits on the control spike samples.
For results reported below the DL (non-detect), the value plotted is half the DL.

Figure 4-12. Time-Versus-Concentration Graphs for Barium in Groundwater at B53W06S, Nickel in Groundwater at B53W07S, and Selenium in Groundwater at B53W17S (Continued)



Notes:
For results less than 3 times the RL, the error bar represents ± RL. For results exceeding 3 times the RL, the error bar represents the upper and lower control limits on the control spike samples.
For results reported below the DL (non-detect), the value plotted is half the DL.

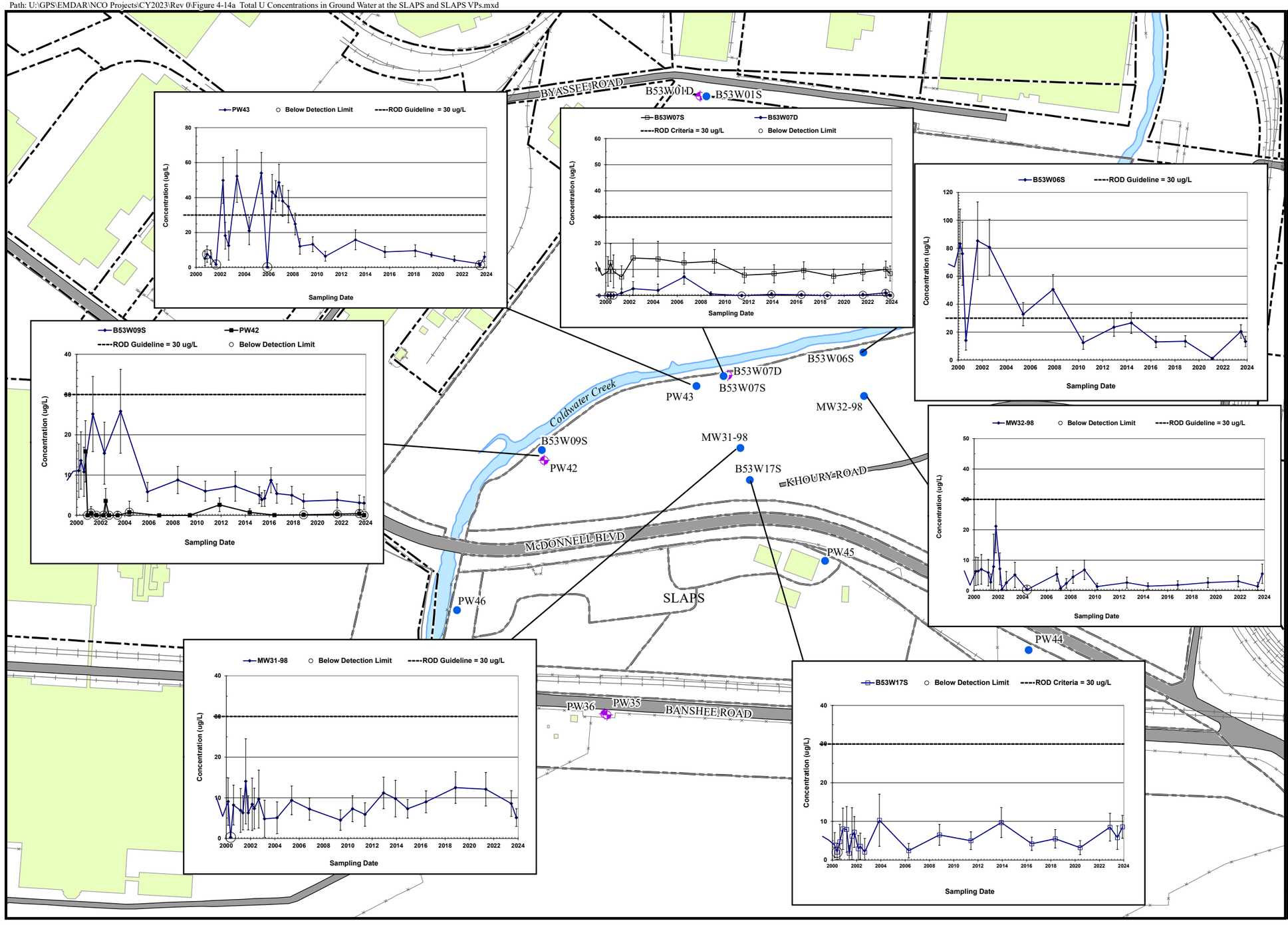
Figure 4-12. Time-Versus-Concentration Graphs for Barium in Groundwater at B53W06S, Nickel in Groundwater at B53W07S, and Selenium in Groundwater at B53W17S (Continued)



Note:
For total U, the error bar represents ± the sum of the measurement errors for U-234, U-235, and U-238, converted to µg/L.

Figure 4-13. Time-Versus-Concentration Graphs for Total U in Groundwater at PW46

Path: U:\GPS\EMDAR\NCO Projects\CY2023\Rev 0\Figure 4-14a Total U Concentrations in Ground Water at the SLAPS and SLAPS VPs.mxd



LEGEND:

- Existing HZ-C or HZ-E Monitoring Well
- Existing HZ-A Monitoring Well
- Vicinity Property
- Investigation Area
- River/Stream
- Road
- Fence
- Railroad
- Building
- Error Bars

N
W E
S

MO-East State Plane
(NAD 83, Feet)

0 190 380 Feet

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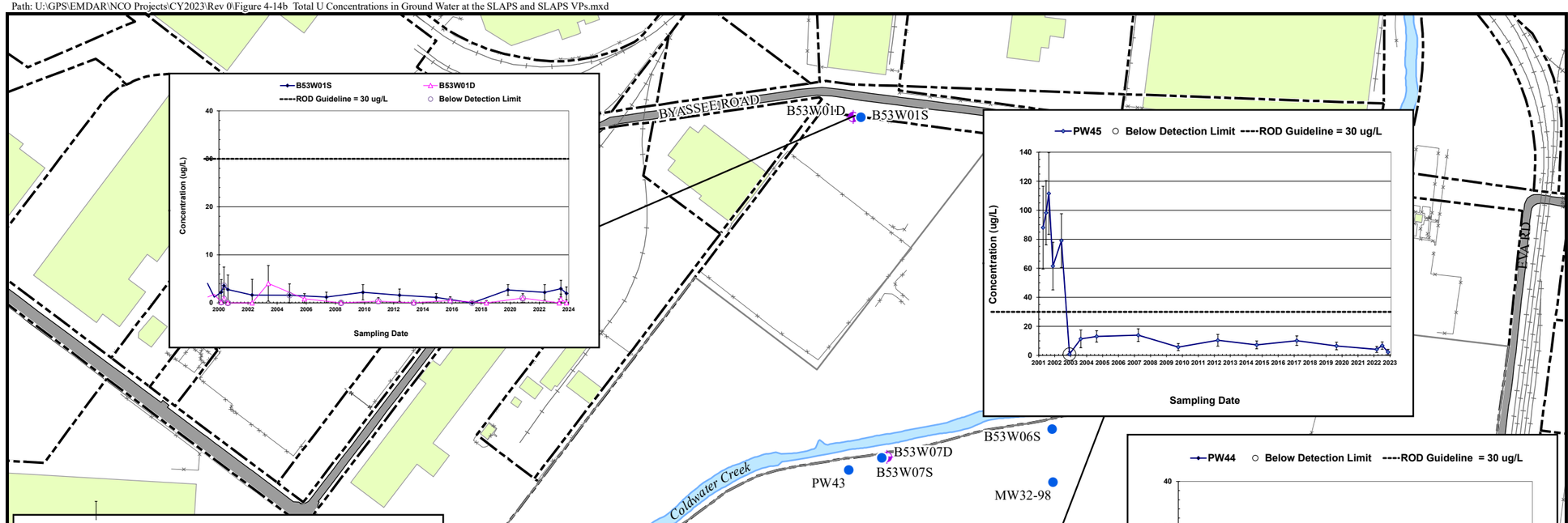
Figure 4-14. Total U Concentrations in Unfiltered Groundwater at the SLAPS and SLAPS VPs

Path: U:\GPS\EMDAR\NCO Projects\CY2023\Rev 0\Figure 4-14b Total U Concentrations in Ground Water at the SLAPS and SLAPS VPs.mxd



LEGEND:

- Existing HZ-C or HZ-E Monitoring Well
- Existing HZ-A Monitoring Well
- Vicinity Property
- Investigation Area
- River/Stream
- Road
- Fence
- Railroad
- Building
- Error Bars

N
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MO-East State Plane
(NAD 83, Feet)

0 190 380 Feet

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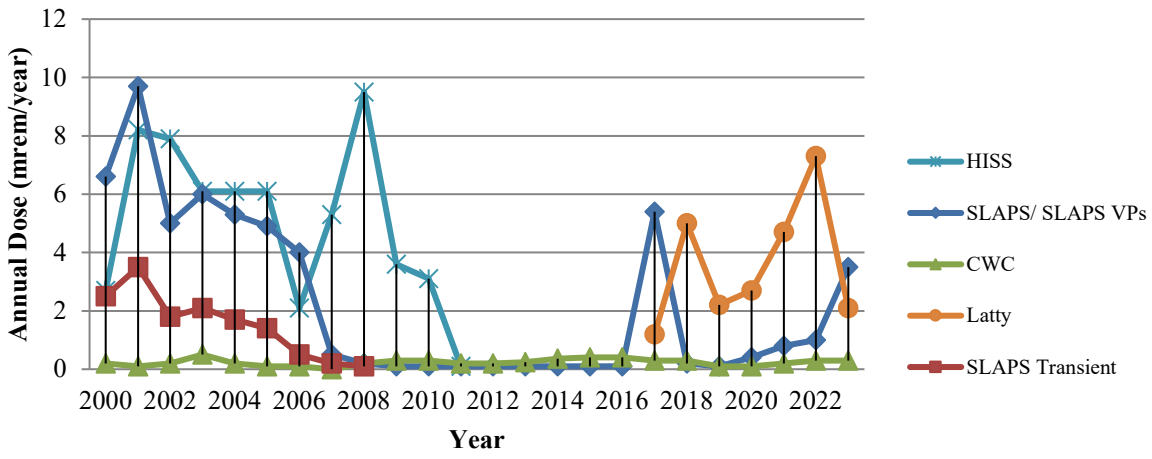
Leidos	0	6/27/2024

Figure 4-15. Total U Concentrations in Unfiltered Groundwater at the SLAPS and SLAPS VPs



Note:
The 10 *CFR* 20.1301 annual dose limit for members of the public is 100 mrem per year.

Figure 6-1. Dose Trends

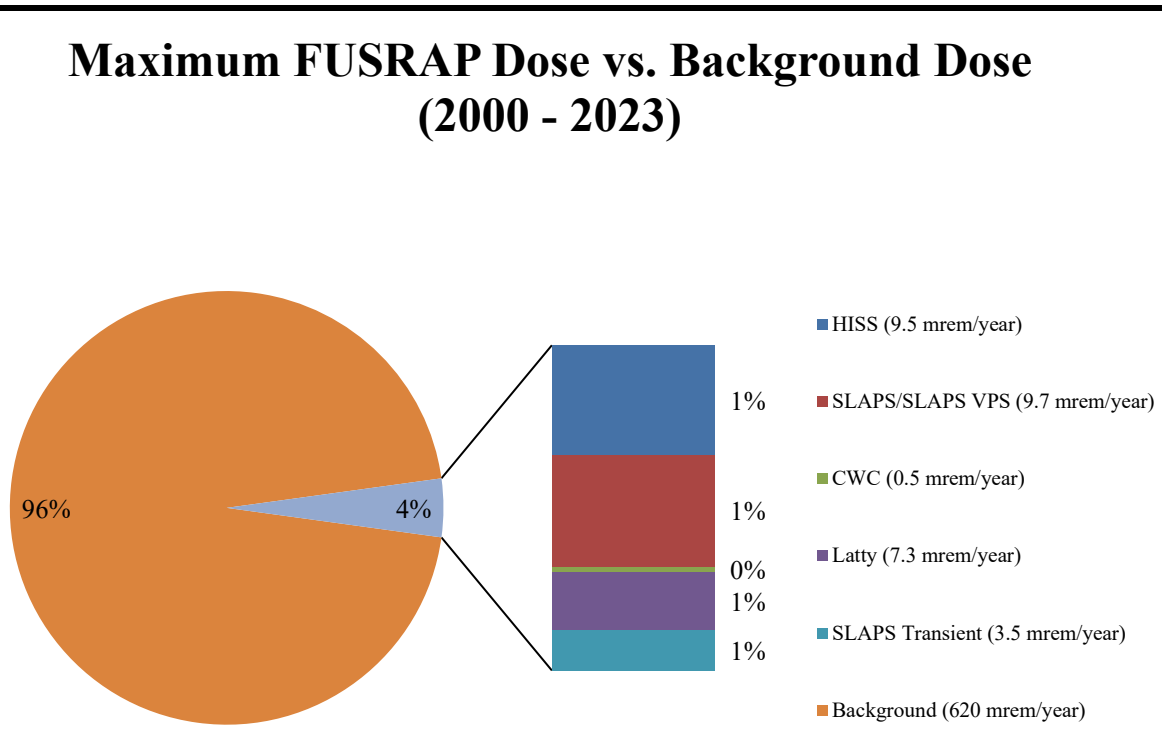


Figure 6-2. Maximum Dose Versus Background Dose

APPENDIX A

DOCUMENTS FINALIZED IN CALENDAR YEAR 2023

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- *Pre-Design Investigation Summary Report Vicinity Properties – 56, – 01(C), and Pershall Road: South Ditch (Partial)* (January 4).
- *Pre-Design Investigation Summary Report and Final Status Survey Evaluation for Coldwater Creek (CWC)-Floodplain Properties CWC-307 through CWC-317, CWC-319 through CWC-330, and CWC-357* (January 9).
- *Pre-Design Investigation Summary Report and Final Status Survey Evaluation for Coldwater Creek (CWC)-Floodplain Properties CWC-353, CWC-354, CWC-394 through CWC-396, and Cricket Court* (January 9).
- *Pre-Design Investigation Summary Report Coldwater Creek – Group 6* (February 15).
- *Coldwater Creek Flood Event Sampling Activities Report* (February 27).
- *Pre-Design Investigation Summary Report and Final Status Survey Evaluation for Coldwater Creek (CWC)-Floodplain Properties CWC-304 through CWC-306, CWC-358 through CWC-364, and CWC-366 through CWC-385* (March 13).
- *Pre-Design Investigation Summary Report and Final Status Survey Evaluation for Coldwater Creek (CWC)-Floodplain Properties CWC-389 through CWC-393, CWC-421 through CWC-427, Greenway Chase Drive, and New Halls Ferry Road (Partial)* (March 13).
- *North St. Louis County Sites Annual Environmental Monitoring Data and Analysis Report for CY 2022* (June 23).
- *Remedial Design/Remedial Action Work Description Coldwater Creek – Group 1, Supplement No. 15 to the Remedial Action Work Plan Coldwater Creek Properties* (June 29).
- *Remedial Design/Remedial Action Work Description CWC-386, -387, and -388 (Hazelwood School District Northwest Bank of Coldwater Creek) and Adjacent MSD Right-of-Way, FUSRAP North St. Louis County Sites, St. Louis, Missouri (RD/RAWD), Supplement No. 17 to the Remedial Action Work Plan Coldwater Creek Properties* (July 5).
- *Remedial Design/Remedial Action Work Description Latty Avenue and VP-38 Remaining Areas, Supplement No. 15 to the FUSRAP Remedial Action Work Plan for the North St. Louis County Sites* (July 12).
- *Pre-Design Investigation Summary Report James S. McDonnell Boulevard – North Lindbergh Boulevard to Genaire Drive* (August 15).
- *Pre-Design Investigation Summary Report Coldwater Creek – Group 7* (August 30).
- *Pre-Design Investigation Summary Report Coldwater Creek – Group 8: Vicinity Properties-02(C): East, -02(C): West, and -02(C): RR* (September 18).
- *Pre-Design Investigation Summary Report and Final Status Survey Evaluation for Coldwater Creek (CWC)-Floodplain Properties CWC-413 through CWC-415* (November 3).
- *Pre-Design Investigation Summary Report Coldwater Creek – Groups 4 (Partial) and 5.* (November 11).
- *Environmental Monitoring Implementation Plan for the North St. Louis Sites for Calendar Year 2024* (December 22).
- *Pre-Design Investigation Summary Report Coldwater Creek – Group 2* (December 26).

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APPENDIX B

NORTH ST. LOUIS COUNTY FUSRAP SITES
2023 RADIONUCLIDE EMISSIONS NESHAP REPORT
SUBMITTED IN ACCORDANCE WITH REQUIREMENTS OF 40 *CFR* 61, SUBPART I

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ACRONYMS AND ABBREVIATIONS

Ac	actinium
AEC	Atomic Energy Commission
BNI	Bechtel National Inc.
CFR	*Code of Federal Regulations*
CWC	Coldwater Creek
CY	calendar year
DOE	U.S. Department of Energy
EDE	effective dose equivalent
FUSRAP	Formerly Utilized Sites Remedial Action Program
Futura	Futura Coatings Company
GIS	geographic information system
HEPA	high efficiency particulate air
HISS	Hazelwood Interim Storage Site
IA	investigation area
IAAAP	Iowa Army Ammunition Plant
MED	Manhattan Engineer District
NC	North St. Louis County
NESHAP	National Emission Standard for Hazardous Air Pollutants
Pa	protactinium
Ra	radium
RA	remedial action
SLAPS	St. Louis Airport Site
SLDS	St. Louis Downtown Site
STLAA	St. Louis Airport Authority
SU	survey unit
Th	thorium
U	uranium
USACE	U.S. Army Corps of Engineers
USEPA	U.S. Environmental Protection Agency
VP	vicinity property

UNIT ABBREVIATIONS

Both English and metric units are used in this report. The units used in a specific situation are based on common unit usage or regulatory language (e.g., depths are given in feet, and areas are given in square meters). Units included in the following list are not defined at first use in this report.

°C	degrees Celsius (centigrade)
µCi/cm^3	microcurie(s) per cubic centimeter
µCi/mL	microcurie(s) per milliliter
Ci	curie(s)
Ci/pCi	curie(s) per picocurie
cm	centimeter(s)
cm^3	cubic centimeter(s)
g	gram(s)
kg	kilogram(s)
m	meter(s)
m^2	square meter(s)
m^3	cubic meter(s)
mL	milliliter(s)
mrem	millirem
pCi/g	picocurie(s) per gram
yd^3	cubic yard(s)

EXECUTIVE SUMMARY AND DECLARATION STATEMENT

This report presents the results of National Emission Standard for Hazardous Air Pollutants (NESHAP) calculations for the St. Louis Formerly Utilized Sites Remedial Action Program (FUSRAP) North St. Louis County (NC) Sites for calendar year (CY) 2023. The NESHAP requires the calculation of the effective dose equivalent (EDE) from radionuclide emissions to critical receptors. The report follows the requirements and procedures contained in 40 *Code of Federal Regulations (CFR)* 61, Subpart I, *National Emission Standards for Radionuclide Emissions from Federal Facilities Other Than Nuclear Regulatory Commission Licensees and Not Covered by Subpart H*.

This report describes evaluations of sites at which a reasonable potential exists for radionuclide emissions due to St. Louis FUSRAP activities. These sites include the following: Coldwater Creek (CWC)-386, CWC-387, and CWC-388 (Northwest Bank of CWC); the investigation area (IA)-09 Ballfields; James S McDonnell Boulevard; Pershall Road; vicinity property (VP)-56; and the St. Louis Airport Site (SLAPS) Loadout area. No remedial action (RA) excavations near the Latty Avenue Properties were performed in CY 2023, and potentially contaminated soil is covered by asphalt/concrete, gravel/railroad ballast, and vegetative ground cover; therefore, dose due to air particulate emissions was assumed to be negligible. This report also evaluates radionuclide emissions from the FUSRAP St. Louis Radioanalytical Laboratory operations. Emissions from the sites and project laboratory were evaluated for the entire CY 2023 to provide a conservative estimate of total emissions.

The NESHAP standard of EDE to a critical receptor from radionuclide emissions is 10 mrem per year. None of the sites exceeded this standard. The EDEs from radionuclide emissions at the sites were calculated using soil characterization data, air particulate monitoring data, and the U.S. Environmental Protection Agency (USEPA) CAP88-PC modeling code, which resulted in an EDE of 0.4 mrem per year from the SLAPS, and of 3.5 mrem per year from the SLAPS VPs. The EDE from the project laboratory emissions was calculated using the methodology prescribed in 40 *CFR* 61, Appendix D, *Methods for Estimating Radionuclide Emissions,* soil characterization data, and the USEPA CAP88-PC modeling code (USEPA 2020), resulting in an EDE of less than 0.1 mrem per year.

Evaluations for the SLAPS and the project laboratory resulted in an EDE of less than 10 percent of the dose standard prescribed in 40 *CFR* 61.102. These sites are exempt from the reporting requirements of 40 *CFR* 61.104(a).

DECLARATION STATEMENT – 40 *CFR* 61.104(a)(xvi)

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein, and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment. See 18 *U.S. Code* 1001.

_____ _____

Signature Date

Office: U.S. Army Corps of Engineers, St. Louis District Office
Address: 114 James S McDonnell Boulevard
Hazelwood, MO 63042
Contact: Jon Rankins

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1.0 PURPOSE

This NESHAP report contains the EDE calculations from radionuclide emissions (exclusive of radon) to critical receptors from the NC Sites at which a reasonable potential existed for radionuclide emissions due to St. Louis FUSRAP activities. These sites include the following: CWC-386, CWC-387, and CWC-388 (Northwest Bank of CWC); IA-09 Ballfields; James S McDonnell Boulevard; Pershall Road; VP-56; the SLAPS Loadout area; and the project laboratory. The air emissions from the laboratory include fume hood stack releases of particulate radionuclides from sample preparation and separation activities. The air emissions from the other sites are ground releases of particulate radionuclides in soil as a result of windblown action and RA in the form of excavation and off-site disposal of soil.

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2.0 METHOD

Emission rates for the NC Sites were modeled using guidance documents (i.e., *A Guide for Determining Compliance with the Clean Air Act Standards for Radionuclide Emissions from NRC-Licensed and Non-DOE Federal Facilities* [USEPA 1989]) referenced in 40 *CFR* 61, Appendix E, *Compliance Procedures Methods for Determining Compliance with Subpart I*, and were measured by collection of environmental air samples. Emission rates for the laboratory were modeled using guidance in 40 *CFR* 61, Appendix D, *Methods for Estimating Radionuclide Emissions.* Emission rates were input into the USEPA computer code CAP88-PC, along with appropriate meteorological data and distances to critical receptors[1], to obtain the EDE from the air emissions.

Although 40 *CFR* 61.103 requires the use of the USEPA computer code COMPLY, USEPA no longer supplies technical support for COMPLY. However, the USEPA lists both COMPLY and CAP88-PC as atmospheric models for assessing dose and risk from radioactive air emissions (USEPA 2020). The USEPA continues to maintain and update the CAP88-PC modeling program and has updated it as recently as March 2020. In previous FUSRAP NESHAP reports, both COMPLY and CAP88-PC results have been compared. This comparison indicated that CAP88-PC is a comparable and conservative method of demonstrating compliance with 40 *CFR* 61, Subpart I. For these reasons, CAP88-PC was used in this report to demonstrate compliance with the NESHAP.

2.1 EMISSION RATE

Two methods were used to determine particulate radionuclide emission rates from the sites: (1) 40 *CFR* 61 Appendix D, *Methods for Estimating Radionuclide Emissions,* and (2) environmental air samples collected from the perimeter of a site.

For method one, emissions from laboratory fume hood exhaust during soil sample grinding operations and the dissolution of soil and water samples were evaluated using data from soil samples analyzed during CY 2023.

For method two, emissions during excavations and waste loadout were evaluated using air sampling data at the excavation and waste loadout perimeters.

2.2 EFFECTIVE DOSE EQUIVALENT

The EDE to critical receptors[1] is obtained using USEPA computer code CAP88-PC, Version 4.1 (USEPA 2020). CAP88-PC uses a Gaussian plume equation to estimate the dispersion of radionuclides and is referenced by the USEPA to demonstrate compliance with the NESHAP emissions criterion in 40 *CFR* 61. An area ground release at a height of 1 m is modeled for the sites, and a stack release at a height of 6 m is modeled for the laboratory.

The EDE is calculated by combining doses from ingestion, inhalation, air immersion, and external ground surface. CAP88-PC contains historical weather data libraries for major airports across the country, and the results can be modeled for receptors at multiple distances from the emissions source.

[1] "Critical receptors," as used in this report, are the locations for the nearest residence, farm, business, and school.

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3.0 METEOROLOGICAL DATA

Meteorological data were obtained from the CAP88-PC code for the Lambert – St. Louis International Airport (wind file 13994.WND). Data in the file were accumulated from 1988 through 1992.

- Average Annual Wind Velocity: 4.446 m per second
- Average Annual Precipitation Rate: 111 cm per year
- Average Annual Air Temperature: 14.18 °C

Wind speed frequency data were obtained from Lambert – St. Louis International Airport (see Table B-1).

Table B-1. St. Louis Wind Speed Frequency

Wind Speed Group (Knots)	Frequency (Percent)
0 – 3	10
4 – 7	29
8 – 12	36
13 – 18	21
19 – 24	3
25 – 31	1

Note: Knot = 1.151 miles per hour

Wind direction frequency data were obtained from the CAP88-PC wind file, 13994.WND (see Table B-2).

Table B-2. St. Louis Wind Rose Frequency

Wind Direction		Wind Frequency (Percent)	Wind Direction		Wind Frequency (Percent)
Wind Toward	Wind From		Wind Toward	Wind From	
North	South	13.1	South	North	5.6
North-Northwest	South-Southeast	7.4	South-Southeast	North-Northwest	4.3
Northwest	Southeast	6.8	Southeast	Northwest	6.1
West-Northwest	East-Southeast	6.9	East-Southeast	West-Northwest	8.7
West	East	5.5	East	West	9.0
West-Southwest	East-Northeast	2.8	East-Northeast	West-Southwest	6.8
Southwest	Northeast	3.1	Northeast	Southwest	5.4
South-Southwest	North-Northeast	3.7	North-Northeast	South-Southwest	5.0

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4.0 LATTY AVENUE PROPERTIES UNDER ACTIVE REMEDIATION

4.1 SITE HISTORY

In 1966, Continental Mining and Milling Company of Chicago, Illinois, purchased the wastes stored at the SLAPS and began moving them to a property at 9200 Latty Avenue (known as the Futura Coatings Company [Futura] since 1979) for storage. In 1967, the Commercial Discount Corporation of Chicago, Illinois, purchased the residues, dried the materials, and shipped much of the material to Canon City, Colorado. Cotter Corporation purchased the remaining residues in 1969 and dried and shipped more material to Canon City during 1970. In 1973, the remaining undried material was shipped to Canon City, and leached barium sulfate was mixed with soil and transported to a St. Louis County landfill. During these activities, improper storage, handling, and transportation of materials caused the spread of materials along haul routes and to the adjacent VPs.

In 1979, the owner of the 9200 Latty Avenue property excavated approximately 13,000 yd^3 from the western half of the property prior to constructing a manufacturing facility. The material excavated at this time was stockpiled on the eastern half of the property at 9170 Latty Avenue, which has been known as the Hazelwood Interim Storage Site (HISS) since 1979. In 1984, Bechtel National Inc. (BNI) performed removal actions, including clearing, cleanup, and excavation of the property at 9200 Latty Avenue and the surrounding VPs. This action created approximately 14,000 yd^3 of additional contaminated soil, which was stockpiled at the HISS.

In 1986, the U.S. Department of Energy (DOE) provided radiological support to the cities of Hazelwood and Berkeley, Missouri, for a drainage and road improvement project. Soil with constituents in excess of DOE RA guidelines was excavated and stored at the HISS. This action resulted in an additional 4,600 yd^3 of material being placed at the HISS in a supplemental storage pile.

In 1996, the owner of the property to the east of the HISS, General Investment Funds Real Estate Holding Company, in consultation with the DOE, made commercial parking and drainage improvements on the property. This action resulted in the stockpiling of approximately 8,000 yd^3 of soil and debris in two interim storage piles located in the southwestern portion of the Latty Avenue VP-02(L). These piles were referred to as the Eastern Piles.

In 2000 and 2001, the U.S. Army Corps of Engineers (USACE) removed the Main, Supplemental, and Eastern Piles and shipped the material by rail to properly permitted disposal facilities. The ground surface on which the piles were previously located was covered by a layer of plastic and approximately 6 inches of gravel.

Beginning in 2001, pre-design investigation surveys and sampling were performed on the Latty Avenue Properties to determine soil areas and building surfaces requiring remediation or decontamination. The USACE remediated contaminated areas, decontaminated building surfaces, and performed final status surveys between 2007 and 2021.

4.2 MATERIAL HANDLING AND PROCESSING FOR CALENDAR YEAR 2023

No RA excavations near the Latty Avenue properties were performed in CY 2023, and potentially contaminated soil is covered by asphalt/concrete, gravel/railroad ballast, and vegetative ground cover; therefore, dose due to air particulate emissions was assumed to be negligible.

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5.0 ST. LOUIS AIRPORT SITE AND ST. LOUIS AIRPORT SITE VICINITY PROPERTIES UNDER ACTIVE REMEDIATION

5.1 SITE HISTORY

The Manhattan Engineer District (MED) acquired the SLAPS in 1946 to store uranium-bearing residuals generated at the St. Louis Downtown Site (SLDS) from 1946 through 1966. In 1966, these residuals were purchased by Continental Mining and Milling Company of Chicago, removed from the SLAPS, and placed in storage at 9200 Latty Avenue (known as Futura since 1979) under an Atomic Energy Commission (AEC) license. After most of the residuals were removed, site structures were demolished and buried on the property, along with approximately 60 truckloads of scrap metal and a vehicle that had become contaminated. In 1973, the U.S. Congress and the City of St. Louis agreed to transfer ownership from the AEC to the St. Louis Airport Authority (STLAA). The USACE conducted cleanup operations on the SLAPS from 1998 through 2007. Although remediation concluded at the SLAPS in 2007, a small portion of the site is still used to conduct waste storage and loadout activities. The SLAPS Loadout area was expanded in August of 2020.

5.2 MATERIAL HANDING AND PROCESSING FOR CALENDAR YEAR 2023

During CY 2023, excavations were conducted on CWC-386, CWC-387, and CWC-388 (Northwest Bank of CWC); the IA-09 Ballfields; James S McDonnell Boulevard; Pershall Road; and VP-56; and waste loadout activities were conducted at the SLAPS Loadout facility. Air particulate samples were collected around excavation perimeters during active excavation on the SLAPS VPs and around the SLAPS Loadout area throughout CY 2023. Analytical results of air particulate samples were used to determine windblown in situ emissions.

5.3 SOURCE DESCRIPTION – RADIONUCLIDE SOIL CONCENTRATIONS

The radionuclide-specific concentrations on CWC-386, CWC-387, and CWC-388 (Northwest Bank of CWC); the IA-09 Ballfields; James S McDonnell Boulevard; Pershall Road; VP-56; and the SLAPS Loadout facility were determined by using air particulate data and radionuclide-specific activity fractions estimated from 2023 railcar waste characterization data collected by the remedial action contractor. Attachment B-1 of this NESHAP report contains Table B-1-1, a summary table of the radionuclide concentrations used to calculate the emission rate from each site.

5.4 LIST OF ASSUMED AIR RELEASES FOR CALENDAR YEAR 2023

Ground releases of particulate radionuclides in soil, as a result of windblown action and RA in the form of excavation of soil for CWC-386, CWC-387, and CWC-388 (Northwest Bank of CWC); the IA-09 Ballfields; James S McDonnell Boulevard; Pershall Road; and VP-56 are assumed for the particulate radionuclide emission determinations from the SLAPS VPs at which excavations occurred in CY 2023. Other SLAPS VPs do not contribute to the emission determinations for periods of inactivity due to the low activity and vegetative cover.

Ground releases of particulate radionuclides as a result of windblown action during waste loadout activities are assumed for the particulate radionuclide emission determinations from the SLAPS Loadout facility.

Emissions from the project laboratory operations are also assumed for the particulate radionuclide emission determinations from the laboratory site, which is now located at the SLAPS. The specific information related to this evaluation is located in Section 6.0.

5.5 DISTANCES TO CRITICAL RECEPTORS

The distances to critical receptors are shown on Figures B-1, B-2, and B-3 and presented in Table B-3. Distances and directions to critical receptors are determined using tools in a geographic information system (GIS).

Table B-3. SLAPS and SLAPS VPs Critical Receptors for CY 2023

Sources	Nearest Residence[a]		Farm		Business[b]		School	
	Distance (m)	Direction	Distance (m)	Direction	Distance (m)[a]	Direction	Distance (m)	Direction
CWC-386, CWC-387, and CWC-388 (Northwest Bank of CWC)	50	East	2,300	Northwest	550	North	1,200	East
IA-09 Ballfields[b]	1,300	Northwest	1,700	Northeast	200	East-Southeast	2,300	Northeast
James S McDonnell Boulevard	1,300	East	1,600	Northeast	400	West	2,200	North-Northeast
Pershall Road	200	Northeast	1,200	East-Southeast	60	Southeast	1,000	East
VP-56	330	Northwest	1,000	Southeast	100	South	700	East
SLAPS Loadout	1,500	East	1,700	Northeast	200	West-Northwest	2,300	Northeast

[a] The residence associated with Pershall Road and VP-56 is also evaluated for dose from all other sources. That residence is 5,000 m southwest of CWC-386, CWC-387, and CWC-388 (Northwest Bank of CWC); 2,300 m north of the SLAPS loadout; and 2,000 m north of the IA-09 Ballfield excavations. The dose from James S McDonnell Boulevard is insignificant.

[b] Distance from business receptor to center of source from the SLAPS Loadout is 200 m for emissions determination.

5.6 EMISSIONS DETERMINATION

5.6.1 Measured Airborne Radioactive Particulate Emissions

Particulate air samples were collected from around the perimeter of active excavations and the SLAPS Loadout area to measure the radionuclide emissions. The sample results provide the basis for determining the radionuclide emission rates during all of CY 2023. The average gross alpha and gross beta concentrations (in μCi/mL) were determined for each monitoring location for CY 2023. The site average concentrations are presented in Table B-4.

Table B-4. SLAPS and SLAPS VPs Average Gross Alpha and Beta Airborne Particulate Emissions for CY 2023

Monitoring Location	Average Concentration (μCi/mL)[a]	
	Gross Alpha	Gross Beta
CWC-386, CWC-387, and CWC-388 (Northwest Bank of CWC)	5.16E-15	4.14E-14
IA-09 Ballfields	3.96E-15	2.91E-14
James S McDonnell Boulevard	9.08E-15	4.29E-14
Pershall Road	4.26E-15	3.42E-14
VP-56	3.65E-15	3.00E-14
SLAPS Loadout	4.04E-15	3.45E-14
Background Concentration[b]	4.96E-15	2.41E-14

[a] Average concentration values for the sampling period by location.

[b] These concentrations are provided for informational purposes only. As a conservative approach, background values were not subtracted from the gross average concentration during the determination of EDE.

Radionuclide-specific activity fractions are determined from the average radionuclide concentration data established using 2023 railcar data from the excavated areas for the SLAPS VPs and for the SLAPS Loadout facility. The product of each radionuclide activity fraction and the gross concentration provide the radionuclide emission concentration as measured in $\mu Ci/cm^3$. The gross average concentration (in $\mu Ci/cm^3$) is converted to a release (emission) rate (in Ci per year) using Equations 1 and 2.

A Guide for Determining Compliance with the Clean Air Act Standards for Radionuclide Emissions from NRC-Licensed and Non-DOE Federal Facilities (USEPA 1989) includes Equation 1 for determination of the effective diameter of a non-circular stack or vent.

$$D = (1.3\ A)^{1/2} \qquad \textit{Equation 1}$$

where:

D = the effective diameter of the release (in m)
A = the area of the stack, vent, or release point (in m^2)

Table B-5 provides the effective surface area available for release of airborne radionuclides normalized to 1 year and the effective diameter for the SLAPS and excavated SLAPS VPs. Calculation of the effective surface area is contained in Attachment B-1 of this NESHAP report.

Table B-5. SLAPS and SLAPS VPs Excavation Effective Areas and Effective Diameters for CY 2023

Location	Effective Area (m^2)	Effective Diameters (m)
CWC-386, CWC-387, and CWC-388 (Northwest Bank of CWC)	411	23
IA-09 Ballfields	966	35
James S McDonnell Boulevard	1	1
Pershall Road	306	20
VP-56	26	6
SLAPS Loadout	5,000	81

The average annual wind speed for the Lambert – St. Louis International Airport is provided in CAP88-PC as 4.446 m per second. Conversion of this wind speed to a flow rate through stacks with the listed effective diameters for each area is completed using Equation 2.

$$F = V\ \pi\ (D)^2 / 4 \qquad \textit{Equation 2}$$

where:

V = the wind velocity (in m per minute) = 266.76 m per minute
F = the flow rate (in m^3 per minute)
π = a mathematical constant
D = the effective diameter of the release (in m) determined using Equation 13 from *A Guide for Determining Compliance with the Clean Air Act Standards for Radionuclide Emissions from NRC-Licensed and Non-DOE Federal Facilities* (USEPA 1989)

Converting the velocity of emissions from the sites to an effective flow rate results in the following site release flow rates for the SLAPS and the SLAPS VPs, as listed in Table B-6. The product of the flow rate, the activity fraction associated with each radionuclide, and the appropriate conversion factors provide the site emission rate for each radionuclide, as contained in Table B-7. Attachment B-1 of this NESHAP report contains flow rate and average radionuclide concentration data.

Table B-6. SLAPS and SLAPS VPs Site Release Flow Rates for CY 2023

Location	Site Release Flow Rate (m^3/minute)
CWC-386, CWC-387, and CWC-388 (Northwest Bank of CWC)	1.1E+05
IA-09 Ballfields	2.6E+05
James S McDonnell Boulevard	2.9E+02
Pershall Road	8.3E+04
VP-56	7.2E+03
SLAPS Loadout	1.4E+06

5.6.2 St. Louis Airport Site and St. Louis Airport Site Vicinity Properties Total Airborne Radioactive Particulate Emission Rates

The total CY 2023 emission/release rates input into the USEPA codes for the SLAPS and the SLAPS VPs are shown in Table B-7 and are based on the measured emission rates from the air samples collected from the perimeter of the excavation or loadout area as appropriate.

Table B-7. SLAPS and SLAPS VPs Total Airborne Radioactive Particulate Emission Rates for CY 2023

Radionuclide	Emission (Ci/year)[a]					
	CWC-386, CWC-387, and CWC-388 (Northwest Bank of CWC)	IA-09 Ballfields	James S McDonnell Boulevard	Pershall Road	VP-56	SLAPS Loadout
Uranium (U)-238	2.2E-05	6.8E-06	1.4E-07	1.5E-05	1.8E-06	3.6E-05
U-235	1.1E-06	4.7E-07	4.9E-09	1.1E-06	1.8E-07	2.4E-06
U-234	2.2E-05	6.8E-06	1.4E-07	1.5E-05	1.8E-06	3.6E-05
Radium (Ra)-226	2.8E-05	2.3E-05	1.8E-07	1.8E-05	2.2E-06	1.1E-04
Thorium (Th)-232	1.7E-05	2.0E-06	1.2E-07	1.1E-05	1.4E-06	1.2E-05
Th-230	1.7E-05	4.9E-04	5.4E-07	1.0E-04	4.8E-06	2.3E-03
Th-228	1.8E-04	2.0E-06	1.2E-07	1.1E-05	1.4E-06	1.2E-05
Ra-224	1.7E-05	2.0E-06	1.2E-07	1.1E-05	1.4E-06	1.2E-05
Th-234	6.8E-04	1.5E-03	1.7E-06	4.2E-04	3.6E-05	7.8E-03
Protactinium (Pa)-234m	6.8E-04	1.5E-03	1.7E-06	4.2E-04	3.6E-05	7.8E-03
Th-231	3.4E-05	1.0E-04	6.1E-08	3.1E-05	3.5E-06	5.3E-04
Ra-228	5.2E-04	4.4E-04	1.5E-06	3.1E-04	2.7E-05	2.7E-03
Actinium (Ac)-228	5.2E-04	4.4E-04	1.5E-06	3.1E-04	2.7E-05	2.7E-03
Pa-231	1.1E-06	7.6E-06	6.9E-09	1.1E-06	1.8E-07	3.6E-05
Ac-227	1.7E-06	8.3E-06	6.9E-09	1.1E-06	1.8E-07	3.9E-05

[a] Release rate based on a 365-day period at a respective flow rate (as presented in Table B-6) as determined from the average annual wind speed (4.446 m per second) and the effective site area (as presented in Table B-5) for each location.

5.7 CAP88-PC RESULTS

The CAP88-PC reports are contained in Attachment B-2 of this NESHAP report. The effective area factor input was taken from Table B-5. Results show compliance with the 10 mrem per year criterion for all critical receptors. The results are summarized in Table B-8.

Table B-8. SLAPS and SLAPS VPs CAP88-PC Results for Critical Receptors for CY 2023

Source	Dose (mrem/year)			
	Nearest Residence[a]	Farm[a]	Business[b]	School[b]
CWC-386, CWC-387, and CWC-388 (Northwest Bank of CWC)	3.5	0.1	<0.1	<0.1
IA-09 Ballfields	<0.1	<0.1	<0.1	<0.1
James S McDonnell Boulevard	<0.1	<0.1	<0.1	<0.1
Pershall Road[c]	0.2	<0.1	0.1	<0.1
VP-56	<0.1	<0.1	<0.1	<0.1
SLAPS Loadout[d]	0.1	0.1	0.4	<0.1

[a] Occupancy factor is 100 percent for the nearest residence and farm.
[b] Corrected for the 23 percent occupancy factor (40 hours per week for 50 weeks per year).
[c] The dose from all sources to the residence associated with Pershall Road is 0.4 mrem/year.
[d] Distance from the business receptor to the center of the source is 200 m for emissions determination.

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6.0 FUSRAP ST. LOUIS RADIOANALYTICAL LABORATORY

6.1 SITE DESCRIPTION

The project laboratory is located on the SLAPS. The laboratory site covers approximately 490 m^2.

6.2 LIST OF ASSUMED AIR RELEASES FOR CALENDAR YEAR 2023

Emissions from the project laboratory operations are assumed for the particulate radionuclide emission determinations from the laboratory site.

6.3 EFFLUENT CONTROLS

The effluent controls at the project laboratory during operations include performing all radioanalytical activities in fume hoods that exhaust to the outside air after passing through a high efficiency particulate air (HEPA) filter.

6.4 DISTANCES TO CRITICAL RECEPTORS

The distances to critical receptors are shown on Figure B-1 and listed in Table B-9. Distances and directions to critical receptors are determined using tools in a GIS.

Table B-9. Laboratory Critical Receptors for CY 2023

Receptor	Distance (m)	Direction from Site
Nearest Residence	1,600	Northwest
Farm	1,700	Northeast
Business	50	Northwest
School	2,300	Northeast

6.5 EMISSIONS DETERMINATIONS

6.5.1 Stack Emissions from FUSRAP St. Louis Radioanalytical Laboratory Operations

Two potential sources of emissions from laboratory operations exist:

1. The drying and grinding operations for soil samples, and
2. The dissolution of soil and water samples.

To obtain an estimate of the emissions these operations can cause, the methodology in 40 *CFR* 61, Appendix D, *Methods for Estimating Radionuclide Emissions,* was utilized. For the drying and grinding operations, a factor of 0.001 (applicable to liquids and powders) was applied to the entire annual laboratory inventory to determine the emissions for the year. For the dissolution operation; however, only 5 g of any sample are used. Because the dissolution involved heating samples to near boiling temperatures, no adjustment was made to the dissolution inventory to determine the emissions (a factor of 1.0, as specified in 40 *CFR* 61, Appendix D). To account for the small aliquot utilized, the annual inventory was adjusted by a factor of 0.005 (the ratio of the 5-g aliquot to the 1-kg sample mass) to estimate emissions. The two emission sources were then summed to determine the total laboratory source term.

Note that no credit is taken for emission controls during the drying and grinding operations, although 40 *CFR* 61, Appendix D, allows for credit to be taken for the HEPA filters installed on

the grinder equipment. The calculated source term therefore provides a conservative basis on which to determine compliance with USEPA guidance in 40 *CFR* 61.

To determine whether the laboratory complies with the 10 mrem per year limit specified in 40 *CFR* 61, Subpart I, the annual inventory handled by the laboratory had to be determined. The actual number of samples handled by the laboratory was reported as shown in Table B-10. With these data, the following equation was used to calculate laboratory emissions from the operations conducted in CY 2023.

$$\text{Emission Rate (Ci/year)} = C * [(N_1 * F_1) + (N_2 * F_2)] * 1{,}000 \text{ g/sample} * 1E\text{-}12 \text{ (Ci/pCi)}$$

where:

- C = the concentration of a radionuclide of concern in a sample type (in pCi/g)
- N_1 = the number of samples involved in a drying and grinding operation
- N_2 = the number of samples involved in a separations operation
- F = the appropriate correction factor (i.e., 0.001 for drying and grinding [F_1] or 0.005 for dissolution [F_2])

Table B-10. Laboratory Annual Sample Inventory for CY 2023

Site	Type	Gamma Spectroscopy[a]	Isotopic Ra[a,b]	Isotopic Th[a,b]	Isotopic U[a,b]	Total Drying and Grinding[a,c]	Total Separations[a,d]
Latty Avenue Properties	Soil	0	0	0	0	0	0
Latty Avenue Properties	Water	0	22	22	22	0	66
Iowa Army Ammunitions Plant (IAAAP)	Soil	176	0	0	170	176	170
IAAAP	Water	0	0	0	19	0	19
SLAPS	Soil	0	0	0	0	0	0
SLAPS	Water	0	22	22	22	0	66
SLAPS VPs	Soil	2,239	2,227	9	2	2,239	2,238
SLAPS VPs	Water	29	89	76	90	0	255
CWC	Sediment (soil)	1,223	1,312	0	0	1,312	1,312
CWC	Water	1	1	1	1	0	3
SLDS	Soil	492	507	2	2	507	511
SLDS	Water		117	118	117	0	352
		HISS and Latty Avenue VPs Total				0	66
		IAAAP Total				176	189
		SLAPS, SLAPS VPs, and CWC Total				3,551	3,874
		SLDS Total				507	863
		Grand Total				**4,234**	**4,992**

[a] Data obtained from St. Louis FUSRAP database for samples analyzed in 2023.
[b] Assumes isotopic Ra, Th, and U occur in separate and distinct processes.
[c] Assumes all soil samples went through a drying and grinding process.
[d] Assumes all soil and water samples for isotopic Ra, Th, and U went through a separations process.
Notes: CWC samples use SLAPS characterization data to determine release rates.

6.5.2 Laboratory Total Airborne Radioactive Particulate Emission Rates

The project laboratory total CY 2023 emission rate was input into the USEPA CAP88-PC code. The total emission rates are shown in Table B-11 as the calculated emissions from laboratory operations. The result was then used to calculate total dose to the hypothetical maximally exposed receptor. Calculation of emission rates is contained in Attachment B-1 of this NESHAP report.

Table B-11. Laboratory Total Airborne Radioactive Particulate Emission Rates for CY 2023

Radionuclide	Emission (Ci/year)[a]
U-238	7.3E-08
U-235	3.9E-09
U-234	7.3E-08
Ra-226	3.6E-08
Th-232	2.6E-08
Th-230	9.6E-08
Th-228	2.8E-08
Ra-224	2.6E-08
Th-234	7.3E-08
Pa-234m	7.3E-08
Th-231	3.9E-09
Ra-228	2.3E-08
Ac-228	2.3E-08
Pa-231	9.9E-11
Ac-227	1.9E-09

[a] Total emission rate is the sum of individual emission rates determined using the calculation in Section 6.5.1 of this NESHAP report.

6.6 CAP88-PC RESULTS

The CAP88-PC report is contained in Attachment B-2 of this NESHAP report. The stack factor input was 6 m high and 0.3 m in diameter. This evaluation demonstrates that all project laboratory critical receptors receive less than 10 percent of the dose standard prescribed in 40 *CFR* 61.102; therefore, the laboratory is exempt from the reporting requirement of 40 *CFR* 61.104(a). The results are summarized in Table B-12.

Table B-12. Laboratory CAP88-PC Results for Critical Receptors for CY 2023

Receptor	Distance (m)	Direction from Site	Dose (mrem/year)
Nearest Residence[a]	1,600	Northwest	<0.1
Farm[a]	1,700	Northeast	<0.1
Business[b]	50	Northwest	<0.1
School[b]	2,300	Northeast	<0.1

[a] Occupancy factor is 100 percent for the nearest residence and farm.
[b] Corrected for the 23 percent occupancy factor (40 hours per week for 50 weeks per year).

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7.0 REFERENCES

USEPA 1989. U.S. Environmental Protection Agency, Office of Radiation Programs, Washington, D.C. *A Guide for Determining Compliance with the Clean Air Act Standards for Radionuclide Emissions from NRC-Licensed and Non-DOE Federal Facilities*. EPA 520/1-89-002. October 1989.

USEPA 2020. U.S. Environmental Protection Agency. CAP88-PC Version 4.1 Computer Code, U.S. Environmental Protection Agency. March 2020.

18 *U.S. Code* 1001. *U.S. Code,* Title 18, Crimes and Criminal Procedure; Part I, Crimes; Chapter 47, Fraud and False Statements; Section 1001, Statements or entries generally.

40 *CFR* 61, Subpart I. *National Emission Standards for Radionuclide Emissions From Federal Facilities Other Than Nuclear Regulatory Commission Licensees and Not Covered by Subpart H*.

40 *CFR* 61, Appendix D. *Methods for Estimating Radionuclide Emissions.*

40 *CFR* 61, Appendix E. *Compliance Procedures Methods for Determining Compliance with Subpart I.*

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APPENDIX B

FIGURES

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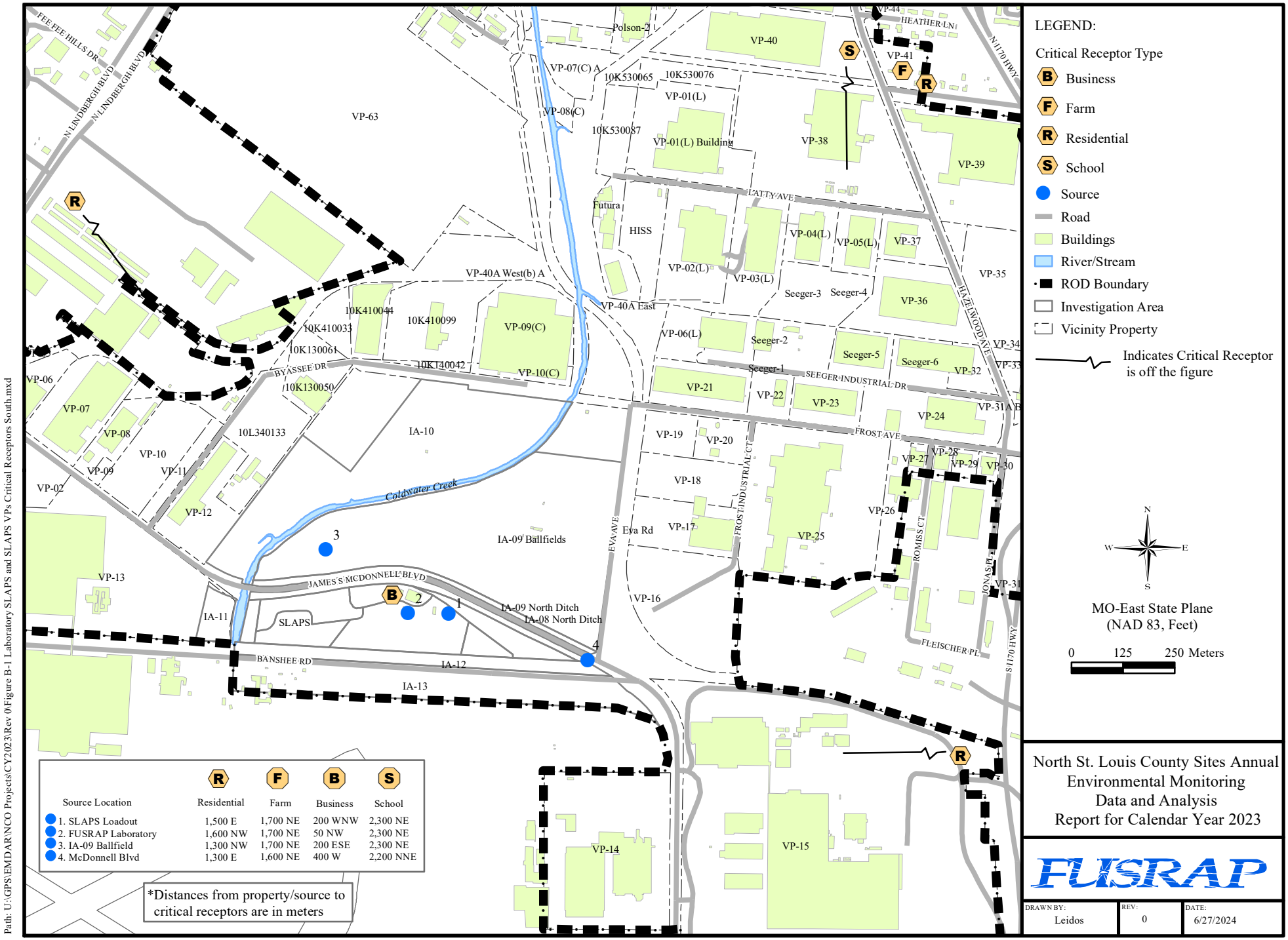
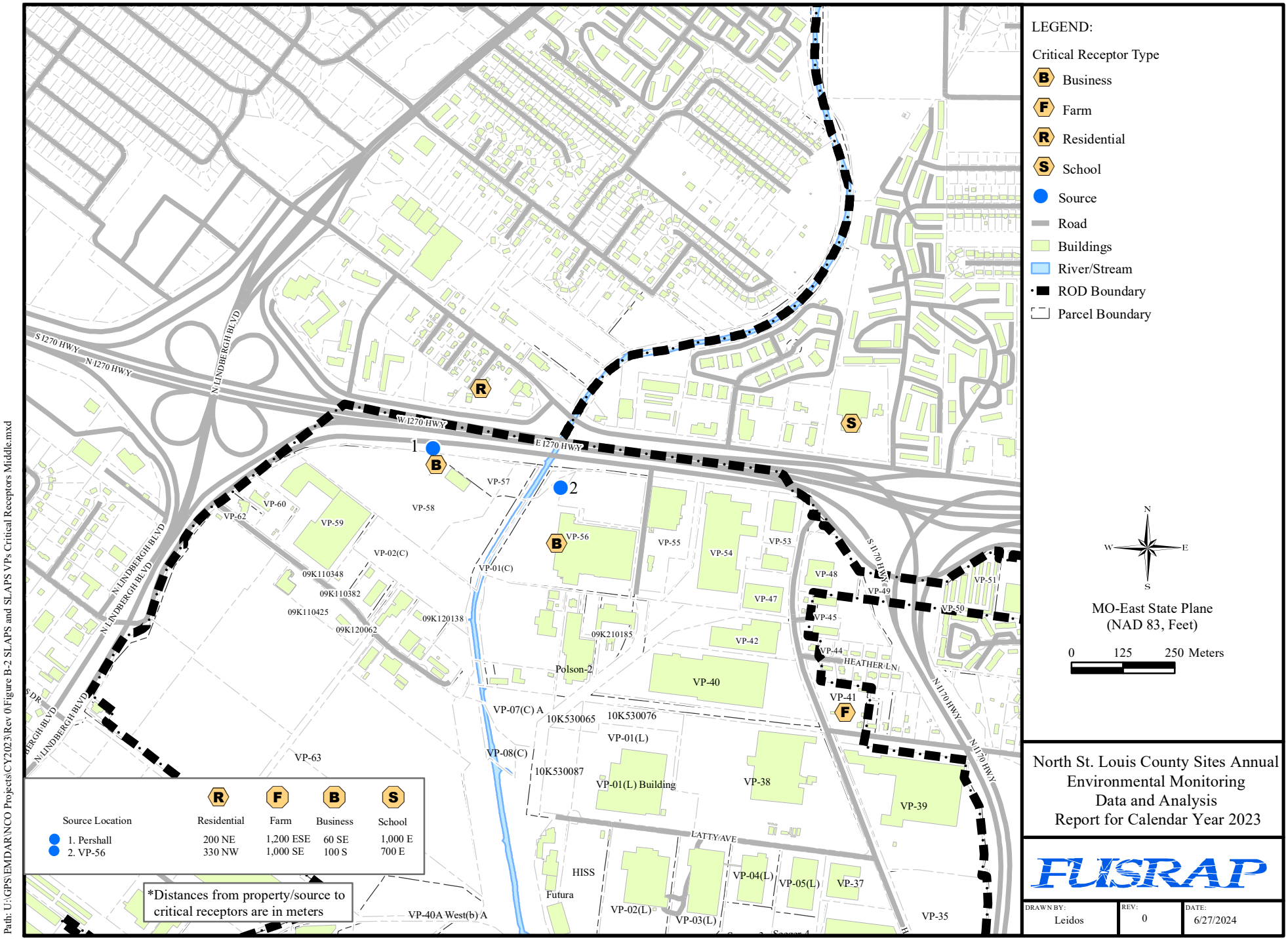
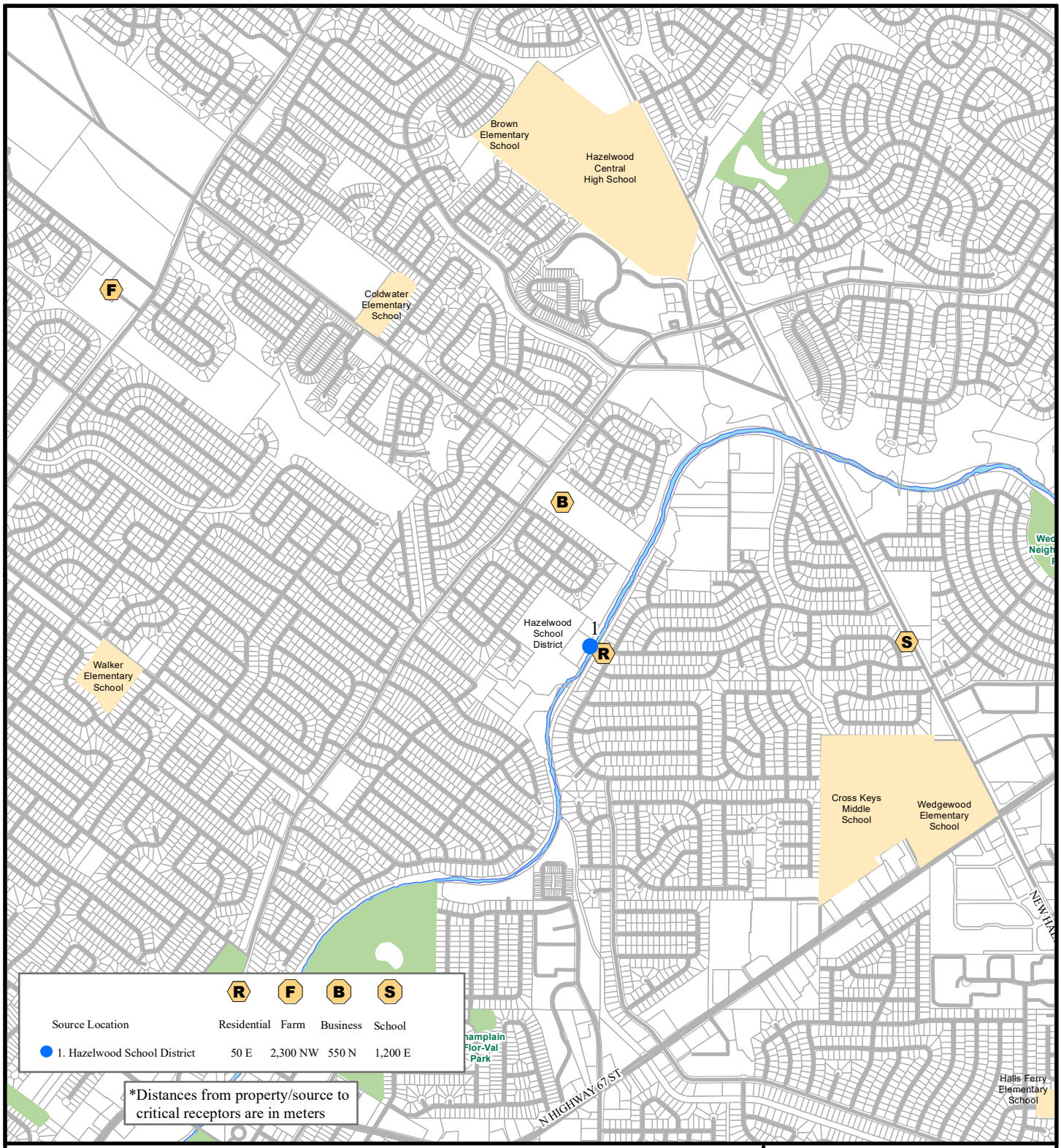


Figure B-1. FUSRAP St. Louis Radioanalytical Laboratory, SLAPS, and SLAPS VPs Critical Receptors - South



Path: U:\GPS\EMDAR\NCO Projects\CY2023\Rev 0\Figure B-2 SLAPS and SLAPS VPs Critical Receptors Middle.mxd

Figure B-2. SLAPS and SLAPS VPs Critical Receptors - Middle



North St. Louis County Sites Annual Environmental Monitoring Data and Analysis Report for Calendar Year 2023

FUSRAP

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Figure B-3 SLAPS and SLAPS VPs Critical Receptors - North

ATTACHMENT B-1

CALCULATED EMISSION RATES

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Table B-1-1. SLAPS and SLAPS VPs Soil Radionuclide Concentrations for CY 2023

Property	CWC-386, CWC-387, and CWC-388 (Northwest Bank of CWC)[a]	IA-09 Ballfields[a]	James S McDonnell Boulevard[a]	Pershall Road[a]	VP-56[a]	SLAPS Loadout[a]
Radionuclide	**Average Concentration (pCi/g)**					
U-238	0.80	2.30	0.67	0.76	0.74	1.86
U-235	0.04	0.16	0.02	0.06	0.07	0.13
U-234	0.80	2.30	0.67	0.76	0.74	1.86
Ra-226	1.04	7.82	0.87	0.90	0.89	5.86
Ra-228	0.61	0.66	0.56	0.55	0.56	0.64
Th-232	0.61	0.66	0.56	0.55	0.56	0.64
Th-230	6.64	166.16	2.55	5.18	1.96	120.33
Th-228	0.61	0.66	0.56	0.55	0.56	0.64
Pa-231[c]	0	2.60	0.03	0	0	1.85
Ac-227[c]	0.06	2.83	0	0.05	0.02	2.04

[a] Soil radionuclide concentrations derived from the average soil radionuclide concentrations from the 2023 railcar concentrations.

Table B-1-2. SLAPS and SLAPS VPs Average Gross Alpha and Beta Airborne Particulate Emissions for CY 2023

Location	Average Concentration (µCi/mL) for Location[a]	
	Gross Alpha	Gross Beta
CWC-386, CWC-387, and CWC-388 (Northwest Bank of CWC)	5.16E-15	4.14E-14
IA-09 Ballfields	3.96E-15	2.91E-14
James S McDonnell Boulevard	9.08E-15	4.29E-14
Pershall Road	4.26E-15	3.42E-14
SLAPS Loadout	3.65E-15	3.00E-14
VP-56	4.04E-15	3.45E-14
Background Concentration[b]	4.96E-15	2.41E-14

[a] Average concentration values for the sampling period by location.
[b] These concentrations are provided for informational purposes only.

Table B-1-3. SLAPS and SLAPS VPs RA Data for CY 2023

Location	Area (m^2)	Start Date[a]	End Date[a]
CWC-386, CWC-387, and CWC-388 (Northwest Bank of CWC), 3N, Survey Unit (SU)-1A	133	07/24/23	12/19/23
CWC-386, CWC-387, and CWC-388 (Northwest Bank of CWC), 3N, SU-1B	260	07/24/23	12/21/23
CWC-386, CWC-387, and CWC-388 (Northwest Bank of CWC), 3S, SU-1C	197	07/24/23	12/26/23
CWC-386, CWC-387, and CWC-388 (Northwest Bank of CWC), 3S, SU-1D	229	07/24/23	12/26/23
CWC-386, CWC-387, and CWC-388 (Northwest Bank of CWC), 3N and 3S, SU-1E, SU-1F, SU-1G, SU-1H, SU-1I, SU-1J, and SU-1K	1,174	12/11/23	12/31/23
Ballfields, Phase 3, SU-30A	1,342	04/24/23	05/16/23
Ballfields, Phase 3, SU-30B	476	05/22/23	06/30/23
Ballfields, Phase 3, SU-31	1,814	05/29/23	10/17/23
Ballfields, Phase 3, SU-32A	464	09/26/23	12/31/23
James S McDonnell Boulevard, North Trench, SU-1A	15	10/17/23	10/18/23
James S McDonnell Boulevard, North Trench, SU-1B	23	10/17/23	10/19/23
James S McDonnell Boulevard, North Trench, SU-1C	8	10/17/23	11/21/23
Pershall Road Area, SU-1C	416	01/01/23	02/15/23
Pershall Road Area, SU-1D	547	02/02/23	03/08/23
Pershall Road Area, SU-2A	398	01/01/23	01/12/23
Pershall Road Area, SU-2B	411	01/01/23	01/04/23
Pershall Road Area, SU-2C	405	01/26/23	02/24/23
Pershall Road Area, SU-2D	210	02/09/23	02/24/23
Pershall Road Area, SU-3A	446	02/13/23	03/23/23
Pershall Road Area, SU-3B	370	02/20/23	03/24/23
Pershall Road Area, SUs-4A and 4B	700	04/24/23	05/24/23
VP-56, SU-3D	241	01/01/23	02/09/23
SLAPS Loadout	5,000	01/01/23	12/31/23

[a] Open/close dates set to start or stop at CY boundary.
[b] RA includes excavation and loadout activities.

Table B-1-4. SLAPS and SLAPS VPs Average Surface Area and Flow Rate per Location for CY 2023

Location	Total Days	Surface Area × Total Days	Average Surface Area/Year (m2)	Diameter of Stack D = (1.3 A)1/2 (m)	Flow Rate F = V π (D)2/4 (m3/minute)
CWC-386, CWC-387, and CWC-388 (Northwest Bank of CWC)					
CWC-386, CWC-387, and CWC-388, 3N, SU-1A	149	19,817	---	---	---
CWC-386, CWC-387, and CWC-388, 3N, SU-1B	151	39,260	---	---	---
CWC-386, CWC-387, and CWC-388, 3S, SU-1C	156	30,732	---	---	---
CWC-386, CWC-387, and CWC-388, 3S, SU-1D	156	35,724	---	---	---
CWC-386, CWC-387, and CWC-388, 3N and 3S, SU-1E, SU-1F, SU-1G, SU-1H, SU-1I, SU-1J, and SU-1K	21	24,654	---	---	---
	Total	**150,187**	**411**	**23**	**1.1E+05**
IA-09 Ballfields					
Ballfields, Phase 3, SU-30A	23	30,866	---	---	---
Ballfields, Phase 3, SU-30B	40	19,040	---	---	---
Ballfields, Phase 3, SU-31	142	257,588	---	---	---
Ballfields, Phase 3, SU-32A	97	45,008	---	---	---
	Total	**352,502**	**966**	**35**	**2.6E+05**
James S McDonnell Blvd					
James S McDonnell Boulevard, North Trench, SU-1A	2	30	---	---	---
James S McDonnell Boulevard, North Trench, SU-1B	3	69	---	---	---
James S McDonnell Boulevard, North Trench, SU-1C	36	288	---	---	---
	Total	**387**	**1**	**1**	**2.9E+02**
Pershall					
Pershall Road Area, SU-1C	46	19,136	---	---	---
Pershall Road Area, SU-1D	35	19,145	---	---	---
Pershall Road Area, SU-2A	12	4,776	---	---	---
Pershall Road Area, SU-2B	4	1,644	---	---	---
Pershall Road Area, SU-2C	30	12,150	---	---	---
Pershall Road Area, SU-2D	16	3,360	---	---	---
Pershall Road Area, SU-3A	39	17,394	---	---	---
Pershall Road Area, SU-3B	33	12,210	---	---	---
Pershall Road Area, SU-4A and SU-4B	31	21,700	---	---	---
	Total	**111,515**	**306**	**20**	**8.3E+04**
VP-56					
VP-56, SU-3D	40	9,640	---	---	**---**
	Total	**9,640**	**26**	**6**	**7.2E+03**
SLAPS Loadout					
SLAPS Loadout	365	1,825,000	---	---	---
	Total	**1,825,000**	**5,000**	**81**	**1.4E+06**

Note: --- not applicable

Table B-1-5. SLAPS and SLAPS VPs Airborne Radioactive Particulate Emissions Based on Site Perimeter Air Samples for CY 2023

Property	CWC-386, CWC-387, and CWC-388 (Northwest Bank of CWC)			IA-09 Ballfields			James S McDonnell Boulevard		
Radionuclide	Activity Fraction[a]	Emission Concentration (µCi/cm^3)[b]	Release Rate (Ci/year)[c]	Activity Fraction[a]	Emission Concentration (µCi/cm^3)[b]	Release Rate (Ci/year)[c]	Activity Fraction[a]	Emission Concentration (µCi/cm^3)[b]	Release Rate (Ci/year)[c]
U-238[a]	0.07	3.7E-16	2.2E-05	0.01	4.9E-17	6.8E-06	0.10	9.3E-16	1.4E-07
U-235[a]	0.003	1.8E-17	1.1E-06	0.001	3.4E-18	4.7E-07	0.004	3.2E-17	4.9E-09
U-234	0.07	3.7E-16	2.2E-05	0.01	4.9E-17	6.8E-06	0.10	9.3E-16	1.4E-07
Ra-226[a]	0.09	4.8E-16	2.8E-05	0.04	1.7E-16	2.3E-05	0.13	1.2E-15	1.8E-07
Th-232[a]	0.05	2.8E-16	1.7E-05	0.00	1.4E-17	2.0E-06	0.09	7.8E-16	1.2E-07
Th-230[a]	0.05	2.8E-16	1.7E-05	0.89	3.5E-15	4.9E-04	0.39	3.5E-15	5.4E-07
Th-228[a]	0.59	3.0E-15	1.8E-04	0.00	1.4E-17	2.0E-06	0.09	7.8E-16	1.2E-07
Ra-224[d]	0.05	2.8E-16	1.7E-05	0.00	1.4E-17	2.0E-06	0.09	7.8E-16	1.2E-07
Th-234[d]	0.28	1.2E-14	6.8E-04	0.38	1.1E-14	1.5E-03	0.27	1.2E-14	1.7E-06
Pa-234m[d]	0.28	1.2E-14	6.8E-04	0.38	1.1E-14	1.5E-03	0.27	1.2E-14	1.7E-06
Th-231[d]	0.01	5.7E-16	3.4E-05	0.03	7.6E-16	1.0E-04	0.01	4.0E-16	6.1E-08
Ra-228[a]	0.21	8.9E-15	5.2E-04	0.11	3.2E-15	4.4E-04	0.23	9.7E-15	1.5E-06
Ac-228[d]	0.21	8.9E-15	5.2E-04	0.11	3.2E-15	4.4E-04	0.23	9.7E-15	1.5E-06
Pa-231[a,d]	0.003	1.8E-17	1.1E-06	0.01	5.5E-17	7.6E-06	0.01	4.6E-17	6.9E-09
Ac-227[a,d]	0.01	2.9E-17	1.7E-06	0.02	6.0E-17	8.3E-06	0.01	4.6E-17	6.9E-09

[a] Average soil concentrations are presented in Table B-1-1.

[b] Emission concentration is equal to the activity fraction * the gross alpha or gross beta airborne particulate concentrations listed in Table B-1-2.

[c] Release rate based on 365-day period at measured flow rate (Table B-1-4) for each site as determined from the average annual wind speed (4.446 m per second) and calculated site area (Table B-1-4). (Note: 1 mL = 1 cm^3.)

[d] If sample data were not available or the average was less than zero, the radionuclide was assumed to be in secular equilibrium with the parent radionuclide.

Table B-1-5. SLAPS and SLAPS VPs Airborne Radioactive Particulate Emissions Based on Site Perimeter Air Samples for CY 2023 (Continued)

Property	Pershall Road			VP-56			SLAPS Loadout		
Radionuclide	Activity Fraction[a]	Emission Concentration (µCi/cm^3)[b]	Release Rate (Ci/year)[c]	Activity Fraction[a]	Emission Concentration (µCi/cm^3)[b]	Release Rate (Ci/year)[c]	Activity Fraction[a]	Emission Concentration (µCi/cm^3)[b]	Release Rate (Ci/year)[c]
U-238[a]	0.08	3.4E-16	1.5E-05	0.12	4.8E-16	1.8E-06	0.01	5.0E-17	3.6E-05
U-235[a]	0.006	2.5E-17	1.1E-06	0.01	4.6E-17	1.8E-07	0.001	3.4E-18	2.4E-06
U-234	0.08	3.4E-16	1.5E-05	0.12	4.8E-16	1.8E-06	0.01	5.0E-17	3.6E-05
Ra-226[a]	0.10	4.1E-16	1.8E-05	0.14	5.8E-16	2.2E-06	0.04	1.6E-16	1.1E-04
Th-232[a]	0.06	2.5E-16	1.1E-05	0.09	3.6E-16	1.4E-06	0.005	1.7E-17	1.2E-05
Th-230[a]	0.55	2.3E-15	1.0E-04	0.32	1.3E-15	4.8E-06	0.89	3.2E-15	2.3E-03
Th-228[a]	0.06	2.5E-16	1.1E-05	0.09	3.6E-16	1.4E-06	0.005	1.7E-17	1.2E-05
Ra-224[d]	0.06	2.5E-16	1.1E-05	0.09	3.6E-16	1.4E-06	0.005	1.7E-17	1.2E-05
Th-234[d]	0.28	9.7E-15	4.2E-04	0.28	9.6E-15	3.6E-05	0.36	1.1E-14	7.8E-03
Pa-234m[d]	0.28	9.7E-15	4.2E-04	0.28	9.6E-15	3.6E-05	0.36	1.1E-14	7.8E-03
Th-231[d]	0.02	7.1E-16	3.1E-05	0.03	9.2E-16	3.5E-06	0.02	7.4E-16	5.3E-04
Ra-228[a]	0.21	7.0E-15	3.1E-04	0.21	7.2E-15	2.7E-05	0.12	3.7E-15	2.7E-03
Ac-228[d]	0.21	7.0E-15	3.1E-04	0.21	7.2E-15	2.7E-05	0.12	3.7E-15	2.7E-03
Pa-231[a,d]	0.006	2.5E-17	1.1E-06	0.01	4.6E-17	1.8E-07	0.01	5.0E-17	3.6E-05
Ac-227[a,d]	0.006	2.5E-17	1.1E-06	0.01	4.6E-17	1.8E-07	0.02	5.5E-17	3.9E-05

[a] Average soil concentrations are presented in Table B-1-1.

[b] Emission concentration is equal to the activity fraction * the gross alpha or gross beta airborne particulate concentrations listed in Table B-1-2.

[c] Release rate based on 365-day period at measured flow rate (Table B-1-4) for each site as determined from the average annual wind speed (4.446 m per second) and calculated site area (Table B-1-4). (Note: 1 mL = 1 cm^3.)

[d] If sample data were not available or the average was less than zero, the radionuclide was assumed to be in secular equilibrium with the parent radionuclide.

Table B-1-6. USACE St. Louis FUSRAP Laboratory Analyses for CY 2023

Site	Type	Gamma Spectroscopy	Isotopic Ra[a]	Isotopic Th[a]	Isotopic U[a]	Total Drying and Grinding[b]	Total Separations[c]
Latty VPs	Soil	0	0	0	0	0	0
Latty VPs	Water	0	22	22	22	0	66
IAAAP	Soil	176	0	0	170	176	170
IAAAP	Water	0	0	0	19	0	19
SLAPS	Soil	0	0	0	0	0	0
SLAPS	Water	0	22	22	22	0	66
SLAPS VPs	Soil	2,239	2,227	9	2	2,239	2,238
SLAPS VPs	Water	29	89	76	90	0	255
CWC	Sediment (Soil)	1,223	1,312	0	0	1,312	1,312
CWC	Water	1	1	1	1	0	3
SLDS	Soil	492	507	2	2	507	511
SLDS	Water		117	118	117	0	352
		Latty Avenue Properties Total				0	66
		IAAAP Total				176	189
		SLAPS, SLAPS VPs, and CWC Total				3,551	3,874
		SLDS Total				507	863
		Grand Total				4,234	4,992

[a] Assumes isotopic Ra, Th, and U occur in separate and distinct processes.
[b] Assumes all soil samples went through a drying and grinding process.
[c] Assumes all soil and water samples for isotopic Ra, Th, and U went through a separations process.
Notes: Data provided by the project laboratory for CY 2023.

Table B-1-7. SLDS Property Laboratory Samples for CY 2023

Radionuclide	Average (pCi/g)	No. Samples (Drying and Grinding)	No. Samples (Separations)	Emission Rate (Ci/year)[a]
U-238[b]	9.7	507	863	4.7E-08
U-235[b]	0.6	507	863	2.8E-09
U-234[b,c]	9.7	507	863	4.7E-08
Ra-226[b]	1.8	507	863	8.8E-09
Th-232[b]	0.8	507	863	3.6E-09
Th-230[b]	2.6	507	863	1.3E-08
Th-228[b]	0.8	507	863	3.9E-09
Ra-224[c]	0.8	507	863	3.6E-09
Th-234[c]	9.7	507	863	4.7E-08
Pa-234m[c]	9.7	507	863	4.7E-08
Th-231[c]	0.6	507	863	2.8E-09
Ra-228[b]	0.7	507	863	3.3E-09
Ac-228[c]	0.7	507	863	3.3E-09
Pa-231[c]	0.02	507	863	9.9E-11
Ac-227[c]	0.2	507	863	8.9E-10

[a] Emission Rate = (0.001 * Avg * No. Samples [drying and grinding] + 0.005 * Avg * No. Samples [separations]) * (1,000 g * 1E-12 Ci/pCi).
[b] Average soil concentration from all data analyzed at the project laboratory during 2023.
[c] When data were not available, the radionuclide was assumed to be in secular equilibrium with the parent radionuclide.

Table B-1-8. SLAPS and SLAPS VPs Laboratory Samples for CY 2023

Radionuclide	Average (pCi/g)	No. Samples (Drying and Grinding)	No. Samples (Separations)	Emission Rate (Ci/year)[a]
U-238[b]	1.1	3,551	3,874	2.5E-08
U-235[b]	0.05	3,551	3,874	1.1E-09
U-234[b,c]	1.1	3,551	3,874	2.5E-08
Ra-226[b]	1.1	3,551	3,874	2.6E-08
Th-232[b]	0.9	3,551	3,874	2.1E-08
Th-230[b]	3.6	3,551	3,874	8.3E-08
Th-228[b]	1.0	3,551	3,874	2.3E-08
Ra-224[c]	0.9	3,551	3,874	2.1E-08
Th-234[c]	1.1	3,551	3,874	2.5E-08
Pa-234m[c]	1.1	3,551	3,874	2.5E-08
Th-231[c]	0.05	3,551	3,874	1.1E-09
Ra-228[b]	0.8	3,551	3,874	1.9E-08
Ac-228[c]	0.8	3,551	3,874	1.9E-08
Pa-231[c]	0.00	3,551	3,874	0
Ac-227[c]	0.04	3,551	3,874	1.0E-09

[a] Emission Rate = (0.001 * Avg * No. Samples [drying and grinding] + 0.005 * Avg * No. Samples [separations]) * (1,000 g * 1E-12 Ci/pCi).
[b] Average soil concentration from all data analyzed at the project laboratory during 2023.
[c] When data were not available, the radionuclide was assumed to be in secular equilibrium with the parent radionuclide.

Table B-1-9. Latty Avenue Property Laboratory Samples for CY 2023

Radionuclide	Average (pCi/g)	No. Samples (Drying and Grinding)	No. Samples[a] (Separations)	Emission Rate (Ci/year)[a]
U-238[b]	0.003	0	66	1.1E-11
U-235[b]	0.0002	0	66	5.4E-14
U-234[b,c]	0.004	0	66	1.3E-12
Ra-226[b]	0.0003	0	66	9.3E-14
Th-232[b]	0.00007	0	66	2.2E-14
Th-230[b]	0.001	0	66	3.1E-13
Th-228[b]	0.0004	0	66	1.3E-13
Ra-224[c]	0.00007	0	66	2.2E-14
Th-234[c]	0.003	0	66	1.1E-12
Pa-234m[c]	0.003	0	66	1.1E-12
Th-231[c]	0.0002	0	66	5.4E-14
Ra-228[b]	0.0004	0	66	1.3E-13
Ac-228[c]	0.0004	0	66	1.3E-13
Pa-231[b]	0.0002	0	66	5.4E-14
Ac-227[b]	0.0002	0	66	5.4E-14

[a] Emission Rate = (0.001 * Avg * No. Samples [drying and grinding] + 0.005 * Avg * No. Samples [separations]) * (1,000 g * 1E-12 Ci/pCi).
[b] Average soil concentration from all data analyzed at the project laboratory during 2023.
[c] When data were not available, the radionuclide was assumed to be in secular equilibrium with the parent radionuclide.

Table B-1-10. Iowa Army Ammunition Plant Laboratory Samples for CY 2023

Radionuclide	Average (pCi/g)	No. Samples (Drying and Grinding)	No. Samples (Separations)	Emission Rate (Ci/year)[a]
U-238[b]	0.8	176	189	9.5E-10
U-235[b]	0.05	176	189	5.1E-11
U-234[c]	0.7	176	189	7.5E-10
Ra-226[b]	0.8	176	189	9.2E-10
Th-232[b]	0.7	176	189	8.2E-10
Th-230[b]	1.0	176	189	1.1E-09
Th-228[b]	0.7	176	189	8.2E-10
Ra-224[c]	0.7	176	189	8.2E-10
Th-234[c]	0.8	176	189	9.5E-10
Pa-234m[c]	0.8	176	189	9.5E-10
Th-231[c]	0.0	176	189	5.1E-11
Ra-228[b]	0.7	176	189	8.2E-10
Ac-228[c]	0.7	176	189	8.2E-10
Pa-231[c]	0.0	176	189	0
Ac-227[c]	0.0	176	189	0

[a] Emission Rate = (0.001 * Avg * No. Samples [drying and grinding] + 0.005 * Avg * No. Samples [separations]) * (1,000 g * 1E-12 Ci/pCi).
[b] Average soil concentration from all IAAAP data analyzed at the project laboratory during 2023.
[c] When data were not available, the radionuclide was assumed to be in secular equilibrium with the parent radionuclide.

Table B-1-11. Total Laboratory Airborne Radioactive Particulate Emission Rate for CY 2023

Radionuclide	Emission Rate (Ci/year)				
	SLDS	SLAPS and SLAPS VPs	Latty Avenue Properties	IAAAP	Total Across Laboratory[a]
U-238	4.7E-08	2.5E-08	9.5E-10	1.1E-11	7.3E-08
U-235	2.8E-09	1.1E-09	5.1E-11	5.4E-14	3.9E-09
U-234	4.7E-08	2.5E-08	7.5E-10	1.3E-12	7.3E-08
Ra-226	8.8E-09	2.6E-08	9.2E-10	9.3E-14	3.6E-08
Th-232	3.6E-09	2.1E-08	8.2E-10	2.2E-14	2.6E-08
Th-230	1.3E-08	8.3E-08	1.1E-09	3.1E-13	9.6E-08
Th-228	3.9E-09	2.3E-08	8.2E-10	1.3E-13	2.8E-08
Ra-224	3.6E-09	2.1E-08	8.2E-10	2.2E-14	2.6E-08
Th-234	4.7E-08	2.5E-08	9.5E-10	1.1E-12	7.3E-08
Pa-234m	4.7E-08	2.5E-08	9.5E-10	1.1E-12	7.3E-08
Th-231	2.8E-09	1.1E-09	5.1E-11	5.4E-14	3.9E-09
Ra-228	3.3E-09	1.9E-08	8.2E-10	1.3E-13	2.3E-08
Ac-228	3.3E-09	1.9E-08	8.2E-10	1.3E-13	2.3E-08
Pa-231	9.9E-11	0	0	5.4E-14	9.9E-11
Ac-227	8.9E-10	1.0E-09	5.0E-11	5.4E-14	1.9E-09

[a] Total emission rate is the sum of the SLDS, the SLAPS, the SLAPS VPs, and the IAAAP emission rates.

ATTACHMENT B-2

CAP88-PC RUNS

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CAP88-PC RUNS FOR THE SLAPS AND SLAPS VICINITY PROPERTIES

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CAP88 OUTPUT RESULTS

CWC-386, CWC-387, and CWC-388 (Northwest Bank of CWC)

D O S E A N D R I S K S U M M A R I E S

Non-Radon Individual Assessment
Tue Mar 19 09:30:07 2024

Facility: CWC-386, CWC-387, and CWC-388 (Northwest Bank of CWC)
Address:
City: Florissant
State: MO Zip: 63031

Source Category: Area
Source Type: Area
Emission Year: 2023
DOSE Age Group: Adult

Comments: Air

Dataset Name: 2023 CWC-386, CWC-387, and CWC-388
Dataset Date: Mar 19, 2024 09:30 AM
Wind File: C:\Users\randy\OneDrive\Documents\CAP88\Wind Files\13994.WND

Tue Mar 19 09:30:07 2024 SUMMARY
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ORGAN DOSE EQUIVALENT SUMMARY

Organ	Selected Individual (mrem)
Adrenals	7.09E-01
UB_Wall	7.84E-01
Bone_Sur	2.61E+01
Brain	7.46E-01
Breasts	8.11E-01
St_Wall	7.54E-01
SI_Wall	7.49E-01
ULI_Wall	7.80E-01
LLI_Wall	8.49E-01
Kidneys	1.21E+00
Liver	1.79E+00
Muscle	8.35E-01
Ovaries	8.71E-01
Pancreas	7.17E-01
R_Marrow	2.62E+00
Skin	5.33E+00
Spleen	7.58E-01
Testes	9.75E-01
Thymus	7.50E-01
Thyroid	7.75E-01
GB_Wall	7.18E-01
Ht_Wall	7.46E-01
Uterus	7.41E-01
ET_Reg	6.97E+00
Lung	2.17E+01
Effectiv	3.90E+00

PATHWAY EFFECTIVE DOSE EQUIVALENT SUMMARY

Pathway	Selected Individual (mrem)
INGESTION	2.04E-01
INHALATION	2.96E+00
AIR IMMERSION	4.65E-05
GROUND SURFACE	7.33E-01
INTERNAL	3.16E+00
EXTERNAL	7.33E-01
TOTAL	3.90E+00

NUCLIDE EFFECTIVE DOSE EQUIVALENT SUMMARY

Nuclide	Selected Individual (mrem)
U-238	1.77E-02
Th-234	2.49E-03
Pa-234m	6.92E-03
Pa-234	1.36E-04
U-234	2.14E-02
Th-230	8.04E-02
Ra-226	3.45E-02
Rn-222	2.73E-05
Po-218	4.88E-10
Pb-214	1.78E-02
At-218	1.83E-09
Bi-214	1.04E-01
Rn-218	1.06E-11
Po-214	5.77E-06
Tl-210	4.07E-05
Pb-210	8.77E-05
Bi-210	1.42E-03
Hg-206	1.14E-10
Po-210	3.68E-07
Tl-206	3.31E-09
U-235	1.38E-03
Th-231	4.71E-05
Pa-231	3.56E-02
Ac-227	4.17E-02
Th-227	4.08E-04
Fr-223	3.84E-06
Ra-223	4.56E-04
Rn-219	1.98E-04
At-219	0.00E+00
Bi-215	8.88E-10
Po-215	6.03E-07
Pb-211	3.88E-04
Bi-211	1.60E-04
Tl-207	2.01E-04
Po-211	7.69E-08
Th-232	1.48E-01
Ra-228	6.48E-01
Ac-228	2.23E-01
Th-228	2.12E+00
Ra-224	1.55E-02
Rn-220	1.67E-04
Po-216	4.03E-06
Pb-212	3.66E-02
Bi-212	4.27E-02
Po-212	0.00E+00
Tl-208	2.95E-01
TOTAL	3.90E+00

CANCER RISK SUMMARY

Cancer	Selected Individual Total Lifetime Fatal Cancer Risk
Esophagu	8.18E-09
Stomach	3.17E-08
Colon	8.78E-08
Liver	3.19E-08
LUNG	2.61E-06
Bone	3.62E-08
Skin	5.34E-09
Breast	3.71E-08
Ovary	1.30E-08
Bladder	1.95E-08
Kidneys	7.37E-09
Thyroid	2.52E-09
Leukemia	4.83E-08
Residual	1.17E-07
Total	3.06E-06
TOTAL	3.06E-06

PATHWAY RISK SUMMARY

Pathway	Selected Individual Total Lifetime Fatal Cancer Risk
INGESTION	7.90E-08
INHALATION	2.60E-06
AIR IMMERSION	2.50E-11
GROUND SURFACE	3.84E-07
INTERNAL	2.68E-06
EXTERNAL	3.84E-07
TOTAL	3.06E-06

NUCLIDE RISK SUMMARY

Nuclide	Selected Individual Total Lifetime Fatal Cancer Risk
U-238	1.86E-08
Th-234	2.51E-09
Pa-234m	1.21E-09
Pa-234	7.41E-11
U-234	2.27E-08
Th-230	4.34E-08
Ra-226	3.17E-08
Rn-222	1.49E-11
Po-218	2.18E-16
Pb-214	9.53E-09
At-218	2.26E-16
Bi-214	5.50E-08
Rn-218	5.81E-18
Po-214	3.17E-12
Tl-210	2.17E-11
Pb-210	3.93E-11
Bi-210	1.57E-10
Hg-206	5.08E-17
Po-210	2.02E-13
Tl-206	3.72E-16
U-235	1.24E-09
Th-231	2.40E-11
Pa-231	3.50E-09
Ac-227	1.15E-08
Th-227	2.21E-10
Fr-223	1.43E-12
Ra-223	2.46E-10
Rn-219	1.08E-10
At-219	0.00E+00
Bi-215	3.96E-16
Po-215	3.31E-13
Pb-211	1.39E-10
Bi-211	8.73E-11
Tl-207	2.58E-11
Po-211	4.21E-14
Th-232	6.60E-08
Ra-228	3.04E-07
Ac-228	1.19E-07
Th-228	2.16E-06
Ra-224	1.68E-08
Rn-220	9.13E-11
Po-216	2.21E-12
Pb-212	1.99E-08
Bi-212	1.65E-08
Po-212	0.00E+00
Tl-208	1.61E-07
TOTAL	3.06E-06

Tue Mar 19 09:30:07 2024 SUMMARY
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INDIVIDUAL EFFECTIVE DOSE EQUIVALENT (mrem)
(All Radionuclides and Pathways)

	Distance (m)					
Direction	50	550	1200	2300	5000	
N	3.9E+00	1.9E-01	1.5E-01	1.4E-01	1.3E-01	Business
NNW	2.2E+00	1.6E-01	1.4E-01	1.3E-01	1.3E-01	
NW	2.4E+00	1.7E-01	1.4E-01	1.4E-01	1.3E-01	
WNW	2.8E+00	1.7E-01	1.4E-01	1.4E-01	1.3E-01	
W	2.2E+00	1.6E-01	1.4E-01	1.3E-01	1.3E-01	
WSW	1.2E+00	1.5E-01	1.4E-01	1.3E-01	1.3E-01	
SW	1.5E+00	1.5E-01	1.4E-01	1.3E-01	1.3E-01	
SSW	1.8E+00	1.6E-01	1.4E-01	1.3E-01	1.3E-01	Resident
S	1.7E+00	1.6E-01	1.4E-01	1.3E-01	1.3E-01	
SSE	1.3E+00	1.5E-01	1.4E-01	1.3E-01	1.3E-01	
SE	1.8E+00	1.6E-01	1.4E-01	1.3E-01	1.3E-01	
ESE	2.8E+00	1.7E-01	1.4E-01	1.4E-01	1.3E-01	
E	3.5E+00	1.8E-01	1.4E-01	1.4E-01	1.3E-01	Resident (50), School (1200)
ENE	2.9E+00	1.8E-01	1.4E-01	1.4E-01	1.3E-01	
NE	1.9E+00	1.6E-01	1.4E-01	1.3E-01	1.3E-01	Farm
NNE	1.7E+00	1.5E-01	1.4E-01	1.3E-01	1.3E-01	

Tue Mar 19 09:30:07 2024 SUMMARY
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INDIVIDUAL LIFETIME RISK (deaths)
(All Radionuclides and Pathways)

	Distance (m)				
Direction	50	550	1200	2300	5000
N	3.1E-06	9.6E-08	6.2E-08	5.5E-08	5.2E-08
NNW	1.7E-06	7.4E-08	5.7E-08	5.3E-08	5.2E-08
NW	1.8E-06	7.8E-08	5.8E-08	5.3E-08	5.2E-08
WNW	2.2E-06	8.4E-08	5.9E-08	5.4E-08	5.2E-08
W	1.7E-06	7.6E-08	5.7E-08	5.3E-08	5.2E-08
WSW	8.8E-07	6.3E-08	5.4E-08	5.2E-08	5.1E-08
SW	1.2E-06	6.8E-08	5.5E-08	5.3E-08	5.2E-08
SSW	1.4E-06	7.2E-08	5.6E-08	5.3E-08	5.2E-08
S	1.3E-06	7.0E-08	5.6E-08	5.3E-08	5.2E-08
SSE	9.6E-07	6.4E-08	5.4E-08	5.2E-08	5.2E-08
SE	1.3E-06	7.0E-08	5.6E-08	5.3E-08	5.2E-08
ESE	2.2E-06	8.3E-08	5.9E-08	5.4E-08	5.2E-08
E	2.8E-06	9.3E-08	6.1E-08	5.4E-08	5.2E-08
ENE	2.3E-06	8.6E-08	5.9E-08	5.4E-08	5.2E-08
NE	1.5E-06	7.2E-08	5.6E-08	5.3E-08	5.2E-08
NNE	1.3E-06	6.9E-08	5.5E-08	5.3E-08	5.2E-08

Note: Highlighted EDE values (mrem) are applicable to the critical receptors as defined in the Radionuclide Emissions NESHAP Report (Appendix B) taking into account the distance and direction from the applicable site to each receptor. The highlighted value assumes 100 percent occupancy.

CAP88 OUTPUT RESULTS

IA-09 Ballfields

D O S E A N D R I S K S U M M A R I E S

Non-Radon Individual Assessment
Wed Mar 06 09:36:17 2024

```
     Facility:  IA-9 Ballfields
      Address:
         City:  St. Louis
        State:  MO          Zip:  63042


Source Category:  Area
    Source Type:  Area
  Emission Year:  2023
 DOSE Age Group:  Adult

       Comments:  Air


   Dataset Name:  2023 IA-9 Ballfi
   Dataset Date:  Mar 6, 2024 09:36 AM
      Wind File:  C:\Users\randy\OneDrive\Documents\CAP88\Wind Files\13994.WND
```

Wed Mar 06 09:36:17 2024 SUMMARY
Page 1

ORGAN DOSE EQUIVALENT SUMMARY

Organ	Selected Individual (mrem)
Adrenals	6.47E-02
UB_Wall	7.04E-02
Bone_Sur	8.25E+00
Brain	6.75E-02
Breasts	7.27E-02
St_Wall	6.82E-02
SI_Wall	6.78E-02
ULI_Wall	7.13E-02
LLI_Wall	7.86E-02
Kidneys	1.83E-01
Liver	3.19E-01
Muscle	7.46E-02
Ovaries	1.24E-01
Pancreas	6.52E-02
R_Marrow	4.36E-01
Skin	4.18E-01
Spleen	6.85E-02
Testes	1.33E-01
Thymus	6.78E-02
Thyroid	6.99E-02
GB_Wall	6.54E-02
Ht_Wall	6.75E-02
Uterus	6.71E-02
ET_Reg	6.06E-01
Lung	1.46E+00
Effectiv	3.91E-01

PATHWAY EFFECTIVE DOSE EQUIVALENT SUMMARY

Pathway	Selected Individual (mrem)
INGESTION	2.17E-02
INHALATION	3.12E-01
AIR IMMERSION	4.19E-06
GROUND SURFACE	5.69E-02
INTERNAL	3.34E-01
EXTERNAL	5.69E-02
TOTAL	3.91E-01

NUCLIDE EFFECTIVE DOSE EQUIVALENT SUMMARY

Nuclide	Selected Individual (mrem)
U-238	5.37E-04
Th-234	4.56E-04
Pa-234m	3.00E-04
Pa-234	5.91E-06
U-234	6.49E-04
Th-230	2.27E-01
Ra-226	2.83E-03
Rn-222	2.95E-06
Po-218	5.27E-11
Pb-214	1.92E-03
At-218	1.98E-10
Bi-214	1.12E-02
Rn-218	1.15E-12
Po-214	6.23E-07
Tl-210	4.39E-06
Pb-210	9.22E-06
Bi-210	1.49E-04
Hg-206	1.20E-11
Po-210	3.86E-08
Tl-206	3.48E-10
U-235	5.84E-05
Th-231	2.78E-06
Pa-231	2.41E-02
Ac-227	1.99E-02
Th-227	2.38E-04
Fr-223	2.24E-06
Ra-223	2.66E-04
Rn-219	1.15E-04
At-219	0.00E+00
Bi-215	5.17E-10
Po-215	3.52E-07
Pb-211	2.26E-04
Bi-211	9.31E-05
Tl-207	1.17E-04
Po-211	4.48E-08
Th-232	1.71E-03
Ra-228	5.49E-02
Ac-228	1.67E-02
Th-228	2.34E-03
Ra-224	3.27E-04
Rn-220	1.12E-05
Po-216	2.71E-07
Pb-212	2.46E-03
Bi-212	2.87E-03
Po-212	0.00E+00
Tl-208	1.99E-02
TOTAL	3.91E-01

CANCER RISK SUMMARY

Cancer	Selected Individual Total Lifetime Fatal Cancer Risk
Esophagu	7.02E-10
Stomach	2.63E-09
Colon	7.35E-09
Liver	4.46E-09
LUNG	1.50E-07
Bone	6.14E-09
Skin	4.13E-10
Breast	2.98E-09
Ovary	1.49E-09
Bladder	1.67E-09
Kidneys	8.73E-10
Thyroid	2.09E-10
Leukemia	4.26E-09
Residual	9.66E-09
Total	1.93E-07
TOTAL	1.93E-07

PATHWAY RISK SUMMARY

Pathway	Selected Individual Total Lifetime Fatal Cancer Risk
INGESTION	7.38E-09
INHALATION	1.56E-07
AIR IMMERSION	2.21E-12
GROUND SURFACE	2.98E-08
INTERNAL	1.63E-07
EXTERNAL	2.98E-08
TOTAL	1.93E-07

NUCLIDE RISK SUMMARY

Nuclide	Selected Individual Total Lifetime Fatal Cancer Risk
U-238	5.61E-10
Th-234	5.04E-10
Pa-234m	5.26E-11
Pa-234	3.21E-12
U-234	6.86E-10
Th-230	1.22E-07
Ra-226	2.57E-09
Rn-222	1.61E-12
Po-218	2.35E-17
Pb-214	1.03E-09
At-218	2.44E-17
Bi-214	5.94E-09
Rn-218	6.27E-19
Po-214	3.42E-13
Tl-210	2.35E-12
Pb-210	4.13E-12
Bi-210	1.65E-11
Hg-206	5.33E-18
Po-210	2.12E-14
Tl-206	3.91E-17
U-235	5.19E-11
Th-231	1.98E-12
Pa-231	2.36E-09
Ac-227	5.50E-09
Th-227	1.29E-10
Fr-223	8.35E-13
Ra-223	1.44E-10
Rn-219	6.30E-11
At-219	0.00E+00
Bi-215	2.31E-16
Po-215	1.93E-13
Pb-211	8.08E-11
Bi-211	5.08E-11
Tl-207	1.50E-11
Po-211	2.45E-14
Th-232	7.59E-10
Ra-228	2.57E-08
Ac-228	8.89E-09
Th-228	2.36E-09
Ra-224	2.74E-10
Rn-220	6.14E-12
Po-216	1.49E-13
Pb-212	1.34E-09
Bi-212	1.11E-09
Po-212	0.00E+00
Tl-208	1.08E-08
TOTAL	1.93E-07

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INDIVIDUAL EFFECTIVE DOSE EQUIVALENT (mrem)
(All Radionuclides and Pathways)

Direction	Distance (m) 200	1300	1700	2000	2300	
N	3.9E-01	2.6E-02	2.2E-02	2.0E-02	1.9E-02	Resident
NNW	2.1E-01	2.0E-02	1.8E-02	1.7E-02	1.7E-02	
NW	2.4E-01	2.1E-02	1.9E-02	1.8E-02	1.7E-02	Resident
WNW	2.9E-01	2.3E-02	2.0E-02	1.8E-02	1.7E-02	
W	2.2E-01	2.1E-02	1.8E-02	1.7E-02	1.7E-02	
WSW	1.2E-01	1.7E-02	1.6E-02	1.6E-02	1.5E-02	
SW	1.6E-01	1.9E-02	1.7E-02	1.6E-02	1.6E-02	
SSW	1.9E-01	2.0E-02	1.8E-02	1.7E-02	1.6E-02	
S	1.7E-01	1.9E-02	1.7E-02	1.7E-02	1.6E-02	
SSE	1.2E-01	1.8E-02	1.6E-02	1.6E-02	1.5E-02	
SE	1.7E-01	1.9E-02	1.7E-02	1.7E-02	1.6E-02	
ESE	2.8E-01	2.3E-02	2.0E-02	1.8E-02	1.7E-02	Business
E	3.7E-01	2.5E-02	2.1E-02	1.9E-02	1.8E-02	
ENE	3.1E-01	2.3E-02	2.0E-02	1.8E-02	1.8E-02	
NE	1.9E-01	2.0E-02	1.8E-02	1.7E-02	1.6E-02	Farm (1700); School (2300)
NNE	1.6E-01	1.9E-02	1.7E-02	1.6E-02	1.6E-02	

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INDIVIDUAL LIFETIME RISK (deaths)
(All Radionuclides and Pathways)

	Distance (m)				
Direction	200	1300	1700	2000	2300
N	1.9E-07	1.1E-08	8.7E-09	7.8E-09	7.2E-09
NNW	1.0E-07	8.0E-09	6.9E-09	6.4E-09	6.1E-09
NW	1.2E-07	8.5E-09	7.2E-09	6.6E-09	6.2E-09
WNW	1.4E-07	9.2E-09	7.6E-09	7.0E-09	6.5E-09
W	1.1E-07	8.2E-09	7.0E-09	6.5E-09	6.1E-09
WSW	5.5E-08	6.4E-09	5.9E-09	5.6E-09	5.5E-09
SW	7.7E-08	7.1E-09	6.3E-09	5.9E-09	5.7E-09
SSW	9.4E-08	7.6E-09	6.6E-09	6.2E-09	5.9E-09
S	8.2E-08	7.3E-09	6.4E-09	6.1E-09	5.8E-09
SSE	5.9E-08	6.6E-09	6.0E-09	5.7E-09	5.5E-09
SE	8.3E-08	7.4E-09	6.5E-09	6.1E-09	5.8E-09
ESE	1.4E-07	9.1E-09	7.6E-09	6.9E-09	6.5E-09
E	1.8E-07	1.0E-08	8.3E-09	7.5E-09	6.9E-09
ENE	1.5E-07	9.4E-09	7.7E-09	7.0E-09	6.6E-09
NE	9.4E-08	7.7E-09	6.7E-09	6.2E-09	5.9E-09
NNE	8.0E-08	7.2E-09	6.4E-09	6.0E-09	5.8E-09

Note: Highlighted EDE values (mrem) are applicable to the critical receptors as defined in the Radionuclide Emissions NESHAP Report (Appendix B) taking into account the distance and direction from the applicable site to each receptor. The highlighted value assumes 100 percent occupancy.

CAP88 OUTPUT RESULTS

McDonnell Blvd

D O S E A N D R I S K S U M M A R I E S

Non-Radon Individual Assessment
Tue Mar 19 09:21:18 2024

Facility: McDonnell Blvd
Address:
City: St. Louis
State: MO Zip: 63042

Source Category: Area
Source Type: Area
Emission Year: 2023
DOSE Age Group: Adult

Comments: Air

Dataset Name: 2023 McDonnell B
Dataset Date: Mar 19, 2024 09:21 AM
Wind File: C:\Users\randy\OneDrive\Documents\CAP88\Wind Files\13994.WND

Tue Mar 19 09:21:18 2024 SUMMARY
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ORGAN DOSE EQUIVALENT SUMMARY

Organ	Selected Individual (mrem)
Adrenals	7.95E-05
UB_Wall	8.77E-05
Bone_Sur	4.03E-03
Brain	8.36E-05
Breasts	9.09E-05
St_Wall	8.45E-05
SI_Wall	8.39E-05
ULI_Wall	8.70E-05
LLI_Wall	9.37E-05
Kidneys	1.48E-04
Liver	2.02E-04
Muscle	9.36E-05
Ovaries	1.06E-04
Pancreas	8.03E-05
R_Marrow	3.12E-04
Skin	6.32E-04
Spleen	8.51E-05
Testes	1.18E-04
Thymus	8.40E-05
Thyroid	8.70E-05
GB_Wall	8.06E-05
Ht_Wall	8.36E-05
Uterus	8.30E-05
ET_Reg	4.27E-04
Lung	1.16E-03
Effectiv	3.00E-04

PATHWAY EFFECTIVE DOSE EQUIVALENT SUMMARY

Pathway	Selected Individual (mrem)
INGESTION	2.54E-05
INHALATION	1.93E-04
AIR IMMERSION	3.57E-09
GROUND SURFACE	8.19E-05
INTERNAL	2.18E-04
EXTERNAL	8.19E-05
TOTAL	3.00E-04

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NUCLIDE EFFECTIVE DOSE EQUIVALENT SUMMARY

Nuclide	Selected Individual (mrem)
U-238	3.05E-06
Th-234	2.32E-07
Pa-234m	1.21E-06
Pa-234	2.39E-08
U-234	3.69E-06
Th-230	6.88E-05
Ra-226	6.54E-06
Rn-222	5.20E-09
Po-218	9.30E-14
Pb-214	3.40E-06
At-218	3.50E-13
Bi-214	1.99E-05
Rn-218	2.03E-15
Po-214	1.10E-09
Tl-210	7.75E-09
Pb-210	1.67E-08
Bi-210	2.69E-07
Hg-206	2.17E-14
Po-210	6.98E-11
Tl-206	6.29E-13
U-235	1.70E-07
Th-231	5.77E-09
Pa-231	6.01E-06
Ac-227	4.55E-06
Th-227	5.90E-08
Fr-223	5.56E-10
Ra-223	6.60E-08
Rn-219	2.86E-08
At-219	0.00E+00
Bi-215	1.28E-13
Po-215	8.73E-11
Pb-211	5.61E-08
Bi-211	2.31E-08
Tl-207	2.91E-08
Po-211	1.11E-11
Th-232	2.82E-05
Ra-228	5.67E-05
Ac-228	2.21E-05
Th-228	3.80E-05
Ra-224	2.67E-06
Rn-220	1.52E-08
Po-216	3.67E-10
Pb-212	3.34E-06
Bi-212	3.90E-06
Po-212	0.00E+00
Tl-208	2.69E-05
TOTAL	3.00E-04

CANCER RISK SUMMARY

Cancer	Selected Individual Total Lifetime Fatal Cancer Risk
Esophagu	9.05E-13
Stomach	3.50E-12
Colon	9.61E-12
Liver	3.44E-12
LUNG	1.25E-10
Bone	4.40E-12
Skin	6.32E-13
Breast	4.11E-12
Ovary	1.49E-12
Bladder	2.16E-12
Kidneys	8.40E-13
Thyroid	2.79E-13
Leukemia	5.36E-12
Residual	1.30E-11
Total	1.75E-10
TOTAL	1.75E-10

PATHWAY RISK SUMMARY

Pathway	Selected Individual Total Lifetime Fatal Cancer Risk
INGESTION	9.32E-12
INHALATION	1.23E-10
AIR IMMERSION	1.93E-15
GROUND SURFACE	4.27E-11
INTERNAL	1.32E-10
EXTERNAL	4.27E-11
TOTAL	1.75E-10

NUCLIDE RISK SUMMARY

Nuclide	Selected Individual Total Lifetime Fatal Cancer Risk
U-238	3.18E-12
Th-234	2.11E-13
Pa-234m	2.12E-13
Pa-234	1.30E-14
U-234	3.88E-12
Th-230	3.70E-11
Ra-226	5.68E-12
Rn-222	2.84E-15
Po-218	4.15E-20
Pb-214	1.82E-12
At-218	4.31E-20
Bi-214	1.05E-11
Rn-218	1.11E-21
Po-214	6.04E-16
Tl-210	4.14E-15
Pb-210	7.47E-15
Bi-210	2.99E-14
Hg-206	9.65E-21
Po-210	3.83E-17
Tl-206	7.07E-20
U-235	1.50E-13
Th-231	2.75E-15
Pa-231	5.90E-13
Ac-227	1.25E-12
Th-227	3.20E-14
Fr-223	2.08E-16
Ra-223	3.56E-14
Rn-219	1.56E-14
At-219	0.00E+00
Bi-215	5.73E-20
Po-215	4.79E-17
Pb-211	2.01E-14
Bi-211	1.26E-14
Tl-207	3.74E-15
Po-211	6.09E-18
Th-232	1.25E-11
Ra-228	2.61E-11
Ac-228	1.18E-11
Th-228	3.85E-11
Ra-224	3.03E-12
Rn-220	8.33E-15
Po-216	2.02E-16
Pb-212	1.82E-12
Bi-212	1.50E-12
Po-212	0.00E+00
Tl-208	1.47E-11
TOTAL	1.75E-10

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INDIVIDUAL EFFECTIVE DOSE EQUIVALENT (mrem)
(All Radionuclides and Pathways)

	Distance (m)				
Direction	400	1300	1600	2200	
N	3.0E-04	5.2E-05	4.2E-05	3.3E-05	
NNW	1.6E-04	3.6E-05	3.1E-05	2.6E-05	
NW	1.9E-04	3.8E-05	3.3E-05	2.7E-05	
WNW	2.3E-04	4.3E-05	3.6E-05	2.9E-05	
W	1.7E-04	3.7E-05	3.1E-05	2.6E-05	Business
WSW	9.3E-05	2.7E-05	2.5E-05	2.2E-05	
SW	1.2E-04	3.1E-05	2.7E-05	2.4E-05	
SSW	1.5E-04	3.4E-05	2.9E-05	2.5E-05	
S	1.3E-04	3.2E-05	2.8E-05	2.4E-05	
SSE	9.9E-05	2.8E-05	2.6E-05	2.3E-05	
SE	1.4E-04	3.3E-05	2.9E-05	2.5E-05	
ESE	2.2E-04	4.2E-05	3.5E-05	2.8E-05	
E	2.8E-04	4.9E-05	4.0E-05	3.1E-05	Resident
ENE	2.4E-04	4.3E-05	3.6E-05	2.9E-05	
NE	1.5E-04	3.4E-05	3.0E-05	2.5E-05	Farm
NNE	1.3E-04	3.2E-05	2.8E-05	2.4E-05	School

Tue Mar 19 09:21:18 2024 SUMMARY
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INDIVIDUAL LIFETIME RISK (deaths)
(All Radionuclides and Pathways)

	Distance (m)			
Direction	400	1300	1600	2200
N	1.7E-10	2.7E-11	2.1E-11	1.5E-11
NNW	9.3E-11	1.7E-11	1.4E-11	1.1E-11
NW	1.1E-10	1.9E-11	1.5E-11	1.2E-11
WNW	1.3E-10	2.1E-11	1.7E-11	1.3E-11
W	1.0E-10	1.8E-11	1.4E-11	1.1E-11
WSW	5.1E-11	1.2E-11	1.1E-11	9.0E-12
SW	7.0E-11	1.4E-11	1.2E-11	9.8E-12
SSW	8.5E-11	1.6E-11	1.3E-11	1.1E-11
S	7.5E-11	1.5E-11	1.3E-11	1.0E-11
SSE	5.5E-11	1.3E-11	1.1E-11	9.3E-12
SE	7.7E-11	1.5E-11	1.3E-11	1.0E-11
ESE	1.3E-10	2.1E-11	1.7E-11	1.3E-11
E	1.6E-10	2.5E-11	1.9E-11	1.4E-11
ENE	1.4E-10	2.2E-11	1.7E-11	1.3E-11
NE	8.6E-11	1.6E-11	1.3E-11	1.1E-11
NNE	7.3E-11	1.5E-11	1.2E-11	1.0E-11

Note: Highlighted EDE values (mrem) are applicable to the critical receptors as defined in the Radionuclide Emissions NESHAP Report (Appendix B) taking into account the distance and direction from the applicable site to each receptor. The highlighted value assumes 100 percent occupancy.

CAP88 OUTPUT RESULTS

Pershall

D O S E A N D R I S K S U M M A R I E S

Non-Radon Individual Assessment
Tue Mar 19 09:25:38 2024

```
     Facility:  Pershall Rd
      Address:
         City:  St. Louis
        State:  MO          Zip:  63042


Source Category:  Area
    Source Type:  Area
  Emission Year:  2023
 DOSE Age Group:  Adult

       Comments:  Air


   Dataset Name:  2023 Pershall Ro
   Dataset Date:  Mar 19, 2024 09:25 AM
      Wind File:  C:\Users\randy\OneDrive\Documents\CAP88\Wind Files\13994.WND
```

Tue Mar 19 09:25:38 2024 SUMMARY
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ORGAN DOSE EQUIVALENT SUMMARY

Organ	Selected Individual (mrem)
Adrenals	3.39E-01
UB_Wall	3.73E-01
Bone_Sur	2.02E+01
Brain	3.56E-01
Breasts	3.86E-01
St_Wall	3.60E-01
SI_Wall	3.57E-01
ULI_Wall	3.72E-01
LLI_Wall	4.04E-01
Kidneys	6.78E-01
Liver	9.56E-01
Muscle	3.98E-01
Ovaries	4.69E-01
Pancreas	3.43E-01
R_Marrow	1.53E+00
Skin	2.50E+00
Spleen	3.62E-01
Testes	5.18E-01
Thymus	3.58E-01
Thyroid	3.70E-01
GB_Wall	3.44E-01
Ht_Wall	3.56E-01
Uterus	3.54E-01
ET_Reg	1.82E+00
Lung	4.64E+00
Effectiv	1.30E+00

PATHWAY EFFECTIVE DOSE EQUIVALENT SUMMARY

Pathway	Selected Individual (mrem)
INGESTION	1.23E-01
INHALATION	8.40E-01
AIR IMMERSION	2.16E-05
GROUND SURFACE	3.37E-01
INTERNAL	9.63E-01
EXTERNAL	3.37E-01
TOTAL	1.30E+00

NUCLIDE EFFECTIVE DOSE EQUIVALENT SUMMARY

Nuclide	Selected Individual (mrem)
U-238	9.45E-03
Th-234	1.26E-03
Pa-234m	3.65E-03
Pa-234	7.20E-05
U-234	1.14E-02
Th-230	3.69E-01
Ra-226	1.82E-02
Rn-222	1.47E-05
Po-218	2.62E-10
Pb-214	9.57E-03
At-218	9.85E-10
Bi-214	5.60E-02
Rn-218	5.71E-12
Po-214	3.10E-06
Tl-210	2.18E-05
Pb-210	4.68E-05
Bi-210	7.56E-04
Hg-206	6.10E-11
Po-210	1.96E-07
Tl-206	1.77E-09
U-235	1.08E-03
Th-231	3.65E-05
Pa-231	2.77E-02
Ac-227	2.10E-02
Th-227	2.56E-04
Fr-223	2.41E-06
Ra-223	2.86E-04
Rn-219	1.24E-04
At-219	0.00E+00
Bi-215	5.57E-10
Po-215	3.78E-07
Pb-211	2.43E-04
Bi-211	1.00E-04
Tl-207	1.26E-04
Po-211	4.82E-08
Th-232	7.48E-02
Ra-228	3.23E-01
Ac-228	1.05E-01
Th-228	1.01E-01
Ra-224	7.59E-03
Rn-220	7.11E-05
Po-216	1.72E-06
Pb-212	1.56E-02
Bi-212	1.82E-02
Po-212	0.00E+00
Tl-208	1.26E-01
TOTAL	1.30E+00

CANCER RISK SUMMARY

Cancer	Selected Individual Total Lifetime Fatal Cancer Risk
Esophagu	3.89E-09
Stomach	1.51E-08
Colon	4.17E-08
Liver	1.66E-08
LUNG	4.98E-07
Bone	2.23E-08
Skin	2.50E-09
Breast	1.73E-08
Ovary	6.67E-09
Bladder	9.28E-09
Kidneys	3.93E-09
Thyroid	1.20E-09
Leukemia	2.32E-08
Residual	5.57E-08
Total	7.17E-07
TOTAL	7.17E-07

PATHWAY RISK SUMMARY

Pathway	Selected Individual Total Lifetime Fatal Cancer Risk
INGESTION	4.60E-08
INHALATION	4.95E-07
AIR IMMERSION	1.16E-11
GROUND SURFACE	1.77E-07
INTERNAL	5.41E-07
EXTERNAL	1.77E-07
TOTAL	7.17E-07

NUCLIDE RISK SUMMARY

Nuclide	Selected Individual Total Lifetime Fatal Cancer Risk
U-238	9.86E-09
Th-234	1.27E-09
Pa-234m	6.40E-10
Pa-234	3.91E-11
U-234	1.20E-08
Th-230	1.99E-07
Ra-226	1.62E-08
Rn-222	8.00E-12
Po-218	1.17E-16
Pb-214	5.12E-09
At-218	1.21E-16
Bi-214	2.96E-08
Rn-218	3.12E-18
Po-214	1.70E-12
Tl-210	1.17E-11
Pb-210	2.09E-11
Bi-210	8.38E-11
Hg-206	2.71E-17
Po-210	1.07E-13
Tl-206	1.98E-16
U-235	9.63E-10
Th-231	1.84E-11
Pa-231	2.72E-09
Ac-227	5.80E-09
Th-227	1.39E-10
Fr-223	8.98E-13
Ra-223	1.54E-10
Rn-219	6.78E-11
At-219	0.00E+00
Bi-215	2.48E-16
Po-215	2.07E-13
Pb-211	8.69E-11
Bi-211	5.47E-11
Tl-207	1.62E-11
Po-211	2.64E-14
Th-232	3.32E-08
Ra-228	1.50E-07
Ac-228	5.58E-08
Th-228	1.03E-07
Ra-224	8.33E-09
Rn-220	3.89E-11
Po-216	9.43E-13
Pb-212	8.50E-09
Bi-212	7.03E-09
Po-212	0.00E+00
Tl-208	6.85E-08
TOTAL	7.17E-07

Tue Mar 19 09:25:38 2024 SUMMARY
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INDIVIDUAL EFFECTIVE DOSE EQUIVALENT (mrem)
(All Radionuclides and Pathways)

	Distance (m)				
Direction	60	200	1000	1200	
N	1.3E+00	2.4E-01	9.6E-02	9.4E-02	
NNW	7.2E-01	1.7E-01	9.2E-02	9.1E-02	
NW	8.1E-01	1.8E-01	9.3E-02	9.2E-02	
WNW	9.6E-01	2.0E-01	9.4E-02	9.3E-02	
W	7.6E-01	1.7E-01	9.3E-02	9.2E-02	
WSW	4.1E-01	1.3E-01	9.0E-02	9.0E-02	
SW	5.4E-01	1.5E-01	9.1E-02	9.1E-02	
SSW	6.4E-01	1.6E-01	9.2E-02	9.1E-02	
S	5.9E-01	1.5E-01	9.2E-02	9.1E-02	
SSE	4.4E-01	1.3E-01	9.1E-02	9.0E-02	
SE	6.0E-01	1.5E-01	9.2E-02	9.1E-02	Business
ESE	9.4E-01	2.0E-01	9.4E-02	9.2E-02	Farm
E	1.2E+00	2.3E-01	9.5E-02	9.4E-02	School
ENE	9.9E-01	2.1E-01	9.4E-02	9.3E-02	
NE	6.6E-01	1.6E-01	9.2E-02	9.1E-02	Resident
NNE	5.7E-01	1.5E-01	9.1E-02	9.1E-02	

Tue Mar 19 09:25:38 2024 SUMMARY
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INDIVIDUAL LIFETIME RISK (deaths)
(All Radionuclides and Pathways)

	Distance (m)			
Direction	60	200	1000	1200
N	7.2E-07	1.2E-07	3.7E-08	3.6E-08
NNW	3.9E-07	7.7E-08	3.5E-08	3.5E-08
NW	4.4E-07	8.6E-08	3.6E-08	3.5E-08
WNW	5.3E-07	9.7E-08	3.6E-08	3.5E-08
W	4.1E-07	8.1E-08	3.5E-08	3.5E-08
WSW	2.2E-07	5.6E-08	3.4E-08	3.4E-08
SW	2.9E-07	6.6E-08	3.5E-08	3.4E-08
SSW	3.4E-07	7.4E-08	3.5E-08	3.5E-08
S	3.2E-07	6.9E-08	3.5E-08	3.4E-08
SSE	2.3E-07	5.8E-08	3.4E-08	3.4E-08
SE	3.2E-07	6.9E-08	3.5E-08	3.4E-08
ESE	5.1E-07	9.5E-08	3.6E-08	3.5E-08
E	6.6E-07	1.2E-07	3.7E-08	3.6E-08
ENE	5.4E-07	1.0E-07	3.6E-08	3.5E-08
NE	3.5E-07	7.4E-08	3.5E-08	3.5E-08
NNE	3.1E-07	6.8E-08	3.5E-08	3.4E-08

Note: Highlighted EDE values (mrem) are applicable to the critical receptors as defined in the Radionuclide Emissions NESHAP Report (Appendix B) taking into account the distance and direction from the applicable site to each receptor. The highlighted value assumes 100 percent occupancy.

CAP88 OUTPUT RESULTS

SLAPS Loadout

D O S E A N D R I S K S U M M A R I E S

Non-Radon Individual Assessment
Wed Mar 06 09:38:29 2024

Facility: SLAPS Loadout
Address:
City: St. Louis
State: MO Zip: 63042

Source Category: Area
Source Type: Area
Emission Year: 2023
DOSE Age Group: Adult

Comments: Air

Dataset Name: 2023 SLAPS Loado
Dataset Date: Mar 6, 2024 09:38 AM
Wind File: C:\Users\randy\OneDrive\Documents\CAP88\Wind Files\13994.WND

ORGAN DOSE EQUIVALENT SUMMARY

Organ	Selected Individual (mrem)
Adrenals	3.68E-01
UB_Wall	4.02E-01
Bone_Sur	4.16E+01
Brain	3.85E-01
Breasts	4.15E-01
St_Wall	3.89E-01
SI_Wall	3.87E-01
ULI_Wall	4.07E-01
LLI_Wall	4.49E-01
Kidneys	9.77E-01
Liver	1.67E+00
Muscle	4.26E-01
Ovaries	6.59E-01
Pancreas	3.72E-01
R_Marrow	2.35E+00
Skin	2.37E+00
Spleen	3.91E-01
Testes	7.10E-01
Thymus	3.86E-01
Thyroid	3.99E-01
GB_Wall	3.72E-01
Ht_Wall	3.85E-01
Uterus	3.82E-01
ET_Reg	2.99E+00
Lung	7.15E+00
Effectiv	2.00E+00

PATHWAY EFFECTIVE DOSE EQUIVALENT SUMMARY

Pathway	Selected Individual (mrem)
INGESTION	1.44E-01
INHALATION	1.53E+00
AIR IMMERSION	2.52E-05
GROUND SURFACE	3.29E-01
INTERNAL	1.67E+00
EXTERNAL	3.29E-01
TOTAL	2.00E+00

NUCLIDE EFFECTIVE DOSE EQUIVALENT SUMMARY

Nuclide	Selected Individual (mrem)
U-238	2.85E-03
Th-234	2.43E-03
Pa-234m	1.58E-03
Pa-234	3.11E-05
U-234	3.45E-03
Th-230	1.07E+00
Ra-226	1.40E-02
Rn-222	1.40E-05
Po-218	2.51E-10
Pb-214	9.16E-03
At-218	9.43E-10
Bi-214	5.35E-02
Rn-218	5.46E-12
Po-214	2.97E-06
Tl-210	2.09E-05
Pb-210	4.39E-05
Bi-210	7.10E-04
Hg-206	5.73E-11
Po-210	1.84E-07
Tl-206	1.66E-09
U-235	2.99E-04
Th-231	1.44E-05
Pa-231	1.14E-01
Ac-227	9.37E-02
Th-227	1.12E-03
Fr-223	1.06E-05
Ra-223	1.25E-03
Rn-219	5.43E-04
At-219	0.00E+00
Bi-215	2.44E-09
Po-215	1.66E-06
Pb-211	1.07E-03
Bi-211	4.39E-04
Tl-207	5.52E-04
Po-211	2.11E-07
Th-232	1.03E-02
Ra-228	3.52E-01
Ac-228	1.02E-01
Th-228	1.41E-02
Ra-224	1.98E-03
Rn-220	6.88E-05
Po-216	1.66E-06
Pb-212	1.51E-02
Bi-212	1.76E-02
Po-212	0.00E+00
Tl-208	1.22E-01
TOTAL	2.00E+00

CANCER RISK SUMMARY

Cancer	Selected Individual Total Lifetime Fatal Cancer Risk
Esophagu	4.08E-09
Stomach	1.55E-08
Colon	4.34E-08
Liver	2.47E-08
LUNG	7.41E-07
Bone	3.42E-08
Skin	2.36E-09
Breast	1.74E-08
Ovary	8.31E-09
Bladder	9.72E-09
Kidneys	4.95E-09
Thyroid	1.22E-09
Leukemia	2.47E-08
Residual	5.69E-08
Total	9.89E-07
TOTAL	9.89E-07

PATHWAY RISK SUMMARY

Pathway	Selected Individual Total Lifetime Fatal Cancer Risk
INGESTION	5.07E-08
INHALATION	7.66E-07
AIR IMMERSION	1.33E-11
GROUND SURFACE	1.72E-07
INTERNAL	8.17E-07
EXTERNAL	1.72E-07
TOTAL	9.89E-07

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NUCLIDE RISK SUMMARY

Nuclide	Selected Individual Total Lifetime Fatal Cancer Risk
U-238	2.98E-09
Th-234	2.70E-09
Pa-234m	2.77E-10
Pa-234	1.69E-11
U-234	3.64E-09
Th-230	5.74E-07
Ra-226	1.25E-08
Rn-222	7.66E-12
Po-218	1.12E-16
Pb-214	4.90E-09
At-218	1.16E-16
Bi-214	2.83E-08
Rn-218	2.99E-18
Po-214	1.63E-12
Tl-210	1.12E-11
Pb-210	1.97E-11
Bi-210	7.87E-11
Hg-206	2.54E-17
Po-210	1.01E-13
Tl-206	1.86E-16
U-235	2.65E-10
Th-231	1.04E-11
Pa-231	1.12E-08
Ac-227	2.58E-08
Th-227	6.08E-10
Fr-223	3.94E-12
Ra-223	6.77E-10
Rn-219	2.97E-10
At-219	0.00E+00
Bi-215	1.09E-15
Po-215	9.09E-13
Pb-211	3.81E-10
Bi-211	2.40E-10
Tl-207	7.10E-11
Po-211	1.16E-13
Th-232	4.55E-09
Ra-228	1.64E-07
Ac-228	5.45E-08
Th-228	1.42E-08
Ra-224	1.66E-09
Rn-220	3.77E-11
Po-216	9.12E-13
Pb-212	8.22E-09
Bi-212	6.80E-09
Po-212	0.00E+00
Tl-208	6.62E-08
TOTAL	9.89E-07

Wed Mar 06 09:38:29 2024 SUMMARY
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INDIVIDUAL EFFECTIVE DOSE EQUIVALENT (mrem)
(All Radionuclides and Pathways)

	Distance (m)				
Direction	200	1500	1700	2300	
N	2.0E+00	1.5E-01	1.4E-01	1.2E-01	Resident
NNW	1.1E+00	1.3E-01	1.2E-01	1.1E-01	
NW	1.3E+00	1.3E-01	1.2E-01	1.1E-01	
WNW	1.5E+00	1.4E-01	1.3E-01	1.2E-01	Business
W	1.2E+00	1.3E-01	1.2E-01	1.1E-01	
WSW	6.1E-01	1.1E-01	1.1E-01	1.1E-01	
SW	8.2E-01	1.2E-01	1.1E-01	1.1E-01	
SSW	1.0E+00	1.2E-01	1.2E-01	1.1E-01	
S	8.8E-01	1.2E-01	1.2E-01	1.1E-01	
SSE	6.4E-01	1.1E-01	1.1E-01	1.1E-01	
SE	8.9E-01	1.2E-01	1.2E-01	1.1E-01	
ESE	1.5E+00	1.3E-01	1.3E-01	1.2E-01	
E	1.9E+00	1.4E-01	1.4E-01	1.2E-01	Resident
ENE	1.6E+00	1.4E-01	1.3E-01	1.2E-01	
NE	1.0E+00	1.2E-01	1.2E-01	1.1E-01	Farm (1700); School (2300)
NNE	8.6E-01	1.2E-01	1.2E-01	1.1E-01	

Wed Mar 06 09:38:29 2024 SUMMARY
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INDIVIDUAL LIFETIME RISK (deaths)
(All Radionuclides and Pathways)

	Distance (m)			
Direction	200	1500	1700	2300
N	9.9E-07	6.0E-08	5.5E-08	4.8E-08
NNW	5.2E-07	4.8E-08	4.6E-08	4.2E-08
NW	6.1E-07	5.0E-08	4.7E-08	4.3E-08
WNW	7.4E-07	5.3E-08	5.0E-08	4.4E-08
W	5.7E-07	4.9E-08	4.6E-08	4.2E-08
WSW	2.9E-07	4.2E-08	4.1E-08	3.9E-08
SW	4.0E-07	4.5E-08	4.3E-08	4.0E-08
SSW	4.9E-07	4.7E-08	4.5E-08	4.1E-08
S	4.3E-07	4.6E-08	4.4E-08	4.1E-08
SSE	3.1E-07	4.3E-08	4.1E-08	3.9E-08
SE	4.3E-07	4.6E-08	4.4E-08	4.1E-08
ESE	7.2E-07	5.3E-08	5.0E-08	4.4E-08
E	9.4E-07	5.7E-08	5.3E-08	4.6E-08
ENE	7.8E-07	5.4E-08	5.0E-08	4.4E-08
NE	4.9E-07	4.7E-08	4.5E-08	4.1E-08
NNE	4.1E-07	4.5E-08	4.3E-08	4.0E-08

Note: Highlighted EDE values (mrem) are applicable to the critical receptors as defined in the Radionuclide Emissions NESHAP Report (Appendix B) taking into account the distance and direction from the applicable site to each receptor. The highlighted value assumes 100 percent occupancy.

CAP88 OUTPUT RESULTS

VP-56

D O S E A N D R I S K S U M M A R I E S

Non-Radon Individual Assessment
Tue Mar 19 09:28:04 2024

```
     Facility:  VP-56
      Address:
         City:  St. Louis
        State:  MO          Zip:  63042


Source Category:  Area
    Source Type:  Area
  Emission Year:  2023
 DOSE Age Group:  Adult

       Comments:  Air


   Dataset Name:  2023 VP-56.
   Dataset Date:  Mar 19, 2024 09:27 AM
      Wind File:  C:\Users\randy\OneDrive\Documents\CAP88\Wind Files\13994.WND
```

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ORGAN DOSE EQUIVALENT SUMMARY

Organ	Selected Individual (mrem)
Adrenals	1.45E-02
UB_Wall	1.60E-02
Bone_Sur	7.22E-01
Brain	1.52E-02
Breasts	1.65E-02
St_Wall	1.54E-02
SI_Wall	1.53E-02
ULI_Wall	1.59E-02
LLI_Wall	1.72E-02
Kidneys	2.66E-02
Liver	4.17E-02
Muscle	1.70E-02
Ovaries	1.92E-02
Pancreas	1.46E-02
R_Marrow	5.89E-02
Skin	1.11E-01
Spleen	1.55E-02
Testes	2.13E-02
Thymus	1.53E-02
Thyroid	1.58E-02
GB_Wall	1.47E-02
Ht_Wall	1.52E-02
Uterus	1.51E-02
ET_Reg	6.52E-02
Lung	1.74E-01
Effectiv	5.05E-02

PATHWAY EFFECTIVE DOSE EQUIVALENT SUMMARY

Pathway	Selected Individual (mrem)
INGESTION	4.83E-03
INHALATION	3.10E-02
AIR IMMERSION	8.21E-07
GROUND SURFACE	1.46E-02
INTERNAL	3.59E-02
EXTERNAL	1.46E-02
TOTAL	5.05E-02

NUCLIDE EFFECTIVE DOSE EQUIVALENT SUMMARY

Nuclide	Selected Individual (mrem)
U-238	4.95E-04
Th-234	5.11E-05
Pa-234m	1.89E-04
Pa-234	3.73E-06
U-234	5.98E-04
Th-230	7.72E-03
Ra-226	9.78E-04
Rn-222	7.51E-07
Po-218	1.34E-11
Pb-214	4.90E-04
At-218	5.04E-11
Bi-214	2.86E-03
Rn-218	2.92E-13
Po-214	1.59E-07
Tl-210	1.12E-06
Pb-210	2.41E-06
Bi-210	3.89E-05
Hg-206	3.14E-12
Po-210	1.01E-08
Tl-206	9.09E-11
U-235	7.73E-05
Th-231	2.57E-06
Pa-231	1.98E-03
Ac-227	1.50E-03
Th-227	1.84E-05
Fr-223	1.73E-07
Ra-223	2.06E-05
Rn-219	8.90E-06
At-219	0.00E+00
Bi-215	4.00E-11
Po-215	2.72E-08
Pb-211	1.75E-05
Bi-211	7.20E-06
Tl-207	9.06E-06
Po-211	3.47E-09
Th-232	4.15E-03
Ra-228	1.24E-02
Ac-228	4.28E-03
Th-228	5.60E-03
Ra-224	4.05E-04
Rn-220	2.92E-06
Po-216	7.05E-08
Pb-212	6.42E-04
Bi-212	7.49E-04
Po-212	0.00E+00
Tl-208	5.17E-03
TOTAL	5.05E-02

CANCER RISK SUMMARY

Cancer	Selected Individual Total Lifetime Fatal Cancer Risk
Esophagu	1.66E-10
Stomach	6.40E-10
Colon	1.76E-09
Liver	7.09E-10
LUNG	1.90E-08
Bone	8.47E-10
Skin	1.11E-10
Breast	7.43E-10
Ovary	2.76E-10
Bladder	3.95E-10
Kidneys	1.57E-10
Thyroid	5.09E-11
Leukemia	9.80E-10
Residual	2.37E-09
Total	2.82E-08
TOTAL	2.82E-08

PATHWAY RISK SUMMARY

Pathway	Selected Individual Total Lifetime Fatal Cancer Risk
INGESTION	1.82E-09
INHALATION	1.88E-08
AIR IMMERSION	4.42E-13
GROUND SURFACE	7.63E-09
INTERNAL	2.06E-08
EXTERNAL	7.63E-09
TOTAL	2.82E-08

NUCLIDE RISK SUMMARY

Nuclide	Selected Individual Total Lifetime Fatal Cancer Risk
U-238	5.16E-10
Th-234	4.99E-11
Pa-234m	3.32E-11
Pa-234	2.03E-12
U-234	6.31E-10
Th-230	4.16E-09
Ra-226	8.66E-10
Rn-222	4.10E-13
Po-218	5.99E-18
Pb-214	2.62E-10
At-218	6.21E-18
Bi-214	1.51E-09
Rn-218	1.60E-19
Po-214	8.71E-14
Tl-210	5.97E-13
Pb-210	1.08E-12
Bi-210	4.31E-12
Hg-206	1.39E-18
Po-210	5.53E-15
Tl-206	1.02E-17
U-235	6.88E-11
Th-231	1.26E-12
Pa-231	1.94E-10
Ac-227	4.14E-10
Th-227	9.96E-12
Fr-223	6.46E-14
Ra-223	1.11E-11
Rn-219	4.87E-12
At-219	0.00E+00
Bi-215	1.79E-17
Po-215	1.49E-14
Pb-211	6.25E-12
Bi-211	3.93E-12
Tl-207	1.16E-12
Po-211	1.90E-15
Th-232	1.84E-09
Ra-228	5.74E-09
Ac-228	2.28E-09
Th-228	5.69E-09
Ra-224	4.53E-10
Rn-220	1.60E-12
Po-216	3.88E-14
Pb-212	3.49E-10
Bi-212	2.89E-10
Po-212	0.00E+00
Tl-208	2.81E-09
TOTAL	2.82E-08

Tue Mar 19 09:28:04 2024 SUMMARY
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INDIVIDUAL EFFECTIVE DOSE EQUIVALENT (mrem)
(All Radionuclides and Pathways)

	Distance (m)				
Direction	100	330	700	1000	
N	5.0E-02	8.9E-03	4.8E-03	4.2E-03	
NNW	2.8E-02	6.3E-03	4.2E-03	3.8E-03	
NW	3.2E-02	6.8E-03	4.3E-03	3.9E-03	Resident
WNW	3.8E-02	7.5E-03	4.5E-03	4.0E-03	
W	3.0E-02	6.5E-03	4.2E-03	3.9E-03	
WSW	1.6E-02	4.9E-03	3.8E-03	3.7E-03	
SW	2.1E-02	5.5E-03	4.0E-03	3.7E-03	
SSW	2.6E-02	6.0E-03	4.1E-03	3.8E-03	
S	2.3E-02	5.7E-03	4.0E-03	3.8E-03	Business
SSE	1.7E-02	5.0E-03	3.9E-03	3.7E-03	
SE	2.3E-02	5.7E-03	4.1E-03	3.8E-03	Farm
ESE	3.7E-02	7.4E-03	4.4E-03	4.0E-03	
E	4.8E-02	8.6E-03	4.7E-03	4.1E-03	School
ENE	4.0E-02	7.7E-03	4.5E-03	4.0E-03	
NE	2.6E-02	6.0E-03	4.1E-03	3.8E-03	
NNE	2.2E-02	5.6E-03	4.0E-03	3.8E-03	

Tue Mar 19 09:28:04 2024 SUMMARY
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INDIVIDUAL LIFETIME RISK (deaths)
(All Radionuclides and Pathways)

	Distance (m)			
Direction	100	330	700	1000
N	2.8E-08	4.4E-09	2.1E-09	1.7E-09
NNW	1.5E-08	2.9E-09	1.7E-09	1.5E-09
NW	1.8E-08	3.2E-09	1.8E-09	1.6E-09
WNW	2.1E-08	3.6E-09	1.9E-09	1.6E-09
W	1.6E-08	3.0E-09	1.7E-09	1.5E-09
WSW	8.5E-09	2.1E-09	1.5E-09	1.4E-09
SW	1.2E-08	2.5E-09	1.6E-09	1.5E-09
SSW	1.4E-08	2.8E-09	1.7E-09	1.5E-09
S	1.2E-08	2.6E-09	1.6E-09	1.5E-09
SSE	9.0E-09	2.2E-09	1.5E-09	1.4E-09
SE	1.3E-08	2.6E-09	1.6E-09	1.5E-09
ESE	2.1E-08	3.5E-09	1.9E-09	1.6E-09
E	2.7E-08	4.2E-09	2.0E-09	1.7E-09
ENE	2.2E-08	3.7E-09	1.9E-09	1.6E-09
NE	1.4E-08	2.8E-09	1.7E-09	1.5E-09
NNE	1.2E-08	2.5E-09	1.6E-09	1.5E-09

Note: Highlighted EDE values (mrem) are applicable to the critical receptors as defined in the Radionuclide Emissions NESHAP Report (Appendix B) taking into account the distance and direction from the applicable site to each receptor. The highlighted value assumes 100 percent occupancy.

CAP88-PC RUNS FOR THE FUSRAP ST. LOUIS RADIOANALYTICAL LABORATORY

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CAP88 OUTPUT RESULTS

USACE Laboratory

CAP88-PC

Version 4.1

Clean Air Act Assessment Package - 1988

D O S E A N D R I S K S U M M A R I E S

Non-Radon Individual Assessment
Wed Mar 06 08:48:30 2024

Facility: USACE Laboratory
Address:
City: St. Louis
State: MO Zip: 63042

Source Category: Area
Source Type: Stack
Emission Year: 2023
DOSE Age Group: Adult

Comments: Air

Dataset Name: 2023 Usace Labor
Dataset Date: Mar 6, 2024 08:48 AM
Wind File: C:\Users\randy\OneDrive\Documents\CAP88\Wind Files\13994.WND

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ORGAN DOSE EQUIVALENT SUMMARY

Organ	Selected Individual (mrem)
Adrenals	3.41E-05
UB_Wall	3.77E-05
Bone_Sur	1.60E-03
Brain	3.59E-05
Breasts	3.93E-05
St_Wall	3.63E-05
SI_Wall	3.61E-05
ULI_Wall	3.70E-05
LLI_Wall	3.93E-05
Kidneys	6.48E-05
Liver	8.29E-05
Muscle	4.05E-05
Ovaries	4.61E-05
Pancreas	3.44E-05
R_Marrow	1.04E-04
Skin	4.41E-04
Spleen	3.66E-05
Testes	5.17E-05
Thymus	3.61E-05
Thyroid	3.75E-05
GB_Wall	3.46E-05
Ht_Wall	3.59E-05
Uterus	3.56E-05
ET_Reg	2.66E-04
Lung	8.00E-04
Effectiv	1.62E-04

PATHWAY EFFECTIVE DOSE EQUIVALENT SUMMARY

Pathway	Selected Individual (mrem)
INGESTION	4.05E-06
INHALATION	1.19E-04
AIR IMMERSION	2.21E-10
GROUND SURFACE	3.84E-05
INTERNAL	1.23E-04
EXTERNAL	3.84E-05
TOTAL	1.62E-04

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NUCLIDE EFFECTIVE DOSE EQUIVALENT SUMMARY

Nuclide	Selected Individual (mrem)
U-238	5.64E-06
Th-234	2.00E-07
Pa-234m	2.44E-06
Pa-234	4.80E-08
U-234	6.81E-06
Th-230	4.34E-05
Ra-226	4.58E-06
Rn-222	4.09E-09
Po-218	7.31E-14
Pb-214	2.67E-06
At-218	2.75E-13
Bi-214	1.56E-05
Rn-218	1.59E-15
Po-214	8.64E-10
Tl-210	6.09E-09
Pb-210	1.31E-08
Bi-210	2.12E-07
Hg-206	1.71E-14
Po-210	5.49E-11
Tl-206	4.94E-13
U-235	4.96E-07
Th-231	1.77E-08
Pa-231	3.06E-07
Ac-227	4.44E-06
Th-227	3.04E-08
Fr-223	2.86E-10
Ra-223	3.40E-08
Rn-219	1.47E-08
At-219	0.00E+00
Bi-215	6.61E-14
Po-215	4.49E-11
Pb-211	2.89E-08
Bi-211	1.19E-08
Tl-207	1.50E-08
Po-211	5.73E-12
Th-232	2.16E-05
Ra-228	3.03E-06
Ac-228	6.38E-06
Th-228	3.14E-05
Ra-224	1.94E-06
Rn-220	4.59E-09
Po-216	1.11E-10
Pb-212	1.01E-06
Bi-212	1.18E-06
Po-212	0.00E+00
Tl-208	8.13E-06
TOTAL	1.62E-04

CANCER RISK SUMMARY

Cancer	Selected Individual Total Lifetime Fatal Cancer Risk
Esophagu	3.69E-13
Stomach	1.40E-12
Colon	3.77E-12
Liver	1.12E-12
LUNG	8.71E-11
Bone	1.07E-12
Skin	4.38E-13
Breast	1.76E-12
Ovary	5.83E-13
Bladder	8.90E-13
Kidneys	3.07E-13
Thyroid	1.14E-13
Leukemia	2.14E-12
Residual	5.25E-12
Total	1.06E-10
TOTAL	1.06E-10

PATHWAY RISK SUMMARY

Pathway	Selected Individual Total Lifetime Fatal Cancer Risk
INGESTION	1.16E-12
INHALATION	8.58E-11
AIR IMMERSION	1.17E-16
GROUND SURFACE	1.93E-11
INTERNAL	8.70E-11
EXTERNAL	1.93E-11
TOTAL	1.06E-10

NUCLIDE RISK SUMMARY

Nuclide	Selected Individual Total Lifetime Fatal Cancer Risk
U-238	5.87E-12
Th-234	1.17E-13
Pa-234m	4.26E-13
Pa-234	2.61E-14
U-234	7.17E-12
Th-230	2.33E-11
Ra-226	4.01E-12
Rn-222	2.23E-15
Po-218	3.26E-20
Pb-214	1.43E-12
At-218	3.38E-20
Bi-214	8.24E-12
Rn-218	8.70E-22
Po-214	4.74E-16
Tl-210	3.25E-15
Pb-210	5.87E-15
Bi-210	2.35E-14
Hg-206	7.58E-21
Po-210	3.01E-17
Tl-206	5.56E-20
U-235	4.32E-13
Th-231	8.11E-15
Pa-231	3.01E-14
Ac-227	1.22E-12
Th-227	1.65E-14
Fr-223	1.07E-16
Ra-223	1.83E-14
Rn-219	8.05E-15
At-219	0.00E+00
Bi-215	2.95E-20
Po-215	2.46E-17
Pb-211	1.03E-14
Bi-211	6.50E-15
Tl-207	1.92E-15
Po-211	3.14E-18
Th-232	9.59E-12
Ra-228	1.40E-12
Ac-228	3.40E-12
Th-228	3.19E-11
Ra-224	2.27E-12
Rn-220	2.51E-15
Po-216	6.09E-17
Pb-212	5.49E-13
Bi-212	4.54E-13
Po-212	0.00E+00
Tl-208	4.42E-12
TOTAL	1.06E-10

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INDIVIDUAL EFFECTIVE DOSE EQUIVALENT (mrem)
(All Radionuclides and Pathways)

Direction	Distance (m) 50	1600	1700	2300	
N	1.6E-04	6.4E-06	6.1E-06	4.8E-06	
NNW	9.3E-05	4.6E-06	4.4E-06	3.8E-06	
NW	8.7E-05	4.9E-06	4.7E-06	3.9E-06	Business (50 m), Residence (1600 m)
WNW	9.3E-05	5.4E-06	5.1E-06	4.2E-06	
W	9.2E-05	4.7E-06	4.5E-06	3.8E-06	
WSW	5.2E-05	3.7E-06	3.6E-06	3.2E-06	
SW	5.5E-05	4.1E-06	3.9E-06	3.5E-06	
SSW	6.4E-05	4.4E-06	4.2E-06	3.6E-06	
S	9.1E-05	4.2E-06	4.1E-06	3.5E-06	
SSE	6.9E-05	3.8E-06	3.7E-06	3.3E-06	
SE	8.6E-05	4.3E-06	4.1E-06	3.6E-06	
ESE	1.1E-04	5.3E-06	5.1E-06	4.2E-06	
E	1.2E-04	6.1E-06	5.8E-06	4.6E-06	
ENE	8.7E-05	5.5E-06	5.2E-06	4.3E-06	
NE	7.6E-05	4.4E-06	4.3E-06	3.7E-06	Farm (1700 m), School (2300 m)
NNE	7.0E-05	4.2E-06	4.0E-06	3.5E-06	

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INDIVIDUAL LIFETIME RISK (deaths)
(All Radionuclides and Pathways)

	Distance (m)			
Direction	50	1600	1700	2300
N	1.1E-10	3.2E-12	3.0E-12	2.1E-12
NNW	6.1E-11	2.1E-12	1.9E-12	1.5E-12
NW	5.6E-11	2.3E-12	2.1E-12	1.6E-12
WNW	6.0E-11	2.6E-12	2.4E-12	1.8E-12
W	6.0E-11	2.1E-12	2.0E-12	1.5E-12
WSW	3.4E-11	1.4E-12	1.4E-12	1.1E-12
SW	3.5E-11	1.7E-12	1.6E-12	1.3E-12
SSW	4.1E-11	1.9E-12	1.8E-12	1.4E-12
S	5.9E-11	1.8E-12	1.7E-12	1.3E-12
SSE	4.5E-11	1.5E-12	1.4E-12	1.2E-12
SE	5.6E-11	1.8E-12	1.7E-12	1.4E-12
ESE	7.2E-11	2.5E-12	2.4E-12	1.7E-12
E	7.6E-11	3.0E-12	2.8E-12	2.0E-12
ENE	5.7E-11	2.6E-12	2.5E-12	1.8E-12
NE	5.0E-11	1.9E-12	1.8E-12	1.4E-12
NNE	4.6E-11	1.8E-12	1.7E-12	1.3E-12

Note: Highlighted EDE values (mrem) are applicable to the critical receptors as defined in the Radionuclide Emissions NESHAP Report (Appendix B) taking into account the distance and direction from the applicable site to each receptor. The highlighted value assumes 100 percent occupancy.

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APPENDIX C

ENVIRONMENTAL THERMOLUMINESCENT DOSIMETER, ALPHA TRACK DETECTOR, AND PERIMETER AIR DATA

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Table C-1. Background Air Particulate Data Results for CY 2023

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
BKG253322	BAP-001	01/03/23	Gross Alpha/Beta	Gross Alpha	9.52E-15	1.75E-15	4.29E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253322	BAP-001	01/03/23	Gross Alpha/Beta	Gross Beta	3.63E-14	3.75E-15	1.26E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265146	BAP-001	01/09/23	Gross Alpha/Beta	Gross Alpha	6.65E-15	1.44E-15	4.40E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265146	BAP-001	01/09/23	Gross Alpha/Beta	Gross Beta	1.85E-14	2.38E-15	1.29E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265147	BAP-001	01/17/23	Gross Alpha/Beta	Gross Alpha	1.11E-14	1.71E-15	3.22E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265147	BAP-001	01/17/23	Gross Alpha/Beta	Gross Beta	4.06E-14	3.85E-15	9.48E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265148	BAP-001	01/23/23	Gross Alpha/Beta	Gross Alpha	7.62E-15	1.60E-15	4.70E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265148	BAP-001	01/23/23	Gross Alpha/Beta	Gross Beta	3.23E-14	3.53E-15	1.38E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265149	BAP-001	01/31/23	Gross Alpha/Beta	Gross Alpha	4.37E-15	9.78E-16	3.11E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265149	BAP-001	01/31/23	Gross Alpha/Beta	Gross Beta	2.07E-14	2.29E-15	9.16E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265150	BAP-001	02/04/23	Gross Alpha/Beta	Gross Alpha	4.46E-15	1.40E-15	6.50E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265150	BAP-001	02/04/23	Gross Alpha/Beta	Gross Beta	2.15E-14	3.04E-15	1.92E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265151	BAP-001	02/13/23	Gross Alpha/Beta	Gross Alpha	4.00E-15	1.00E-15	3.64E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265151	BAP-001	02/13/23	Gross Alpha/Beta	Gross Beta	2.12E-14	2.44E-15	1.07E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265152	BAP-001	02/21/23	Gross Alpha/Beta	Gross Alpha	3.99E-15	9.56E-16	3.31E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265152	BAP-001	02/21/23	Gross Alpha/Beta	Gross Beta	2.04E-14	2.31E-15	9.73E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265153	BAP-001	02/27/23	Gross Alpha/Beta	Gross Alpha	2.36E-15	8.88E-16	5.01E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265153	BAP-001	02/27/23	Gross Alpha/Beta	Gross Beta	1.74E-14	2.41E-15	1.48E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265154	BAP-001	03/06/23	Gross Alpha/Beta	Gross Alpha	3.25E-15	9.31E-16	3.95E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265154	BAP-001	03/06/23	Gross Alpha/Beta	Gross Beta	2.26E-14	2.61E-15	1.16E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265155	BAP-001	03/13/23	Gross Alpha/Beta	Gross Alpha	1.55E-15	5.91E-16	3.39E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265155	BAP-001	03/13/23	Gross Alpha/Beta	Gross Beta	1.33E-14	1.75E-15	9.99E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265156	BAP-001	03/20/23	Gross Alpha/Beta	Gross Alpha	3.26E-15	9.26E-16	3.89E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265156	BAP-001	03/20/23	Gross Alpha/Beta	Gross Beta	2.01E-14	2.40E-15	1.14E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265157	BAP-001	03/27/23	Gross Alpha/Beta	Gross Alpha	9.47E-16	5.21E-16	4.20E-16	µCi/mL	J	T04, T20	Background Air (Particulate Air)-Environmental Monitoring
BKG265157	BAP-001	03/27/23	Gross Alpha/Beta	Gross Beta	1.87E-14	2.35E-15	1.24E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265158	BAP-001	04/03/23	Gross Alpha/Beta	Gross Alpha	7.75E-15	1.58E-15	4.81E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265158	BAP-001	04/03/23	Gross Alpha/Beta	Gross Beta	2.33E-14	2.70E-15	9.49E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265159	BAP-001	04/10/23	Gross Alpha/Beta	Gross Alpha	7.34E-15	1.48E-15	4.44E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265159	BAP-001	04/10/23	Gross Alpha/Beta	Gross Beta	1.90E-14	2.28E-15	8.76E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265160	BAP-001	04/17/23	Gross Alpha/Beta	Gross Alpha	4.43E-15	1.15E-15	4.64E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265160	BAP-001	04/17/23	Gross Alpha/Beta	Gross Beta	1.50E-14	1.98E-15	9.14E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265161	BAP-001	04/24/23	Gross Alpha/Beta	Gross Alpha	3.39E-15	9.77E-16	4.47E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265161	BAP-001	04/24/23	Gross Alpha/Beta	Gross Beta	1.40E-14	1.87E-15	8.82E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265162	BAP-001	05/01/23	Gross Alpha/Beta	Gross Alpha	4.51E-15	1.17E-15	4.79E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265162	BAP-001	05/01/23	Gross Alpha/Beta	Gross Beta	1.92E-14	2.36E-15	9.44E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265163	BAP-001	05/08/23	Gross Alpha/Beta	Gross Alpha	3.19E-15	9.65E-16	4.65E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265163	BAP-001	05/08/23	Gross Alpha/Beta	Gross Beta	1.34E-14	1.85E-15	9.17E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265164	BAP-001	05/15/23	Gross Alpha/Beta	Gross Alpha	2.46E-15	8.44E-16	4.64E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265164	BAP-001	05/15/23	Gross Alpha/Beta	Gross Beta	1.39E-14	1.90E-15	9.14E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265165	BAP-001	05/22/23	Gross Alpha/Beta	Gross Alpha	4.98E-15	1.23E-15	4.72E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265165	BAP-001	05/22/23	Gross Alpha/Beta	Gross Beta	1.86E-14	2.29E-15	9.30E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring

Table C-1. Background Air Particulate Data Results for CY 2023 (Continued)

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
BKG265166	BAP-001	05/30/23	Gross Alpha/Beta	Gross Alpha	3.12E-15	8.85E-16	3.97E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265166	BAP-001	05/30/23	Gross Alpha/Beta	Gross Beta	1.98E-14	2.27E-15	7.83E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265167	BAP-001	06/05/23	Gross Alpha/Beta	Gross Alpha	4.11E-15	1.22E-15	5.75E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265167	BAP-001	06/05/23	Gross Alpha/Beta	Gross Beta	2.32E-14	2.84E-15	1.14E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265168	BAP-001	06/12/23	Gross Alpha/Beta	Gross Alpha	4.39E-15	1.17E-15	4.88E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265168	BAP-001	06/12/23	Gross Alpha/Beta	Gross Beta	2.21E-14	2.61E-15	9.62E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265169	BAP-001	06/19/23	Gross Alpha/Beta	Gross Alpha	2.15E-15	8.17E-16	4.98E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265169	BAP-001	06/19/23	Gross Alpha/Beta	Gross Beta	2.36E-14	2.74E-15	9.82E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265170	BAP-001	06/26/23	Gross Alpha/Beta	Gross Alpha	2.56E-15	9.43E-16	5.57E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265170	BAP-001	06/26/23	Gross Alpha/Beta	Gross Beta	2.45E-14	2.92E-15	1.10E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265171	BAP-001	07/03/23	Gross Alpha/Beta	Gross Alpha	4.51E-15	1.08E-15	3.70E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265171	BAP-001	07/03/23	Gross Alpha/Beta	Gross Beta	1.60E-14	2.04E-15	1.11E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265172	BAP-001	07/10/23	Gross Alpha/Beta	Gross Alpha	7.03E-15	1.41E-15	3.89E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265172	BAP-001	07/10/23	Gross Alpha/Beta	Gross Beta	2.01E-14	2.41E-15	1.17E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265173	BAP-001	07/17/23	Gross Alpha/Beta	Gross Alpha	7.30E-15	1.59E-15	4.87E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265173	BAP-001	07/17/23	Gross Alpha/Beta	Gross Beta	2.81E-14	3.25E-15	1.46E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265174	BAP-001	07/24/23	Gross Alpha/Beta	Gross Alpha	5.66E-15	1.27E-15	4.03E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265174	BAP-001	07/24/23	Gross Alpha/Beta	Gross Beta	2.04E-14	2.46E-15	1.21E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265175	BAP-001	07/31/23	Gross Alpha/Beta	Gross Alpha	7.56E-15	1.43E-15	3.63E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265175	BAP-001	07/31/23	Gross Alpha/Beta	Gross Beta	2.99E-14	3.12E-15	1.09E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265176	BAP-001	08/07/23	Gross Alpha/Beta	Gross Alpha	3.79E-15	1.04E-15	4.17E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265176	BAP-001	08/07/23	Gross Alpha/Beta	Gross Beta	1.69E-14	2.21E-15	1.25E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265177	BAP-001	08/14/23	Gross Alpha/Beta	Gross Alpha	4.31E-15	1.08E-15	3.88E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265177	BAP-001	08/14/23	Gross Alpha/Beta	Gross Beta	2.15E-14	2.52E-15	1.16E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265178	BAP-001	08/21/23	Gross Alpha/Beta	Gross Alpha	3.35E-15	9.20E-16	3.69E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265178	BAP-001	08/21/23	Gross Alpha/Beta	Gross Beta	1.84E-14	2.24E-15	1.10E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265179	BAP-001	08/28/23	Gross Alpha/Beta	Gross Alpha	7.15E-15	1.42E-15	3.86E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265179	BAP-001	08/28/23	Gross Alpha/Beta	Gross Beta	3.97E-14	3.94E-15	1.16E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265180	BAP-001	09/05/23	Gross Alpha/Beta	Gross Alpha	2.28E-15	7.12E-16	3.29E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265180	BAP-001	09/05/23	Gross Alpha/Beta	Gross Beta	1.68E-14	2.02E-15	9.85E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265181	BAP-001	09/11/23	Gross Alpha/Beta	Gross Alpha	2.00E-15	7.77E-16	4.49E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265181	BAP-001	09/11/23	Gross Alpha/Beta	Gross Beta	1.45E-14	2.08E-15	1.35E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265182	BAP-001	09/18/23	Gross Alpha/Beta	Gross Alpha	2.62E-15	8.37E-16	3.96E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265182	BAP-001	09/18/23	Gross Alpha/Beta	Gross Beta	2.89E-14	3.12E-15	1.19E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265183	BAP-001	09/25/23	Gross Alpha/Beta	Gross Alpha	2.92E-15	8.60E-16	3.72E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265183	BAP-001	09/25/23	Gross Alpha/Beta	Gross Beta	4.16E-14	4.05E-15	1.12E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265184	BAP-001	10/02/23	Gross Alpha/Beta	Gross Alpha	1.35E-14	2.11E-15	5.31E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265184	BAP-001	10/02/23	Gross Alpha/Beta	Gross Beta	4.04E-14	4.03E-15	1.23E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265185	BAP-001	10/10/23	Gross Alpha/Beta	Gross Alpha	7.97E-15	1.52E-15	5.07E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265185	BAP-001	10/10/23	Gross Alpha/Beta	Gross Beta	2.65E-14	2.91E-15	1.17E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265186	BAP-001	10/16/23	Gross Alpha/Beta	Gross Alpha	5.95E-15	1.30E-15	5.18E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265186	BAP-001	10/16/23	Gross Alpha/Beta	Gross Beta	1.97E-14	2.39E-15	1.20E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring

Table C-1. Background Air Particulate Data Results for CY 2023 (Continued)

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
BKG265187	BAP-001	10/23/23	Gross Alpha/Beta	Gross Alpha	8.92E-15	1.74E-15	5.99E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265187	BAP-001	10/23/23	Gross Alpha/Beta	Gross Beta	3.02E-14	3.35E-15	1.39E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265188	BAP-001	10/30/23	Gross Alpha/Beta	Gross Alpha	4.27E-15	1.06E-15	4.86E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265188	BAP-001	10/30/23	Gross Alpha/Beta	Gross Beta	2.04E-14	2.40E-15	1.13E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265189	BAP-001	11/06/23	Gross Alpha/Beta	Gross Alpha	9.15E-15	1.69E-15	5.38E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265189	BAP-001	11/06/23	Gross Alpha/Beta	Gross Beta	3.98E-14	3.99E-15	1.25E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265190	BAP-001	11/13/23	Gross Alpha/Beta	Gross Alpha	5.36E-15	1.22E-15	5.13E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265190	BAP-001	11/13/23	Gross Alpha/Beta	Gross Beta	2.36E-14	2.69E-15	1.19E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265191	BAP-001	11/20/23	Gross Alpha/Beta	Gross Alpha	4.66E-15	1.18E-15	5.52E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265191	BAP-001	11/20/23	Gross Alpha/Beta	Gross Beta	2.82E-14	3.12E-15	1.28E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265192	BAP-001	11/27/23	Gross Alpha/Beta	Gross Alpha	4.61E-15	1.16E-15	5.38E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265192	BAP-001	11/27/23	Gross Alpha/Beta	Gross Beta	2.73E-14	3.02E-15	1.25E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265193	BAP-001	12/04/23	Gross Alpha/Beta	Gross Alpha	5.71E-15	1.36E-15	5.94E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265193	BAP-001	12/04/23	Gross Alpha/Beta	Gross Beta	3.42E-14	3.65E-15	1.38E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265194	BAP-001	12/11/23	Gross Alpha/Beta	Gross Alpha	4.51E-15	1.12E-15	5.13E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265194	BAP-001	12/11/23	Gross Alpha/Beta	Gross Beta	3.61E-14	3.66E-15	1.19E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265195	BAP-001	12/18/23	Gross Alpha/Beta	Gross Alpha	2.88E-15	9.04E-16	5.34E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265195	BAP-001	12/18/23	Gross Alpha/Beta	Gross Beta	3.14E-14	3.33E-15	1.24E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265196	BAP-001	12/26/23	Gross Alpha/Beta	Gross Alpha	2.33E-15	7.76E-16	4.84E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG265196	BAP-001	12/26/23	Gross Alpha/Beta	Gross Beta	2.93E-14	3.09E-15	1.12E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring

VQs:

= - Indicates that the data met all QA/QC requirements, and that the parameter has been positively identified and the associated concentration value is accurate.

J - Indicates that the parameter was positively identified; the associated numerical value is the approximate concentration of the parameter in the sample.

Validation Reason Code:

T04 - Radionuclide Quantitation: Professional judgment was used to qualify the data.

T20 - Radionuclide Quantitation: Analytical result is greater than the associated MDA, with uncertainty 50 to 100 percent of the result.

Table C-2. Ra-222 Results for CY 2023

Sample Name	Station Name	Collect Date	Method Type	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
HIS267866	BA-1	07/05/23	Radiological	Rn-222	0.08	0	0.08	pCi/L	UJ	Y01	Environmental Monitoring (Alpha Tracks)-1st Semiannual 2023
HIS273286	BA-1	01/02/24	Radiological	Rn-222	0.22	0	0.08	pCi/L	J	Y01	Environmental Monitoring (Alpha Tracks)-2nd Semiannual 2023
HIS267880	FA-1	07/05/23	Radiological	Rn-222	0.08	0	0.08	pCi/L	UJ	Y01	Environmental Monitoring (Alpha Tracks)-1st Semiannual 2023
HIS273300	FA-1	01/02/24	Radiological	Rn-222	0.24	0	0.08	pCi/L	J	Y01	Environmental Monitoring (Alpha Tracks)-2nd Semiannual 2023
HIS267881	FA-2	07/05/23	Radiological	Rn-222	0.08	0	0.08	pCi/L	J	Y01	Environmental Monitoring (Alpha Tracks)-1st Semiannual 2023
HIS273301	FA-2	01/02/24	Radiological	Rn-222	0.24	0	0.08	pCi/L	J	Y01	Environmental Monitoring (Alpha Tracks)-2nd Semiannual 2023
HIS267882	FA-3	07/05/23	Radiological	Rn-222	0.14	0	0.08	pCi/L	J	Y01	Environmental Monitoring (Alpha Tracks)-1st Semiannual 2023
HIS273302	FA-3	01/02/24	Radiological	Rn-222	0.27	0	0.08	pCi/L	J	Y01	Environmental Monitoring (Alpha Tracks)-2nd Semiannual 2023
HIS267867	HF-1	07/05/23	Radiological	Rn-222	1.9	0	0.08	pCi/L	J	Y01	Environmental Monitoring (Alpha Tracks)-1st Semiannual 2023
HIS273287	HF-1	01/02/24	Radiological	Rn-222	2.4	0	0.08	pCi/L	J	Y01	Environmental Monitoring (Alpha Tracks)-2nd Semiannual 2023
HIS267876	HF-10	07/05/23	Radiological	Rn-222	0.59	0	0.08	pCi/L	J	Y01	Environmental Monitoring (Alpha Tracks)-1st Semiannual 2023
HIS273296	HF-10	01/02/24	Radiological	Rn-222	0.81	0	0.08	pCi/L	J	Y01	Environmental Monitoring (Alpha Tracks)-2nd Semiannual 2023
HIS267877	HF-11	07/05/23	Radiological	Rn-222	4.6	0	0.08	pCi/L	J	Y01	Environmental Monitoring (Alpha Tracks)-1st Semiannual 2023
HIS273297	HF-11	01/02/24	Radiological	Rn-222	6.4	0	0.08	pCi/L	J	Y01	Environmental Monitoring (Alpha Tracks)-2nd Semiannual 2023
HIS267878	HF-12	07/05/23	Radiological	Rn-222	3.7	0	0.08	pCi/L	J	Y01	Environmental Monitoring (Alpha Tracks)-1st Semiannual 2023
HIS273298	HF-12	01/02/24	Radiological	Rn-222	6	0	0.08	pCi/L	J	Y01	Environmental Monitoring (Alpha Tracks)-2nd Semiannual 2023
HIS267879	HF-13	07/05/23	Radiological	Rn-222	4.2	0	0.08	pCi/L	J	Y01	Environmental Monitoring (Alpha Tracks)-1st Semiannual 2023
HIS273299	HF-13	01/02/24	Radiological	Rn-222	6.1	0	0.08	pCi/L	J	Y01	Environmental Monitoring (Alpha Tracks)-2nd Semiannual 2023
HIS267868	HF-2	07/05/23	Radiological	Rn-222	4.6	0	0.08	pCi/L	J	Y01	Environmental Monitoring (Alpha Tracks)-1st Semiannual 2023
HIS273288	HF-2	01/02/24	Radiological	Rn-222	5.6	0	0.08	pCi/L	J	Y01	Environmental Monitoring (Alpha Tracks)-2nd Semiannual 2023
HIS267869	HF-3	07/05/23	Radiological	Rn-222	0.11	0	0.08	pCi/L	J	Y01	Environmental Monitoring (Alpha Tracks)-1st Semiannual 2023
HIS273289	HF-3	01/02/24	Radiological	Rn-222	0.43	0	0.08	pCi/L	J	Y01	Environmental Monitoring (Alpha Tracks)-2nd Semiannual 2023
HIS267870	HF-4	07/05/23	Radiological	Rn-222	0.54	0	0.08	pCi/L	J	Y01	Environmental Monitoring (Alpha Tracks)-1st Semiannual 2023
HIS273290	HF-4	01/02/24	Radiological	Rn-222	0.7	0	0.08	pCi/L	J	Y01	Environmental Monitoring (Alpha Tracks)-2nd Semiannual 2023
HIS267871	HF-5	07/05/23	Radiological	Rn-222	0.7	0	0.08	pCi/L	J	Y01	Environmental Monitoring (Alpha Tracks)-1st Semiannual 2023
HIS273291	HF-5	01/02/24	Radiological	Rn-222	0.81	0	0.08	pCi/L	J	Y01	Environmental Monitoring (Alpha Tracks)-2nd Semiannual 2023
HIS267872	HF-6	07/05/23	Radiological	Rn-222	0.59	0	0.08	pCi/L	J	Y01	Environmental Monitoring (Alpha Tracks)-1st Semiannual 2023
HIS273292	HF-6	01/02/24	Radiological	Rn-222	0.54	0	0.08	pCi/L	J	Y01	Environmental Monitoring (Alpha Tracks)-2nd Semiannual 2023
HIS267873	HF-7	07/05/23	Radiological	Rn-222	0.78	0	0.08	pCi/L	J	Y01	Environmental Monitoring (Alpha Tracks)-1st Semiannual 2023
HIS273293	HF-7	01/02/24	Radiological	Rn-222	0.78	0	0.08	pCi/L	J	Y01	Environmental Monitoring (Alpha Tracks)-2nd Semiannual 2023
HIS267874	HF-8	07/05/23	Radiological	Rn-222	0.43	0	0.08	pCi/L	J	Y01	Environmental Monitoring (Alpha Tracks)-1st Semiannual 2023
HIS273294	HF-8	01/02/24	Radiological	Rn-222	0.62	0	0.08	pCi/L	J	Y01	Environmental Monitoring (Alpha Tracks)-2nd Semiannual 2023
HIS267875	HF-9	07/05/23	Radiological	Rn-222	0.51	0	0.08	pCi/L	J	Y01	Environmental Monitoring (Alpha Tracks)-1st Semiannual 2023
HIS273295	HF-9	01/02/24	Radiological	Rn-222	0.73	0	0.08	pCi/L	J	Y01	Environmental Monitoring (Alpha Tracks)-2nd Semiannual 2023
SLA267862	PA-1	07/05/23	Radiological	Rn-222	0.08	0	0.08	pCi/L	UJ	Y01	Environmental Monitoring (Alpha Tracks)-1st Semiannual 2023
SLA273303	PA-1	01/02/24	Radiological	Rn-222	0.22	0	0.08	pCi/L	J	Y01	Environmental Monitoring (Alpha Tracks)-2nd Semiannual 2023
SLA267863	PA-2	07/05/23	Radiological	Rn-222	0.08	0	0.08	pCi/L	J	Y01	Environmental Monitoring (Alpha Tracks)-1st Semiannual 2023
SLA273304	PA-2	01/02/24	Radiological	Rn-222	0.24	0	0.08	pCi/L	J	Y01	Environmental Monitoring (Alpha Tracks)-2nd Semiannual 2023
SLA267864	PA-3	07/05/23	Radiological	Rn-222	0.08	0	0.08	pCi/L	J	Y01	Environmental Monitoring (Alpha Tracks)-1st Semiannual 2023
SLA273306	PA-3	01/02/24	Radiological	Rn-222	0.22	0	0.08	pCi/L	J	Y01	Environmental Monitoring (Alpha Tracks)-2nd Semiannual 2023
SLA267865	PA-4	07/05/23	Radiological	Rn-222	0.11	0	0.08	pCi/L	J	Y01	Environmental Monitoring (Alpha Tracks)-1st Semiannual 2023
SLA273307	PA-4	01/02/24	Radiological	Rn-222	0.24	0	0.08	pCi/L	J	Y01	Environmental Monitoring (Alpha Tracks)-2nd Semiannual 2023

VQs:

J - Indicates that the parameter was positively identified; the associated numerical value is the approximate concentration of the parameter in the sample.

UJ - Indicates that the parameter was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

Validation Reason Code:

Y01 - FUSRAP Only: Not enough supporting documentation to perform validation.

Table C-3. External Gamma Results for CY 2023

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
HIS266491	BA-1	04/03/23	Radiological	External gamma radiation	14.5	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-1Q2023
HIS267896	BA-1	07/05/23	Radiological	External gamma radiation	18.2	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-2Q2023
HIS270072	BA-1	10/02/23	Radiological	External gamma radiation	18.6	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-3Q2023
HIS273266	BA-1	01/02/24	Radiological	External gamma radiation	16.5	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-4Q2023
HIS266492	FA-2	04/03/23	Radiological	External gamma radiation	15.6	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-1Q2023
HIS267897	FA-2	07/05/23	Radiological	External gamma radiation	18.1	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-2Q2023
HIS270073	FA-2	10/02/23	Radiological	External gamma radiation	18.1	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-3Q2023
HIS273267	FA-2	01/02/24	Radiological	External gamma radiation	18.3	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-4Q2023
HIS266493	FA-3	04/03/23	Radiological	External gamma radiation	16.9	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-1Q2023
HIS267898	FA-3	07/05/23	Radiological	External gamma radiation	19.3	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-2Q2023
HIS270074	FA-3	10/02/23	Radiological	External gamma radiation	17.1	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-3Q2023
HIS273268	FA-3	01/02/24	Radiological	External gamma radiation	20.9	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-4Q2023
SLA266494	PA-1	04/03/23	Radiological	External gamma radiation	18.3	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-1Q2023
SLA267892	PA-1	07/05/23	Radiological	External gamma radiation	21.5	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-2Q2023
SLA270075	PA-1	10/02/23	Radiological	External gamma radiation	21.7	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-3Q2023
SLA273269	PA-1	01/02/24	Radiological	External gamma radiation	21.3	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-4Q2023
SLA266495	PA-2	04/03/23	Radiological	External gamma radiation	20.3	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-1Q2023
SLA267893	PA-2	07/05/23	Radiological	External gamma radiation	20.2	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-2Q2023
SLA270076	PA-2	10/02/23	Radiological	External gamma radiation	22.2	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-3Q2023
SLA273270	PA-2	01/02/24	Radiological	External gamma radiation	24.5	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-4Q2023
SLA266495-1	PA-2dup	04/03/23	Radiological	External gamma radiation	20.3	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-1Q2023
SLA267893-1	PA-2dup	07/05/23	Radiological	External gamma radiation	21.3	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-2Q2023
SLA270076-1	PA-2dup	10/02/23	Radiological	External gamma radiation	23.5	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-3Q2023
SLA273270-1	PA-2dup	01/02/24	Radiological	External gamma radiation	24.5	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-4Q2023
SLA266496	PA-3	04/03/23	Radiological	External gamma radiation	16.2	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-1Q2023
SLA267894	PA-3	07/05/23	Radiological	External gamma radiation	17.3	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-2Q2023
SLA270077	PA-3	10/02/23	Radiological	External gamma radiation	19.8	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-3Q2023
SLA273272	PA-3	01/02/24	Radiological	External gamma radiation	19.1	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-4Q2023
SLA266497	PA-4	04/03/23	Radiological	External gamma radiation	22.4	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-1Q2023
SLA267895	PA-4	07/05/23	Radiological	External gamma radiation	24.6	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-2Q2023
SLA270078	PA-4	10/02/23	Radiological	External gamma radiation	25.7	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-3Q2023
SLA273273	PA-4	01/02/24	Radiological	External gamma radiation	26.5	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-4Q2023

VQs:

J - Indicates that the parameter was positively identified; the associated numerical value is the approximate concentration of the parameter in the sample.

Validation Reason Code:

Y01 - FUSRAP Only: Not enough supporting documentation to perform validation.

Table C-4. SLAPS Perimeter Air Data Results for CY 2023

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
SVP265212	BALL FIELDS	01/03/23	Gross Alpha/Beta	Gross Alpha	2.09E-15	5.55E-15	1.08E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265212	BALL FIELDS	01/03/23	Gross Alpha/Beta	Gross Beta	1.62E-14	1.28E-14	1.94E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265213	BALL FIELDS	01/03/23	Gross Alpha/Beta	Gross Alpha	-2.81E-15	2.62E-15	1.08E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265213	BALL FIELDS	01/03/23	Gross Alpha/Beta	Gross Beta	1.06E-14	1.20E-14	1.94E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265214	BALL FIELDS	01/04/23	Gross Alpha/Beta	Gross Alpha	8.76E-16	5.03E-15	1.09E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265214	BALL FIELDS	01/04/23	Gross Alpha/Beta	Gross Beta	1.47E-14	1.27E-14	1.96E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265215	BALL FIELDS	01/04/23	Gross Alpha/Beta	Gross Alpha	2.11E-15	5.61E-15	1.09E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265215	BALL FIELDS	01/04/23	Gross Alpha/Beta	Gross Beta	2.61E-14	1.41E-14	1.96E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265216	BALL FIELDS	01/05/23	Gross Alpha/Beta	Gross Alpha	8.19E-16	4.70E-15	1.02E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265216	BALL FIELDS	01/05/23	Gross Alpha/Beta	Gross Beta	1.53E-14	1.21E-14	1.83E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265217	BALL FIELDS	01/05/23	Gross Alpha/Beta	Gross Alpha	8.19E-16	4.70E-15	1.02E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265217	BALL FIELDS	01/05/23	Gross Alpha/Beta	Gross Beta	2.67E-14	1.35E-14	1.83E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265250	BALL FIELDS	01/09/23	Gross Alpha/Beta	Gross Alpha	8.85E-15	7.02E-15	7.71E-15	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265250	BALL FIELDS	01/09/23	Gross Alpha/Beta	Gross Beta	5.72E-14	1.88E-14	2.33E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP265251	BALL FIELDS	01/09/23	Gross Alpha/Beta	Gross Alpha	8.85E-15	7.02E-15	7.71E-15	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265251	BALL FIELDS	01/09/23	Gross Alpha/Beta	Gross Beta	1.38E-14	1.45E-14	2.33E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265252	BALL FIELDS	01/10/23	Gross Alpha/Beta	Gross Alpha	3.05E-15	4.68E-15	7.71E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265252	BALL FIELDS	01/10/23	Gross Alpha/Beta	Gross Beta	5.36E-14	1.85E-14	2.33E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP265253	BALL FIELDS	01/10/23	Gross Alpha/Beta	Gross Alpha	3.05E-15	4.68E-15	7.71E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265253	BALL FIELDS	01/10/23	Gross Alpha/Beta	Gross Beta	7.18E-15	1.38E-14	2.33E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265254	BALL FIELDS	01/11/23	Gross Alpha/Beta	Gross Alpha	3.14E-15	4.82E-15	7.94E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265254	BALL FIELDS	01/11/23	Gross Alpha/Beta	Gross Beta	2.26E-14	1.58E-14	2.40E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265255	BALL FIELDS	01/11/23	Gross Alpha/Beta	Gross Alpha	6.72E-15	6.37E-15	7.94E-15	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265255	BALL FIELDS	01/11/23	Gross Alpha/Beta	Gross Beta	4.53E-14	1.81E-14	2.40E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP265256	BALL FIELDS	01/12/23	Gross Alpha/Beta	Gross Alpha	1.29E-14	9.50E-15	9.90E-15	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265256	BALL FIELDS	01/12/23	Gross Alpha/Beta	Gross Beta	6.22E-14	2.31E-14	2.99E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP265257	BALL FIELDS	01/12/23	Gross Alpha/Beta	Gross Alpha	9.87E-15	8.49E-15	9.90E-15	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265257	BALL FIELDS	01/12/23	Gross Alpha/Beta	Gross Beta	5.65E-14	2.26E-14	2.99E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP265258	BALL FIELDS	01/17/23	Gross Alpha/Beta	Gross Alpha	4.17E-15	5.18E-15	7.64E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265258	BALL FIELDS	01/17/23	Gross Alpha/Beta	Gross Beta	3.70E-14	1.67E-14	2.31E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP265259	BALL FIELDS	01/17/23	Gross Alpha/Beta	Gross Alpha	1.87E-15	4.02E-15	7.64E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265259	BALL FIELDS	01/17/23	Gross Alpha/Beta	Gross Beta	1.59E-14	1.46E-14	2.31E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265260	BALL FIELDS	01/19/23	Gross Alpha/Beta	Gross Alpha	3.02E-15	4.64E-15	7.64E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265260	BALL FIELDS	01/19/23	Gross Alpha/Beta	Gross Beta	1.95E-14	1.50E-14	2.31E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265261	BALL FIELDS	01/19/23	Gross Alpha/Beta	Gross Alpha	7.18E-16	3.30E-15	7.64E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265261	BALL FIELDS	01/19/23	Gross Alpha/Beta	Gross Beta	-9.11E-16	1.27E-14	2.31E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265262	BALL FIELDS	01/23/23	Gross Alpha/Beta	Gross Alpha	3.02E-15	4.64E-15	7.64E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265262	BALL FIELDS	01/23/23	Gross Alpha/Beta	Gross Beta	2.46E-14	1.55E-14	2.31E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265263	BALL FIELDS	01/23/23	Gross Alpha/Beta	Gross Alpha	4.17E-15	5.18E-15	7.64E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265263	BALL FIELDS	01/23/23	Gross Alpha/Beta	Gross Beta	3.48E-14	1.65E-14	2.31E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP265264	BALL FIELDS	01/24/23	Gross Alpha/Beta	Gross Alpha	3.05E-15	4.68E-15	7.71E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265264	BALL FIELDS	01/24/23	Gross Alpha/Beta	Gross Beta	2.41E-14	1.56E-14	2.33E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265265	BALL FIELDS	01/24/23	Gross Alpha/Beta	Gross Alpha	5.37E-15	5.73E-15	7.71E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265265	BALL FIELDS	01/24/23	Gross Alpha/Beta	Gross Beta	1.23E-14	1.43E-14	2.33E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air

Table C-4. SLAPS Perimeter Air Data Results for CY 2023 (Continued)

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
SVP265266	BALL FIELDS	01/25/23	Gross Alpha/Beta	Gross Alpha	-6.03E-16	3.31E-15	1.07E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265266	BALL FIELDS	01/25/23	Gross Alpha/Beta	Gross Beta	1.91E-14	2.01E-14	3.23E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265267	BALL FIELDS	01/25/23	Gross Alpha/Beta	Gross Alpha	1.01E-15	4.62E-15	1.07E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265267	BALL FIELDS	01/25/23	Gross Alpha/Beta	Gross Beta	3.34E-14	2.16E-14	3.23E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265268	BALL FIELDS	01/26/23	Gross Alpha/Beta	Gross Alpha	4.33E-15	5.38E-15	7.94E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265268	BALL FIELDS	01/26/23	Gross Alpha/Beta	Gross Beta	1.04E-14	1.45E-14	2.40E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265269	BALL FIELDS	01/26/23	Gross Alpha/Beta	Gross Alpha	3.14E-15	4.82E-15	7.94E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265269	BALL FIELDS	01/26/23	Gross Alpha/Beta	Gross Beta	3.70E-14	1.73E-14	2.40E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP265270	BALL FIELDS	01/30/23	Gross Alpha/Beta	Gross Alpha	6.60E-15	7.91E-15	1.17E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265270	BALL FIELDS	01/30/23	Gross Alpha/Beta	Gross Beta	8.74E-16	1.35E-14	2.49E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265271	BALL FIELDS	01/30/23	Gross Alpha/Beta	Gross Alpha	1.80E-15	5.62E-15	1.17E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265271	BALL FIELDS	01/30/23	Gross Alpha/Beta	Gross Beta	-1.22E-15	1.32E-14	2.49E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265272	BALL FIELDS	01/31/23	Gross Alpha/Beta	Gross Alpha	1.55E-16	3.56E-15	9.03E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265272	BALL FIELDS	01/31/23	Gross Alpha/Beta	Gross Beta	1.61E-14	1.27E-14	1.92E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265273	BALL FIELDS	01/31/23	Gross Alpha/Beta	Gross Alpha	1.55E-16	3.56E-15	9.03E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265273	BALL FIELDS	01/31/23	Gross Alpha/Beta	Gross Beta	1.85E-14	1.30E-14	1.92E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265283	BALL FIELDS	02/01/23	Gross Alpha/Beta	Gross Alpha	1.24E-15	3.40E-15	7.13E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265283	BALL FIELDS	02/01/23	Gross Alpha/Beta	Gross Beta	1.40E-14	1.18E-14	1.80E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265284	BALL FIELDS	02/01/23	Gross Alpha/Beta	Gross Alpha	1.19E-14	7.95E-15	7.13E-15	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265284	BALL FIELDS	02/01/23	Gross Alpha/Beta	Gross Beta	2.18E-14	1.28E-14	1.80E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265285	BALL FIELDS	02/02/23	Gross Alpha/Beta	Gross Alpha	5.00E-17	2.43E-15	7.13E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265285	BALL FIELDS	02/02/23	Gross Alpha/Beta	Gross Beta	3.35E-14	1.43E-14	1.80E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP265286	BALL FIELDS	02/02/23	Gross Alpha/Beta	Gross Alpha	2.43E-15	4.15E-15	7.13E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265286	BALL FIELDS	02/02/23	Gross Alpha/Beta	Gross Beta	4.75E-14	1.60E-14	1.80E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP265287	BALL FIELDS	02/06/23	Gross Alpha/Beta	Gross Alpha	3.52E-15	4.66E-15	6.93E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265287	BALL FIELDS	02/06/23	Gross Alpha/Beta	Gross Beta	2.19E-14	1.26E-14	1.75E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265288	BALL FIELDS	02/06/23	Gross Alpha/Beta	Gross Alpha	3.52E-15	4.66E-15	6.93E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265288	BALL FIELDS	02/06/23	Gross Alpha/Beta	Gross Beta	3.86E-14	1.46E-14	1.75E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP265291	BALL FIELDS	02/07/23	Gross Alpha/Beta	Gross Alpha	8.45E-15	6.84E-15	7.20E-15	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265291	BALL FIELDS	02/07/23	Gross Alpha/Beta	Gross Beta	5.03E-14	1.64E-14	1.82E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP265292	BALL FIELDS	02/07/23	Gross Alpha/Beta	Gross Alpha	3.65E-15	4.83E-15	7.20E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265292	BALL FIELDS	02/07/23	Gross Alpha/Beta	Gross Beta	1.88E-14	1.25E-14	1.82E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265294	BALL FIELDS	02/08/23	Gross Alpha/Beta	Gross Alpha	3.96E-15	5.24E-15	7.79E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265294	BALL FIELDS	02/08/23	Gross Alpha/Beta	Gross Beta	9.33E-15	1.20E-14	1.97E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265295	BALL FIELDS	02/08/23	Gross Alpha/Beta	Gross Alpha	2.66E-15	4.54E-15	7.79E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265295	BALL FIELDS	02/08/23	Gross Alpha/Beta	Gross Beta	1.96E-14	1.35E-14	1.97E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265302	BALL FIELDS	02/09/23	Gross Alpha/Beta	Gross Alpha	5.10E-15	6.37E-15	9.67E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265302	BALL FIELDS	02/09/23	Gross Alpha/Beta	Gross Beta	2.06E-14	1.60E-14	2.47E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265303	BALL FIELDS	02/09/23	Gross Alpha/Beta	Gross Alpha	1.23E-15	4.53E-15	9.67E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265303	BALL FIELDS	02/09/23	Gross Alpha/Beta	Gross Beta	9.92E-15	1.48E-14	2.47E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265307	BALL FIELDS	02/13/23	Gross Alpha/Beta	Gross Alpha	1.26E-14	8.34E-15	8.59E-15	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265307	BALL FIELDS	02/13/23	Gross Alpha/Beta	Gross Beta	1.61E-14	1.40E-14	2.19E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265308	BALL FIELDS	02/13/23	Gross Alpha/Beta	Gross Alpha	3.39E-15	5.17E-15	8.59E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265308	BALL FIELDS	02/13/23	Gross Alpha/Beta	Gross Beta	3.72E-14	1.62E-14	2.19E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air

Table C-4. SLAPS Perimeter Air Data Results for CY 2023 (Continued)

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
SVP265311	BALL FIELDS	02/14/23	Gross Alpha/Beta	Gross Alpha	1.23E-15	4.53E-15	9.67E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265311	BALL FIELDS	02/14/23	Gross Alpha/Beta	Gross Beta	1.97E-14	1.59E-14	2.47E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265312	BALL FIELDS	02/14/23	Gross Alpha/Beta	Gross Alpha	5.10E-15	6.37E-15	9.67E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265312	BALL FIELDS	02/14/23	Gross Alpha/Beta	Gross Beta	5.49E-14	1.96E-14	2.47E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP265317	BALL FIELDS	02/15/23	Gross Alpha/Beta	Gross Alpha	2.24E-15	4.63E-15	8.59E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265317	BALL FIELDS	02/15/23	Gross Alpha/Beta	Gross Beta	3.50E-14	1.60E-14	2.19E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP265318	BALL FIELDS	02/15/23	Gross Alpha/Beta	Gross Alpha	2.51E-14	1.14E-14	8.59E-15	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP265318	BALL FIELDS	02/15/23	Gross Alpha/Beta	Gross Beta	6.48E-14	1.90E-14	2.19E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP265319	BALL FIELDS	02/16/23	Gross Alpha/Beta	Gross Alpha	4.54E-15	5.33E-15	7.49E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265319	BALL FIELDS	02/16/23	Gross Alpha/Beta	Gross Beta	1.95E-14	1.49E-14	2.28E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265320	BALL FIELDS	02/16/23	Gross Alpha/Beta	Gross Alpha	4.54E-15	5.33E-15	7.49E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265320	BALL FIELDS	02/16/23	Gross Alpha/Beta	Gross Beta	1.72E-14	1.46E-14	2.28E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265325	BALL FIELDS	02/21/23	Gross Alpha/Beta	Gross Alpha	9.31E-16	3.20E-15	7.08E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265325	BALL FIELDS	02/21/23	Gross Alpha/Beta	Gross Beta	1.48E-14	1.36E-14	2.16E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265326	BALL FIELDS	02/21/23	Gross Alpha/Beta	Gross Alpha	-1.86E-16	2.29E-15	7.08E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265326	BALL FIELDS	02/21/23	Gross Alpha/Beta	Gross Beta	-2.90E-15	1.16E-14	2.16E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265329	BALL FIELDS	02/22/23	Gross Alpha/Beta	Gross Alpha	1.40E-15	4.80E-15	1.06E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265329	BALL FIELDS	02/22/23	Gross Alpha/Beta	Gross Beta	1.37E-14	1.95E-14	3.23E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265330	BALL FIELDS	02/22/23	Gross Alpha/Beta	Gross Alpha	1.40E-15	4.80E-15	1.06E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265330	BALL FIELDS	02/22/23	Gross Alpha/Beta	Gross Beta	2.01E-14	2.02E-14	3.23E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265331	BALL FIELDS	02/23/23	Gross Alpha/Beta	Gross Alpha	-3.43E-16	3.41E-15	9.17E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265331	BALL FIELDS	02/23/23	Gross Alpha/Beta	Gross Beta	1.41E-14	1.39E-14	2.22E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265331	BALL FIELDS	02/23/23	Gross Alpha/Beta	Gross Alpha	-3.43E-16	3.41E-15	9.17E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265331	BALL FIELDS	02/23/23	Gross Alpha/Beta	Gross Beta	1.41E-14	1.39E-14	2.22E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265332	BALL FIELDS	02/23/23	Gross Alpha/Beta	Gross Alpha	6.72E-15	6.72E-15	9.17E-15	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265332	BALL FIELDS	02/23/23	Gross Alpha/Beta	Gross Beta	2.38E-14	1.50E-14	2.22E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265337	BALL FIELDS	02/27/23	Gross Alpha/Beta	Gross Alpha	8.50E-16	4.23E-15	9.35E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265337	BALL FIELDS	02/27/23	Gross Alpha/Beta	Gross Beta	2.89E-14	1.58E-14	2.26E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265338	BALL FIELDS	02/27/23	Gross Alpha/Beta	Gross Alpha	3.25E-15	5.43E-15	9.35E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265338	BALL FIELDS	02/27/23	Gross Alpha/Beta	Gross Beta	1.28E-14	1.40E-14	2.26E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265343	BALL FIELDS	02/28/23	Gross Alpha/Beta	Gross Alpha	2.07E-15	4.91E-15	9.44E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265343	BALL FIELDS	02/28/23	Gross Alpha/Beta	Gross Beta	2.76E-14	1.58E-14	2.28E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265347	BALL FIELDS	03/01/23	Gross Alpha/Beta	Gross Alpha	3.13E-15	5.22E-15	9.00E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265347	BALL FIELDS	03/01/23	Gross Alpha/Beta	Gross Beta	4.47E-14	1.69E-14	2.17E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP265348	BALL FIELDS	03/01/23	Gross Alpha/Beta	Gross Alpha	1.35E-14	8.74E-15	9.00E-15	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265348	BALL FIELDS	03/01/23	Gross Alpha/Beta	Gross Beta	6.16E-14	1.86E-14	2.17E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP265349	BALL FIELDS	03/02/23	Gross Alpha/Beta	Gross Alpha	3.82E-15	5.91E-15	9.89E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265349	BALL FIELDS	03/02/23	Gross Alpha/Beta	Gross Beta	2.93E-14	1.50E-14	2.04E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265350	BALL FIELDS	03/02/23	Gross Alpha/Beta	Gross Alpha	-1.09E-16	3.78E-15	9.89E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265350	BALL FIELDS	03/02/23	Gross Alpha/Beta	Gross Beta	3.67E-15	1.16E-14	2.04E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265353	BALL FIELDS	03/06/23	Gross Alpha/Beta	Gross Alpha	-2.30E-15	4.42E-15	1.60E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265353	BALL FIELDS	03/06/23	Gross Alpha/Beta	Gross Beta	1.15E-14	1.95E-14	3.30E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265354	BALL FIELDS	03/06/23	Gross Alpha/Beta	Gross Alpha	-1.12E-16	3.90E-15	1.02E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265354	BALL FIELDS	03/06/23	Gross Alpha/Beta	Gross Beta	3.55E-14	1.61E-14	2.10E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP265357	BALL FIELDS	03/07/23	Gross Alpha/Beta	Gross Alpha	-1.09E-16	3.78E-15	9.89E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265357	BALL FIELDS	03/07/23	Gross Alpha/Beta	Gross Beta	1.48E-14	1.31E-14	2.04E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265358	BALL FIELDS	03/07/23	Gross Alpha/Beta	Gross Alpha	-1.09E-16	3.78E-15	9.89E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air

Table C-4. SLAPS Perimeter Air Data Results for CY 2023 (Continued)

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
SVP265358	BALL FIELDS	03/07/23	Gross Alpha/Beta	Gross Beta	1.65E-14	1.34E-14	2.04E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265361	BALL FIELDS	03/08/23	Gross Alpha/Beta	Gross Alpha	-1.08E-16	3.75E-15	9.79E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265361	BALL FIELDS	03/08/23	Gross Alpha/Beta	Gross Beta	2.14E-14	1.39E-14	2.02E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265362	BALL FIELDS	03/08/23	Gross Alpha/Beta	Gross Alpha	7.67E-15	7.40E-15	9.79E-15	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265362	BALL FIELDS	03/08/23	Gross Alpha/Beta	Gross Beta	3.83E-14	1.60E-14	2.02E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP265363	BALL FIELDS	03/09/23	Gross Alpha/Beta	Gross Alpha	5.60E-17	3.85E-15	9.89E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265363	BALL FIELDS	03/09/23	Gross Alpha/Beta	Gross Beta	3.00E-14	1.50E-14	2.01E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265364	BALL FIELDS	03/09/23	Gross Alpha/Beta	Gross Alpha	6.73E-15	7.13E-15	9.89E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265364	BALL FIELDS	03/09/23	Gross Alpha/Beta	Gross Beta	3.44E-14	1.56E-14	2.01E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP265369	BALL FIELDS	03/13/23	Gross Alpha/Beta	Gross Alpha	3.80E-15	5.64E-15	9.24E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265369	BALL FIELDS	03/13/23	Gross Alpha/Beta	Gross Beta	2.40E-14	1.35E-14	1.88E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265370	BALL FIELDS	03/13/23	Gross Alpha/Beta	Gross Alpha	2.55E-15	5.05E-15	9.24E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265370	BALL FIELDS	03/13/23	Gross Alpha/Beta	Gross Beta	2.48E-14	1.36E-14	1.88E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265374	BALL FIELDS	03/14/23	Gross Alpha/Beta	Gross Alpha	-1.26E-15	2.73E-15	9.70E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265374	BALL FIELDS	03/14/23	Gross Alpha/Beta	Gross Beta	2.00E-14	1.35E-14	1.97E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265375	BALL FIELDS	03/14/23	Gross Alpha/Beta	Gross Alpha	1.36E-15	4.60E-15	9.70E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265375	BALL FIELDS	03/14/23	Gross Alpha/Beta	Gross Beta	1.92E-14	1.34E-14	1.97E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265379	BALL FIELDS	03/15/23	Gross Alpha/Beta	Gross Alpha	1.34E-15	4.51E-15	9.51E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265379	BALL FIELDS	03/15/23	Gross Alpha/Beta	Gross Beta	1.29E-14	1.23E-14	1.93E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265380	BALL FIELDS	03/15/23	Gross Alpha/Beta	Gross Alpha	5.19E-15	6.35E-15	9.51E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265380	BALL FIELDS	03/15/23	Gross Alpha/Beta	Gross Beta	2.72E-14	1.42E-14	1.93E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265381	BALL FIELDS	03/16/23	Gross Alpha/Beta	Gross Alpha	5.84E-15	6.46E-15	9.00E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265381	BALL FIELDS	03/16/23	Gross Alpha/Beta	Gross Beta	1.04E-14	1.27E-14	2.07E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265382	BALL FIELDS	03/16/23	Gross Alpha/Beta	Gross Alpha	1.11E-14	8.35E-15	9.00E-15	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265382	BALL FIELDS	03/16/23	Gross Alpha/Beta	Gross Beta	2.75E-14	1.49E-14	2.07E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265383	BALL FIELDS	03/20/23	Gross Alpha/Beta	Gross Alpha	4.53E-15	5.90E-15	9.00E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265383	BALL FIELDS	03/20/23	Gross Alpha/Beta	Gross Beta	3.69E-14	1.61E-14	2.07E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP265384	BALL FIELDS	03/20/23	Gross Alpha/Beta	Gross Alpha	3.22E-15	5.29E-15	9.00E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265384	BALL FIELDS	03/20/23	Gross Alpha/Beta	Gross Beta	1.89E-14	1.38E-14	2.07E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265385	BALL FIELDS	03/21/23	Gross Alpha/Beta	Gross Alpha	4.53E-15	5.90E-15	9.00E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265385	BALL FIELDS	03/21/23	Gross Alpha/Beta	Gross Beta	2.83E-14	1.50E-14	2.07E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265386	BALL FIELDS	03/21/23	Gross Alpha/Beta	Gross Alpha	1.91E-15	4.59E-15	9.00E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265386	BALL FIELDS	03/21/23	Gross Alpha/Beta	Gross Beta	2.83E-14	1.50E-14	2.07E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265387	BALL FIELDS	03/22/23	Gross Alpha/Beta	Gross Alpha	8.46E-15	7.46E-15	9.00E-15	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265387	BALL FIELDS	03/22/23	Gross Alpha/Beta	Gross Beta	1.98E-14	1.39E-14	2.07E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265388	BALL FIELDS	03/22/23	Gross Alpha/Beta	Gross Alpha	1.91E-15	4.59E-15	9.00E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265388	BALL FIELDS	03/22/23	Gross Alpha/Beta	Gross Beta	3.60E-14	1.60E-14	2.07E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP265389	BALL FIELDS	03/23/23	Gross Alpha/Beta	Gross Alpha	1.23E-15	4.16E-15	8.76E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265389	BALL FIELDS	03/23/23	Gross Alpha/Beta	Gross Beta	2.54E-14	1.58E-14	2.35E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265390	BALL FIELDS	03/23/23	Gross Alpha/Beta	Gross Alpha	1.23E-15	4.16E-15	8.76E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265390	BALL FIELDS	03/23/23	Gross Alpha/Beta	Gross Beta	1.79E-14	1.50E-14	2.35E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265391	BALL FIELDS	03/27/23	Gross Alpha/Beta	Gross Alpha	4.90E-17	3.41E-15	8.76E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265391	BALL FIELDS	03/27/23	Gross Alpha/Beta	Gross Beta	3.44E-14	1.67E-14	2.35E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP265392	BALL FIELDS	03/27/23	Gross Alpha/Beta	Gross Alpha	2.42E-15	4.78E-15	8.76E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air

Table C-4. SLAPS Perimeter Air Data Results for CY 2023 (Continued)

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
SVP265392	BALL FIELDS	03/27/23	Gross Alpha/Beta	Gross Beta	3.06E-14	1.63E-14	2.35E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265393	BALL FIELDS	03/28/23	Gross Alpha/Beta	Gross Alpha	1.20E-15	4.04E-15	8.51E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265393	BALL FIELDS	03/28/23	Gross Alpha/Beta	Gross Beta	2.46E-14	1.53E-14	2.28E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265394	BALL FIELDS	03/28/23	Gross Alpha/Beta	Gross Alpha	-1.10E-15	2.39E-15	8.51E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265394	BALL FIELDS	03/28/23	Gross Alpha/Beta	Gross Beta	2.54E-14	1.54E-14	2.28E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265395	BALL FIELDS	03/29/23	Gross Alpha/Beta	Gross Alpha	2.35E-15	4.65E-15	8.51E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265395	BALL FIELDS	03/29/23	Gross Alpha/Beta	Gross Beta	5.02E-14	1.79E-14	2.28E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP265396	BALL FIELDS	03/29/23	Gross Alpha/Beta	Gross Alpha	1.20E-15	4.04E-15	8.51E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265396	BALL FIELDS	03/29/23	Gross Alpha/Beta	Gross Beta	4.73E-14	1.76E-14	2.28E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP265397	BALL FIELDS	03/30/23	Gross Alpha/Beta	Gross Alpha	-1.82E-15	2.48E-15	9.49E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265397	BALL FIELDS	03/30/23	Gross Alpha/Beta	Gross Beta	2.65E-14	1.55E-14	2.25E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265398	BALL FIELDS	03/30/23	Gross Alpha/Beta	Gross Alpha	7.61E-15	7.13E-15	9.49E-15	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265398	BALL FIELDS	03/30/23	Gross Alpha/Beta	Gross Beta	2.35E-14	1.51E-14	2.25E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265399	BALL FIELDS	04/03/23	Gross Alpha/Beta	Gross Alpha	1.72E-15	4.77E-15	9.49E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265399	BALL FIELDS	04/03/23	Gross Alpha/Beta	Gross Beta	1.08E-14	1.37E-14	2.25E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265400	BALL FIELDS	04/03/23	Gross Alpha/Beta	Gross Alpha	1.72E-15	4.77E-15	9.49E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265400	BALL FIELDS	04/03/23	Gross Alpha/Beta	Gross Beta	1.83E-14	1.46E-14	2.25E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265401	BALL FIELDS	04/04/23	Gross Alpha/Beta	Gross Alpha	6.09E-16	4.69E-15	1.07E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265401	BALL FIELDS	04/04/23	Gross Alpha/Beta	Gross Beta	7.95E-15	1.50E-14	2.54E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265402	BALL FIELDS	04/04/23	Gross Alpha/Beta	Gross Alpha	4.60E-15	6.58E-15	1.07E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265402	BALL FIELDS	04/04/23	Gross Alpha/Beta	Gross Beta	2.57E-14	1.70E-14	2.54E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265403	BALL FIELDS	04/05/23	Gross Alpha/Beta	Gross Alpha	-1.60E-15	8.55E-15	2.37E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265403	BALL FIELDS	04/05/23	Gross Alpha/Beta	Gross Beta	4.52E-15	3.17E-14	5.63E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265404	BALL FIELDS	04/05/23	Gross Alpha/Beta	Gross Alpha	4.29E-15	1.19E-14	2.37E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265404	BALL FIELDS	04/05/23	Gross Alpha/Beta	Gross Beta	6.39E-15	3.19E-14	5.63E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265405	BALL FIELDS	04/06/23	Gross Alpha/Beta	Gross Alpha	2.70E-15	5.14E-15	9.29E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265405	BALL FIELDS	04/06/23	Gross Alpha/Beta	Gross Beta	2.46E-14	1.40E-14	1.95E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265406	BALL FIELDS	04/06/23	Gross Alpha/Beta	Gross Alpha	-1.11E-15	2.64E-15	9.29E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265406	BALL FIELDS	04/06/23	Gross Alpha/Beta	Gross Beta	3.04E-14	1.47E-14	1.95E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP265407	BALL FIELDS	04/10/23	Gross Alpha/Beta	Gross Alpha	-1.26E-15	2.98E-15	1.05E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265407	BALL FIELDS	04/10/23	Gross Alpha/Beta	Gross Beta	3.90E-14	1.72E-14	2.20E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP265408	BALL FIELDS	04/10/23	Gross Alpha/Beta	Gross Alpha	3.98E-15	5.74E-15	9.29E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265408	BALL FIELDS	04/10/23	Gross Alpha/Beta	Gross Beta	2.79E-14	1.44E-14	1.95E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265409	BALL FIELDS	04/10/23	Gross Alpha/Beta	Gross Alpha	2.70E-15	5.14E-15	9.29E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265409	BALL FIELDS	04/10/23	Gross Alpha/Beta	Gross Beta	2.46E-14	1.40E-14	1.95E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265411	BALL FIELDS	04/11/23	Gross Alpha/Beta	Gross Alpha	1.43E-15	4.47E-15	9.29E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265411	BALL FIELDS	04/11/23	Gross Alpha/Beta	Gross Beta	2.21E-14	1.37E-14	1.95E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265412	BALL FIELDS	04/11/23	Gross Alpha/Beta	Gross Alpha	4.59E-15	6.62E-15	1.07E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265412	BALL FIELDS	04/11/23	Gross Alpha/Beta	Gross Beta	2.93E-14	1.63E-14	2.25E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265413	BALL FIELDS	04/11/23	Gross Alpha/Beta	Gross Alpha	1.83E-16	4.23E-15	1.07E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265413	BALL FIELDS	04/11/23	Gross Alpha/Beta	Gross Beta	2.55E-14	1.58E-14	2.25E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265414	BALL FIELDS	04/12/23	Gross Alpha/Beta	Gross Alpha	6.99E-15	7.27E-15	9.95E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265414	BALL FIELDS	04/12/23	Gross Alpha/Beta	Gross Beta	3.08E-14	1.55E-14	2.09E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265415	BALL FIELDS	04/12/23	Gross Alpha/Beta	Gross Alpha	1.43E-15	4.47E-15	9.29E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air

Table C-4. SLAPS Perimeter Air Data Results for CY 2023 (Continued)

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
SVP265415	BALL FIELDS	04/12/23	Gross Alpha/Beta	Gross Beta	2.79E-14	1.44E-14	1.95E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265416	BALL FIELDS	04/12/23	Gross Alpha/Beta	Gross Alpha	7.79E-15	7.26E-15	9.29E-15	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265416	BALL FIELDS	04/12/23	Gross Alpha/Beta	Gross Beta	2.38E-14	1.39E-14	1.95E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265417	BALL FIELDS	04/13/23	Gross Alpha/Beta	Gross Alpha	1.13E-15	4.79E-15	1.01E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265417	BALL FIELDS	04/13/23	Gross Alpha/Beta	Gross Beta	3.21E-14	1.62E-14	2.29E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265418	BALL FIELDS	04/13/23	Gross Alpha/Beta	Gross Alpha	-1.23E-15	3.44E-15	1.01E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265418	BALL FIELDS	04/13/23	Gross Alpha/Beta	Gross Beta	1.78E-14	1.47E-14	2.29E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265419	BALL FIELDS	04/13/23	Gross Alpha/Beta	Gross Alpha	6.39E-15	7.36E-15	1.10E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265419	BALL FIELDS	04/13/23	Gross Alpha/Beta	Gross Beta	3.59E-14	1.78E-14	2.51E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP265420	BALL FIELDS	04/17/23	Gross Alpha/Beta	Gross Alpha	6.45E-15	7.44E-15	1.11E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265420	BALL FIELDS	04/17/23	Gross Alpha/Beta	Gross Beta	2.80E-14	1.72E-14	2.53E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265421	BALL FIELDS	04/17/23	Gross Alpha/Beta	Gross Alpha	-4.90E-17	4.17E-15	1.01E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265421	BALL FIELDS	04/17/23	Gross Alpha/Beta	Gross Beta	2.23E-14	1.52E-14	2.29E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265422	BALL FIELDS	04/17/23	Gross Alpha/Beta	Gross Alpha	-4.90E-17	4.17E-15	1.01E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265422	BALL FIELDS	04/17/23	Gross Alpha/Beta	Gross Beta	9.60E-15	1.38E-14	2.29E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265423	BALL FIELDS	04/18/23	Gross Alpha/Beta	Gross Alpha	-9.02E-15	9.40E-15	3.78E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265423	BALL FIELDS	04/18/23	Gross Alpha/Beta	Gross Beta	1.36E-14	4.92E-14	8.59E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265424	BALL FIELDS	04/18/23	Gross Alpha/Beta	Gross Alpha	4.66E-15	6.30E-15	1.01E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265424	BALL FIELDS	04/18/23	Gross Alpha/Beta	Gross Beta	3.43E-14	1.65E-14	2.29E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP265425	BALL FIELDS	04/18/23	Gross Alpha/Beta	Gross Alpha	-1.23E-15	3.44E-15	1.01E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265425	BALL FIELDS	04/18/23	Gross Alpha/Beta	Gross Beta	1.86E-14	1.48E-14	2.29E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265426	BALL FIELDS	04/19/23	Gross Alpha/Beta	Gross Alpha	2.37E-15	5.49E-15	1.04E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265426	BALL FIELDS	04/19/23	Gross Alpha/Beta	Gross Beta	2.14E-14	1.55E-14	2.36E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265427	BALL FIELDS	04/19/23	Gross Alpha/Beta	Gross Alpha	2.06E-14	1.10E-14	1.04E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265427	BALL FIELDS	04/19/23	Gross Alpha/Beta	Gross Beta	4.45E-14	1.79E-14	2.36E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP265428	BALL FIELDS	04/20/23	Gross Alpha/Beta	Gross Alpha	-1.57E-15	2.47E-15	9.23E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265428	BALL FIELDS	04/20/23	Gross Alpha/Beta	Gross Beta	1.45E-14	1.38E-14	2.19E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265429	BALL FIELDS	04/20/23	Gross Alpha/Beta	Gross Alpha	3.14E-15	5.32E-15	9.23E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265429	BALL FIELDS	04/20/23	Gross Alpha/Beta	Gross Beta	2.94E-14	1.55E-14	2.19E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265433	BALL FIELDS	04/24/23	Gross Alpha/Beta	Gross Alpha	3.23E-15	5.48E-15	9.50E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265433	BALL FIELDS	04/24/23	Gross Alpha/Beta	Gross Beta	1.72E-14	1.45E-14	2.26E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265434	BALL FIELDS	04/24/23	Gross Alpha/Beta	Gross Alpha	2.02E-15	4.91E-15	9.50E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265434	BALL FIELDS	04/24/23	Gross Alpha/Beta	Gross Beta	2.41E-14	1.53E-14	2.26E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265435	BALL FIELDS	04/25/23	Gross Alpha/Beta	Gross Alpha	1.96E-15	4.77E-15	9.23E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265435	BALL FIELDS	04/25/23	Gross Alpha/Beta	Gross Beta	2.57E-14	1.51E-14	2.19E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265436	BALL FIELDS	04/25/23	Gross Alpha/Beta	Gross Alpha	-1.57E-15	2.47E-15	9.23E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265436	BALL FIELDS	04/25/23	Gross Alpha/Beta	Gross Beta	3.69E-14	1.63E-14	2.19E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP265439	BALL FIELDS	04/26/23	Gross Alpha/Beta	Gross Alpha	4.32E-15	5.83E-15	9.23E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265439	BALL FIELDS	04/26/23	Gross Alpha/Beta	Gross Beta	3.54E-14	1.61E-14	2.19E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP265440	BALL FIELDS	04/26/23	Gross Alpha/Beta	Gross Alpha	1.96E-15	4.77E-15	9.23E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265440	BALL FIELDS	04/26/23	Gross Alpha/Beta	Gross Beta	1.67E-14	1.41E-14	2.19E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265430	BALL FIELDS	04/27/23	Gross Alpha/Beta	Gross Alpha	-2.94E-15	2.53E-15	1.06E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265430	BALL FIELDS	04/27/23	Gross Alpha/Beta	Gross Beta	3.40E-14	1.65E-14	2.30E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air

Table C-4. SLAPS Perimeter Air Data Results for CY 2023 (Continued)

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
SVP265445	BALL FIELDS	04/27/23	Gross Alpha/Beta	Gross Alpha	5.89E-16	4.80E-15	1.06E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265445	BALL FIELDS	04/27/23	Gross Alpha/Beta	Gross Beta	3.85E-14	1.69E-14	2.30E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP265448	BALL FIELDS	05/01/23	Gross Alpha/Beta	Gross Alpha	-1.77E-15	3.45E-15	1.06E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265448	BALL FIELDS	05/01/23	Gross Alpha/Beta	Gross Beta	1.68E-14	1.46E-14	2.30E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265449	BALL FIELDS	05/01/23	Gross Alpha/Beta	Gross Alpha	5.89E-16	4.80E-15	1.06E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265449	BALL FIELDS	05/01/23	Gross Alpha/Beta	Gross Beta	1.46E-14	1.44E-14	2.30E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265450	BALL FIELDS	05/02/23	Gross Alpha/Beta	Gross Alpha	1.77E-15	5.34E-15	1.06E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265450	BALL FIELDS	05/02/23	Gross Alpha/Beta	Gross Beta	-3.74E-16	1.27E-14	2.30E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265451	BALL FIELDS	05/02/23	Gross Alpha/Beta	Gross Alpha	1.77E-15	5.34E-15	1.06E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265451	BALL FIELDS	05/02/23	Gross Alpha/Beta	Gross Beta	1.01E-14	1.39E-14	2.30E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265454	BALL FIELDS	05/03/23	Gross Alpha/Beta	Gross Alpha	5.89E-16	4.80E-15	1.06E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265454	BALL FIELDS	05/03/23	Gross Alpha/Beta	Gross Beta	1.98E-14	1.50E-14	2.30E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265455	BALL FIELDS	05/03/23	Gross Alpha/Beta	Gross Alpha	1.77E-15	5.34E-15	1.06E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265455	BALL FIELDS	05/03/23	Gross Alpha/Beta	Gross Beta	1.09E-14	1.40E-14	2.30E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265458	BALL FIELDS	05/04/23	Gross Alpha/Beta	Gross Alpha	2.40E-15	5.33E-15	9.99E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265458	BALL FIELDS	05/04/23	Gross Alpha/Beta	Gross Beta	1.18E-14	1.40E-14	2.28E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265459	BALL FIELDS	05/04/23	Gross Alpha/Beta	Gross Alpha	3.58E-15	5.83E-15	9.99E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP265459	BALL FIELDS	05/04/23	Gross Alpha/Beta	Gross Beta	1.55E-14	1.44E-14	2.28E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266646	BALL FIELDS	05/08/23	Gross Alpha/Beta	Gross Alpha	1.26E-15	4.92E-15	1.03E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266646	BALL FIELDS	05/08/23	Gross Alpha/Beta	Gross Beta	1.14E-14	1.43E-14	2.35E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266647	BALL FIELDS	05/08/23	Gross Alpha/Beta	Gross Alpha	2.48E-15	5.49E-15	1.03E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266647	BALL FIELDS	05/08/23	Gross Alpha/Beta	Gross Beta	1.60E-14	1.48E-14	2.35E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266648	BALL FIELDS	05/09/23	Gross Alpha/Beta	Gross Alpha	1.23E-15	4.78E-15	9.99E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266648	BALL FIELDS	05/09/23	Gross Alpha/Beta	Gross Beta	2.45E-14	1.54E-14	2.28E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266649	BALL FIELDS	05/09/23	Gross Alpha/Beta	Gross Alpha	1.23E-15	4.78E-15	9.99E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266649	BALL FIELDS	05/09/23	Gross Alpha/Beta	Gross Beta	5.61E-16	1.27E-14	2.28E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266654	BALL FIELDS	05/10/23	Gross Alpha/Beta	Gross Alpha	4.90E-15	6.48E-15	1.03E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266654	BALL FIELDS	05/10/23	Gross Alpha/Beta	Gross Beta	2.52E-14	1.58E-14	2.35E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266655	BALL FIELDS	05/10/23	Gross Alpha/Beta	Gross Alpha	3.89E-15	3.49E-15	4.97E-15	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266655	BALL FIELDS	05/10/23	Gross Alpha/Beta	Gross Beta	1.56E-14	7.70E-15	1.13E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP266658	BALL FIELDS	05/11/23	Gross Alpha/Beta	Gross Alpha	-3.57E-15	9.00E-16	1.04E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266658	BALL FIELDS	05/11/23	Gross Alpha/Beta	Gross Beta	2.30E-14	1.28E-14	1.78E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266659	BALL FIELDS	05/11/23	Gross Alpha/Beta	Gross Alpha	8.84E-15	7.92E-15	1.04E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266659	BALL FIELDS	05/11/23	Gross Alpha/Beta	Gross Beta	2.90E-14	1.36E-14	1.78E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP266660	BALL FIELDS	05/15/23	Gross Alpha/Beta	Gross Alpha	-1.12E-15	3.72E-15	1.07E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266660	BALL FIELDS	05/15/23	Gross Alpha/Beta	Gross Beta	2.13E-14	1.29E-14	1.84E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266661	BALL FIELDS	05/15/23	Gross Alpha/Beta	Gross Alpha	3.99E-15	6.32E-15	1.07E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266661	BALL FIELDS	05/15/23	Gross Alpha/Beta	Gross Beta	1.89E-14	1.26E-14	1.84E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266662	BALL FIELDS	05/16/23	Gross Alpha/Beta	Gross Alpha	1.93E-15	6.97E-15	1.44E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266662	BALL FIELDS	05/16/23	Gross Alpha/Beta	Gross Beta	2.34E-14	1.67E-14	2.47E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266663	BALL FIELDS	05/16/23	Gross Alpha/Beta	Gross Alpha	-1.50E-15	5.00E-15	1.44E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air

Table C-4. SLAPS Perimeter Air Data Results for CY 2023 (Continued)

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
SVP266663	BALL FIELDS	05/16/23	Gross Alpha/Beta	Gross Beta	3.70E-14	1.84E-14	2.47E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP266664	BALL FIELDS	05/17/23	Gross Alpha/Beta	Gross Alpha	-1.15E-15	3.83E-15	1.10E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266664	BALL FIELDS	05/17/23	Gross Alpha/Beta	Gross Beta	1.95E-14	1.30E-14	1.89E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266665	BALL FIELDS	05/17/23	Gross Alpha/Beta	Gross Alpha	4.11E-15	6.51E-15	1.10E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266665	BALL FIELDS	05/17/23	Gross Alpha/Beta	Gross Beta	2.11E-14	1.32E-14	1.89E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266666	BALL FIELDS	05/18/23	Gross Alpha/Beta	Gross Alpha	1.31E-15	4.61E-15	9.79E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266666	BALL FIELDS	05/18/23	Gross Alpha/Beta	Gross Beta	3.15E-14	1.43E-14	1.85E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP266667	BALL FIELDS	05/18/23	Gross Alpha/Beta	Gross Alpha	0	3.79E-15	9.79E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266667	BALL FIELDS	05/18/23	Gross Alpha/Beta	Gross Beta	1.87E-14	1.27E-14	1.85E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266668	BALL FIELDS	05/22/23	Gross Alpha/Beta	Gross Alpha	2.55E-15	5.16E-15	9.51E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266668	BALL FIELDS	05/22/23	Gross Alpha/Beta	Gross Beta	2.13E-14	1.27E-14	1.79E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266669	BALL FIELDS	05/22/23	Gross Alpha/Beta	Gross Alpha	0	3.68E-15	9.51E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266669	BALL FIELDS	05/22/23	Gross Alpha/Beta	Gross Beta	2.75E-14	1.35E-14	1.79E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP266670	BALL FIELDS	05/23/23	Gross Alpha/Beta	Gross Alpha	6.38E-15	6.81E-15	9.51E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266670	BALL FIELDS	05/23/23	Gross Alpha/Beta	Gross Beta	2.98E-14	1.38E-14	1.79E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP266671	BALL FIELDS	05/23/23	Gross Alpha/Beta	Gross Alpha	0	3.68E-15	9.51E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266671	BALL FIELDS	05/23/23	Gross Alpha/Beta	Gross Beta	2.52E-14	1.32E-14	1.79E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266672	BALL FIELDS	05/24/23	Gross Alpha/Beta	Gross Alpha	1.28E-15	4.48E-15	9.51E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266672	BALL FIELDS	05/24/23	Gross Alpha/Beta	Gross Beta	1.89E-14	1.24E-14	1.79E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266673	BALL FIELDS	05/24/23	Gross Alpha/Beta	Gross Alpha	-1.28E-15	2.66E-15	9.51E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266673	BALL FIELDS	05/24/23	Gross Alpha/Beta	Gross Beta	2.91E-14	1.37E-14	1.79E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP266674	BALL FIELDS	05/25/23	Gross Alpha/Beta	Gross Alpha	2.55E-15	5.16E-15	9.51E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266674	BALL FIELDS	05/25/23	Gross Alpha/Beta	Gross Beta	1.50E-14	1.19E-14	1.79E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266675	BALL FIELDS	05/25/23	Gross Alpha/Beta	Gross Alpha	6.38E-15	6.81E-15	9.51E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266675	BALL FIELDS	05/25/23	Gross Alpha/Beta	Gross Beta	2.44E-14	1.31E-14	1.79E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266676	BALL FIELDS	05/30/23	Gross Alpha/Beta	Gross Alpha	-1.28E-15	2.66E-15	9.51E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266676	BALL FIELDS	05/30/23	Gross Alpha/Beta	Gross Beta	3.45E-14	1.44E-14	1.79E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP266677	BALL FIELDS	05/30/23	Gross Alpha/Beta	Gross Alpha	1.28E-15	4.48E-15	9.51E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266677	BALL FIELDS	05/30/23	Gross Alpha/Beta	Gross Beta	4.46E-14	1.56E-14	1.79E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP266678	BALL FIELDS	05/31/23	Gross Alpha/Beta	Gross Alpha	6.38E-15	6.81E-15	9.51E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266678	BALL FIELDS	05/31/23	Gross Alpha/Beta	Gross Beta	2.91E-14	1.37E-14	1.79E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP266679	BALL FIELDS	05/31/23	Gross Alpha/Beta	Gross Alpha	2.55E-15	5.16E-15	9.51E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266679	BALL FIELDS	05/31/23	Gross Alpha/Beta	Gross Beta	3.45E-14	1.44E-14	1.79E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP266680	BALL FIELDS	06/01/23	Gross Alpha/Beta	Gross Alpha	-2.66E-15	7.78E-16	9.64E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266680	BALL FIELDS	06/01/23	Gross Alpha/Beta	Gross Beta	3.53E-14	1.47E-14	1.86E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP266681	BALL FIELDS	06/01/23	Gross Alpha/Beta	Gross Alpha	-1.06E-16	3.69E-15	9.64E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266681	BALL FIELDS	06/01/23	Gross Alpha/Beta	Gross Beta	2.21E-14	1.31E-14	1.86E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266682	BALL FIELDS	06/05/23	Gross Alpha/Beta	Gross Alpha	5.15E-15	6.49E-15	9.92E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266682	BALL FIELDS	06/05/23	Gross Alpha/Beta	Gross Beta	2.43E-14	1.37E-14	1.91E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266683	BALL FIELDS	06/05/23	Gross Alpha/Beta	Gross Alpha	2.52E-15	5.31E-15	9.92E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air

Table C-4. SLAPS Perimeter Air Data Results for CY 2023 (Continued)

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
SVP266683	BALL FIELDS	06/05/23	Gross Alpha/Beta	Gross Beta	2.51E-14	1.38E-14	1.91E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266684	BALL FIELDS	06/06/23	Gross Alpha/Beta	Gross Alpha	5.00E-15	6.31E-15	9.64E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266684	BALL FIELDS	06/06/23	Gross Alpha/Beta	Gross Beta	2.05E-14	1.29E-14	1.86E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266685	BALL FIELDS	06/06/23	Gross Alpha/Beta	Gross Alpha	8.83E-15	7.72E-15	9.64E-15	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266685	BALL FIELDS	06/06/23	Gross Alpha/Beta	Gross Beta	3.84E-14	1.51E-14	1.86E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP266686	BALL FIELDS	06/07/23	Gross Alpha/Beta	Gross Alpha	1.83E-14	1.06E-14	9.92E-15	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266686	BALL FIELDS	06/07/23	Gross Alpha/Beta	Gross Beta	4.75E-14	1.65E-14	1.91E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP266687	BALL FIELDS	06/07/23	Gross Alpha/Beta	Gross Alpha	7.77E-15	7.49E-15	9.92E-15	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266687	BALL FIELDS	06/07/23	Gross Alpha/Beta	Gross Beta	3.55E-14	1.51E-14	1.91E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP266688	BALL FIELDS	06/08/23	Gross Alpha/Beta	Gross Alpha	3.58E-15	6.08E-15	1.05E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266688	BALL FIELDS	06/08/23	Gross Alpha/Beta	Gross Beta	1.24E-14	1.34E-14	2.14E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266689	BALL FIELDS	06/08/23	Gross Alpha/Beta	Gross Alpha	2.07E-15	5.28E-15	1.05E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266689	BALL FIELDS	06/08/23	Gross Alpha/Beta	Gross Beta	1.06E-14	1.31E-14	2.14E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266691	BALL FIELDS	06/12/23	Gross Alpha/Beta	Gross Alpha	1.75E-15	4.47E-15	8.91E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266691	BALL FIELDS	06/12/23	Gross Alpha/Beta	Gross Beta	2.37E-14	1.31E-14	1.81E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266692	BALL FIELDS	06/12/23	Gross Alpha/Beta	Gross Alpha	1.75E-15	4.47E-15	8.91E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266692	BALL FIELDS	06/12/23	Gross Alpha/Beta	Gross Beta	6.61E-15	1.08E-14	1.81E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266694	BALL FIELDS	06/13/23	Gross Alpha/Beta	Gross Alpha	6.86E-15	6.80E-15	8.91E-15	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266694	BALL FIELDS	06/13/23	Gross Alpha/Beta	Gross Beta	1.75E-14	1.23E-14	1.81E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266695	BALL FIELDS	06/13/23	Gross Alpha/Beta	Gross Alpha	1.75E-15	4.47E-15	8.91E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266695	BALL FIELDS	06/13/23	Gross Alpha/Beta	Gross Beta	3.23E-14	1.42E-14	1.81E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP266697	BALL FIELDS	06/14/23	Gross Alpha/Beta	Gross Alpha	8.13E-15	7.28E-15	8.91E-15	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266697	BALL FIELDS	06/14/23	Gross Alpha/Beta	Gross Beta	2.69E-14	1.35E-14	1.81E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266698	BALL FIELDS	06/14/23	Gross Alpha/Beta	Gross Alpha	3.03E-15	5.15E-15	8.91E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266698	BALL FIELDS	06/14/23	Gross Alpha/Beta	Gross Beta	2.14E-14	1.28E-14	1.81E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266700	BALL FIELDS	06/15/23	Gross Alpha/Beta	Gross Alpha	4.31E-15	5.75E-15	8.91E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266700	BALL FIELDS	06/15/23	Gross Alpha/Beta	Gross Beta	4.94E-14	1.62E-14	1.81E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP266701	BALL FIELDS	06/15/23	Gross Alpha/Beta	Gross Alpha	3.03E-15	5.15E-15	8.91E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266701	BALL FIELDS	06/15/23	Gross Alpha/Beta	Gross Beta	4.16E-14	1.53E-14	1.81E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP266702	BALL FIELDS	06/19/23	Gross Alpha/Beta	Gross Alpha	5.15E-15	6.29E-15	9.59E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266702	BALL FIELDS	06/19/23	Gross Alpha/Beta	Gross Beta	5.33E-14	1.84E-14	2.30E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP266703	BALL FIELDS	06/19/23	Gross Alpha/Beta	Gross Alpha	1.62E-15	4.78E-15	9.59E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266703	BALL FIELDS	06/19/23	Gross Alpha/Beta	Gross Beta	4.50E-14	1.76E-14	2.30E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP266706	BALL FIELDS	06/20/23	Gross Alpha/Beta	Gross Alpha	1.67E-15	4.92E-15	9.88E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266706	BALL FIELDS	06/20/23	Gross Alpha/Beta	Gross Beta	5.25E-14	1.87E-14	2.37E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP266707	BALL FIELDS	06/20/23	Gross Alpha/Beta	Gross Alpha	6.52E-15	6.92E-15	9.88E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266707	BALL FIELDS	06/20/23	Gross Alpha/Beta	Gross Beta	4.48E-14	1.80E-14	2.37E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP266710	BALL FIELDS	06/21/23	Gross Alpha/Beta	Gross Alpha	8.69E-15	7.52E-15	9.59E-15	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266710	BALL FIELDS	06/21/23	Gross Alpha/Beta	Gross Beta	3.75E-14	1.68E-14	2.30E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP266711	BALL FIELDS	06/21/23	Gross Alpha/Beta	Gross Alpha	8.69E-15	7.52E-15	9.59E-15	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air

Table C-4. SLAPS Perimeter Air Data Results for CY 2023 (Continued)

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
SVP266711	BALL FIELDS	06/21/23	Gross Alpha/Beta	Gross Beta	1.96E-14	1.50E-14	2.30E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266717	BALL FIELDS	06/22/23	Gross Alpha/Beta	Gross Alpha	1.85E-14	1.30E-14	1.32E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266717	BALL FIELDS	06/22/23	Gross Alpha/Beta	Gross Beta	6.77E-14	2.35E-14	2.67E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP266718	BALL FIELDS	06/22/23	Gross Alpha/Beta	Gross Alpha	1.85E-14	1.30E-14	1.32E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266718	BALL FIELDS	06/22/23	Gross Alpha/Beta	Gross Beta	3.81E-14	1.98E-14	2.67E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266722	BALL FIELDS	06/26/23	Gross Alpha/Beta	Gross Alpha	5.39E-15	6.94E-15	1.05E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266722	BALL FIELDS	06/26/23	Gross Alpha/Beta	Gross Beta	2.74E-14	1.53E-14	2.11E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266723	BALL FIELDS	06/26/23	Gross Alpha/Beta	Gross Alpha	2.39E-14	1.29E-14	1.05E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266723	BALL FIELDS	06/26/23	Gross Alpha/Beta	Gross Beta	3.78E-14	1.67E-14	2.11E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP266726	BALL FIELDS	06/27/23	Gross Alpha/Beta	Gross Alpha	8.29E-15	7.27E-15	8.70E-15	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266726	BALL FIELDS	06/27/23	Gross Alpha/Beta	Gross Beta	2.74E-14	1.33E-14	1.75E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP266727	BALL FIELDS	06/27/23	Gross Alpha/Beta	Gross Alpha	1.72E-14	9.99E-15	8.70E-15	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266727	BALL FIELDS	06/27/23	Gross Alpha/Beta	Gross Beta	1.81E-14	1.21E-14	1.75E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266732	BALL FIELDS	06/28/23	Gross Alpha/Beta	Gross Alpha	1.72E-14	9.99E-15	8.70E-15	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266732	BALL FIELDS	06/28/23	Gross Alpha/Beta	Gross Beta	2.90E-14	1.35E-14	1.75E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP266733	BALL FIELDS	06/28/23	Gross Alpha/Beta	Gross Alpha	2.36E-14	1.16E-14	8.70E-15	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP266733	BALL FIELDS	06/28/23	Gross Alpha/Beta	Gross Beta	3.05E-14	1.37E-14	1.75E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP266737	BALL FIELDS	06/29/23	Gross Alpha/Beta	Gross Alpha	3.49E-15	5.48E-15	9.21E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266737	BALL FIELDS	06/29/23	Gross Alpha/Beta	Gross Beta	2.03E-14	1.52E-14	2.34E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266738	BALL FIELDS	06/29/23	Gross Alpha/Beta	Gross Alpha	2.27E-15	4.91E-15	9.21E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266738	BALL FIELDS	06/29/23	Gross Alpha/Beta	Gross Beta	1.95E-14	1.52E-14	2.34E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266741	BALL FIELDS	07/03/23	Gross Alpha/Beta	Gross Alpha	1.32E-15	5.30E-15	1.15E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266741	BALL FIELDS	07/03/23	Gross Alpha/Beta	Gross Beta	3.49E-14	2.00E-14	2.91E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266742	BALL FIELDS	07/03/23	Gross Alpha/Beta	Gross Alpha	4.34E-15	6.81E-15	1.15E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266742	BALL FIELDS	07/03/23	Gross Alpha/Beta	Gross Beta	3.77E-14	2.03E-14	2.91E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266745	BALL FIELDS	07/05/23	Gross Alpha/Beta	Gross Alpha	1.02E-15	4.10E-15	8.87E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266745	BALL FIELDS	07/05/23	Gross Alpha/Beta	Gross Beta	2.55E-14	1.53E-14	2.25E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266746	BALL FIELDS	07/05/23	Gross Alpha/Beta	Gross Alpha	1.27E-14	8.50E-15	8.87E-15	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266746	BALL FIELDS	07/05/23	Gross Alpha/Beta	Gross Beta	3.51E-14	1.63E-14	2.25E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP266749	BALL FIELDS	07/06/23	Gross Alpha/Beta	Gross Alpha	2.45E-16	4.16E-15	9.79E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266749	BALL FIELDS	07/06/23	Gross Alpha/Beta	Gross Beta	3.01E-14	1.58E-14	2.24E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266750	BALL FIELDS	07/06/23	Gross Alpha/Beta	Gross Alpha	4.96E-15	6.29E-15	9.79E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266750	BALL FIELDS	07/06/23	Gross Alpha/Beta	Gross Beta	8.42E-15	1.34E-14	2.24E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266753	BALL FIELDS	07/10/23	Gross Alpha/Beta	Gross Alpha	5.10E-15	6.48E-15	1.01E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266753	BALL FIELDS	07/10/23	Gross Alpha/Beta	Gross Beta	4.02E-14	1.72E-14	2.31E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP266754	BALL FIELDS	07/10/23	Gross Alpha/Beta	Gross Alpha	8.74E-15	7.74E-15	1.01E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266754	BALL FIELDS	07/10/23	Gross Alpha/Beta	Gross Beta	3.49E-14	1.66E-14	2.31E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP266757	BALL FIELDS	07/11/23	Gross Alpha/Beta	Gross Alpha	2.45E-16	4.16E-15	9.79E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266757	BALL FIELDS	07/11/23	Gross Alpha/Beta	Gross Beta	3.76E-14	1.66E-14	2.24E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air

Table C-4. SLAPS Perimeter Air Data Results for CY 2023 (Continued)

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
SVP266758	BALL FIELDS	07/11/23	Gross Alpha/Beta	Gross Alpha	6.13E-15	6.73E-15	9.79E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266758	BALL FIELDS	07/11/23	Gross Alpha/Beta	Gross Beta	1.67E-14	1.43E-14	2.24E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266761	BALL FIELDS	07/12/23	Gross Alpha/Beta	Gross Alpha	3.78E-15	5.83E-15	9.79E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266761	BALL FIELDS	07/12/23	Gross Alpha/Beta	Gross Beta	2.19E-14	1.49E-14	2.24E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266762	BALL FIELDS	07/12/23	Gross Alpha/Beta	Gross Alpha	2.60E-15	5.33E-15	9.79E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266762	BALL FIELDS	07/12/23	Gross Alpha/Beta	Gross Beta	3.24E-14	1.60E-14	2.24E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP266765	BALL FIELDS	07/13/23	Gross Alpha/Beta	Gross Alpha	5.42E-15	6.30E-15	9.12E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266765	BALL FIELDS	07/13/23	Gross Alpha/Beta	Gross Beta	2.02E-14	1.24E-14	1.76E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266766	BALL FIELDS	07/13/23	Gross Alpha/Beta	Gross Alpha	5.42E-15	6.30E-15	9.12E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266766	BALL FIELDS	07/13/23	Gross Alpha/Beta	Gross Beta	2.57E-14	1.31E-14	1.76E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266771	BALL FIELDS	07/17/23	Gross Alpha/Beta	Gross Alpha	2.87E-15	5.16E-15	9.12E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266771	BALL FIELDS	07/17/23	Gross Alpha/Beta	Gross Beta	3.11E-14	1.38E-14	1.76E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP266772	BALL FIELDS	07/17/23	Gross Alpha/Beta	Gross Alpha	1.60E-15	4.48E-15	9.12E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266772	BALL FIELDS	07/17/23	Gross Alpha/Beta	Gross Beta	2.10E-14	1.25E-14	1.76E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266775	BALL FIELDS	07/18/23	Gross Alpha/Beta	Gross Alpha	5.27E-15	6.13E-15	8.87E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266775	BALL FIELDS	07/18/23	Gross Alpha/Beta	Gross Beta	4.08E-14	1.47E-14	1.71E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP266776	BALL FIELDS	07/18/23	Gross Alpha/Beta	Gross Alpha	4.03E-15	5.60E-15	8.87E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266776	BALL FIELDS	07/18/23	Gross Alpha/Beta	Gross Beta	2.34E-14	1.26E-14	1.71E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266777	BALL FIELDS	07/19/23	Gross Alpha/Beta	Gross Alpha	5.27E-15	6.13E-15	8.87E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266777	BALL FIELDS	07/19/23	Gross Alpha/Beta	Gross Beta	2.49E-14	1.28E-14	1.71E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266778	BALL FIELDS	07/19/23	Gross Alpha/Beta	Gross Alpha	-9.30E-16	2.57E-15	8.87E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266778	BALL FIELDS	07/19/23	Gross Alpha/Beta	Gross Beta	2.80E-14	1.31E-14	1.71E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP266783	BALL FIELDS	07/20/23	Gross Alpha/Beta	Gross Alpha	8.34E-16	5.87E-15	1.23E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266783	BALL FIELDS	07/20/23	Gross Alpha/Beta	Gross Beta	-5.77E-15	1.21E-14	2.30E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266784	BALL FIELDS	07/20/23	Gross Alpha/Beta	Gross Alpha	2.01E-15	6.33E-15	1.23E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266784	BALL FIELDS	07/20/23	Gross Alpha/Beta	Gross Beta	2.12E-14	1.51E-14	2.30E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266785	BALL FIELDS	07/24/23	Gross Alpha/Beta	Gross Alpha	1.14E-14	9.23E-15	1.23E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266785	BALL FIELDS	07/24/23	Gross Alpha/Beta	Gross Beta	3.69E-14	1.68E-14	2.30E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP266786	BALL FIELDS	07/24/23	Gross Alpha/Beta	Gross Alpha	-3.43E-16	5.38E-15	1.23E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266786	BALL FIELDS	07/24/23	Gross Alpha/Beta	Gross Beta	1.14E-14	1.41E-14	2.30E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266793	BALL FIELDS	07/25/23	Gross Alpha/Beta	Gross Alpha	8.34E-16	5.87E-15	1.23E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266793	BALL FIELDS	07/25/23	Gross Alpha/Beta	Gross Beta	4.06E-14	1.71E-14	2.30E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP266794	BALL FIELDS	07/25/23	Gross Alpha/Beta	Gross Alpha	1.14E-14	9.23E-15	1.23E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266794	BALL FIELDS	07/25/23	Gross Alpha/Beta	Gross Beta	3.16E-14	1.62E-14	2.30E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266797	BALL FIELDS	07/26/23	Gross Alpha/Beta	Gross Alpha	3.49E-15	7.39E-15	1.34E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266797	BALL FIELDS	07/26/23	Gross Alpha/Beta	Gross Beta	1.66E-14	1.58E-14	2.52E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266798	BALL FIELDS	07/26/23	Gross Alpha/Beta	Gross Alpha	2.20E-15	6.92E-15	1.34E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266798	BALL FIELDS	07/26/23	Gross Alpha/Beta	Gross Beta	3.87E-14	1.82E-14	2.52E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP266804	BALL FIELDS	07/27/23	Gross Alpha/Beta	Gross Alpha	4.76E-15	6.30E-15	9.99E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266804	BALL FIELDS	07/27/23	Gross Alpha/Beta	Gross Beta	2.14E-14	1.52E-14	2.31E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air

Table C-4. SLAPS Perimeter Air Data Results for CY 2023 (Continued)

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
SVP266805	BALL FIELDS	07/27/23	Gross Alpha/Beta	Gross Alpha	3.58E-15	5.83E-15	9.99E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266805	BALL FIELDS	07/27/23	Gross Alpha/Beta	Gross Beta	2.66E-14	1.58E-14	2.31E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266809	BALL FIELDS	07/31/23	Gross Alpha/Beta	Gross Alpha	2.50E-15	5.55E-15	1.04E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266809	BALL FIELDS	07/31/23	Gross Alpha/Beta	Gross Beta	1.83E-14	1.54E-14	2.40E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266810	BALL FIELDS	07/31/23	Gross Alpha/Beta	Gross Alpha	3.72E-15	6.07E-15	1.04E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266810	BALL FIELDS	07/31/23	Gross Alpha/Beta	Gross Beta	3.93E-14	1.76E-14	2.40E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP266818	BALL FIELDS	08/01/23	Gross Alpha/Beta	Gross Alpha	1.19E-15	4.65E-15	9.71E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266818	BALL FIELDS	08/01/23	Gross Alpha/Beta	Gross Beta	1.28E-14	1.39E-14	2.25E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266819	BALL FIELDS	08/01/23	Gross Alpha/Beta	Gross Alpha	1.19E-15	4.65E-15	9.71E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266819	BALL FIELDS	08/01/23	Gross Alpha/Beta	Gross Beta	4.48E-14	1.72E-14	2.25E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP266825	BALL FIELDS	08/03/23	Gross Alpha/Beta	Gross Alpha	3.69E-16	3.64E-15	8.97E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266825	BALL FIELDS	08/03/23	Gross Alpha/Beta	Gross Beta	1.56E-14	1.18E-14	1.76E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266826	BALL FIELDS	08/03/23	Gross Alpha/Beta	Gross Alpha	2.90E-15	5.11E-15	8.97E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266826	BALL FIELDS	08/03/23	Gross Alpha/Beta	Gross Beta	2.71E-14	1.33E-14	1.76E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP266832	BALL FIELDS	08/07/23	Gross Alpha/Beta	Gross Alpha	1.65E-15	4.47E-15	9.05E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266832	BALL FIELDS	08/07/23	Gross Alpha/Beta	Gross Beta	1.65E-14	1.20E-14	1.78E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266833	BALL FIELDS	08/07/23	Gross Alpha/Beta	Gross Alpha	5.48E-15	6.30E-15	9.05E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266833	BALL FIELDS	08/07/23	Gross Alpha/Beta	Gross Beta	1.41E-14	1.16E-14	1.78E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266839	BALL FIELDS	08/08/23	Gross Alpha/Beta	Gross Alpha	3.62E-16	3.57E-15	8.80E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266839	BALL FIELDS	08/08/23	Gross Alpha/Beta	Gross Beta	2.36E-14	1.27E-14	1.73E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266840	BALL FIELDS	08/08/23	Gross Alpha/Beta	Gross Alpha	9.05E-15	7.50E-15	8.80E-15	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266840	BALL FIELDS	08/08/23	Gross Alpha/Beta	Gross Beta	3.49E-14	1.41E-14	1.73E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP266844	BALL FIELDS	08/09/23	Gross Alpha/Beta	Gross Alpha	1.09E-15	1.07E-14	2.64E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266844	BALL FIELDS	08/09/23	Gross Alpha/Beta	Gross Beta	3.22E-14	3.27E-14	5.18E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266845	BALL FIELDS	08/09/23	Gross Alpha/Beta	Gross Alpha	-6.36E-15	2.04E-15	2.64E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266845	BALL FIELDS	08/09/23	Gross Alpha/Beta	Gross Beta	2.99E-14	3.23E-14	5.18E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266850	BALL FIELDS	08/10/23	Gross Alpha/Beta	Gross Alpha	7.60E-15	7.08E-15	9.06E-15	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266850	BALL FIELDS	08/10/23	Gross Alpha/Beta	Gross Beta	2.61E-14	1.31E-14	1.76E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266851	BALL FIELDS	08/10/23	Gross Alpha/Beta	Gross Alpha	-2.33E-15	7.16E-16	9.06E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266851	BALL FIELDS	08/10/23	Gross Alpha/Beta	Gross Beta	7.94E-15	1.07E-14	1.76E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266856	BALL FIELDS	08/14/23	Gross Alpha/Beta	Gross Alpha	1.59E-16	3.68E-15	9.32E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266856	BALL FIELDS	08/14/23	Gross Alpha/Beta	Gross Beta	9.73E-15	1.12E-14	1.81E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266857	BALL FIELDS	08/14/23	Gross Alpha/Beta	Gross Alpha	1.44E-15	4.48E-15	9.32E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266857	BALL FIELDS	08/14/23	Gross Alpha/Beta	Gross Beta	1.75E-14	1.23E-14	1.81E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266862	BALL FIELDS	08/15/23	Gross Alpha/Beta	Gross Alpha	-1.09E-15	2.58E-15	9.06E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266862	BALL FIELDS	08/15/23	Gross Alpha/Beta	Gross Beta	1.85E-14	1.22E-14	1.76E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266863	BALL FIELDS	08/15/23	Gross Alpha/Beta	Gross Alpha	1.40E-15	4.35E-15	9.06E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266863	BALL FIELDS	08/15/23	Gross Alpha/Beta	Gross Beta	1.25E-14	1.13E-14	1.76E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266868	BALL FIELDS	08/16/23	Gross Alpha/Beta	Gross Alpha	1.41E-15	4.40E-15	9.15E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266868	BALL FIELDS	08/16/23	Gross Alpha/Beta	Gross Beta	1.80E-14	1.22E-14	1.78E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air

Table C-4. SLAPS Perimeter Air Data Results for CY 2023 (Continued)

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
SVP266869	BALL FIELDS	08/16/23	Gross Alpha/Beta	Gross Alpha	3.91E-15	5.65E-15	9.15E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266869	BALL FIELDS	08/16/23	Gross Alpha/Beta	Gross Beta	2.33E-14	1.29E-14	1.78E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266874	BALL FIELDS	08/17/23	Gross Alpha/Beta	Gross Alpha	6.29E-15	6.44E-15	8.69E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266874	BALL FIELDS	08/17/23	Gross Alpha/Beta	Gross Beta	1.47E-14	1.11E-14	1.66E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266875	BALL FIELDS	08/17/23	Gross Alpha/Beta	Gross Alpha	5.08E-15	5.96E-15	8.69E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266875	BALL FIELDS	08/17/23	Gross Alpha/Beta	Gross Beta	1.98E-14	1.18E-14	1.66E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266880	BALL FIELDS	08/21/23	Gross Alpha/Beta	Gross Alpha	5.37E-15	6.30E-15	9.19E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266880	BALL FIELDS	08/21/23	Gross Alpha/Beta	Gross Beta	6.69E-14	1.80E-14	1.76E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP266881	BALL FIELDS	08/21/23	Gross Alpha/Beta	Gross Alpha	2.82E-15	5.16E-15	9.19E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266881	BALL FIELDS	08/21/23	Gross Alpha/Beta	Gross Beta	6.77E-14	1.80E-14	1.76E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP266885	BALL FIELDS	08/22/23	Gross Alpha/Beta	Gross Alpha	4.48E-15	6.30E-15	1.01E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266885	BALL FIELDS	08/22/23	Gross Alpha/Beta	Gross Beta	5.61E-14	1.78E-14	1.92E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP266886	BALL FIELDS	08/22/23	Gross Alpha/Beta	Gross Alpha	-2.50E-15	7.86E-16	1.01E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP266886	BALL FIELDS	08/22/23	Gross Alpha/Beta	Gross Beta	5.19E-14	1.73E-14	1.92E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP269231	BALL FIELDS	08/23/23	Gross Alpha/Beta	Gross Alpha	7.63E-15	7.01E-15	8.85E-15	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269231	BALL FIELDS	08/23/23	Gross Alpha/Beta	Gross Beta	6.29E-14	1.71E-14	1.69E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP269232	BALL FIELDS	08/23/23	Gross Alpha/Beta	Gross Alpha	2.71E-15	4.97E-15	8.85E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269232	BALL FIELDS	08/23/23	Gross Alpha/Beta	Gross Beta	7.27E-14	1.82E-14	1.69E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP269236	BALL FIELDS	08/24/23	Gross Alpha/Beta	Gross Alpha	3.70E-15	6.02E-15	1.03E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269236	BALL FIELDS	08/24/23	Gross Alpha/Beta	Gross Beta	6.84E-14	1.91E-14	2.16E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP269237	BALL FIELDS	08/24/23	Gross Alpha/Beta	Gross Alpha	1.16E-14	8.50E-15	1.03E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269237	BALL FIELDS	08/24/23	Gross Alpha/Beta	Gross Beta	6.98E-14	1.92E-14	2.16E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP269241	BALL FIELDS	08/28/23	Gross Alpha/Beta	Gross Alpha	3.34E-16	4.67E-15	1.05E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269241	BALL FIELDS	08/28/23	Gross Alpha/Beta	Gross Beta	2.82E-14	1.53E-14	2.20E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269242	BALL FIELDS	08/28/23	Gross Alpha/Beta	Gross Alpha	2.62E-15	5.68E-15	1.05E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269242	BALL FIELDS	08/28/23	Gross Alpha/Beta	Gross Beta	2.38E-14	1.49E-14	2.20E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269246	BALL FIELDS	08/29/23	Gross Alpha/Beta	Gross Alpha	6.17E-15	7.07E-15	1.07E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269246	BALL FIELDS	08/29/23	Gross Alpha/Beta	Gross Beta	2.80E-14	1.55E-14	2.24E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269247	BALL FIELDS	08/29/23	Gross Alpha/Beta	Gross Alpha	3.84E-15	6.25E-15	1.07E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269247	BALL FIELDS	08/29/23	Gross Alpha/Beta	Gross Beta	3.39E-14	1.62E-14	2.24E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP269252	BALL FIELDS	08/30/23	Gross Alpha/Beta	Gross Alpha	-9.95E-16	4.99E-15	1.29E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269252	BALL FIELDS	08/30/23	Gross Alpha/Beta	Gross Beta	3.28E-14	1.86E-14	2.70E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269253	BALL FIELDS	08/30/23	Gross Alpha/Beta	Gross Alpha	-2.40E-15	4.13E-15	1.29E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269253	BALL FIELDS	08/30/23	Gross Alpha/Beta	Gross Beta	2.66E-14	1.80E-14	2.70E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269258	BALL FIELDS	08/31/23	Gross Alpha/Beta	Gross Alpha	1.74E-14	1.23E-14	1.43E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269258	BALL FIELDS	08/31/23	Gross Alpha/Beta	Gross Beta	2.18E-14	2.02E-14	3.20E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269259	BALL FIELDS	08/31/23	Gross Alpha/Beta	Gross Alpha	9.29E-15	9.86E-15	1.43E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269259	BALL FIELDS	08/31/23	Gross Alpha/Beta	Gross Beta	2.60E-14	2.07E-14	3.20E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269264	BALL FIELDS	09/05/23	Gross Alpha/Beta	Gross Alpha	-2.05E-15	4.64E-15	1.40E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269264	BALL FIELDS	09/05/23	Gross Alpha/Beta	Gross Beta	3.24E-14	2.09E-14	3.12E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air

Table C-4. SLAPS Perimeter Air Data Results for CY 2023 (Continued)

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
SVP269269	BALL FIELDS	09/06/23	Gross Alpha/Beta	Gross Alpha	3.28E-15	6.01E-15	1.07E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269269	BALL FIELDS	09/06/23	Gross Alpha/Beta	Gross Beta	7.80E-15	1.41E-14	2.39E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269271	BALL FIELDS	09/07/23	Gross Alpha/Beta	Gross Alpha	4.14E-15	6.00E-15	9.82E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269271	BALL FIELDS	09/07/23	Gross Alpha/Beta	Gross Beta	9.88E-15	1.44E-14	2.39E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269281	BALL FIELDS	09/11/23	Gross Alpha/Beta	Gross Alpha	7.78E-15	7.34E-15	9.82E-15	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269281	BALL FIELDS	09/11/23	Gross Alpha/Beta	Gross Beta	1.07E-14	1.45E-14	2.39E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269285	BALL FIELDS	09/12/23	Gross Alpha/Beta	Gross Alpha	8.99E-15	7.73E-15	9.82E-15	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269285	BALL FIELDS	09/12/23	Gross Alpha/Beta	Gross Beta	1.91E-14	1.54E-14	2.39E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269286	BALL FIELDS	09/13/23	Gross Alpha/Beta	Gross Alpha	7.78E-15	7.34E-15	9.82E-15	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269286	BALL FIELDS	09/13/23	Gross Alpha/Beta	Gross Beta	6.84E-14	2.03E-14	2.39E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP269290	BALL FIELDS	09/14/23	Gross Alpha/Beta	Gross Alpha	6.85E-16	4.45E-15	1.01E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269290	BALL FIELDS	09/14/23	Gross Alpha/Beta	Gross Beta	2.98E-14	1.37E-14	1.77E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP269294	BALL FIELDS	09/14/23	Gross Alpha/Beta	Gross Alpha	6.15E-15	7.23E-15	1.08E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269294	BALL FIELDS	09/14/23	Gross Alpha/Beta	Gross Beta	3.85E-14	1.55E-14	1.89E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP269295	BALL FIELDS	09/18/23	Gross Alpha/Beta	Gross Alpha	4.65E-15	6.50E-15	1.05E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269295	BALL FIELDS	09/18/23	Gross Alpha/Beta	Gross Beta	1.74E-14	1.24E-14	1.84E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269296	BALL FIELDS	09/18/23	Gross Alpha/Beta	Gross Alpha	7.11E-16	4.63E-15	1.05E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269296	BALL FIELDS	09/18/23	Gross Alpha/Beta	Gross Beta	3.90E-14	1.52E-14	1.84E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP269303	BALL FIELDS	09/19/23	Gross Alpha/Beta	Gross Alpha	1.93E-15	5.07E-15	9.98E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269303	BALL FIELDS	09/19/23	Gross Alpha/Beta	Gross Beta	4.25E-14	1.51E-14	1.75E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP269304	BALL FIELDS	09/19/23	Gross Alpha/Beta	Gross Alpha	1.93E-15	5.07E-15	9.98E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269304	BALL FIELDS	09/19/23	Gross Alpha/Beta	Gross Beta	1.96E-14	1.23E-14	1.75E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269305	BALL FIELDS	09/20/23	Gross Alpha/Beta	Gross Alpha	5.29E-15	6.22E-15	9.29E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269305	BALL FIELDS	09/20/23	Gross Alpha/Beta	Gross Beta	3.67E-14	1.37E-14	1.63E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP269306	BALL FIELDS	09/20/23	Gross Alpha/Beta	Gross Alpha	4.13E-15	5.76E-15	9.29E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269306	BALL FIELDS	09/20/23	Gross Alpha/Beta	Gross Beta	5.23E-14	1.55E-14	1.63E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP269312	BALL FIELDS	09/21/23	Gross Alpha/Beta	Gross Alpha	8.27E-15	7.65E-15	9.72E-15	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269312	BALL FIELDS	09/21/23	Gross Alpha/Beta	Gross Beta	7.85E-14	2.26E-14	2.60E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP269313	BALL FIELDS	09/21/23	Gross Alpha/Beta	Gross Alpha	4.25E-15	6.05E-15	9.72E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269313	BALL FIELDS	09/21/23	Gross Alpha/Beta	Gross Beta	7.08E-14	2.18E-14	2.60E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP269316	BALL FIELDS	09/25/23	Gross Alpha/Beta	Gross Alpha	8.36E-15	7.73E-15	9.83E-15	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269316	BALL FIELDS	09/25/23	Gross Alpha/Beta	Gross Beta	5.79E-14	2.07E-14	2.63E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP269317	BALL FIELDS	09/25/23	Gross Alpha/Beta	Gross Alpha	8.36E-15	7.73E-15	9.83E-15	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269317	BALL FIELDS	09/25/23	Gross Alpha/Beta	Gross Beta	6.56E-14	2.15E-14	2.63E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP269318	BALL FIELDS	09/26/23	Gross Alpha/Beta	Gross Alpha	4.44E-15	6.33E-15	1.02E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269318	BALL FIELDS	09/26/23	Gross Alpha/Beta	Gross Beta	5.28E-14	2.08E-14	2.72E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP269319	BALL FIELDS	09/26/23	Gross Alpha/Beta	Gross Alpha	1.15E-14	8.95E-15	1.02E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269319	BALL FIELDS	09/26/23	Gross Alpha/Beta	Gross Beta	4.83E-14	2.03E-14	2.72E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP269322	BALL FIELDS	09/27/23	Gross Alpha/Beta	Gross Alpha	3.75E-15	5.34E-15	8.58E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air

Table C-4. SLAPS Perimeter Air Data Results for CY 2023 (Continued)

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
SVP269322	BALL FIELDS	09/27/23	Gross Alpha/Beta	Gross Beta	3.25E-14	1.63E-14	2.29E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269327	BALL FIELDS	10/02/23	Gross Alpha/Beta	Gross Alpha	9.85E-15	8.12E-15	1.02E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269327	BALL FIELDS	10/02/23	Gross Alpha/Beta	Gross Beta	5.83E-14	1.93E-14	2.38E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP269328	BALL FIELDS	10/02/23	Gross Alpha/Beta	Gross Alpha	1.36E-15	4.92E-15	1.02E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269328	BALL FIELDS	10/02/23	Gross Alpha/Beta	Gross Beta	-4.91E-15	1.26E-14	2.38E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269331	BALL FIELDS	10/03/23	Gross Alpha/Beta	Gross Alpha	1.43E-14	9.22E-15	9.89E-15	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269331	BALL FIELDS	10/03/23	Gross Alpha/Beta	Gross Beta	4.99E-14	1.81E-14	2.31E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP269332	BALL FIELDS	10/03/23	Gross Alpha/Beta	Gross Alpha	2.50E-15	5.33E-15	9.89E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269332	BALL FIELDS	10/03/23	Gross Alpha/Beta	Gross Beta	1.32E-14	1.43E-14	2.31E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269335	BALL FIELDS	10/04/23	Gross Alpha/Beta	Gross Alpha	1.08E-14	8.24E-15	9.89E-15	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269335	BALL FIELDS	10/04/23	Gross Alpha/Beta	Gross Beta	1.32E-14	1.43E-14	2.31E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269336	BALL FIELDS	10/04/23	Gross Alpha/Beta	Gross Alpha	6.04E-15	6.73E-15	9.89E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269336	BALL FIELDS	10/04/23	Gross Alpha/Beta	Gross Beta	5.88E-14	1.90E-14	2.31E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP269339	BALL FIELDS	10/09/23	Gross Alpha/Beta	Gross Alpha	4.78E-16	4.50E-15	1.04E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269339	BALL FIELDS	10/09/23	Gross Alpha/Beta	Gross Beta	1.92E-14	1.27E-14	1.85E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269340	BALL FIELDS	10/09/23	Gross Alpha/Beta	Gross Alpha	4.78E-16	4.50E-15	1.04E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269340	BALL FIELDS	10/09/23	Gross Alpha/Beta	Gross Beta	1.22E-14	1.18E-14	1.85E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269343	BALL FIELDS	10/10/23	Gross Alpha/Beta	Gross Alpha	4.78E-16	4.50E-15	1.04E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269343	BALL FIELDS	10/10/23	Gross Alpha/Beta	Gross Beta	1.30E-14	1.19E-14	1.85E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269344	BALL FIELDS	10/10/23	Gross Alpha/Beta	Gross Alpha	1.75E-15	5.18E-15	1.04E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269344	BALL FIELDS	10/10/23	Gross Alpha/Beta	Gross Beta	9.86E-15	1.14E-14	1.85E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269350	BALL FIELDS	10/11/23	Gross Alpha/Beta	Gross Alpha	-2.13E-15	2.77E-15	1.07E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269350	BALL FIELDS	10/11/23	Gross Alpha/Beta	Gross Beta	3.66E-14	1.52E-14	1.90E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP269351	BALL FIELDS	10/11/23	Gross Alpha/Beta	Gross Alpha	1.81E-15	5.33E-15	1.07E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269351	BALL FIELDS	10/11/23	Gross Alpha/Beta	Gross Beta	2.54E-14	1.38E-14	1.90E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269355	BALL FIELDS	10/12/23	Gross Alpha/Beta	Gross Alpha	1.01E-15	4.04E-15	8.74E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269355	BALL FIELDS	10/12/23	Gross Alpha/Beta	Gross Beta	4.21E-14	1.69E-14	2.23E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP269356	BALL FIELDS	10/12/23	Gross Alpha/Beta	Gross Alpha	2.16E-15	4.65E-15	8.74E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269356	BALL FIELDS	10/12/23	Gross Alpha/Beta	Gross Beta	3.49E-14	1.62E-14	2.23E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP269357	BALL FIELDS	10/16/23	Gross Alpha/Beta	Gross Alpha	1.01E-15	4.04E-15	8.74E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269357	BALL FIELDS	10/16/23	Gross Alpha/Beta	Gross Beta	2.10E-14	1.47E-14	2.23E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269358	BALL FIELDS	10/16/23	Gross Alpha/Beta	Gross Alpha	3.30E-15	5.19E-15	8.74E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269358	BALL FIELDS	10/16/23	Gross Alpha/Beta	Gross Beta	2.25E-14	1.49E-14	2.23E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269364	BALL FIELDS	10/17/23	Gross Alpha/Beta	Gross Alpha	8.13E-15	7.16E-15	8.99E-15	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269364	BALL FIELDS	10/17/23	Gross Alpha/Beta	Gross Beta	2.69E-14	1.57E-14	2.30E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269365	BALL FIELDS	10/17/23	Gross Alpha/Beta	Gross Alpha	1.17E-14	8.27E-15	8.99E-15	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269365	BALL FIELDS	10/17/23	Gross Alpha/Beta	Gross Beta	4.26E-14	1.74E-14	2.30E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP269371	BALL FIELDS	10/18/23	Gross Alpha/Beta	Gross Alpha	9.32E-15	7.55E-15	8.99E-15	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269371	BALL FIELDS	10/18/23	Gross Alpha/Beta	Gross Beta	5.54E-14	1.86E-14	2.30E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP269372	BALL FIELDS	10/18/23	Gross Alpha/Beta	Gross Alpha	1.29E-14	8.62E-15	8.99E-15	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air

Table C-4. SLAPS Perimeter Air Data Results for CY 2023 (Continued)

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
SVP269372	BALL FIELDS	10/18/23	Gross Alpha/Beta	Gross Beta	5.76E-14	1.88E-14	2.30E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP269375	BALL FIELDS	10/19/23	Gross Alpha/Beta	Gross Alpha	1.68E-15	8.33E-15	1.84E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269375	BALL FIELDS	10/19/23	Gross Alpha/Beta	Gross Beta	4.13E-14	3.00E-14	4.58E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269376	BALL FIELDS	10/19/23	Gross Alpha/Beta	Gross Alpha	8.77E-15	1.17E-14	1.84E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269376	BALL FIELDS	10/19/23	Gross Alpha/Beta	Gross Beta	3.83E-14	2.97E-14	4.58E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269387	BALL FIELDS	10/24/23	Gross Alpha/Beta	Gross Alpha	6.56E-15	6.56E-15	8.95E-15	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269387	BALL FIELDS	10/24/23	Gross Alpha/Beta	Gross Beta	6.82E-14	1.94E-14	2.22E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP269388	BALL FIELDS	10/24/23	Gross Alpha/Beta	Gross Alpha	8.86E-15	7.33E-15	8.95E-15	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269388	BALL FIELDS	10/24/23	Gross Alpha/Beta	Gross Beta	4.56E-14	1.72E-14	2.22E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP269391	BALL FIELDS	10/25/23	Gross Alpha/Beta	Gross Alpha	-3.78E-16	3.76E-15	1.01E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269391	BALL FIELDS	10/25/23	Gross Alpha/Beta	Gross Beta	2.35E-14	1.66E-14	2.51E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269392	BALL FIELDS	10/25/23	Gross Alpha/Beta	Gross Alpha	1.39E-14	9.45E-15	1.01E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269392	BALL FIELDS	10/25/23	Gross Alpha/Beta	Gross Beta	3.33E-14	1.76E-14	2.51E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269397	BALL FIELDS	10/26/23	Gross Alpha/Beta	Gross Alpha	2.76E-15	5.65E-15	1.04E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269397	BALL FIELDS	10/26/23	Gross Alpha/Beta	Gross Beta	2.62E-14	1.62E-14	2.40E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269398	BALL FIELDS	10/26/23	Gross Alpha/Beta	Gross Alpha	6.51E-15	7.13E-15	1.04E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269398	BALL FIELDS	10/26/23	Gross Alpha/Beta	Gross Beta	3.17E-14	1.68E-14	2.40E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269401	BALL FIELDS	10/30/23	Gross Alpha/Beta	Gross Alpha	3.78E-15	5.83E-15	9.79E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269401	BALL FIELDS	10/30/23	Gross Alpha/Beta	Gross Beta	3.29E-14	1.62E-14	2.26E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP269402	BALL FIELDS	10/30/23	Gross Alpha/Beta	Gross Alpha	4.96E-15	6.29E-15	9.79E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269402	BALL FIELDS	10/30/23	Gross Alpha/Beta	Gross Beta	4.71E-14	1.76E-14	2.26E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP269405	BALL FIELDS	10/31/23	Gross Alpha/Beta	Gross Alpha	2.68E-15	5.49E-15	1.01E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269405	BALL FIELDS	10/31/23	Gross Alpha/Beta	Gross Beta	3.24E-14	1.65E-14	2.33E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269406	BALL FIELDS	10/31/23	Gross Alpha/Beta	Gross Alpha	2.68E-15	5.49E-15	1.01E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269406	BALL FIELDS	10/31/23	Gross Alpha/Beta	Gross Beta	2.70E-14	1.59E-14	2.33E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269408	BALL FIELDS	11/01/23	Gross Alpha/Beta	Gross Alpha	2.68E-15	5.49E-15	1.01E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269408	BALL FIELDS	11/01/23	Gross Alpha/Beta	Gross Beta	3.54E-14	1.68E-14	2.33E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP269409	BALL FIELDS	11/01/23	Gross Alpha/Beta	Gross Alpha	5.10E-15	6.48E-15	1.01E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269409	BALL FIELDS	11/01/23	Gross Alpha/Beta	Gross Beta	2.70E-14	1.59E-14	2.33E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269413	BALL FIELDS	11/02/23	Gross Alpha/Beta	Gross Alpha	1.47E-15	4.92E-15	1.01E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269413	BALL FIELDS	11/02/23	Gross Alpha/Beta	Gross Beta	3.24E-14	1.65E-14	2.33E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269414	BALL FIELDS	11/02/23	Gross Alpha/Beta	Gross Alpha	1.12E-14	8.48E-15	1.01E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269414	BALL FIELDS	11/02/23	Gross Alpha/Beta	Gross Beta	2.85E-14	1.61E-14	2.33E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269416	BALL FIELDS	11/06/23	Gross Alpha/Beta	Gross Alpha	4.34E-15	6.00E-15	9.61E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269416	BALL FIELDS	11/06/23	Gross Alpha/Beta	Gross Beta	4.26E-14	1.75E-14	2.32E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP269417	BALL FIELDS	11/06/23	Gross Alpha/Beta	Gross Alpha	5.56E-15	6.47E-15	9.61E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269417	BALL FIELDS	11/06/23	Gross Alpha/Beta	Gross Beta	4.19E-14	1.74E-14	2.32E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP269419	BALL FIELDS	11/07/23	Gross Alpha/Beta	Gross Alpha	6.87E-16	4.15E-15	9.33E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269419	BALL FIELDS	11/07/23	Gross Alpha/Beta	Gross Beta	5.49E-14	1.84E-14	2.25E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP269420	BALL FIELDS	11/07/23	Gross Alpha/Beta	Gross Alpha	5.40E-15	6.29E-15	9.33E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air

Table C-4. SLAPS Perimeter Air Data Results for CY 2023 (Continued)

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
SVP269420	BALL FIELDS	11/07/23	Gross Alpha/Beta	Gross Beta	5.19E-14	1.81E-14	2.25E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP269422	BALL FIELDS	11/08/23	Gross Alpha/Beta	Gross Alpha	1.48E-14	9.22E-15	9.33E-15	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269422	BALL FIELDS	11/08/23	Gross Alpha/Beta	Gross Beta	3.99E-14	1.69E-14	2.25E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP269423	BALL FIELDS	11/08/23	Gross Alpha/Beta	Gross Alpha	6.58E-15	6.72E-15	9.33E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269423	BALL FIELDS	11/08/23	Gross Alpha/Beta	Gross Beta	4.66E-14	1.75E-14	2.25E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP269425	BALL FIELDS	11/09/23	Gross Alpha/Beta	Gross Alpha	3.30E-15	5.19E-15	8.74E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269425	BALL FIELDS	11/09/23	Gross Alpha/Beta	Gross Beta	2.61E-14	1.52E-14	2.22E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269426	BALL FIELDS	11/09/23	Gross Alpha/Beta	Gross Alpha	-2.44E-15	7.09E-16	8.74E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269426	BALL FIELDS	11/09/23	Gross Alpha/Beta	Gross Beta	1.23E-14	1.37E-14	2.22E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269427	BALL FIELDS	11/13/23	Gross Alpha/Beta	Gross Alpha	-1.48E-16	3.42E-15	8.99E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269427	BALL FIELDS	11/13/23	Gross Alpha/Beta	Gross Beta	2.77E-14	1.57E-14	2.28E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269428	BALL FIELDS	11/13/23	Gross Alpha/Beta	Gross Alpha	-1.48E-16	3.42E-15	8.99E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269428	BALL FIELDS	11/13/23	Gross Alpha/Beta	Gross Beta	2.92E-14	1.59E-14	2.28E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269429	BALL FIELDS	11/14/23	Gross Alpha/Beta	Gross Alpha	1.01E-15	4.04E-15	8.74E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269429	BALL FIELDS	11/14/23	Gross Alpha/Beta	Gross Beta	2.83E-14	1.54E-14	2.22E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269430	BALL FIELDS	11/14/23	Gross Alpha/Beta	Gross Alpha	9.05E-15	7.33E-15	8.74E-15	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269430	BALL FIELDS	11/14/23	Gross Alpha/Beta	Gross Beta	2.32E-14	1.49E-14	2.22E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269431	BALL FIELDS	11/15/23	Gross Alpha/Beta	Gross Alpha	4.45E-15	5.68E-15	8.74E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269431	BALL FIELDS	11/15/23	Gross Alpha/Beta	Gross Beta	4.51E-14	1.72E-14	2.22E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP269432	BALL FIELDS	11/15/23	Gross Alpha/Beta	Gross Alpha	9.05E-15	7.33E-15	8.74E-15	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269432	BALL FIELDS	11/15/23	Gross Alpha/Beta	Gross Beta	6.26E-14	1.89E-14	2.22E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP269433	BALL FIELDS	11/16/23	Gross Alpha/Beta	Gross Alpha	4.96E-15	6.74E-15	1.09E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269433	BALL FIELDS	11/16/23	Gross Alpha/Beta	Gross Beta	4.33E-14	1.76E-14	2.34E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP269434	BALL FIELDS	11/16/23	Gross Alpha/Beta	Gross Alpha	9.67E-15	8.25E-15	1.09E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269434	BALL FIELDS	11/16/23	Gross Alpha/Beta	Gross Beta	3.88E-14	1.71E-14	2.34E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP269435	BALL FIELDS	11/20/23	Gross Alpha/Beta	Gross Alpha	3.74E-15	6.25E-15	1.08E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269435	BALL FIELDS	11/20/23	Gross Alpha/Beta	Gross Beta	3.77E-14	1.69E-14	2.31E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP269436	BALL FIELDS	11/20/23	Gross Alpha/Beta	Gross Alpha	3.74E-15	6.25E-15	1.08E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269436	BALL FIELDS	11/20/23	Gross Alpha/Beta	Gross Beta	4.66E-14	1.78E-14	2.31E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP269437	BALL FIELDS	11/21/23	Gross Alpha/Beta	Gross Alpha	1.32E-14	9.22E-15	1.09E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269437	BALL FIELDS	11/21/23	Gross Alpha/Beta	Gross Beta	2.69E-14	1.59E-14	2.34E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269438	BALL FIELDS	11/21/23	Gross Alpha/Beta	Gross Alpha	6.13E-15	7.14E-15	1.09E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269438	BALL FIELDS	11/21/23	Gross Alpha/Beta	Gross Beta	1.94E-14	1.51E-14	2.34E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269439	BALL FIELDS	11/22/23	Gross Alpha/Beta	Gross Alpha	2.60E-15	5.85E-15	1.09E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269439	BALL FIELDS	11/22/23	Gross Alpha/Beta	Gross Beta	3.21E-14	1.64E-14	2.34E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269440	BALL FIELDS	11/22/23	Gross Alpha/Beta	Gross Alpha	1.42E-15	5.35E-15	1.09E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269440	BALL FIELDS	11/22/23	Gross Alpha/Beta	Gross Beta	1.19E-14	1.43E-14	2.34E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269441	BALL FIELDS	11/27/23	Gross Alpha/Beta	Gross Alpha	9.95E-15	8.49E-15	1.12E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269441	BALL FIELDS	11/27/23	Gross Alpha/Beta	Gross Beta	2.15E-14	1.57E-14	2.40E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269442	BALL FIELDS	11/27/23	Gross Alpha/Beta	Gross Alpha	3.89E-15	6.49E-15	1.12E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air

Table C-4. SLAPS Perimeter Air Data Results for CY 2023 (Continued)

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
SVP269442	BALL FIELDS	11/27/23	Gross Alpha/Beta	Gross Beta	4.00E-14	1.76E-14	2.40E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP269444	BALL FIELDS	11/28/23	Gross Alpha/Beta	Gross Alpha	1.08E-14	8.58E-15	1.09E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269444	BALL FIELDS	11/28/23	Gross Alpha/Beta	Gross Beta	2.54E-14	1.57E-14	2.34E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269445	BALL FIELDS	11/28/23	Gross Alpha/Beta	Gross Alpha	7.31E-15	7.53E-15	1.09E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269445	BALL FIELDS	11/28/23	Gross Alpha/Beta	Gross Beta	2.69E-14	1.59E-14	2.34E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269447	BALL FIELDS	11/29/23	Gross Alpha/Beta	Gross Alpha	2.45E-16	4.80E-15	1.09E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269447	BALL FIELDS	11/29/23	Gross Alpha/Beta	Gross Beta	2.46E-14	1.57E-14	2.34E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269448	BALL FIELDS	11/29/23	Gross Alpha/Beta	Gross Alpha	6.13E-15	7.14E-15	1.09E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269448	BALL FIELDS	11/29/23	Gross Alpha/Beta	Gross Beta	3.96E-14	1.72E-14	2.34E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP269450	BALL FIELDS	11/30/23	Gross Alpha/Beta	Gross Alpha	1.15E-14	9.87E-15	1.21E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269450	BALL FIELDS	11/30/23	Gross Alpha/Beta	Gross Beta	6.72E-14	2.46E-14	3.13E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP269452	BALL FIELDS	12/04/23	Gross Alpha/Beta	Gross Alpha	7.15E-15	6.75E-15	8.76E-15	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269452	BALL FIELDS	12/04/23	Gross Alpha/Beta	Gross Beta	4.87E-14	1.78E-14	2.27E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP269453	BALL FIELDS	12/04/23	Gross Alpha/Beta	Gross Alpha	9.51E-15	7.55E-15	8.76E-15	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269453	BALL FIELDS	12/04/23	Gross Alpha/Beta	Gross Beta	2.77E-14	1.57E-14	2.27E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269455	BALL FIELDS	12/05/23	Gross Alpha/Beta	Gross Alpha	-1.10E-15	2.39E-15	8.51E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269455	BALL FIELDS	12/05/23	Gross Alpha/Beta	Gross Beta	2.84E-14	1.54E-14	2.20E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269456	BALL FIELDS	12/05/23	Gross Alpha/Beta	Gross Alpha	-2.25E-15	6.78E-16	8.51E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269456	BALL FIELDS	12/05/23	Gross Alpha/Beta	Gross Beta	3.20E-14	1.58E-14	2.20E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP269459	BALL FIELDS	12/06/23	Gross Alpha/Beta	Gross Alpha	1.20E-15	4.04E-15	8.51E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269459	BALL FIELDS	12/06/23	Gross Alpha/Beta	Gross Beta	4.22E-14	1.68E-14	2.20E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP269460	BALL FIELDS	12/06/23	Gross Alpha/Beta	Gross Alpha	4.80E-17	3.32E-15	8.51E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269460	BALL FIELDS	12/06/23	Gross Alpha/Beta	Gross Beta	5.54E-14	1.81E-14	2.20E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP269463	BALL FIELDS	12/07/23	Gross Alpha/Beta	Gross Alpha	5.20E-15	6.29E-15	9.54E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269463	BALL FIELDS	12/07/23	Gross Alpha/Beta	Gross Beta	2.67E-14	1.57E-14	2.29E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269464	BALL FIELDS	12/07/23	Gross Alpha/Beta	Gross Alpha	5.20E-15	6.29E-15	9.54E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269464	BALL FIELDS	12/07/23	Gross Alpha/Beta	Gross Beta	3.42E-14	1.65E-14	2.29E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP269472	BALL FIELDS	12/11/23	Gross Alpha/Beta	Gross Alpha	5.20E-15	6.29E-15	9.54E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269472	BALL FIELDS	12/11/23	Gross Alpha/Beta	Gross Beta	7.26E-15	1.36E-14	2.29E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269473	BALL FIELDS	12/11/23	Gross Alpha/Beta	Gross Alpha	4.91E-16	4.15E-15	9.54E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269473	BALL FIELDS	12/11/23	Gross Alpha/Beta	Gross Beta	1.62E-14	1.46E-14	2.29E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269475	BALL FIELDS	12/12/23	Gross Alpha/Beta	Gross Alpha	2.85E-15	5.33E-15	9.54E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269475	BALL FIELDS	12/12/23	Gross Alpha/Beta	Gross Beta	3.64E-14	1.67E-14	2.29E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP269476	BALL FIELDS	12/12/23	Gross Alpha/Beta	Gross Alpha	-6.87E-16	3.42E-15	9.54E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP269476	BALL FIELDS	12/12/23	Gross Alpha/Beta	Gross Beta	9.51E-15	1.38E-14	2.29E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP272611	BALL FIELDS	12/13/23	Gross Alpha/Beta	Gross Alpha	5.20E-15	6.29E-15	9.54E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP272611	BALL FIELDS	12/13/23	Gross Alpha/Beta	Gross Beta	2.15E-14	1.51E-14	2.29E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP272612	BALL FIELDS	12/13/23	Gross Alpha/Beta	Gross Alpha	-6.87E-16	3.42E-15	9.54E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP272612	BALL FIELDS	12/13/23	Gross Alpha/Beta	Gross Beta	1.92E-14	1.49E-14	2.29E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP272615	BALL FIELDS	12/14/23	Gross Alpha/Beta	Gross Alpha	8.24E-15	7.52E-15	1.00E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air

Table C-4. SLAPS Perimeter Air Data Results for CY 2023 (Continued)

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
SVP272615	BALL FIELDS	12/14/23	Gross Alpha/Beta	Gross Beta	5.51E-14	1.87E-14	2.33E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP272616	BALL FIELDS	12/14/23	Gross Alpha/Beta	Gross Alpha	7.07E-15	7.14E-15	1.00E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP272616	BALL FIELDS	12/14/23	Gross Alpha/Beta	Gross Beta	4.16E-14	1.74E-14	2.33E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP272621	BALL FIELDS	12/18/23	Gross Alpha/Beta	Gross Alpha	8.49E-15	7.74E-15	1.03E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP272621	BALL FIELDS	12/18/23	Gross Alpha/Beta	Gross Beta	8.15E-15	1.42E-14	2.39E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP272622	BALL FIELDS	12/18/23	Gross Alpha/Beta	Gross Alpha	6.06E-15	6.93E-15	1.03E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP272622	BALL FIELDS	12/18/23	Gross Alpha/Beta	Gross Beta	8.92E-15	1.43E-14	2.39E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP272625	BALL FIELDS	12/19/23	Gross Alpha/Beta	Gross Alpha	-1.18E-15	3.43E-15	1.00E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP272625	BALL FIELDS	12/19/23	Gross Alpha/Beta	Gross Beta	2.51E-14	1.57E-14	2.33E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP272626	BALL FIELDS	12/19/23	Gross Alpha/Beta	Gross Alpha	5.89E-15	6.73E-15	1.00E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP272626	BALL FIELDS	12/19/23	Gross Alpha/Beta	Gross Beta	3.79E-14	1.70E-14	2.33E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP272629	BALL FIELDS	12/20/23	Gross Alpha/Beta	Gross Alpha	1.18E-15	4.78E-15	1.00E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP272629	BALL FIELDS	12/20/23	Gross Alpha/Beta	Gross Beta	3.71E-14	1.69E-14	2.33E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP272630	BALL FIELDS	12/20/23	Gross Alpha/Beta	Gross Alpha	2.36E-15	5.34E-15	1.00E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP272630	BALL FIELDS	12/20/23	Gross Alpha/Beta	Gross Beta	3.86E-14	1.71E-14	2.33E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP272635	BALL FIELDS	12/21/23	Gross Alpha/Beta	Gross Alpha	5.62E-15	7.51E-15	1.20E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP272635	BALL FIELDS	12/21/23	Gross Alpha/Beta	Gross Beta	3.27E-14	1.90E-14	2.78E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP272636	BALL FIELDS	12/21/23	Gross Alpha/Beta	Gross Alpha	8.43E-15	8.51E-15	1.20E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP272636	BALL FIELDS	12/21/23	Gross Alpha/Beta	Gross Beta	6.30E-14	2.20E-14	2.78E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP272637	BALL FIELDS	12/26/23	Gross Alpha/Beta	Gross Alpha	4.85E-15	6.48E-15	1.03E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP272637	BALL FIELDS	12/26/23	Gross Alpha/Beta	Gross Beta	2.12E-14	1.56E-14	2.39E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP272638	BALL FIELDS	12/26/23	Gross Alpha/Beta	Gross Alpha	1.21E-15	4.93E-15	1.03E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP272638	BALL FIELDS	12/26/23	Gross Alpha/Beta	Gross Beta	2.12E-14	1.56E-14	2.39E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP272641	BALL FIELDS	12/27/23	Gross Alpha/Beta	Gross Alpha	1.10E-14	1.47E-14	2.34E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP272641	BALL FIELDS	12/27/23	Gross Alpha/Beta	Gross Beta	3.94E-14	3.45E-14	5.43E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP272642	BALL FIELDS	12/27/23	Gross Alpha/Beta	Gross Alpha	1.10E-14	1.47E-14	2.34E-14	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP272642	BALL FIELDS	12/27/23	Gross Alpha/Beta	Gross Beta	5.34E-14	3.60E-14	5.43E-14	µCi/mL	UJ	T04, T05	Ballfields (IA-09)(General Area)-Perimeter Air
SVP272647	BALL FIELDS	12/28/23	Gross Alpha/Beta	Gross Alpha	1.09E-16	3.79E-15	9.66E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP272647	BALL FIELDS	12/28/23	Gross Alpha/Beta	Gross Beta	2.31E-14	1.32E-14	1.83E-14	µCi/mL	J	T04, T20	Ballfields (IA-09)(General Area)-Perimeter Air
SVP272648	BALL FIELDS	12/28/23	Gross Alpha/Beta	Gross Alpha	-2.52E-15	7.66E-16	9.66E-15	µCi/mL	UJ	T06	Ballfields (IA-09)(General Area)-Perimeter Air
SVP272648	BALL FIELDS	12/28/23	Gross Alpha/Beta	Gross Beta	2.87E-14	1.39E-14	1.83E-14	µCi/mL	=		Ballfields (IA-09)(General Area)-Perimeter Air
SVP265339	CWC	02/27/23	Gross Alpha/Beta	Gross Alpha	4.07E-15	5.79E-15	9.10E-15	µCi/mL	UJ	T06	Coldwater Creek (Group 9)(General Area)-Perimeter Air
SVP265339	CWC	02/27/23	Gross Alpha/Beta	Gross Beta	3.91E-14	1.97E-14	2.77E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 9)(General Area)-Perimeter Air
SVP265340	CWC	02/28/23	Gross Alpha/Beta	Gross Alpha	4.07E-15	5.79E-15	9.10E-15	µCi/mL	UJ	T06	Coldwater Creek (Group 9)(General Area)-Perimeter Air
SVP265340	CWC	02/28/23	Gross Alpha/Beta	Gross Beta	3.82E-14	1.96E-14	2.77E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 9)(General Area)-Perimeter Air
SVP265344	CWC	03/01/23	Gross Alpha/Beta	Gross Alpha	5.27E-15	1.00E-14	1.82E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 9)(General Area)-Perimeter Air
SVP265344	CWC	03/01/23	Gross Alpha/Beta	Gross Beta	5.64E-14	3.70E-14	5.54E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 9)(General Area)-Perimeter Air
SVP265371	CWC	03/14/23	Gross Alpha/Beta	Gross Alpha	1.33E-15	4.80E-15	1.07E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP265371	CWC	03/14/23	Gross Alpha/Beta	Gross Beta	2.73E-14	2.18E-14	3.39E-14	µCi/mL	UJ	T04, T05	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP265376	CWC	03/15/23	Gross Alpha/Beta	Gross Alpha	-8.10E-15	3.07E-15	4.29E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air

Table C-4. SLAPS Perimeter Air Data Results for CY 2023 (Continued)

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
SVP265376	CWC	03/15/23	Gross Alpha/Beta	Gross Beta	3.24E-14	7.90E-14	1.36E-13	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP265410	CWC	04/11/23	Gross Alpha/Beta	Gross Alpha	2.84E-14	9.53E-15	8.51E-15	µCi/mL	=		Coldwater Creek (Group 5)(General Area)-Perimeter Air
SVP265410	CWC	04/11/23	Gross Alpha/Beta	Gross Beta	6.15E-14	1.73E-14	2.34E-14	µCi/mL	=		Coldwater Creek (Group 5)(General Area)-Perimeter Air
SVP266690	CWC	06/12/23	Gross Alpha/Beta	Gross Alpha	-1.40E-15	4.62E-15	1.56E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 12)(General Area)-Perimeter Air
SVP266690	CWC	06/12/23	Gross Alpha/Beta	Gross Beta	2.04E-15	1.74E-14	3.17E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 12)(General Area)-Perimeter Air
SVP266693	CWC	06/13/23	Gross Alpha/Beta	Gross Alpha	7.61E-16	5.84E-15	1.42E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 12)(General Area)-Perimeter Air
SVP266693	CWC	06/13/23	Gross Alpha/Beta	Gross Beta	1.05E-14	1.71E-14	2.88E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 12)(General Area)-Perimeter Air
SVP266696	CWC	06/14/23	Gross Alpha/Beta	Gross Alpha	4.97E-15	8.45E-15	1.46E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 12)(General Area)-Perimeter Air
SVP266696	CWC	06/14/23	Gross Alpha/Beta	Gross Beta	1.92E-15	1.63E-14	2.97E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 12)(General Area)-Perimeter Air
SVP266699	CWC	06/15/23	Gross Alpha/Beta	Gross Alpha	8.84E-15	1.50E-14	2.60E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 12)(General Area)-Perimeter Air
SVP266699	CWC	06/15/23	Gross Alpha/Beta	Gross Beta	1.93E-14	3.13E-14	5.28E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 12)(General Area)-Perimeter Air
SVP266704	CWC	06/19/23	Gross Alpha/Beta	Gross Alpha	1.77E-15	5.22E-15	1.05E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266704	CWC	06/19/23	Gross Alpha/Beta	Gross Beta	1.65E-14	1.58E-14	2.52E-14	µCi/mL	UJ	T04, T05	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266705	CWC	06/19/23	Gross Alpha/Beta	Gross Alpha	3.06E-15	5.83E-15	1.05E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266705	CWC	06/19/23	Gross Alpha/Beta	Gross Beta	3.45E-14	1.77E-14	2.52E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266708	CWC	06/20/23	Gross Alpha/Beta	Gross Alpha	1.08E-14	8.63E-15	1.05E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266708	CWC	06/20/23	Gross Alpha/Beta	Gross Beta	4.27E-14	1.86E-14	2.52E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266709	CWC	06/20/23	Gross Alpha/Beta	Gross Alpha	9.50E-15	8.22E-15	1.05E-14	µCi/mL	UJ	T04, T05	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266709	CWC	06/20/23	Gross Alpha/Beta	Gross Beta	4.68E-14	1.90E-14	2.52E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266712	CWC	06/21/23	Gross Alpha/Beta	Gross Alpha	9.40E-15	8.14E-15	1.04E-14	µCi/mL	UJ	T04, T05	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266712	CWC	06/21/23	Gross Alpha/Beta	Gross Beta	4.95E-14	1.91E-14	2.49E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266713	CWC	06/21/23	Gross Alpha/Beta	Gross Alpha	1.75E-15	5.17E-15	1.04E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266713	CWC	06/21/23	Gross Alpha/Beta	Gross Beta	1.71E-14	1.58E-14	2.49E-14	µCi/mL	UJ	T04, T05	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266714	CWC	06/21/23	Gross Alpha/Beta	Gross Alpha	1.34E-14	8.61E-15	8.33E-15	µCi/mL	J	T04, T20	Coldwater Creek (Group 12)(General Area)-Perimeter Air
SVP266714	CWC	06/21/23	Gross Alpha/Beta	Gross Beta	5.20E-14	1.85E-14	2.35E-14	µCi/mL	=		Coldwater Creek (Group 12)(General Area)-Perimeter Air
SVP266716	CWC	06/22/23	Gross Alpha/Beta	Gross Alpha	1.19E-14	1.35E-14	1.93E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 12)(General Area)-Perimeter Air
SVP266716	CWC	06/22/23	Gross Alpha/Beta	Gross Beta	1.25E-14	3.17E-14	5.46E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 12)(General Area)-Perimeter Air
SVP266719	CWC	06/22/23	Gross Alpha/Beta	Gross Alpha	1.16E-14	1.02E-14	1.22E-14	µCi/mL	UJ	T04, T05	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266719	CWC	06/22/23	Gross Alpha/Beta	Gross Beta	4.93E-14	2.00E-14	2.45E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266720	CWC	06/22/23	Gross Alpha/Beta	Gross Alpha	9.83E-15	9.52E-15	1.22E-14	µCi/mL	UJ	T04, T05	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266720	CWC	06/22/23	Gross Alpha/Beta	Gross Beta	2.86E-14	1.74E-14	2.45E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266721	CWC	06/26/23	Gross Alpha/Beta	Gross Alpha	6.70E-15	6.70E-15	8.85E-15	µCi/mL	UJ	T04, T05	Coldwater Creek (Group 12)(General Area)-Perimeter Air
SVP266721	CWC	06/26/23	Gross Alpha/Beta	Gross Beta	3.36E-15	1.43E-14	2.50E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 12)(General Area)-Perimeter Air
SVP266724	CWC	06/26/23	Gross Alpha/Beta	Gross Alpha	2.03E-15	4.74E-15	9.23E-15	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266724	CWC	06/26/23	Gross Alpha/Beta	Gross Beta	2.08E-14	1.30E-14	1.86E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266725	CWC	06/26/23	Gross Alpha/Beta	Gross Alpha	6.77E-16	3.89E-15	9.23E-15	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266725	CWC	06/26/23	Gross Alpha/Beta	Gross Beta	2.25E-14	1.33E-14	1.86E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266728	CWC	06/27/23	Gross Alpha/Beta	Gross Alpha	1.14E-14	8.16E-15	8.58E-15	µCi/mL	J	T04, T20	Coldwater Creek (Group 12)(General Area)-Perimeter Air
SVP266728	CWC	06/27/23	Gross Alpha/Beta	Gross Beta	2.49E-14	1.62E-14	2.43E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 12)(General Area)-Perimeter Air
SVP266729	CWC	06/27/23	Gross Alpha/Beta	Gross Alpha	8.48E-16	4.87E-15	1.16E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air

Table C-4. SLAPS Perimeter Air Data Results for CY 2023 (Continued)

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
SVP266729	CWC	06/27/23	Gross Alpha/Beta	Gross Beta	9.52E-15	1.40E-14	2.33E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266730	CWC	06/27/23	Gross Alpha/Beta	Gross Alpha	2.54E-15	5.94E-15	1.16E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266730	CWC	06/27/23	Gross Alpha/Beta	Gross Beta	2.40E-14	1.61E-14	2.33E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266731	CWC	06/28/23	Gross Alpha/Beta	Gross Alpha	9.22E-15	7.60E-15	8.85E-15	µCi/mL	J	T04, T20	Coldwater Creek (Group 12)(General Area)-Perimeter Air
SVP266731	CWC	06/28/23	Gross Alpha/Beta	Gross Beta	1.05E-14	1.51E-14	2.50E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 12)(General Area)-Perimeter Air
SVP266734	CWC	06/28/23	Gross Alpha/Beta	Gross Alpha	1.96E-14	5.77E-15	4.22E-15	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266734	CWC	06/28/23	Gross Alpha/Beta	Gross Beta	3.16E-14	7.96E-15	9.74E-15	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266735	CWC	06/28/23	Gross Alpha/Beta	Gross Alpha	2.10E-14	5.96E-15	4.22E-15	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266735	CWC	06/28/23	Gross Alpha/Beta	Gross Beta	3.87E-14	8.50E-15	9.74E-15	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266736	CWC	06/29/23	Gross Alpha/Beta	Gross Alpha	2.52E-14	1.22E-14	1.35E-14	µCi/mL	=		Coldwater Creek (Group 12)(General Area)-Perimeter Air
SVP266736	CWC	06/29/23	Gross Alpha/Beta	Gross Beta	2.26E-14	2.46E-14	4.00E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 12)(General Area)-Perimeter Air
SVP266739	CWC	06/29/23	Gross Alpha/Beta	Gross Alpha	-1.58E-16	3.65E-15	9.59E-15	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266739	CWC	06/29/23	Gross Alpha/Beta	Gross Beta	2.60E-14	1.64E-14	2.43E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266740	CWC	06/29/23	Gross Alpha/Beta	Gross Alpha	8.67E-15	7.64E-15	9.59E-15	µCi/mL	UJ	T04, T05	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266740	CWC	06/29/23	Gross Alpha/Beta	Gross Beta	3.24E-14	1.71E-14	2.43E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266743	CWC	07/03/23	Gross Alpha/Beta	Gross Alpha	7.12E-15	6.92E-15	9.21E-15	µCi/mL	UJ	T04, T05	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266743	CWC	07/03/23	Gross Alpha/Beta	Gross Beta	3.80E-14	1.71E-14	2.34E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266744	CWC	07/03/23	Gross Alpha/Beta	Gross Alpha	9.55E-15	7.74E-15	9.21E-15	µCi/mL	J	T04, T20	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266744	CWC	07/03/23	Gross Alpha/Beta	Gross Beta	5.57E-14	1.89E-14	2.34E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266747	CWC	07/05/23	Gross Alpha/Beta	Gross Alpha	3.56E-15	5.59E-15	9.40E-15	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266747	CWC	07/05/23	Gross Alpha/Beta	Gross Beta	4.90E-14	1.85E-14	2.38E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266748	CWC	07/05/23	Gross Alpha/Beta	Gross Alpha	6.03E-15	6.60E-15	9.40E-15	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266748	CWC	07/05/23	Gross Alpha/Beta	Gross Beta	3.80E-14	1.74E-14	2.38E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266751	CWC	07/06/23	Gross Alpha/Beta	Gross Alpha	3.30E-15	5.52E-15	9.48E-15	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266751	CWC	07/06/23	Gross Alpha/Beta	Gross Beta	3.00E-14	1.43E-14	1.86E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266752	CWC	07/06/23	Gross Alpha/Beta	Gross Alpha	3.30E-15	5.52E-15	9.48E-15	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266752	CWC	07/06/23	Gross Alpha/Beta	Gross Beta	3.17E-14	1.45E-14	1.86E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266755	CWC	07/10/23	Gross Alpha/Beta	Gross Alpha	4.53E-15	5.98E-15	9.19E-15	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266755	CWC	07/10/23	Gross Alpha/Beta	Gross Beta	3.88E-14	1.51E-14	1.80E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266756	CWC	07/10/23	Gross Alpha/Beta	Gross Alpha	1.88E-15	4.65E-15	9.19E-15	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266756	CWC	07/10/23	Gross Alpha/Beta	Gross Beta	2.59E-14	1.34E-14	1.80E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266759	CWC	07/11/23	Gross Alpha/Beta	Gross Alpha	4.62E-15	6.10E-15	9.38E-15	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266759	CWC	07/11/23	Gross Alpha/Beta	Gross Beta	3.71E-14	1.51E-14	1.84E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266760	CWC	07/11/23	Gross Alpha/Beta	Gross Alpha	1.92E-15	4.74E-15	9.38E-15	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266760	CWC	07/11/23	Gross Alpha/Beta	Gross Beta	3.88E-14	1.53E-14	1.84E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266763	CWC	07/12/23	Gross Alpha/Beta	Gross Alpha	5.98E-15	6.68E-15	9.38E-15	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266763	CWC	07/12/23	Gross Alpha/Beta	Gross Beta	4.87E-14	1.65E-14	1.84E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266764	CWC	07/12/23	Gross Alpha/Beta	Gross Alpha	5.64E-16	3.89E-15	9.38E-15	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266764	CWC	07/12/23	Gross Alpha/Beta	Gross Beta	3.71E-14	1.51E-14	1.84E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266767	CWC	07/13/23	Gross Alpha/Beta	Gross Alpha	8.63E-15	7.88E-15	9.87E-15	µCi/mL	UJ	T04, T05	Coldwater Creek (Group 24)(General Area)-Perimeter Air

Table C-4. SLAPS Perimeter Air Data Results for CY 2023 (Continued)

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
SVP266767	CWC	07/13/23	Gross Alpha/Beta	Gross Beta	2.78E-14	1.42E-14	1.90E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266768	CWC	07/13/23	Gross Alpha/Beta	Gross Alpha	3.11E-15	5.58E-15	9.87E-15	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266768	CWC	07/13/23	Gross Alpha/Beta	Gross Beta	1.85E-14	1.30E-14	1.90E-14	µCi/mL	UJ	T04, T05	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266769	CWC	07/17/23	Gross Alpha/Beta	Gross Alpha	1.19E-14	9.19E-15	1.03E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266769	CWC	07/17/23	Gross Alpha/Beta	Gross Beta	3.16E-14	1.52E-14	1.98E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266770	CWC	07/17/23	Gross Alpha/Beta	Gross Alpha	4.68E-15	6.50E-15	1.03E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266770	CWC	07/17/23	Gross Alpha/Beta	Gross Beta	2.81E-14	1.47E-14	1.98E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266773	CWC	07/18/23	Gross Alpha/Beta	Gross Alpha	1.53E-14	1.04E-14	1.06E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266773	CWC	07/18/23	Gross Alpha/Beta	Gross Beta	4.54E-14	1.72E-14	2.05E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266774	CWC	07/18/23	Gross Alpha/Beta	Gross Alpha	4.84E-15	6.72E-15	1.06E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266774	CWC	07/18/23	Gross Alpha/Beta	Gross Beta	4.54E-14	1.72E-14	2.05E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266779	CWC	07/19/23	Gross Alpha/Beta	Gross Alpha	4.54E-15	6.30E-15	9.98E-15	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266779	CWC	07/19/23	Gross Alpha/Beta	Gross Beta	3.49E-14	1.52E-14	1.92E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266780	CWC	07/19/23	Gross Alpha/Beta	Gross Alpha	3.14E-15	5.64E-15	9.98E-15	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266780	CWC	07/19/23	Gross Alpha/Beta	Gross Beta	3.06E-14	1.47E-14	1.92E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266781	CWC	07/20/23	Gross Alpha/Beta	Gross Alpha	5.58E-15	7.12E-15	1.10E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266781	CWC	07/20/23	Gross Alpha/Beta	Gross Beta	2.33E-14	1.43E-14	2.04E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266782	CWC	07/20/23	Gross Alpha/Beta	Gross Alpha	2.70E-15	5.83E-15	1.10E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266782	CWC	07/20/23	Gross Alpha/Beta	Gross Beta	3.56E-14	1.59E-14	2.04E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266787	CWC	07/24/23	Gross Alpha/Beta	Gross Alpha	1.63E-15	6.54E-15	1.41E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266787	CWC	07/24/23	Gross Alpha/Beta	Gross Beta	5.96E-14	2.22E-14	2.64E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266788	CWC	07/24/23	Gross Alpha/Beta	Gross Alpha	-2.33E-16	5.38E-15	1.41E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266788	CWC	07/24/23	Gross Alpha/Beta	Gross Beta	2.78E-14	1.82E-14	2.64E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266789	CWC	07/24/23	Gross Alpha/Beta	Gross Alpha	1.28E-14	1.13E-14	1.41E-14	µCi/mL	UJ	T04, T05	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266789	CWC	07/24/23	Gross Alpha/Beta	Gross Beta	4.03E-14	1.98E-14	2.64E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266790	CWC	07/25/23	Gross Alpha/Beta	Gross Alpha	1.18E-15	4.76E-15	1.03E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266790	CWC	07/25/23	Gross Alpha/Beta	Gross Beta	4.99E-14	1.69E-14	1.92E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266791	CWC	07/25/23	Gross Alpha/Beta	Gross Alpha	7.95E-15	7.72E-15	1.03E-14	µCi/mL	UJ	T04, T05	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266791	CWC	07/25/23	Gross Alpha/Beta	Gross Beta	4.33E-14	1.61E-14	1.92E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266792	CWC	07/25/23	Gross Alpha/Beta	Gross Alpha	7.95E-15	7.72E-15	1.03E-14	µCi/mL	UJ	T04, T05	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266792	CWC	07/25/23	Gross Alpha/Beta	Gross Beta	4.42E-14	1.62E-14	1.92E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266795	CWC	07/26/23	Gross Alpha/Beta	Gross Alpha	1.68E-14	1.41E-14	1.60E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 15)(General Area)-Perimeter Air
SVP266795	CWC	07/26/23	Gross Alpha/Beta	Gross Beta	6.67E-14	2.74E-14	3.37E-14	µCi/mL	=		Coldwater Creek (Group 15)(General Area)-Perimeter Air
SVP266796	CWC	07/26/23	Gross Alpha/Beta	Gross Alpha	-1.86E-15	6.94E-16	9.62E-15	µCi/mL	UJ	T06	Coldwater Creek (Group 15)(General Area)-Perimeter Air
SVP266796	CWC	07/26/23	Gross Alpha/Beta	Gross Beta	8.25E-15	1.21E-14	2.02E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 15)(General Area)-Perimeter Air
SVP266799	CWC	07/26/23	Gross Alpha/Beta	Gross Alpha	1.40E-15	5.61E-15	1.21E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266799	CWC	07/26/23	Gross Alpha/Beta	Gross Beta	5.59E-14	1.96E-14	2.26E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266800	CWC	07/26/23	Gross Alpha/Beta	Gross Alpha	6.18E-15	7.89E-15	1.21E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266800	CWC	07/26/23	Gross Alpha/Beta	Gross Beta	2.87E-14	1.63E-14	2.26E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266801	CWC	07/26/23	Gross Alpha/Beta	Gross Alpha	7.78E-15	8.51E-15	1.21E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air

Table C-4. SLAPS Perimeter Air Data Results for CY 2023 (Continued)

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
SVP266801	CWC	07/26/23	Gross Alpha/Beta	Gross Beta	3.45E-14	1.70E-14	2.26E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266802	CWC	07/27/23	Gross Alpha/Beta	Gross Alpha	-2.79E-15	1.04E-15	1.44E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 15)(General Area)-Perimeter Air
SVP266802	CWC	07/27/23	Gross Alpha/Beta	Gross Beta	2.87E-14	2.06E-14	3.03E-14	µCi/mL	UJ	T04, T05	Coldwater Creek (Group 15)(General Area)-Perimeter Air
SVP266803	CWC	07/27/23	Gross Alpha/Beta	Gross Alpha	3.96E-15	5.81E-15	9.31E-15	µCi/mL	UJ	T06	Coldwater Creek (Group 15)(General Area)-Perimeter Air
SVP266803	CWC	07/27/23	Gross Alpha/Beta	Gross Beta	1.59E-14	1.29E-14	1.96E-14	µCi/mL	UJ	T04, T05	Coldwater Creek (Group 15)(General Area)-Perimeter Air
SVP266806	CWC	07/27/23	Gross Alpha/Beta	Gross Alpha	5.08E-15	6.10E-15	8.74E-15	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266806	CWC	07/27/23	Gross Alpha/Beta	Gross Beta	4.63E-14	1.62E-14	1.84E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266807	CWC	07/27/23	Gross Alpha/Beta	Gross Alpha	1.02E-15	3.88E-15	8.74E-15	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266807	CWC	07/27/23	Gross Alpha/Beta	Gross Beta	4.30E-14	1.58E-14	1.84E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266808	CWC	07/27/23	Gross Alpha/Beta	Gross Alpha	3.72E-15	5.46E-15	8.74E-15	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266808	CWC	07/27/23	Gross Alpha/Beta	Gross Beta	5.78E-14	1.75E-14	1.84E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266811	CWC	07/31/23	Gross Alpha/Beta	Gross Alpha	-1.75E-15	6.51E-16	9.02E-15	µCi/mL	UJ	T06	Coldwater Creek (Group 15)(General Area)-Perimeter Air
SVP266811	CWC	07/31/23	Gross Alpha/Beta	Gross Beta	1.71E-14	1.27E-14	1.90E-14	µCi/mL	UJ	T04, T05	Coldwater Creek (Group 15)(General Area)-Perimeter Air
SVP266812	CWC	07/31/23	Gross Alpha/Beta	Gross Alpha	1.46E-15	5.56E-15	1.25E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 15)(General Area)-Perimeter Air
SVP266812	CWC	07/31/23	Gross Alpha/Beta	Gross Beta	2.26E-14	1.76E-14	2.64E-14	µCi/mL	UJ	T04, T05	Coldwater Creek (Group 15)(General Area)-Perimeter Air
SVP266813	CWC	07/31/23	Gross Alpha/Beta	Gross Alpha	3.80E-15	5.57E-15	8.92E-15	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266813	CWC	07/31/23	Gross Alpha/Beta	Gross Beta	2.37E-14	1.35E-14	1.88E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266814	CWC	07/31/23	Gross Alpha/Beta	Gross Alpha	-3.45E-16	2.83E-15	8.92E-15	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266814	CWC	07/31/23	Gross Alpha/Beta	Gross Beta	2.03E-14	1.31E-14	1.88E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266815	CWC	07/31/23	Gross Alpha/Beta	Gross Alpha	2.42E-15	4.83E-15	8.92E-15	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266815	CWC	07/31/23	Gross Alpha/Beta	Gross Beta	2.96E-14	1.43E-14	1.88E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266816	CWC	08/01/23	Gross Alpha/Beta	Gross Alpha	6.98E-15	8.38E-15	1.20E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 15)(General Area)-Perimeter Air
SVP266816	CWC	08/01/23	Gross Alpha/Beta	Gross Beta	9.17E-15	1.50E-14	2.53E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 15)(General Area)-Perimeter Air
SVP266817	CWC	08/01/23	Gross Alpha/Beta	Gross Alpha	1.05E-15	4.00E-15	9.02E-15	µCi/mL	UJ	T06	Coldwater Creek (Group 15)(General Area)-Perimeter Air
SVP266817	CWC	08/01/23	Gross Alpha/Beta	Gross Beta	4.35E-14	1.62E-14	1.90E-14	µCi/mL	=		Coldwater Creek (Group 15)(General Area)-Perimeter Air
SVP266820	CWC	08/01/23	Gross Alpha/Beta	Gross Alpha	1.04E-15	3.96E-15	8.92E-15	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266820	CWC	08/01/23	Gross Alpha/Beta	Gross Beta	2.37E-14	1.35E-14	1.88E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266821	CWC	08/01/23	Gross Alpha/Beta	Gross Alpha	1.07E-14	8.35E-15	8.92E-15	µCi/mL	J	T04, T20	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266821	CWC	08/01/23	Gross Alpha/Beta	Gross Beta	3.71E-14	1.53E-14	1.88E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266822	CWC	08/01/23	Gross Alpha/Beta	Gross Alpha	1.04E-15	3.96E-15	8.92E-15	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266822	CWC	08/01/23	Gross Alpha/Beta	Gross Beta	3.21E-14	1.46E-14	1.88E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266823	CWC	08/03/23	Gross Alpha/Beta	Gross Alpha	8.59E-15	9.81E-15	1.46E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 15)(General Area)-Perimeter Air
SVP266823	CWC	08/03/23	Gross Alpha/Beta	Gross Beta	3.55E-14	2.22E-14	3.28E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 15)(General Area)-Perimeter Air
SVP266824	CWC	08/03/23	Gross Alpha/Beta	Gross Alpha	5.50E-15	7.35E-15	1.17E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 15)(General Area)-Perimeter Air
SVP266824	CWC	08/03/23	Gross Alpha/Beta	Gross Beta	2.14E-14	1.70E-14	2.63E-14	µCi/mL	UJ	T04, T05	Coldwater Creek (Group 15)(General Area)-Perimeter Air
SVP266827	CWC	08/03/23	Gross Alpha/Beta	Gross Alpha	2.97E-15	4.87E-15	8.30E-15	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266827	CWC	08/03/23	Gross Alpha/Beta	Gross Beta	2.91E-14	1.62E-14	2.34E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266828	CWC	08/03/23	Gross Alpha/Beta	Gross Alpha	4.17E-15	5.44E-15	8.30E-15	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266828	CWC	08/03/23	Gross Alpha/Beta	Gross Beta	3.06E-14	1.64E-14	2.34E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266829	CWC	08/03/23	Gross Alpha/Beta	Gross Alpha	5.38E-15	5.96E-15	8.30E-15	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air

Table C-4. SLAPS Perimeter Air Data Results for CY 2023 (Continued)

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
SVP266829	CWC	08/03/23	Gross Alpha/Beta	Gross Beta	1.99E-14	1.52E-14	2.34E-14	µCi/mL	UJ	T04, T05	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266830	CWC	08/07/23	Gross Alpha/Beta	Gross Alpha	1.72E-15	6.98E-15	1.46E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 15)(General Area)-Perimeter Air
SVP266830	CWC	08/07/23	Gross Alpha/Beta	Gross Beta	1.15E-14	1.95E-14	3.28E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 15)(General Area)-Perimeter Air
SVP266831	CWC	08/07/23	Gross Alpha/Beta	Gross Alpha	7.73E-15	7.80E-15	1.10E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 15)(General Area)-Perimeter Air
SVP266831	CWC	08/07/23	Gross Alpha/Beta	Gross Beta	2.25E-14	1.62E-14	2.46E-14	µCi/mL	UJ	T04, T05	Coldwater Creek (Group 15)(General Area)-Perimeter Air
SVP266834	CWC	08/07/23	Gross Alpha/Beta	Gross Alpha	5.70E-16	3.58E-15	8.55E-15	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266834	CWC	08/07/23	Gross Alpha/Beta	Gross Beta	1.10E-14	1.47E-14	2.42E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266835	CWC	08/07/23	Gross Alpha/Beta	Gross Alpha	1.81E-15	4.36E-15	8.55E-15	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266835	CWC	08/07/23	Gross Alpha/Beta	Gross Beta	2.21E-14	1.59E-14	2.42E-14	µCi/mL	UJ	T04, T05	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266836	CWC	08/07/23	Gross Alpha/Beta	Gross Alpha	-1.92E-15	6.47E-16	8.55E-15	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266836	CWC	08/07/23	Gross Alpha/Beta	Gross Beta	1.65E-14	1.53E-14	2.42E-14	µCi/mL	UJ	T04, T05	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266837	CWC	08/08/23	Gross Alpha/Beta	Gross Alpha	1.87E-14	2.14E-14	3.19E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 15)(General Area)-Perimeter Air
SVP266837	CWC	08/08/23	Gross Alpha/Beta	Gross Beta	6.08E-14	4.66E-14	7.16E-14	µCi/mL	UJ	T04, T05	Coldwater Creek (Group 15)(General Area)-Perimeter Air
SVP266838	CWC	08/08/23	Gross Alpha/Beta	Gross Alpha	0	6.07E-15	1.46E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 15)(General Area)-Perimeter Air
SVP266838	CWC	08/08/23	Gross Alpha/Beta	Gross Beta	5.30E-14	2.40E-14	3.28E-14	µCi/mL	=		Coldwater Creek (Group 15)(General Area)-Perimeter Air
SVP266841	CWC	08/08/23	Gross Alpha/Beta	Gross Alpha	6.59E-15	6.43E-15	8.30E-15	µCi/mL	UJ	T04, T05	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266841	CWC	08/08/23	Gross Alpha/Beta	Gross Beta	5.13E-14	1.85E-14	2.34E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266842	CWC	08/08/23	Gross Alpha/Beta	Gross Alpha	6.59E-15	6.43E-15	8.30E-15	µCi/mL	UJ	T04, T05	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266842	CWC	08/08/23	Gross Alpha/Beta	Gross Beta	4.21E-14	1.75E-14	2.34E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266843	CWC	08/08/23	Gross Alpha/Beta	Gross Alpha	4.17E-15	5.44E-15	8.30E-15	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266843	CWC	08/08/23	Gross Alpha/Beta	Gross Beta	3.75E-14	1.71E-14	2.34E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266846	CWC	08/09/23	Gross Alpha/Beta	Gross Alpha	1.68E-15	1.05E-14	2.51E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266846	CWC	08/09/23	Gross Alpha/Beta	Gross Beta	1.16E-13	5.20E-14	7.10E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266847	CWC	08/09/23	Gross Alpha/Beta	Gross Alpha	2.00E-14	1.95E-14	2.51E-14	µCi/mL	UJ	T04, T05	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266847	CWC	08/09/23	Gross Alpha/Beta	Gross Beta	8.11E-14	4.84E-14	7.10E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266848	CWC	08/09/23	Gross Alpha/Beta	Gross Alpha	2.00E-14	1.95E-14	2.51E-14	µCi/mL	UJ	T04, T05	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266848	CWC	08/09/23	Gross Alpha/Beta	Gross Beta	3.01E-14	4.28E-14	7.10E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266849	CWC	08/10/23	Gross Alpha/Beta	Gross Alpha	4.20E-15	7.04E-15	1.22E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 15)(General Area)-Perimeter Air
SVP266849	CWC	08/10/23	Gross Alpha/Beta	Gross Beta	3.06E-14	1.86E-14	2.75E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 15)(General Area)-Perimeter Air
SVP266852	CWC	08/10/23	Gross Alpha/Beta	Gross Alpha	2.88E-15	5.47E-15	9.88E-15	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266852	CWC	08/10/23	Gross Alpha/Beta	Gross Beta	1.94E-14	1.31E-14	1.92E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266853	CWC	08/10/23	Gross Alpha/Beta	Gross Alpha	1.69E-16	3.90E-15	9.88E-15	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266853	CWC	08/10/23	Gross Alpha/Beta	Gross Beta	2.60E-14	1.40E-14	1.92E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266854	CWC	08/10/23	Gross Alpha/Beta	Gross Alpha	1.69E-16	3.90E-15	9.88E-15	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266854	CWC	08/10/23	Gross Alpha/Beta	Gross Beta	2.35E-14	1.37E-14	1.92E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266855	CWC	08/14/23	Gross Alpha/Beta	Gross Alpha	4.69E-15	7.86E-15	1.36E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 15)(General Area)-Perimeter Air
SVP266855	CWC	08/14/23	Gross Alpha/Beta	Gross Beta	2.85E-15	1.73E-14	3.07E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 15)(General Area)-Perimeter Air
SVP266858	CWC	08/14/23	Gross Alpha/Beta	Gross Alpha	1.60E-15	5.00E-15	1.04E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266858	CWC	08/14/23	Gross Alpha/Beta	Gross Beta	1.78E-14	1.35E-14	2.02E-14	µCi/mL	UJ	T04, T05	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266859	CWC	08/14/23	Gross Alpha/Beta	Gross Alpha	3.03E-15	5.76E-15	1.04E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air

Table C-4. SLAPS Perimeter Air Data Results for CY 2023 (Continued)

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
SVP266859	CWC	08/14/23	Gross Alpha/Beta	Gross Beta	2.04E-14	1.38E-14	2.02E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266860	CWC	08/14/23	Gross Alpha/Beta	Gross Alpha	-2.67E-15	8.22E-16	1.04E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266860	CWC	08/14/23	Gross Alpha/Beta	Gross Beta	7.39E-15	1.20E-14	2.02E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266861	CWC	08/15/23	Gross Alpha/Beta	Gross Alpha	3.10E-15	7.18E-15	1.36E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 15)(General Area)-Perimeter Air
SVP266861	CWC	08/15/23	Gross Alpha/Beta	Gross Beta	1.90E-14	1.92E-14	3.07E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 15)(General Area)-Perimeter Air
SVP266864	CWC	08/15/23	Gross Alpha/Beta	Gross Alpha	1.67E-16	3.86E-15	9.79E-15	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266864	CWC	08/15/23	Gross Alpha/Beta	Gross Beta	7.76E-15	1.14E-14	1.90E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266865	CWC	08/15/23	Gross Alpha/Beta	Gross Alpha	8.21E-15	7.64E-15	9.79E-15	µCi/mL	UJ	T04, T05	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266865	CWC	08/15/23	Gross Alpha/Beta	Gross Beta	9.40E-15	1.16E-14	1.90E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266866	CWC	08/15/23	Gross Alpha/Beta	Gross Alpha	4.97E-15	3.25E-15	4.09E-15	µCi/mL	J	T04, T20	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266866	CWC	08/15/23	Gross Alpha/Beta	Gross Beta	3.20E-14	7.71E-15	9.15E-15	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266867	CWC	08/16/23	Gross Alpha/Beta	Gross Alpha	6.28E-15	8.48E-15	1.36E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 15)(General Area)-Perimeter Air
SVP266867	CWC	08/16/23	Gross Alpha/Beta	Gross Beta	2.10E-14	1.94E-14	3.07E-14	µCi/mL	UJ	T04, T05	Coldwater Creek (Group 15)(General Area)-Perimeter Air
SVP266870	CWC	08/16/23	Gross Alpha/Beta	Gross Alpha	2.79E-15	5.31E-15	9.59E-15	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266870	CWC	08/16/23	Gross Alpha/Beta	Gross Beta	2.68E-14	1.38E-14	1.86E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266871	CWC	08/16/23	Gross Alpha/Beta	Gross Alpha	8.05E-15	7.49E-15	9.59E-15	µCi/mL	UJ	T04, T05	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266871	CWC	08/16/23	Gross Alpha/Beta	Gross Beta	1.32E-14	1.20E-14	1.86E-14	µCi/mL	UJ	T04, T05	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266872	CWC	08/16/23	Gross Alpha/Beta	Gross Alpha	1.46E-14	9.56E-15	9.59E-15	µCi/mL	J	T04, T20	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266872	CWC	08/16/23	Gross Alpha/Beta	Gross Beta	3.32E-14	1.46E-14	1.86E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266873	CWC	08/17/23	Gross Alpha/Beta	Gross Alpha	8.28E-15	1.13E-14	1.78E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 15)(General Area)-Perimeter Air
SVP266873	CWC	08/17/23	Gross Alpha/Beta	Gross Beta	4.57E-14	3.21E-14	4.86E-14	µCi/mL	UJ	T04, T05	Coldwater Creek (Group 15)(General Area)-Perimeter Air
SVP266876	CWC	08/17/23	Gross Alpha/Beta	Gross Alpha	4.89E-15	6.82E-15	1.11E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266876	CWC	08/17/23	Gross Alpha/Beta	Gross Beta	3.05E-14	1.69E-14	2.44E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266877	CWC	08/17/23	Gross Alpha/Beta	Gross Alpha	6.16E-15	7.29E-15	1.11E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266877	CWC	08/17/23	Gross Alpha/Beta	Gross Beta	3.37E-14	1.72E-14	2.44E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266878	CWC	08/17/23	Gross Alpha/Beta	Gross Alpha	4.89E-15	6.82E-15	1.11E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266878	CWC	08/17/23	Gross Alpha/Beta	Gross Beta	5.23E-14	1.92E-14	2.44E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266879	CWC	08/21/23	Gross Alpha/Beta	Gross Alpha	1.57E-14	1.46E-14	1.99E-14	µCi/mL	UJ	T04, T05	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266879	CWC	08/21/23	Gross Alpha/Beta	Gross Beta	6.64E-14	3.16E-14	4.37E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266882	CWC	08/21/23	Gross Alpha/Beta	Gross Alpha	1.23E-14	9.10E-15	1.08E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266882	CWC	08/21/23	Gross Alpha/Beta	Gross Beta	8.14E-14	2.17E-14	2.39E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266883	CWC	08/21/23	Gross Alpha/Beta	Gross Alpha	7.29E-15	7.57E-15	1.08E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266883	CWC	08/21/23	Gross Alpha/Beta	Gross Beta	8.54E-14	2.21E-14	2.39E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266884	CWC	08/21/23	Gross Alpha/Beta	Gross Alpha	1.10E-14	8.74E-15	1.08E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266884	CWC	08/21/23	Gross Alpha/Beta	Gross Beta	7.75E-14	2.13E-14	2.39E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266887	CWC	08/22/23	Gross Alpha/Beta	Gross Alpha	3.50E-15	6.13E-15	1.07E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266887	CWC	08/22/23	Gross Alpha/Beta	Gross Beta	1.10E-13	2.42E-14	2.36E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266888	CWC	08/22/23	Gross Alpha/Beta	Gross Alpha	8.45E-15	7.90E-15	1.07E-14	µCi/mL	UJ	T04, T05	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266888	CWC	08/22/23	Gross Alpha/Beta	Gross Beta	6.73E-14	2.02E-14	2.36E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP266889	CWC	08/22/23	Gross Alpha/Beta	Gross Alpha	1.59E-14	1.00E-14	1.07E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 24)(General Area)-Perimeter Air

Table C-4. SLAPS Perimeter Air Data Results for CY 2023 (Continued)

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
SVP266889	CWC	08/22/23	Gross Alpha/Beta	Gross Beta	6.81E-14	2.03E-14	2.36E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269229	CWC	08/22/23	Gross Alpha/Beta	Gross Alpha	1.41E-14	1.47E-14	2.11E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269229	CWC	08/22/23	Gross Alpha/Beta	Gross Beta	5.33E-14	3.16E-14	4.63E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269230	CWC	08/23/23	Gross Alpha/Beta	Gross Alpha	2.00E-14	2.08E-14	2.98E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269230	CWC	08/23/23	Gross Alpha/Beta	Gross Beta	8.87E-14	4.62E-14	6.56E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269233	CWC	08/23/23	Gross Alpha/Beta	Gross Alpha	7.07E-15	7.35E-15	1.05E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269233	CWC	08/23/23	Gross Alpha/Beta	Gross Beta	6.90E-14	2.01E-14	2.32E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269234	CWC	08/23/23	Gross Alpha/Beta	Gross Alpha	9.50E-15	8.12E-15	1.05E-14	µCi/mL	UJ	T04, T05	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269234	CWC	08/23/23	Gross Alpha/Beta	Gross Beta	1.05E-13	2.34E-14	2.32E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269235	CWC	08/23/23	Gross Alpha/Beta	Gross Alpha	1.07E-14	8.48E-15	1.05E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269235	CWC	08/23/23	Gross Alpha/Beta	Gross Beta	8.83E-14	2.19E-14	2.32E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269238	CWC	08/24/23	Gross Alpha/Beta	Gross Alpha	1.20E-14	8.79E-15	1.00E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269238	CWC	08/24/23	Gross Alpha/Beta	Gross Beta	7.34E-14	2.09E-14	2.37E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269239	CWC	08/24/23	Gross Alpha/Beta	Gross Alpha	6.81E-16	4.43E-15	1.00E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269239	CWC	08/24/23	Gross Alpha/Beta	Gross Beta	7.90E-14	2.15E-14	2.37E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269240	CWC	08/24/23	Gross Alpha/Beta	Gross Alpha	8.22E-15	7.61E-15	1.00E-14	µCi/mL	UJ	T04, T05	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269240	CWC	08/24/23	Gross Alpha/Beta	Gross Beta	7.34E-14	2.09E-14	2.37E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269243	CWC	08/28/23	Gross Alpha/Beta	Gross Alpha	6.41E-16	4.17E-15	9.43E-15	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269243	CWC	08/28/23	Gross Alpha/Beta	Gross Beta	2.56E-14	1.53E-14	2.23E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269244	CWC	08/28/23	Gross Alpha/Beta	Gross Alpha	4.19E-15	5.85E-15	9.43E-15	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269244	CWC	08/28/23	Gross Alpha/Beta	Gross Beta	4.89E-14	1.77E-14	2.23E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269245	CWC	08/28/23	Gross Alpha/Beta	Gross Alpha	3.01E-15	5.35E-15	9.43E-15	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269245	CWC	08/28/23	Gross Alpha/Beta	Gross Beta	2.41E-14	1.51E-14	2.23E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269248	CWC	08/29/23	Gross Alpha/Beta	Gross Alpha	-5.76E-16	3.65E-15	1.00E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269248	CWC	08/29/23	Gross Alpha/Beta	Gross Beta	3.52E-14	1.71E-14	2.37E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269249	CWC	08/29/23	Gross Alpha/Beta	Gross Alpha	6.81E-16	4.43E-15	1.00E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269249	CWC	08/29/23	Gross Alpha/Beta	Gross Beta	6.60E-17	1.31E-14	2.37E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269250	CWC	08/29/23	Gross Alpha/Beta	Gross Alpha	8.22E-15	7.61E-15	1.00E-14	µCi/mL	UJ	T04, T05	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269250	CWC	08/29/23	Gross Alpha/Beta	Gross Beta	4.39E-14	1.80E-14	2.37E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269251	CWC	08/30/23	Gross Alpha/Beta	Gross Alpha	4.78E-15	6.89E-15	1.13E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 15)(General Area)-Perimeter Air
SVP269251	CWC	08/30/23	Gross Alpha/Beta	Gross Beta	2.55E-14	1.69E-14	2.54E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 15)(General Area)-Perimeter Air
SVP269254	CWC	08/30/23	Gross Alpha/Beta	Gross Alpha	3.10E-15	5.51E-15	9.72E-15	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269254	CWC	08/30/23	Gross Alpha/Beta	Gross Beta	2.56E-14	1.56E-14	2.30E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269255	CWC	08/30/23	Gross Alpha/Beta	Gross Alpha	3.10E-15	5.51E-15	9.72E-15	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269255	CWC	08/30/23	Gross Alpha/Beta	Gross Beta	2.33E-14	1.54E-14	2.30E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269256	CWC	08/30/23	Gross Alpha/Beta	Gross Alpha	1.88E-15	4.94E-15	9.72E-15	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269256	CWC	08/30/23	Gross Alpha/Beta	Gross Beta	2.79E-14	1.59E-14	2.30E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269257	CWC	08/31/23	Gross Alpha/Beta	Gross Alpha	-5.01E-16	6.08E-15	1.51E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 15)(General Area)-Perimeter Air
SVP269257	CWC	08/31/23	Gross Alpha/Beta	Gross Beta	1.65E-14	2.06E-14	3.38E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 15)(General Area)-Perimeter Air
SVP269260	CWC	08/31/23	Gross Alpha/Beta	Gross Alpha	6.06E-15	7.36E-15	1.13E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air

Table C-4. SLAPS Perimeter Air Data Results for CY 2023 (Continued)

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
SVP269260	CWC	08/31/23	Gross Alpha/Beta	Gross Beta	2.47E-14	1.68E-14	2.54E-14	µCi/mL	UJ	T04, T05	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269261	CWC	08/31/23	Gross Alpha/Beta	Gross Alpha	4.78E-15	6.89E-15	1.13E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269261	CWC	08/31/23	Gross Alpha/Beta	Gross Beta	1.81E-14	1.61E-14	2.54E-14	µCi/mL	UJ	T04, T05	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269262	CWC	08/31/23	Gross Alpha/Beta	Gross Alpha	2.20E-15	5.84E-15	1.13E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269262	CWC	08/31/23	Gross Alpha/Beta	Gross Beta	2.30E-14	1.66E-14	2.54E-14	µCi/mL	UJ	T04, T05	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269263	CWC	09/05/23	Gross Alpha/Beta	Gross Alpha	2.20E-15	5.84E-15	1.13E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 15)(General Area)-Perimeter Air
SVP269263	CWC	09/05/23	Gross Alpha/Beta	Gross Beta	1.73E-14	1.60E-14	2.54E-14	µCi/mL	UJ	T04, T05	Coldwater Creek (Group 15)(General Area)-Perimeter Air
SVP269265	CWC	09/05/23	Gross Alpha/Beta	Gross Alpha	4.88E-15	7.04E-15	1.16E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269265	CWC	09/05/23	Gross Alpha/Beta	Gross Beta	2.43E-14	1.71E-14	2.59E-14	µCi/mL	UJ	T04, T05	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269266	CWC	09/05/23	Gross Alpha/Beta	Gross Alpha	2.25E-15	5.97E-15	1.16E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269266	CWC	09/05/23	Gross Alpha/Beta	Gross Beta	2.10E-14	1.67E-14	2.59E-14	µCi/mL	UJ	T04, T05	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269267	CWC	09/05/23	Gross Alpha/Beta	Gross Alpha	9.32E-16	5.35E-15	1.16E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269267	CWC	09/05/23	Gross Alpha/Beta	Gross Beta	4.28E-15	1.49E-14	2.59E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269268	CWC	09/06/23	Gross Alpha/Beta	Gross Alpha	3.49E-15	6.39E-15	1.13E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 15)(General Area)-Perimeter Air
SVP269268	CWC	09/06/23	Gross Alpha/Beta	Gross Beta	1.48E-14	1.57E-14	2.54E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 15)(General Area)-Perimeter Air
SVP269275	CWC	09/06/23	Gross Alpha/Beta	Gross Alpha	5.20E-16	4.40E-15	1.01E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269275	CWC	09/06/23	Gross Alpha/Beta	Gross Beta	2.84E-14	1.68E-14	2.46E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269276	CWC	09/06/23	Gross Alpha/Beta	Gross Alpha	5.52E-15	6.67E-15	1.01E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269276	CWC	09/06/23	Gross Alpha/Beta	Gross Beta	8.60E-15	1.46E-14	2.46E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269277	CWC	09/06/23	Gross Alpha/Beta	Gross Alpha	5.52E-15	6.67E-15	1.01E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269277	CWC	09/06/23	Gross Alpha/Beta	Gross Beta	1.50E-14	1.53E-14	2.46E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269270	CWC	09/07/23	Gross Alpha/Beta	Gross Alpha	5.69E-15	6.88E-15	1.04E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 15)(General Area)-Perimeter Air
SVP269270	CWC	09/07/23	Gross Alpha/Beta	Gross Beta	1.79E-14	1.61E-14	2.54E-14	µCi/mL	UJ	T04, T05	Coldwater Creek (Group 15)(General Area)-Perimeter Air
SVP269272	CWC	09/07/23	Gross Alpha/Beta	Gross Alpha	1.07E-14	9.18E-15	1.17E-14	µCi/mL	UJ	T04, T05	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269272	CWC	09/07/23	Gross Alpha/Beta	Gross Beta	3.00E-14	1.90E-14	2.84E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269273	CWC	09/07/23	Gross Alpha/Beta	Gross Alpha	6.70E-15	7.06E-15	1.00E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269273	CWC	09/07/23	Gross Alpha/Beta	Gross Beta	4.23E-14	1.81E-14	2.44E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269274	CWC	09/07/23	Gross Alpha/Beta	Gross Alpha	2.99E-15	5.59E-15	1.00E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269274	CWC	09/07/23	Gross Alpha/Beta	Gross Beta	2.97E-14	1.68E-14	2.44E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269278	CWC	09/11/23	Gross Alpha/Beta	Gross Alpha	1.83E-15	5.22E-15	1.04E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269278	CWC	09/11/23	Gross Alpha/Beta	Gross Beta	4.98E-14	1.94E-14	2.54E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269279	CWC	09/11/23	Gross Alpha/Beta	Gross Alpha	3.11E-15	5.83E-15	1.04E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269279	CWC	09/11/23	Gross Alpha/Beta	Gross Beta	4.08E-14	1.85E-14	2.54E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269280	CWC	09/11/23	Gross Alpha/Beta	Gross Alpha	8.27E-15	7.80E-15	1.04E-14	µCi/mL	UJ	T04, T05	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269280	CWC	09/11/23	Gross Alpha/Beta	Gross Beta	2.36E-14	1.67E-14	2.54E-14	µCi/mL	UJ	T04, T05	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269282	CWC	09/12/23	Gross Alpha/Beta	Gross Alpha	4.27E-15	6.18E-15	1.01E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269282	CWC	09/12/23	Gross Alpha/Beta	Gross Beta	1.89E-14	1.58E-14	2.46E-14	µCi/mL	UJ	T04, T05	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269283	CWC	09/12/23	Gross Alpha/Beta	Gross Alpha	4.27E-15	6.18E-15	1.01E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269283	CWC	09/12/23	Gross Alpha/Beta	Gross Beta	3.56E-14	1.75E-14	2.46E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269284	CWC	09/12/23	Gross Alpha/Beta	Gross Alpha	8.01E-15	7.56E-15	1.01E-14	µCi/mL	UJ	T04, T05	Coldwater Creek (Group 24)(General Area)-Perimeter Air

Table C-4. SLAPS Perimeter Air Data Results for CY 2023 (Continued)

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
SVP269284	CWC	09/12/23	Gross Alpha/Beta	Gross Beta	2.69E-14	1.66E-14	2.46E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269287	CWC	09/13/23	Gross Alpha/Beta	Gross Alpha	2.93E-14	1.30E-14	1.01E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269287	CWC	09/13/23	Gross Alpha/Beta	Gross Beta	6.57E-14	2.05E-14	2.46E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269288	CWC	09/13/23	Gross Alpha/Beta	Gross Alpha	1.80E-14	1.04E-14	1.01E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269288	CWC	09/13/23	Gross Alpha/Beta	Gross Beta	3.24E-14	1.72E-14	2.46E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269289	CWC	09/13/23	Gross Alpha/Beta	Gross Alpha	3.02E-15	5.65E-15	1.01E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269289	CWC	09/13/23	Gross Alpha/Beta	Gross Beta	4.35E-14	1.83E-14	2.46E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269291	CWC	09/14/23	Gross Alpha/Beta	Gross Alpha	7.84E-15	7.80E-15	1.09E-14	µCi/mL	UJ	T04, T05	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269291	CWC	09/14/23	Gross Alpha/Beta	Gross Beta	3.51E-14	1.80E-14	2.56E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269292	CWC	09/14/23	Gross Alpha/Beta	Gross Alpha	9.12E-15	8.22E-15	1.09E-14	µCi/mL	UJ	T04, T05	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269292	CWC	09/14/23	Gross Alpha/Beta	Gross Beta	4.98E-14	1.95E-14	2.56E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269293	CWC	09/14/23	Gross Alpha/Beta	Gross Alpha	1.40E-15	5.23E-15	1.09E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269293	CWC	09/14/23	Gross Alpha/Beta	Gross Beta	5.06E-14	1.95E-14	2.56E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269297	CWC	09/18/23	Gross Alpha/Beta	Gross Alpha	1.40E-15	5.23E-15	1.09E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269297	CWC	09/18/23	Gross Alpha/Beta	Gross Beta	4.16E-14	1.86E-14	2.56E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269298	CWC	09/18/23	Gross Alpha/Beta	Gross Alpha	1.40E-15	5.23E-15	1.09E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269298	CWC	09/18/23	Gross Alpha/Beta	Gross Beta	2.45E-14	1.69E-14	2.56E-14	µCi/mL	UJ	T04, T05	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269299	CWC	09/18/23	Gross Alpha/Beta	Gross Alpha	2.68E-15	5.83E-15	1.09E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269299	CWC	09/18/23	Gross Alpha/Beta	Gross Beta	2.94E-14	1.74E-14	2.56E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269300	CWC	09/19/23	Gross Alpha/Beta	Gross Alpha	6.35E-15	7.14E-15	1.05E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269300	CWC	09/19/23	Gross Alpha/Beta	Gross Beta	5.31E-14	1.93E-14	2.48E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269301	CWC	09/19/23	Gross Alpha/Beta	Gross Alpha	6.35E-15	7.14E-15	1.05E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269301	CWC	09/19/23	Gross Alpha/Beta	Gross Beta	4.51E-14	1.86E-14	2.48E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269302	CWC	09/19/23	Gross Alpha/Beta	Gross Alpha	1.51E-14	9.78E-15	1.05E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269302	CWC	09/19/23	Gross Alpha/Beta	Gross Beta	6.10E-14	2.01E-14	2.48E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269307	CWC	09/20/23	Gross Alpha/Beta	Gross Alpha	1.02E-16	4.33E-15	1.03E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269307	CWC	09/20/23	Gross Alpha/Beta	Gross Beta	5.28E-14	1.90E-14	2.43E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269308	CWC	09/20/23	Gross Alpha/Beta	Gross Alpha	1.11E-14	8.57E-15	1.03E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269308	CWC	09/20/23	Gross Alpha/Beta	Gross Beta	5.51E-14	1.93E-14	2.43E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269309	CWC	09/20/23	Gross Alpha/Beta	Gross Alpha	2.55E-15	5.54E-15	1.03E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269309	CWC	09/20/23	Gross Alpha/Beta	Gross Beta	4.89E-14	1.87E-14	2.43E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269310	CWC	09/21/23	Gross Alpha/Beta	Gross Alpha	6.21E-15	6.75E-15	9.24E-15	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269310	CWC	09/21/23	Gross Alpha/Beta	Gross Beta	5.56E-14	1.76E-14	1.91E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269311	CWC	09/21/23	Gross Alpha/Beta	Gross Alpha	1.03E-14	8.27E-15	9.24E-15	µCi/mL	J	T04, T20	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269311	CWC	09/21/23	Gross Alpha/Beta	Gross Beta	7.31E-14	1.95E-14	1.91E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269314	CWC	09/25/23	Gross Alpha/Beta	Gross Alpha	1.52E-14	1.01E-14	9.74E-15	µCi/mL	J	T04, T20	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269314	CWC	09/25/23	Gross Alpha/Beta	Gross Beta	6.38E-14	1.91E-14	2.02E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269315	CWC	09/25/23	Gross Alpha/Beta	Gross Alpha	1.09E-14	8.71E-15	9.74E-15	µCi/mL	J	T04, T20	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269315	CWC	09/25/23	Gross Alpha/Beta	Gross Beta	6.21E-14	1.89E-14	2.02E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269320	CWC	09/26/23	Gross Alpha/Beta	Gross Alpha	9.13E-15	7.96E-15	9.44E-15	µCi/mL	UJ	T04, T05	Coldwater Creek (Group 24)(General Area)-Perimeter Air

Table C-4. SLAPS Perimeter Air Data Results for CY 2023 (Continued)

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
SVP269320	CWC	09/26/23	Gross Alpha/Beta	Gross Beta	5.59E-14	1.78E-14	1.95E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269321	CWC	09/26/23	Gross Alpha/Beta	Gross Alpha	2.15E-15	4.89E-15	9.44E-15	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269321	CWC	09/26/23	Gross Alpha/Beta	Gross Beta	4.82E-14	1.70E-14	1.95E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269323	CWC	09/27/23	Gross Alpha/Beta	Gross Alpha	8.34E-16	4.42E-15	1.04E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269323	CWC	09/27/23	Gross Alpha/Beta	Gross Beta	4.20E-14	1.74E-14	2.16E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269324	CWC	09/27/23	Gross Alpha/Beta	Gross Alpha	8.34E-16	4.42E-15	1.04E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269324	CWC	09/27/23	Gross Alpha/Beta	Gross Beta	3.35E-14	1.63E-14	2.16E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269325	CWC	09/28/23	Gross Alpha/Beta	Gross Alpha	4.03E-15	6.38E-15	1.08E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269325	CWC	09/28/23	Gross Alpha/Beta	Gross Beta	5.70E-14	2.00E-14	2.53E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269326	CWC	09/28/23	Gross Alpha/Beta	Gross Alpha	4.03E-15	6.38E-15	1.08E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269326	CWC	09/28/23	Gross Alpha/Beta	Gross Beta	3.49E-14	1.78E-14	2.53E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269329	CWC	10/02/23	Gross Alpha/Beta	Gross Alpha	-1.13E-15	3.75E-15	1.08E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269329	CWC	10/02/23	Gross Alpha/Beta	Gross Beta	7.83E-14	2.21E-14	2.53E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269330	CWC	10/02/23	Gross Alpha/Beta	Gross Alpha	2.74E-15	5.83E-15	1.08E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269330	CWC	10/02/23	Gross Alpha/Beta	Gross Beta	6.68E-14	2.10E-14	2.53E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269333	CWC	10/03/23	Gross Alpha/Beta	Gross Alpha	1.64E-14	1.01E-14	1.05E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269333	CWC	10/03/23	Gross Alpha/Beta	Gross Beta	7.19E-14	2.10E-14	2.45E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269334	CWC	10/03/23	Gross Alpha/Beta	Gross Alpha	1.14E-14	8.74E-15	1.05E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269334	CWC	10/03/23	Gross Alpha/Beta	Gross Beta	8.14E-14	2.19E-14	2.45E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269337	CWC	10/04/23	Gross Alpha/Beta	Gross Alpha	6.40E-15	7.13E-15	1.05E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269337	CWC	10/04/23	Gross Alpha/Beta	Gross Beta	3.54E-14	1.74E-14	2.45E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269338	CWC	10/04/23	Gross Alpha/Beta	Gross Alpha	1.18E-14	9.01E-15	1.08E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269338	CWC	10/04/23	Gross Alpha/Beta	Gross Beta	4.47E-14	1.88E-14	2.53E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269341	CWC	10/09/23	Gross Alpha/Beta	Gross Alpha	5.13E-15	6.32E-15	9.69E-15	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269341	CWC	10/09/23	Gross Alpha/Beta	Gross Beta	3.01E-14	1.65E-14	2.39E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269342	CWC	10/09/23	Gross Alpha/Beta	Gross Alpha	1.58E-15	4.80E-15	9.69E-15	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269342	CWC	10/09/23	Gross Alpha/Beta	Gross Beta	2.71E-14	1.62E-14	2.39E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269345	CWC	10/10/23	Gross Alpha/Beta	Gross Alpha	4.06E-16	4.30E-15	9.98E-15	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269345	CWC	10/10/23	Gross Alpha/Beta	Gross Beta	4.49E-14	1.84E-14	2.46E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269346	CWC	10/10/23	Gross Alpha/Beta	Gross Alpha	4.06E-16	4.30E-15	9.98E-15	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269346	CWC	10/10/23	Gross Alpha/Beta	Gross Beta	2.17E-14	1.60E-14	2.46E-14	µCi/mL	UJ	T04, T05	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269347	CWC	10/11/23	Gross Alpha/Beta	Gross Alpha	-1.89E-15	3.50E-15	1.27E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 15)(General Area)-Perimeter Air
SVP269347	CWC	10/11/23	Gross Alpha/Beta	Gross Beta	2.11E-14	2.05E-14	3.26E-14	µCi/mL	UJ	T04, T05	Coldwater Creek (Group 15)(General Area)-Perimeter Air
SVP269348	CWC	10/11/23	Gross Alpha/Beta	Gross Alpha	4.62E-16	4.89E-15	1.14E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269348	CWC	10/11/23	Gross Alpha/Beta	Gross Beta	2.82E-14	1.86E-14	2.80E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269349	CWC	10/11/23	Gross Alpha/Beta	Gross Alpha	3.24E-15	6.28E-15	1.14E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269349	CWC	10/11/23	Gross Alpha/Beta	Gross Beta	6.08E-14	2.18E-14	2.80E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269352	CWC	10/12/23	Gross Alpha/Beta	Gross Alpha	1.19E-14	8.98E-15	1.02E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 15)(General Area)-Perimeter Air
SVP269352	CWC	10/12/23	Gross Alpha/Beta	Gross Beta	3.73E-14	1.85E-14	2.61E-14	µCi/mL	=		Coldwater Creek (Group 15)(General Area)-Perimeter Air
SVP269353	CWC	10/12/23	Gross Alpha/Beta	Gross Alpha	5.94E-15	6.51E-15	9.26E-15	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air

Table C-4. SLAPS Perimeter Air Data Results for CY 2023 (Continued)

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
SVP269353	CWC	10/12/23	Gross Alpha/Beta	Gross Beta	6.25E-14	1.97E-14	2.37E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269354	CWC	10/12/23	Gross Alpha/Beta	Gross Alpha	7.16E-15	6.95E-15	9.26E-15	µCi/mL	UJ	T04, T05	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269354	CWC	10/12/23	Gross Alpha/Beta	Gross Beta	5.86E-14	1.93E-14	2.37E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269359	CWC	10/16/23	Gross Alpha/Beta	Gross Alpha	2.36E-15	5.09E-15	9.55E-15	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269359	CWC	10/16/23	Gross Alpha/Beta	Gross Beta	3.57E-14	1.75E-14	2.44E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269360	CWC	10/16/23	Gross Alpha/Beta	Gross Alpha	7.39E-15	7.17E-15	9.55E-15	µCi/mL	UJ	T04, T05	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269360	CWC	10/16/23	Gross Alpha/Beta	Gross Beta	3.65E-14	1.75E-14	2.44E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269361	CWC	10/17/23	Gross Alpha/Beta	Gross Alpha	3.61E-15	5.68E-15	9.55E-15	µCi/mL	UJ	T06	Coldwater Creek (Group 12)(General Area)-Perimeter Air
SVP269361	CWC	10/17/23	Gross Alpha/Beta	Gross Beta	2.86E-14	1.67E-14	2.44E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 12)(General Area)-Perimeter Air
SVP269366	CWC	10/17/23	Gross Alpha/Beta	Gross Alpha	1.10E-15	4.42E-15	9.55E-15	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269366	CWC	10/17/23	Gross Alpha/Beta	Gross Beta	4.13E-14	1.80E-14	2.44E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269367	CWC	10/17/23	Gross Alpha/Beta	Gross Alpha	4.87E-15	6.21E-15	9.55E-15	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269367	CWC	10/17/23	Gross Alpha/Beta	Gross Beta	4.69E-14	1.86E-14	2.44E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269370	CWC	10/18/23	Gross Alpha/Beta	Gross Alpha	1.62E-14	9.84E-15	9.55E-15	µCi/mL	J	T04, T20	Coldwater Creek (Group 12)(General Area)-Perimeter Air
SVP269370	CWC	10/18/23	Gross Alpha/Beta	Gross Beta	5.49E-14	1.94E-14	2.44E-14	µCi/mL	=		Coldwater Creek (Group 12)(General Area)-Perimeter Air
SVP269373	CWC	10/18/23	Gross Alpha/Beta	Gross Alpha	2.36E-15	5.09E-15	9.55E-15	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269373	CWC	10/18/23	Gross Alpha/Beta	Gross Beta	5.73E-14	1.96E-14	2.44E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269374	CWC	10/18/23	Gross Alpha/Beta	Gross Alpha	6.13E-15	6.71E-15	9.55E-15	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269374	CWC	10/18/23	Gross Alpha/Beta	Gross Beta	6.52E-14	2.04E-14	2.44E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269379	CWC	10/19/23	Gross Alpha/Beta	Gross Alpha	3.86E-15	6.06E-15	1.02E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 12)(General Area)-Perimeter Air
SVP269379	CWC	10/19/23	Gross Alpha/Beta	Gross Beta	2.71E-14	1.75E-14	2.61E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 12)(General Area)-Perimeter Air
SVP269380	CWC	10/19/23	Gross Alpha/Beta	Gross Alpha	4.87E-15	6.21E-15	9.55E-15	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269380	CWC	10/19/23	Gross Alpha/Beta	Gross Beta	5.81E-14	1.97E-14	2.44E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269381	CWC	10/19/23	Gross Alpha/Beta	Gross Alpha	6.13E-15	6.71E-15	9.55E-15	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269381	CWC	10/19/23	Gross Alpha/Beta	Gross Beta	6.44E-14	2.03E-14	2.44E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269384	CWC	10/23/23	Gross Alpha/Beta	Gross Alpha	-2.85E-15	8.27E-16	1.02E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 12)(General Area)-Perimeter Air
SVP269384	CWC	10/23/23	Gross Alpha/Beta	Gross Beta	2.71E-14	1.75E-14	2.61E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 12)(General Area)-Perimeter Air
SVP269385	CWC	10/23/23	Gross Alpha/Beta	Gross Alpha	4.72E-15	6.03E-15	9.26E-15	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269385	CWC	10/23/23	Gross Alpha/Beta	Gross Beta	8.35E-15	1.41E-14	2.37E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269386	CWC	10/23/23	Gross Alpha/Beta	Gross Alpha	5.94E-15	6.51E-15	9.26E-15	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269386	CWC	10/23/23	Gross Alpha/Beta	Gross Beta	2.30E-14	1.57E-14	2.37E-14	µCi/mL	UJ	T04, T05	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269389	CWC	10/24/23	Gross Alpha/Beta	Gross Alpha	1.07E-15	4.29E-15	9.26E-15	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269389	CWC	10/24/23	Gross Alpha/Beta	Gross Beta	6.17E-14	1.96E-14	2.37E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269390	CWC	10/24/23	Gross Alpha/Beta	Gross Alpha	1.08E-14	8.16E-15	9.26E-15	µCi/mL	J	T04, T20	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269390	CWC	10/24/23	Gross Alpha/Beta	Gross Beta	5.78E-14	1.93E-14	2.37E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269393	CWC	10/25/23	Gross Alpha/Beta	Gross Alpha	5.38E-15	6.86E-15	1.05E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269393	CWC	10/25/23	Gross Alpha/Beta	Gross Beta	5.17E-14	2.05E-14	2.70E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269394	CWC	10/25/23	Gross Alpha/Beta	Gross Alpha	1.23E-14	9.28E-15	1.05E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269394	CWC	10/25/23	Gross Alpha/Beta	Gross Beta	6.76E-14	2.21E-14	2.70E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269395	CWC	10/26/23	Gross Alpha/Beta	Gross Alpha	-2.24E-15	2.65E-15	1.04E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air

Table C-4. SLAPS Perimeter Air Data Results for CY 2023 (Continued)

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
SVP269395	CWC	10/26/23	Gross Alpha/Beta	Gross Beta	2.54E-14	1.61E-14	2.40E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269396	CWC	10/26/23	Gross Alpha/Beta	Gross Alpha	2.76E-15	5.65E-15	1.04E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269396	CWC	10/26/23	Gross Alpha/Beta	Gross Beta	3.41E-14	1.71E-14	2.40E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269399	CWC	10/30/23	Gross Alpha/Beta	Gross Alpha	2.60E-16	4.41E-15	1.04E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269399	CWC	10/30/23	Gross Alpha/Beta	Gross Beta	1.51E-14	1.50E-14	2.40E-14	µCi/mL	UJ	T04, T05	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269400	CWC	10/30/23	Gross Alpha/Beta	Gross Alpha	5.26E-15	6.68E-15	1.04E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269400	CWC	10/30/23	Gross Alpha/Beta	Gross Beta	3.41E-14	1.71E-14	2.40E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269403	CWC	10/31/23	Gross Alpha/Beta	Gross Alpha	2.76E-15	5.65E-15	1.04E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269403	CWC	10/31/23	Gross Alpha/Beta	Gross Beta	3.57E-14	1.72E-14	2.40E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269404	CWC	10/31/23	Gross Alpha/Beta	Gross Alpha	5.26E-15	6.68E-15	1.04E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269404	CWC	10/31/23	Gross Alpha/Beta	Gross Beta	2.46E-14	1.60E-14	2.40E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269407	CWC	11/01/23	Gross Alpha/Beta	Gross Alpha	6.20E-15	7.87E-15	1.22E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 10)(General Area)-Perimeter Air
SVP269407	CWC	11/01/23	Gross Alpha/Beta	Gross Beta	3.18E-14	1.92E-14	2.82E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 10)(General Area)-Perimeter Air
SVP269410	CWC	11/01/23	Gross Alpha/Beta	Gross Alpha	-9.89E-16	3.64E-15	1.04E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269410	CWC	11/01/23	Gross Alpha/Beta	Gross Beta	2.30E-14	1.59E-14	2.40E-14	µCi/mL	UJ	T04, T05	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269411	CWC	11/01/23	Gross Alpha/Beta	Gross Alpha	1.51E-15	5.07E-15	1.04E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269411	CWC	11/01/23	Gross Alpha/Beta	Gross Beta	4.44E-14	1.81E-14	2.40E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269412	CWC	11/02/23	Gross Alpha/Beta	Gross Alpha	-1.09E-15	4.00E-15	1.14E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 10)(General Area)-Perimeter Air
SVP269412	CWC	11/02/23	Gross Alpha/Beta	Gross Beta	2.01E-14	1.69E-14	2.64E-14	µCi/mL	UJ	T04, T05	Coldwater Creek (Group 10)(General Area)-Perimeter Air
SVP269415	CWC	11/06/23	Gross Alpha/Beta	Gross Alpha	3.86E-15	6.06E-15	1.02E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 11)(General Area)-Perimeter Air
SVP269415	CWC	11/06/23	Gross Alpha/Beta	Gross Beta	-4.40E-15	1.38E-14	2.59E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 11)(General Area)-Perimeter Air
SVP269418	CWC	11/07/23	Gross Alpha/Beta	Gross Alpha	6.54E-15	7.16E-15	1.02E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 11)(General Area)-Perimeter Air
SVP269418	CWC	11/07/23	Gross Alpha/Beta	Gross Beta	7.73E-14	2.24E-14	2.59E-14	µCi/mL	=		Coldwater Creek (Group 11)(General Area)-Perimeter Air
SVP269421	CWC	11/08/23	Gross Alpha/Beta	Gross Alpha	3.86E-15	6.06E-15	1.02E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 10)(General Area)-Perimeter Air
SVP269421	CWC	11/08/23	Gross Alpha/Beta	Gross Beta	2.79E-14	1.75E-14	2.59E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 10)(General Area)-Perimeter Air
SVP269424	CWC	11/09/23	Gross Alpha/Beta	Gross Alpha	1.97E-14	1.91E-14	2.55E-14	µCi/mL	UJ	T04, T05	Coldwater Creek (Group 10)(General Area)-Perimeter Air
SVP269424	CWC	11/09/23	Gross Alpha/Beta	Gross Beta	3.58E-14	4.00E-14	6.47E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 10)(General Area)-Perimeter Air
SVP269443	CWC	11/28/23	Gross Alpha/Beta	Gross Alpha	1.61E-15	5.23E-15	1.10E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 13)(General Area)-Perimeter Air
SVP269443	CWC	11/28/23	Gross Alpha/Beta	Gross Beta	2.82E-14	1.51E-14	2.05E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 13)(General Area)-Perimeter Air
SVP269446	CWC	11/29/23	Gross Alpha/Beta	Gross Alpha	5.70E-15	6.90E-15	1.03E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 13)(General Area)-Perimeter Air
SVP269446	CWC	11/29/23	Gross Alpha/Beta	Gross Beta	4.01E-14	1.58E-14	1.92E-14	µCi/mL	=		Coldwater Creek (Group 13)(General Area)-Perimeter Air
SVP269449	CWC	11/30/23	Gross Alpha/Beta	Gross Alpha	1.15E-14	1.68E-14	2.74E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 13)(General Area)-Perimeter Air
SVP269449	CWC	11/30/23	Gross Alpha/Beta	Gross Beta	3.88E-14	3.33E-14	5.12E-14	µCi/mL	UJ	T04, T05	Coldwater Creek (Group 13)(General Area)-Perimeter Air
SVP269451	CWC	12/04/23	Gross Alpha/Beta	Gross Alpha	-3.06E-15	9.31E-16	1.17E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 13)(General Area)-Perimeter Air
SVP269451	CWC	12/04/23	Gross Alpha/Beta	Gross Beta	5.46E-14	1.92E-14	2.19E-14	µCi/mL	=		Coldwater Creek (Group 13)(General Area)-Perimeter Air
SVP269454	CWC	12/05/23	Gross Alpha/Beta	Gross Alpha	4.30E-15	6.30E-15	1.03E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 13)(General Area)-Perimeter Air
SVP269454	CWC	12/05/23	Gross Alpha/Beta	Gross Beta	5.28E-14	1.74E-14	1.92E-14	µCi/mL	=		Coldwater Creek (Group 13)(General Area)-Perimeter Air
SVP269457	CWC	12/05/23	Gross Alpha/Beta	Gross Alpha	3.44E-15	6.43E-15	1.15E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269457	CWC	12/05/23	Gross Alpha/Beta	Gross Beta	2.86E-14	1.85E-14	2.77E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269458	CWC	12/06/23	Gross Alpha/Beta	Gross Alpha	4.92E-15	7.20E-15	1.17E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 13)(General Area)-Perimeter Air

Table C-4. SLAPS Perimeter Air Data Results for CY 2023 (Continued)

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
SVP269458	CWC	12/06/23	Gross Alpha/Beta	Gross Beta	3.70E-14	1.70E-14	2.19E-14	µCi/mL	=		Coldwater Creek (Group 13)(General Area)-Perimeter Air
SVP269461	CWC	12/06/23	Gross Alpha/Beta	Gross Alpha	7.78E-15	7.34E-15	9.82E-15	µCi/mL	UJ	T04, T05	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269461	CWC	12/06/23	Gross Alpha/Beta	Gross Beta	9.68E-14	2.29E-14	2.36E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269462	CWC	12/07/23	Gross Alpha/Beta	Gross Alpha	1.86E-15	6.03E-15	1.26E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 13)(General Area)-Perimeter Air
SVP269462	CWC	12/07/23	Gross Alpha/Beta	Gross Beta	3.26E-14	1.74E-14	2.36E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 13)(General Area)-Perimeter Air
SVP269465	CWC	12/07/23	Gross Alpha/Beta	Gross Alpha	6.57E-15	6.92E-15	9.82E-15	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269465	CWC	12/07/23	Gross Alpha/Beta	Gross Beta	4.37E-14	1.78E-14	2.36E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269466	CWC	12/07/23	Gross Alpha/Beta	Gross Alpha	4.14E-15	6.00E-15	9.82E-15	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269466	CWC	12/07/23	Gross Alpha/Beta	Gross Beta	4.98E-14	1.84E-14	2.36E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269467	CWC	12/08/23	Gross Alpha/Beta	Gross Alpha	6.50E-15	7.86E-15	1.19E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269467	CWC	12/08/23	Gross Alpha/Beta	Gross Beta	2.97E-14	1.92E-14	2.87E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269468	CWC	12/08/23	Gross Alpha/Beta	Gross Alpha	2.93E-15	5.48E-15	9.82E-15	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269468	CWC	12/08/23	Gross Alpha/Beta	Gross Beta	5.68E-14	1.91E-14	2.36E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269469	CWC	12/11/23	Gross Alpha/Beta	Gross Alpha	-1.37E-15	3.10E-15	1.10E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 13)(General Area)-Perimeter Air
SVP269469	CWC	12/11/23	Gross Alpha/Beta	Gross Beta	1.73E-14	1.36E-14	2.05E-14	µCi/mL	UJ	T04, T05	Coldwater Creek (Group 13)(General Area)-Perimeter Air
SVP269470	CWC	12/11/23	Gross Alpha/Beta	Gross Alpha	4.23E-15	6.12E-15	1.00E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269470	CWC	12/11/23	Gross Alpha/Beta	Gross Beta	9.20E-15	1.44E-14	2.41E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269471	CWC	12/11/23	Gross Alpha/Beta	Gross Alpha	2.99E-15	5.59E-15	1.00E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269471	CWC	12/11/23	Gross Alpha/Beta	Gross Beta	2.91E-15	1.37E-14	2.41E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269474	CWC	12/12/23	Gross Alpha/Beta	Gross Alpha	3.46E-15	1.12E-14	2.35E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 13)(General Area)-Perimeter Air
SVP269474	CWC	12/12/23	Gross Alpha/Beta	Gross Beta	7.80E-14	3.45E-14	4.39E-14	µCi/mL	=		Coldwater Creek (Group 13)(General Area)-Perimeter Air
SVP269477	CWC	12/12/23	Gross Alpha/Beta	Gross Alpha	-7.29E-16	3.63E-15	1.01E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269477	CWC	12/12/23	Gross Alpha/Beta	Gross Beta	5.77E-14	1.96E-14	2.43E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269478	CWC	12/12/23	Gross Alpha/Beta	Gross Alpha	8.01E-15	7.56E-15	1.01E-14	µCi/mL	UJ	T04, T05	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269478	CWC	12/12/23	Gross Alpha/Beta	Gross Beta	2.99E-14	1.68E-14	2.43E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP272613	CWC	12/13/23	Gross Alpha/Beta	Gross Alpha	3.02E-15	5.65E-15	1.01E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP272613	CWC	12/13/23	Gross Alpha/Beta	Gross Beta	4.42E-14	1.83E-14	2.43E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP272614	CWC	12/13/23	Gross Alpha/Beta	Gross Alpha	3.02E-15	5.65E-15	1.01E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP272614	CWC	12/13/23	Gross Alpha/Beta	Gross Beta	4.18E-14	1.80E-14	2.43E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP272617	CWC	12/14/23	Gross Alpha/Beta	Gross Alpha	-1.52E-16	3.52E-15	9.26E-15	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP272617	CWC	12/14/23	Gross Alpha/Beta	Gross Beta	4.91E-14	1.82E-14	2.33E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP272618	CWC	12/14/23	Gross Alpha/Beta	Gross Alpha	1.07E-15	4.29E-15	9.26E-15	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP272618	CWC	12/14/23	Gross Alpha/Beta	Gross Beta	4.21E-14	1.75E-14	2.33E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP272619	CWC	12/15/23	Gross Alpha/Beta	Gross Alpha	4.77E-15	6.09E-15	9.36E-15	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP272619	CWC	12/15/23	Gross Alpha/Beta	Gross Beta	3.79E-14	1.72E-14	2.35E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP272620	CWC	12/15/23	Gross Alpha/Beta	Gross Alpha	-1.54E-16	3.56E-15	9.36E-15	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP272620	CWC	12/15/23	Gross Alpha/Beta	Gross Beta	3.86E-14	1.73E-14	2.35E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP272623	CWC	12/18/23	Gross Alpha/Beta	Gross Alpha	6.00E-15	6.57E-15	9.36E-15	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP272623	CWC	12/18/23	Gross Alpha/Beta	Gross Beta	1.13E-14	1.43E-14	2.35E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP272624	CWC	12/18/23	Gross Alpha/Beta	Gross Alpha	2.31E-15	4.98E-15	9.36E-15	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air

Table C-4. SLAPS Perimeter Air Data Results for CY 2023 (Continued)

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
SVP272624	CWC	12/18/23	Gross Alpha/Beta	Gross Beta	1.91E-14	1.52E-14	2.35E-14	µCi/mL	UJ	T04, T05	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP272627	CWC	12/19/23	Gross Alpha/Beta	Gross Alpha	1.06E-15	4.24E-15	9.17E-15	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP272627	CWC	12/19/23	Gross Alpha/Beta	Gross Beta	3.56E-14	1.67E-14	2.30E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP272628	CWC	12/19/23	Gross Alpha/Beta	Gross Alpha	2.26E-15	4.88E-15	9.17E-15	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP272628	CWC	12/19/23	Gross Alpha/Beta	Gross Beta	4.17E-14	1.73E-14	2.30E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP272631	CWC	12/20/23	Gross Alpha/Beta	Gross Alpha	3.54E-15	5.56E-15	9.36E-15	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP272631	CWC	12/20/23	Gross Alpha/Beta	Gross Beta	4.18E-14	1.76E-14	2.35E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP272632	CWC	12/20/23	Gross Alpha/Beta	Gross Alpha	-1.54E-16	3.56E-15	9.36E-15	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP272632	CWC	12/20/23	Gross Alpha/Beta	Gross Beta	2.77E-14	1.61E-14	2.35E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP272633	CWC	12/21/23	Gross Alpha/Beta	Gross Alpha	1.47E-15	5.89E-15	1.27E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP272633	CWC	12/21/23	Gross Alpha/Beta	Gross Beta	5.47E-14	2.37E-14	3.20E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP272634	CWC	12/21/23	Gross Alpha/Beta	Gross Alpha	-2.09E-16	4.84E-15	1.27E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP272634	CWC	12/21/23	Gross Alpha/Beta	Gross Beta	4.30E-14	2.25E-14	3.20E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP272639	CWC	12/26/23	Gross Alpha/Beta	Gross Alpha	1.79E-15	7.19E-15	1.56E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP272639	CWC	12/26/23	Gross Alpha/Beta	Gross Beta	3.30E-14	2.54E-14	3.91E-14	µCi/mL	UJ	T04, T05	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP272640	CWC	12/26/23	Gross Alpha/Beta	Gross Alpha	3.84E-15	8.28E-15	1.56E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP272640	CWC	12/26/23	Gross Alpha/Beta	Gross Beta	3.95E-14	2.61E-14	3.91E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP272643	CWC	12/27/23	Gross Alpha/Beta	Gross Alpha	2.78E-15	1.12E-14	2.41E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP272643	CWC	12/27/23	Gross Alpha/Beta	Gross Beta	4.73E-14	3.90E-14	6.06E-14	µCi/mL	UJ	T04, T05	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP272644	CWC	12/27/23	Gross Alpha/Beta	Gross Alpha	-3.57E-15	6.63E-15	2.41E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP272644	CWC	12/27/23	Gross Alpha/Beta	Gross Beta	6.54E-14	4.10E-14	6.06E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP272645	CWC	12/28/23	Gross Alpha/Beta	Gross Alpha	1.86E-15	4.60E-15	9.09E-15	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP272645	CWC	12/28/23	Gross Alpha/Beta	Gross Beta	2.64E-14	1.74E-14	2.62E-14	µCi/mL	J	T04, T20	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP272646	CWC	12/28/23	Gross Alpha/Beta	Gross Alpha	1.86E-15	4.60E-15	9.09E-15	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP272646	CWC	12/28/23	Gross Alpha/Beta	Gross Beta	1.39E-14	1.61E-14	2.62E-14	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP272649	CWC	12/30/23	Gross Alpha/Beta	Gross Alpha	4.30E-15	5.67E-15	8.71E-15	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP272649	CWC	12/30/23	Gross Alpha/Beta	Gross Beta	5.08E-14	1.93E-14	2.51E-14	µCi/mL	=		Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP272650	CWC	12/30/23	Gross Alpha/Beta	Gross Alpha	3.04E-15	5.07E-15	8.71E-15	µCi/mL	UJ	T06	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP272650	CWC	12/30/23	Gross Alpha/Beta	Gross Beta	3.41E-14	1.760E-014	2.508E-014	µCi/mL	J	T04, T20	Coldwater Creek (Group 24)(General Area)-Perimeter Air
SVP269362	MCDONNELL BLVD	10/17/23	Gross Alpha/Beta	Gross Alpha	1.23E-14	1.34E-14	1.91E-14	µCi/mL	UJ	T06	McDonnell Blvd. (General Area)-Perimeter Air
SVP269362	MCDONNELL BLVD	10/17/23	Gross Alpha/Beta	Gross Beta	4.59E-14	3.22E-14	4.89E-14	µCi/mL	UJ	T04, T05	McDonnell Blvd. (General Area)-Perimeter Air
SVP269363	MCDONNELL BLVD	10/17/23	Gross Alpha/Beta	Gross Alpha	1.29E-14	2.02E-14	3.40E-14	µCi/mL	UJ	T06	McDonnell Blvd. (General Area)-Perimeter Air
SVP269363	MCDONNELL BLVD	10/17/23	Gross Alpha/Beta	Gross Beta	8.17E-14	5.73E-14	8.69E-14	µCi/mL	UJ	T04, T05	McDonnell Blvd. (General Area)-Perimeter Air
SVP269368	MCDONNELL BLVD	10/18/23	Gross Alpha/Beta	Gross Alpha	1.82E-14	1.37E-14	1.56E-14	µCi/mL	J	T04, T20	McDonnell Blvd. (General Area)-Perimeter Air
SVP269368	MCDONNELL BLVD	10/18/23	Gross Alpha/Beta	Gross Beta	6.98E-14	2.96E-14	3.98E-14	µCi/mL	=		McDonnell Blvd. (General Area)-Perimeter Air
SVP269369	MCDONNELL BLVD	10/18/23	Gross Alpha/Beta	Gross Alpha	7.93E-15	1.01E-14	1.56E-14	µCi/mL	UJ	T06	McDonnell Blvd. (General Area)-Perimeter Air
SVP269369	MCDONNELL BLVD	10/18/23	Gross Alpha/Beta	Gross Beta	4.26E-14	2.68E-14	3.98E-14	µCi/mL	J	T04, T20	McDonnell Blvd. (General Area)-Perimeter Air
SVP269377	MCDONNELL BLVD	10/19/23	Gross Alpha/Beta	Gross Alpha	3.97E-15	8.57E-15	1.61E-14	µCi/mL	UJ	T06	McDonnell Blvd. (General Area)-Perimeter Air
SVP269377	MCDONNELL BLVD	10/19/23	Gross Alpha/Beta	Gross Beta	5.88E-14	2.93E-14	4.12E-14	µCi/mL	=		McDonnell Blvd. (General Area)-Perimeter Air
SVP269378	MCDONNELL BLVD	10/19/23	Gross Alpha/Beta	Gross Alpha	1.36E-14	1.10E-14	1.31E-14	µCi/mL	J	T04, T20	McDonnell Blvd. (General Area)-Perimeter Air

Table C-4. SLAPS Perimeter Air Data Results for CY 2023 (Continued)

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
SVP269378	MCDONNELL BLVD	10/19/23	Gross Alpha/Beta	Gross Beta	3.70E-14	2.27E-14	3.35E-14	µCi/mL	J	T04, T20	McDonnell Blvd. (General Area)-Perimeter Air
SVP269382	MCDONNELL BLVD	10/23/23	Gross Alpha/Beta	Gross Alpha	1.68E-15	6.73E-15	1.46E-14	µCi/mL	UJ	T06	McDonnell Blvd. (General Area)-Perimeter Air
SVP269382	MCDONNELL BLVD	10/23/23	Gross Alpha/Beta	Gross Beta	3.99E-14	2.51E-14	3.72E-14	µCi/mL	J	T04, T20	McDonnell Blvd. (General Area)-Perimeter Air
SVP269383	MCDONNELL BLVD	10/23/23	Gross Alpha/Beta	Gross Alpha	1.51E-14	1.47E-14	1.95E-14	µCi/mL	UJ	T04, T05	McDonnell Blvd. (General Area)-Perimeter Air
SVP269383	MCDONNELL BLVD	10/23/23	Gross Alpha/Beta	Gross Beta	2.90E-14	3.10E-14	4.99E-14	µCi/mL	UJ	T06	McDonnell Blvd. (General Area)-Perimeter Air
SVP265218	PERSHALL RD.	01/04/23	Gross Alpha/Beta	Gross Alpha	-9.03E-16	3.50E-15	9.97E-15	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265218	PERSHALL RD.	01/04/23	Gross Alpha/Beta	Gross Beta	1.80E-14	1.52E-14	2.37E-14	µCi/mL	UJ	T04, T05	Pershall Road (General Area)-Perimeter Air
SVP265219	PERSHALL RD.	01/04/23	Gross Alpha/Beta	Gross Alpha	-9.03E-16	3.50E-15	9.97E-15	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265219	PERSHALL RD.	01/04/23	Gross Alpha/Beta	Gross Beta	3.35E-14	1.68E-14	2.37E-14	µCi/mL	J	T04, T20	Pershall Road (General Area)-Perimeter Air
SVP265220	PERSHALL RD.	01/05/23	Gross Alpha/Beta	Gross Alpha	1.51E-15	4.89E-15	9.97E-15	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265220	PERSHALL RD.	01/05/23	Gross Alpha/Beta	Gross Beta	2.57E-14	1.60E-14	2.37E-14	µCi/mL	J	T04, T20	Pershall Road (General Area)-Perimeter Air
SVP265221	PERSHALL RD.	01/05/23	Gross Alpha/Beta	Gross Alpha	1.51E-15	4.89E-15	9.97E-15	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265221	PERSHALL RD.	01/05/23	Gross Alpha/Beta	Gross Beta	3.27E-14	1.67E-14	2.37E-14	µCi/mL	J	T04, T20	Pershall Road (General Area)-Perimeter Air
SVP265222	PERSHALL RD.	01/09/23	Gross Alpha/Beta	Gross Alpha	2.95E-16	4.17E-15	9.77E-15	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265222	PERSHALL RD.	01/09/23	Gross Alpha/Beta	Gross Beta	5.03E-14	1.82E-14	2.32E-14	µCi/mL	=		Pershall Road (General Area)-Perimeter Air
SVP265223	PERSHALL RD.	01/09/23	Gross Alpha/Beta	Gross Alpha	5.02E-15	6.31E-15	9.77E-15	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265223	PERSHALL RD.	01/09/23	Gross Alpha/Beta	Gross Beta	3.74E-14	1.69E-14	2.32E-14	µCi/mL	=		Pershall Road (General Area)-Perimeter Air
SVP265224	PERSHALL RD.	01/10/23	Gross Alpha/Beta	Gross Alpha	7.38E-15	7.15E-15	9.77E-15	µCi/mL	UJ	T04, T05	Pershall Road (General Area)-Perimeter Air
SVP265224	PERSHALL RD.	01/10/23	Gross Alpha/Beta	Gross Beta	5.94E-14	1.91E-14	2.32E-14	µCi/mL	=		Pershall Road (General Area)-Perimeter Air
SVP265225	PERSHALL RD.	01/10/23	Gross Alpha/Beta	Gross Alpha	7.38E-15	7.15E-15	9.77E-15	µCi/mL	UJ	T04, T05	Pershall Road (General Area)-Perimeter Air
SVP265225	PERSHALL RD.	01/10/23	Gross Alpha/Beta	Gross Beta	5.79E-14	1.90E-14	2.32E-14	µCi/mL	=		Pershall Road (General Area)-Perimeter Air
SVP265226	PERSHALL RD.	01/11/23	Gross Alpha/Beta	Gross Alpha	5.32E-15	8.11E-15	1.36E-14	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265226	PERSHALL RD.	01/11/23	Gross Alpha/Beta	Gross Beta	4.97E-14	2.33E-14	3.22E-14	µCi/mL	=		Pershall Road (General Area)-Perimeter Air
SVP265227	PERSHALL RD.	01/11/23	Gross Alpha/Beta	Gross Alpha	3.69E-15	7.41E-15	1.36E-14	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265227	PERSHALL RD.	01/11/23	Gross Alpha/Beta	Gross Beta	5.29E-14	2.36E-14	3.22E-14	µCi/mL	=		Pershall Road (General Area)-Perimeter Air
SVP265228	PERSHALL RD.	01/12/23	Gross Alpha/Beta	Gross Alpha	1.59E-14	1.07E-14	1.17E-14	µCi/mL	J	T04, T20	Pershall Road (General Area)-Perimeter Air
SVP265228	PERSHALL RD.	01/12/23	Gross Alpha/Beta	Gross Beta	9.65E-14	2.53E-14	2.78E-14	µCi/mL	=		Pershall Road (General Area)-Perimeter Air
SVP265229	PERSHALL RD.	01/12/23	Gross Alpha/Beta	Gross Alpha	1.17E-14	9.46E-15	1.17E-14	µCi/mL	UJ	T04, T05	Pershall Road (General Area)-Perimeter Air
SVP265229	PERSHALL RD.	01/12/23	Gross Alpha/Beta	Gross Beta	8.19E-14	2.39E-14	2.78E-14	µCi/mL	=		Pershall Road (General Area)-Perimeter Air
SVP265230	PERSHALL RD.	01/17/23	Gross Alpha/Beta	Gross Alpha	2.68E-15	5.40E-15	9.87E-15	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265230	PERSHALL RD.	01/17/23	Gross Alpha/Beta	Gross Beta	5.62E-14	1.90E-14	2.34E-14	µCi/mL	=		Pershall Road (General Area)-Perimeter Air
SVP265231	PERSHALL RD.	01/17/23	Gross Alpha/Beta	Gross Alpha	9.74E-15	7.91E-15	9.77E-15	µCi/mL	UJ	T04, T05	Pershall Road (General Area)-Perimeter Air
SVP265231	PERSHALL RD.	01/17/23	Gross Alpha/Beta	Gross Beta	6.02E-14	1.92E-14	2.32E-14	µCi/mL	=		Pershall Road (General Area)-Perimeter Air
SVP265232	PERSHALL RD.	01/19/23	Gross Alpha/Beta	Gross Alpha	-1.36E-15	2.52E-15	9.15E-15	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265232	PERSHALL RD.	01/19/23	Gross Alpha/Beta	Gross Beta	1.77E-14	1.52E-14	2.39E-14	µCi/mL	UJ	T04, T05	Pershall Road (General Area)-Perimeter Air
SVP265233	PERSHALL RD.	01/19/23	Gross Alpha/Beta	Gross Alpha	-1.51E-16	3.48E-15	9.15E-15	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265233	PERSHALL RD.	01/19/23	Gross Alpha/Beta	Gross Beta	1.93E-14	1.54E-14	2.39E-14	µCi/mL	UJ	T04, T05	Pershall Road (General Area)-Perimeter Air
SVP265234	PERSHALL RD.	01/23/23	Gross Alpha/Beta	Gross Alpha	1.05E-15	4.23E-15	9.15E-15	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265234	PERSHALL RD.	01/23/23	Gross Alpha/Beta	Gross Beta	5.65E-14	1.92E-14	2.39E-14	µCi/mL	=		Pershall Road (General Area)-Perimeter Air
SVP265235	PERSHALL RD.	01/23/23	Gross Alpha/Beta	Gross Alpha	2.26E-15	4.87E-15	9.15E-15	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air

Table C-4. SLAPS Perimeter Air Data Results for CY 2023 (Continued)

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
SVP265235	PERSHALL RD.	01/23/23	Gross Alpha/Beta	Gross Beta	4.64E-14	1.82E-14	2.39E-14	µCi/mL	=		Pershall Road (General Area)-Perimeter Air
SVP265236	PERSHALL RD.	01/23/23	Gross Alpha/Beta	Gross Alpha	5.06E-15	6.46E-15	9.93E-15	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265236	PERSHALL RD.	01/23/23	Gross Alpha/Beta	Gross Beta	5.20E-14	1.99E-14	2.59E-14	µCi/mL	=		Pershall Road (General Area)-Perimeter Air
SVP265237	PERSHALL RD.	01/24/23	Gross Alpha/Beta	Gross Alpha	1.12E-15	4.50E-15	9.73E-15	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265237	PERSHALL RD.	01/24/23	Gross Alpha/Beta	Gross Beta	5.09E-14	1.95E-14	2.54E-14	µCi/mL	=		Pershall Road (General Area)-Perimeter Air
SVP265238	PERSHALL RD.	01/24/23	Gross Alpha/Beta	Gross Alpha	2.65E-15	5.71E-15	1.07E-14	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265238	PERSHALL RD.	01/24/23	Gross Alpha/Beta	Gross Beta	4.98E-14	2.09E-14	2.80E-14	µCi/mL	=		Pershall Road (General Area)-Perimeter Air
SVP265239	PERSHALL RD.	01/24/23	Gross Alpha/Beta	Gross Alpha	7.52E-15	7.30E-15	9.73E-15	µCi/mL	UJ	T04, T05	Pershall Road (General Area)-Perimeter Air
SVP265239	PERSHALL RD.	01/24/23	Gross Alpha/Beta	Gross Beta	4.93E-14	1.93E-14	2.54E-14	µCi/mL	=		Pershall Road (General Area)-Perimeter Air
SVP265240	PERSHALL RD.	01/26/23	Gross Alpha/Beta	Gross Alpha	3.53E-15	5.55E-15	9.34E-15	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265240	PERSHALL RD.	01/26/23	Gross Alpha/Beta	Gross Beta	2.99E-14	1.68E-14	2.44E-14	µCi/mL	J	T04, T20	Pershall Road (General Area)-Perimeter Air
SVP265241	PERSHALL RD.	01/26/23	Gross Alpha/Beta	Gross Alpha	3.46E-15	5.44E-15	9.15E-15	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265241	PERSHALL RD.	01/26/23	Gross Alpha/Beta	Gross Beta	2.70E-14	1.62E-14	2.39E-14	µCi/mL	J	T04, T20	Pershall Road (General Area)-Perimeter Air
SVP265242	PERSHALL RD.	01/26/23	Gross Alpha/Beta	Gross Alpha	-1.51E-16	3.48E-15	9.15E-15	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265242	PERSHALL RD.	01/26/23	Gross Alpha/Beta	Gross Beta	2.93E-14	1.65E-14	2.39E-14	µCi/mL	J	T04, T20	Pershall Road (General Area)-Perimeter Air
SVP265243	PERSHALL RD.	01/31/23	Gross Alpha/Beta	Gross Alpha	2.26E-15	4.87E-15	9.15E-15	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265243	PERSHALL RD.	01/31/23	Gross Alpha/Beta	Gross Beta	4.72E-14	1.83E-14	2.39E-14	µCi/mL	=		Pershall Road (General Area)-Perimeter Air
SVP265244	PERSHALL RD.	01/31/23	Gross Alpha/Beta	Gross Alpha	9.48E-15	7.68E-15	9.15E-15	µCi/mL	J	T04, T20	Pershall Road (General Area)-Perimeter Air
SVP265244	PERSHALL RD.	01/31/23	Gross Alpha/Beta	Gross Beta	3.32E-14	1.69E-14	2.39E-14	µCi/mL	J	T04, T20	Pershall Road (General Area)-Perimeter Air
SVP265245	PERSHALL RD.	01/31/23	Gross Alpha/Beta	Gross Alpha	9.29E-15	2.55E-14	5.35E-14	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265245	PERSHALL RD.	01/31/23	Gross Alpha/Beta	Gross Beta	-2.43E-16	7.25E-14	1.35E-13	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265274	PERSHALL RD.	02/01/23	Gross Alpha/Beta	Gross Alpha	6.17E-15	6.03E-15	7.34E-15	µCi/mL	UJ	T04, T05	Pershall Road (General Area)-Perimeter Air
SVP265274	PERSHALL RD.	02/01/23	Gross Alpha/Beta	Gross Beta	4.89E-14	1.64E-14	1.86E-14	µCi/mL	=		Pershall Road (General Area)-Perimeter Air
SVP265277	PERSHALL RD.	02/01/23	Gross Alpha/Beta	Gross Alpha	4.95E-15	5.51E-15	7.34E-15	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265277	PERSHALL RD.	02/01/23	Gross Alpha/Beta	Gross Beta	3.76E-14	1.51E-14	1.86E-14	µCi/mL	=		Pershall Road (General Area)-Perimeter Air
SVP265278	PERSHALL RD.	02/01/23	Gross Alpha/Beta	Gross Alpha	2.50E-15	4.27E-15	7.34E-15	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265278	PERSHALL RD.	02/01/23	Gross Alpha/Beta	Gross Beta	4.49E-14	1.60E-14	1.86E-14	µCi/mL	=		Pershall Road (General Area)-Perimeter Air
SVP265275	PERSHALL RD.	02/02/23	Gross Alpha/Beta	Gross Alpha	6.05E-15	5.92E-15	7.20E-15	µCi/mL	UJ	T04, T05	Pershall Road (General Area)-Perimeter Air
SVP265275	PERSHALL RD.	02/02/23	Gross Alpha/Beta	Gross Beta	7.31E-14	1.89E-14	1.82E-14	µCi/mL	=		Pershall Road (General Area)-Perimeter Air
SVP265279	PERSHALL RD.	02/02/23	Gross Alpha/Beta	Gross Alpha	3.72E-15	4.93E-15	7.34E-15	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265279	PERSHALL RD.	02/02/23	Gross Alpha/Beta	Gross Beta	4.33E-14	1.58E-14	1.86E-14	µCi/mL	=		Pershall Road (General Area)-Perimeter Air
SVP265280	PERSHALL RD.	02/02/23	Gross Alpha/Beta	Gross Alpha	2.50E-15	4.27E-15	7.34E-15	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265280	PERSHALL RD.	02/02/23	Gross Alpha/Beta	Gross Beta	6.49E-14	1.82E-14	1.86E-14	µCi/mL	=		Pershall Road (General Area)-Perimeter Air
SVP265276	PERSHALL RD.	02/06/23	Gross Alpha/Beta	Gross Alpha	3.69E-15	4.88E-15	7.26E-15	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265276	PERSHALL RD.	02/06/23	Gross Alpha/Beta	Gross Beta	4.52E-14	1.59E-14	1.84E-14	µCi/mL	=		Pershall Road (General Area)-Perimeter Air
SVP265281	PERSHALL RD.	02/06/23	Gross Alpha/Beta	Gross Alpha	6.17E-15	6.03E-15	7.34E-15	µCi/mL	UJ	T04, T05	Pershall Road (General Area)-Perimeter Air
SVP265281	PERSHALL RD.	02/06/23	Gross Alpha/Beta	Gross Beta	4.25E-14	1.57E-14	1.86E-14	µCi/mL	=		Pershall Road (General Area)-Perimeter Air
SVP265282	PERSHALL RD.	02/06/23	Gross Alpha/Beta	Gross Alpha	3.72E-15	4.93E-15	7.34E-15	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265282	PERSHALL RD.	02/06/23	Gross Alpha/Beta	Gross Beta	2.64E-14	1.37E-14	1.86E-14	µCi/mL	J	T04, T20	Pershall Road (General Area)-Perimeter Air
SVP265289	PERSHALL RD.	02/07/23	Gross Alpha/Beta	Gross Alpha	1.28E-15	3.50E-15	7.34E-15	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air

Table C-4. SLAPS Perimeter Air Data Results for CY 2023 (Continued)

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
SVP265289	PERSHALL RD.	02/07/23	Gross Alpha/Beta	Gross Beta	4.81E-14	1.63E-14	1.86E-14	µCi/mL	=		Pershall Road (General Area)-Perimeter Air
SVP265290	PERSHALL RD.	02/07/23	Gross Alpha/Beta	Gross Alpha	3.72E-15	4.93E-15	7.34E-15	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265290	PERSHALL RD.	02/07/23	Gross Alpha/Beta	Gross Beta	5.45E-14	1.71E-14	1.86E-14	µCi/mL	=		Pershall Road (General Area)-Perimeter Air
SVP265293	PERSHALL RD.	02/07/23	Gross Alpha/Beta	Gross Alpha	6.17E-15	6.03E-15	7.34E-15	µCi/mL	UJ	T04, T05	Pershall Road (General Area)-Perimeter Air
SVP265293	PERSHALL RD.	02/07/23	Gross Alpha/Beta	Gross Beta	5.85E-14	1.75E-14	1.86E-14	µCi/mL	=		Pershall Road (General Area)-Perimeter Air
SVP265296	PERSHALL RD.	02/08/23	Gross Alpha/Beta	Gross Alpha	2.83E-15	4.84E-15	8.31E-15	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265296	PERSHALL RD.	02/08/23	Gross Alpha/Beta	Gross Beta	3.36E-14	1.60E-14	2.10E-14	µCi/mL	=		Pershall Road (General Area)-Perimeter Air
SVP265297	PERSHALL RD.	02/08/23	Gross Alpha/Beta	Gross Alpha	4.22E-15	5.59E-15	8.31E-15	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265297	PERSHALL RD.	02/08/23	Gross Alpha/Beta	Gross Beta	1.54E-14	1.36E-14	2.10E-14	µCi/mL	UJ	T04, T05	Pershall Road (General Area)-Perimeter Air
SVP265298	PERSHALL RD.	02/08/23	Gross Alpha/Beta	Gross Alpha	3.04E-15	5.19E-15	8.91E-15	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265298	PERSHALL RD.	02/08/23	Gross Alpha/Beta	Gross Beta	3.01E-14	1.64E-14	2.25E-14	µCi/mL	J	T04, T20	Pershall Road (General Area)-Perimeter Air
SVP265299	PERSHALL RD.	02/09/23	Gross Alpha/Beta	Gross Alpha	-5.40E-17	3.72E-15	9.67E-15	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265299	PERSHALL RD.	02/09/23	Gross Alpha/Beta	Gross Beta	1.07E-14	1.49E-14	2.47E-14	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265300	PERSHALL RD.	02/09/23	Gross Alpha/Beta	Gross Alpha	-5.40E-17	3.72E-15	9.67E-15	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265300	PERSHALL RD.	02/09/23	Gross Alpha/Beta	Gross Beta	7.47E-15	1.45E-14	2.47E-14	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265301	PERSHALL RD.	02/09/23	Gross Alpha/Beta	Gross Alpha	3.81E-15	5.82E-15	9.67E-15	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265301	PERSHALL RD.	02/09/23	Gross Alpha/Beta	Gross Beta	2.71E-14	1.67E-14	2.47E-14	µCi/mL	J	T04, T20	Pershall Road (General Area)-Perimeter Air
SVP265304	PERSHALL RD.	02/13/23	Gross Alpha/Beta	Gross Alpha	2.37E-15	4.90E-15	9.10E-15	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265304	PERSHALL RD.	02/13/23	Gross Alpha/Beta	Gross Beta	3.63E-14	1.69E-14	2.32E-14	µCi/mL	=		Pershall Road (General Area)-Perimeter Air
SVP265305	PERSHALL RD.	02/13/23	Gross Alpha/Beta	Gross Alpha	-1.26E-15	2.53E-15	9.10E-15	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265305	PERSHALL RD.	02/13/23	Gross Alpha/Beta	Gross Beta	3.48E-14	1.67E-14	2.32E-14	µCi/mL	=		Pershall Road (General Area)-Perimeter Air
SVP265306	PERSHALL RD.	02/13/23	Gross Alpha/Beta	Gross Alpha	3.59E-15	5.47E-15	9.10E-15	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265306	PERSHALL RD.	02/13/23	Gross Alpha/Beta	Gross Beta	3.94E-14	1.72E-14	2.32E-14	µCi/mL	=		Pershall Road (General Area)-Perimeter Air
SVP265309	PERSHALL RD.	02/14/23	Gross Alpha/Beta	Gross Alpha	1.32E-15	4.83E-15	1.03E-14	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265309	PERSHALL RD.	02/14/23	Gross Alpha/Beta	Gross Beta	6.47E-14	2.15E-14	2.63E-14	µCi/mL	=		Pershall Road (General Area)-Perimeter Air
SVP265310	PERSHALL RD.	02/14/23	Gross Alpha/Beta	Gross Alpha	6.81E-15	7.33E-15	1.03E-14	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265310	PERSHALL RD.	02/14/23	Gross Alpha/Beta	Gross Beta	4.03E-14	1.90E-14	2.63E-14	µCi/mL	=		Pershall Road (General Area)-Perimeter Air
SVP265313	PERSHALL RD.	02/14/23	Gross Alpha/Beta	Gross Alpha	6.81E-15	7.33E-15	1.03E-14	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265313	PERSHALL RD.	02/14/23	Gross Alpha/Beta	Gross Beta	5.07E-14	2.01E-14	2.63E-14	µCi/mL	=		Pershall Road (General Area)-Perimeter Air
SVP265314	PERSHALL RD.	02/15/23	Gross Alpha/Beta	Gross Alpha	5.10E-15	6.37E-15	9.67E-15	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265314	PERSHALL RD.	02/15/23	Gross Alpha/Beta	Gross Beta	6.97E-14	2.10E-14	2.47E-14	µCi/mL	=		Pershall Road (General Area)-Perimeter Air
SVP265315	PERSHALL RD.	02/15/23	Gross Alpha/Beta	Gross Alpha	7.22E-15	6.92E-15	9.10E-15	µCi/mL	UJ	T04, T05	Pershall Road (General Area)-Perimeter Air
SVP265315	PERSHALL RD.	02/15/23	Gross Alpha/Beta	Gross Beta	7.25E-14	2.05E-14	2.32E-14	µCi/mL	=		Pershall Road (General Area)-Perimeter Air
SVP265316	PERSHALL RD.	02/15/23	Gross Alpha/Beta	Gross Alpha	1.16E-15	4.26E-15	9.10E-15	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265316	PERSHALL RD.	02/15/23	Gross Alpha/Beta	Gross Beta	7.56E-14	2.08E-14	2.32E-14	µCi/mL	=		Pershall Road (General Area)-Perimeter Air
SVP265321	PERSHALL RD.	02/16/23	Gross Alpha/Beta	Gross Alpha	1.52E-15	4.92E-15	1.00E-14	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265321	PERSHALL RD.	02/16/23	Gross Alpha/Beta	Gross Beta	1.09E-14	1.44E-14	2.37E-14	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265322	PERSHALL RD.	02/16/23	Gross Alpha/Beta	Gross Alpha	3.94E-15	6.00E-15	1.00E-14	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265322	PERSHALL RD.	02/16/23	Gross Alpha/Beta	Gross Beta	4.41E-14	1.79E-14	2.37E-14	µCi/mL	=		Pershall Road (General Area)-Perimeter Air
SVP265323	PERSHALL RD.	02/21/23	Gross Alpha/Beta	Gross Alpha	1.58E-15	5.12E-15	1.04E-14	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air

Table C-4. SLAPS Perimeter Air Data Results for CY 2023 (Continued)

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
SVP265323	PERSHALL RD.	02/21/23	Gross Alpha/Beta	Gross Beta	7.38E-15	1.45E-14	2.47E-14	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265324	PERSHALL RD.	02/21/23	Gross Alpha/Beta	Gross Alpha	7.89E-15	7.64E-15	1.04E-14	µCi/mL	UJ	T04, T05	Pershall Road (General Area)-Perimeter Air
SVP265324	PERSHALL RD.	02/21/23	Gross Alpha/Beta	Gross Beta	2.02E-14	1.59E-14	2.47E-14	µCi/mL	UJ	T04, T05	Pershall Road (General Area)-Perimeter Air
SVP265327	PERSHALL RD.	02/22/23	Gross Alpha/Beta	Gross Alpha	6.09E-15	9.28E-15	1.55E-14	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265327	PERSHALL RD.	02/22/23	Gross Alpha/Beta	Gross Beta	1.81E-14	2.24E-14	3.66E-14	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265328	PERSHALL RD.	02/22/23	Gross Alpha/Beta	Gross Alpha	1.98E-14	8.14E-15	7.95E-15	µCi/mL	=		Pershall Road (General Area)-Perimeter Air
SVP265328	PERSHALL RD.	02/22/23	Gross Alpha/Beta	Gross Beta	3.79E-14	1.47E-14	2.11E-14	µCi/mL	=		Pershall Road (General Area)-Perimeter Air
SVP265333	PERSHALL RD.	02/23/23	Gross Alpha/Beta	Gross Alpha	2.07E-15	4.91E-15	9.44E-15	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265333	PERSHALL RD.	02/23/23	Gross Alpha/Beta	Gross Beta	3.22E-14	1.62E-14	2.28E-14	µCi/mL	J	T04, T20	Pershall Road (General Area)-Perimeter Air
SVP265334	PERSHALL RD.	02/23/23	Gross Alpha/Beta	Gross Alpha	2.07E-15	4.91E-15	9.44E-15	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265334	PERSHALL RD.	02/23/23	Gross Alpha/Beta	Gross Beta	1.45E-14	1.43E-14	2.28E-14	µCi/mL	UJ	T04, T05	Pershall Road (General Area)-Perimeter Air
SVP265335	PERSHALL RD.	02/27/23	Gross Alpha/Beta	Gross Alpha	8.94E-16	4.44E-15	9.83E-15	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265335	PERSHALL RD.	02/27/23	Gross Alpha/Beta	Gross Beta	1.03E-14	1.43E-14	2.37E-14	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265336	PERSHALL RD.	02/27/23	Gross Alpha/Beta	Gross Alpha	8.94E-16	4.44E-15	9.83E-15	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265336	PERSHALL RD.	02/27/23	Gross Alpha/Beta	Gross Beta	2.07E-14	1.55E-14	2.37E-14	µCi/mL	UJ	T04, T05	Pershall Road (General Area)-Perimeter Air
SVP265341	PERSHALL RD.	02/28/23	Gross Alpha/Beta	Gross Alpha	4.68E-15	6.24E-15	9.83E-15	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265341	PERSHALL RD.	02/28/23	Gross Alpha/Beta	Gross Beta	3.51E-14	1.71E-14	2.37E-14	µCi/mL	=		Pershall Road (General Area)-Perimeter Air
SVP265342	PERSHALL RD.	02/28/23	Gross Alpha/Beta	Gross Alpha	5.94E-15	6.74E-15	9.83E-15	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265342	PERSHALL RD.	02/28/23	Gross Alpha/Beta	Gross Beta	4.96E-14	1.86E-14	2.37E-14	µCi/mL	=		Pershall Road (General Area)-Perimeter Air
SVP265345	PERSHALL RD.	03/01/23	Gross Alpha/Beta	Gross Alpha	4.50E-15	6.00E-15	9.44E-15	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265345	PERSHALL RD.	03/01/23	Gross Alpha/Beta	Gross Beta	3.92E-14	1.70E-14	2.28E-14	µCi/mL	=		Pershall Road (General Area)-Perimeter Air
SVP265346	PERSHALL RD.	03/01/23	Gross Alpha/Beta	Gross Alpha	3.28E-15	5.48E-15	9.44E-15	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265346	PERSHALL RD.	03/01/23	Gross Alpha/Beta	Gross Beta	4.92E-14	1.80E-14	2.28E-14	µCi/mL	=		Pershall Road (General Area)-Perimeter Air
SVP265351	PERSHALL RD.	03/02/23	Gross Alpha/Beta	Gross Alpha	1.20E-15	4.60E-15	9.89E-15	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265351	PERSHALL RD.	03/02/23	Gross Alpha/Beta	Gross Beta	2.50E-14	1.45E-14	2.04E-14	µCi/mL	J	T04, T20	Pershall Road (General Area)-Perimeter Air
SVP265352	PERSHALL RD.	03/02/23	Gross Alpha/Beta	Gross Alpha	1.20E-15	4.60E-15	9.89E-15	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265352	PERSHALL RD.	03/02/23	Gross Alpha/Beta	Gross Beta	1.65E-14	1.34E-14	2.04E-14	µCi/mL	UJ	T04, T05	Pershall Road (General Area)-Perimeter Air
SVP265355	PERSHALL RD.	03/07/23	Gross Alpha/Beta	Gross Alpha	2.51E-15	5.30E-15	9.89E-15	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265355	PERSHALL RD.	03/07/23	Gross Alpha/Beta	Gross Beta	3.02E-14	1.51E-14	2.04E-14	µCi/mL	J	T04, T20	Pershall Road (General Area)-Perimeter Air
SVP265356	PERSHALL RD.	03/07/23	Gross Alpha/Beta	Gross Alpha	-1.42E-15	2.73E-15	9.89E-15	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265356	PERSHALL RD.	03/07/23	Gross Alpha/Beta	Gross Beta	1.14E-14	1.27E-14	2.04E-14	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265359	PERSHALL RD.	03/08/23	Gross Alpha/Beta	Gross Alpha	2.51E-15	5.30E-15	9.89E-15	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265359	PERSHALL RD.	03/08/23	Gross Alpha/Beta	Gross Beta	2.25E-14	1.42E-14	2.04E-14	µCi/mL	J	T04, T20	Pershall Road (General Area)-Perimeter Air
SVP265360	PERSHALL RD.	03/08/23	Gross Alpha/Beta	Gross Alpha	-1.42E-15	2.73E-15	9.89E-15	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265360	PERSHALL RD.	03/08/23	Gross Alpha/Beta	Gross Beta	2.81E-15	1.14E-14	2.04E-14	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265365	PERSHALL RD.	03/09/23	Gross Alpha/Beta	Gross Alpha	3.30E-15	4.77E-15	7.57E-15	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265365	PERSHALL RD.	03/09/23	Gross Alpha/Beta	Gross Beta	2.60E-14	1.61E-14	2.39E-14	µCi/mL	J	T04, T20	Pershall Road (General Area)-Perimeter Air
SVP265366	PERSHALL RD.	03/09/23	Gross Alpha/Beta	Gross Alpha	1.04E-14	7.54E-15	7.57E-15	µCi/mL	J	T04, T20	Pershall Road (General Area)-Perimeter Air
SVP265366	PERSHALL RD.	03/09/23	Gross Alpha/Beta	Gross Beta	2.67E-14	1.62E-14	2.39E-14	µCi/mL	J	T04, T20	Pershall Road (General Area)-Perimeter Air
SVP265367	PERSHALL RD.	03/13/23	Gross Alpha/Beta	Gross Alpha	2.12E-15	4.14E-15	7.57E-15	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air

Table C-4. SLAPS Perimeter Air Data Results for CY 2023 (Continued)

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
SVP265367	PERSHALL RD.	03/13/23	Gross Alpha/Beta	Gross Beta	4.97E-15	1.39E-14	2.39E-14	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265368	PERSHALL RD.	03/13/23	Gross Alpha/Beta	Gross Alpha	1.04E-14	7.54E-15	7.57E-15	µCi/mL	J	T04, T20	Pershall Road (General Area)-Perimeter Air
SVP265368	PERSHALL RD.	03/13/23	Gross Alpha/Beta	Gross Beta	7.23E-15	1.41E-14	2.39E-14	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265372	PERSHALL RD.	03/14/23	Gross Alpha/Beta	Gross Alpha	3.30E-15	4.77E-15	7.57E-15	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265372	PERSHALL RD.	03/14/23	Gross Alpha/Beta	Gross Beta	2.07E-14	1.56E-14	2.39E-14	µCi/mL	UJ	T04, T05	Pershall Road (General Area)-Perimeter Air
SVP265373	PERSHALL RD.	03/14/23	Gross Alpha/Beta	Gross Alpha	9.37E-16	3.39E-15	7.57E-15	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265373	PERSHALL RD.	03/14/23	Gross Alpha/Beta	Gross Beta	7.98E-15	1.42E-14	2.39E-14	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265377	PERSHALL RD.	03/15/23	Gross Alpha/Beta	Gross Alpha	2.12E-15	4.14E-15	7.57E-15	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265377	PERSHALL RD.	03/15/23	Gross Alpha/Beta	Gross Beta	4.97E-15	1.39E-14	2.39E-14	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265378	PERSHALL RD.	03/15/23	Gross Alpha/Beta	Gross Alpha	5.67E-15	5.84E-15	7.57E-15	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265378	PERSHALL RD.	03/15/23	Gross Alpha/Beta	Gross Beta	2.75E-14	1.62E-14	2.39E-14	µCi/mL	J	T04, T20	Pershall Road (General Area)-Perimeter Air
SVP265431	PERSHALL RD.	04/24/23	Gross Alpha/Beta	Gross Alpha	2.75E-15	1.45E-14	3.23E-14	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265431	PERSHALL RD.	04/24/23	Gross Alpha/Beta	Gross Beta	4.54E-14	4.77E-14	7.67E-14	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265432	PERSHALL RD.	04/24/23	Gross Alpha/Beta	Gross Alpha	3.44E-15	5.82E-15	1.01E-14	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265432	PERSHALL RD.	04/24/23	Gross Alpha/Beta	Gross Beta	2.16E-14	1.58E-14	2.40E-14	µCi/mL	UJ	T04, T05	Pershall Road (General Area)-Perimeter Air
SVP265437	PERSHALL RD.	04/25/23	Gross Alpha/Beta	Gross Alpha	5.83E-15	6.67E-15	9.79E-15	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265437	PERSHALL RD.	04/25/23	Gross Alpha/Beta	Gross Beta	4.55E-14	1.79E-14	2.32E-14	µCi/mL	=		Pershall Road (General Area)-Perimeter Air
SVP265438	PERSHALL RD.	04/25/23	Gross Alpha/Beta	Gross Alpha	8.33E-16	4.40E-15	9.79E-15	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265438	PERSHALL RD.	04/25/23	Gross Alpha/Beta	Gross Beta	2.33E-14	1.55E-14	2.32E-14	µCi/mL	J	T04, T20	Pershall Road (General Area)-Perimeter Air
SVP265441	PERSHALL RD.	04/26/23	Gross Alpha/Beta	Gross Alpha	8.33E-16	4.40E-15	9.79E-15	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265441	PERSHALL RD.	04/26/23	Gross Alpha/Beta	Gross Beta	1.69E-14	1.48E-14	2.32E-14	µCi/mL	UJ	T04, T05	Pershall Road (General Area)-Perimeter Air
SVP265442	PERSHALL RD.	04/26/23	Gross Alpha/Beta	Gross Alpha	7.08E-15	7.13E-15	9.79E-15	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265442	PERSHALL RD.	04/26/23	Gross Alpha/Beta	Gross Beta	2.96E-14	1.62E-14	2.32E-14	µCi/mL	J	T04, T20	Pershall Road (General Area)-Perimeter Air
SVP265443	PERSHALL RD.	04/27/23	Gross Alpha/Beta	Gross Alpha	6.24E-16	5.09E-15	1.12E-14	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265443	PERSHALL RD.	04/27/23	Gross Alpha/Beta	Gross Beta	2.82E-14	1.66E-14	2.44E-14	µCi/mL	J	T04, T20	Pershall Road (General Area)-Perimeter Air
SVP265444	PERSHALL RD.	04/27/23	Gross Alpha/Beta	Gross Alpha	6.24E-16	5.09E-15	1.12E-14	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265444	PERSHALL RD.	04/27/23	Gross Alpha/Beta	Gross Beta	9.13E-15	1.46E-14	2.44E-14	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265446	PERSHALL RD.	05/01/23	Gross Alpha/Beta	Gross Alpha	3.55E-15	7.05E-15	1.28E-14	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265446	PERSHALL RD.	05/01/23	Gross Alpha/Beta	Gross Beta	4.06E-15	1.58E-14	2.77E-14	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265447	PERSHALL RD.	05/01/23	Gross Alpha/Beta	Gross Alpha	2.13E-15	6.45E-15	1.28E-14	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265447	PERSHALL RD.	05/01/23	Gross Alpha/Beta	Gross Beta	3.93E-14	1.97E-14	2.77E-14	µCi/mL	J	T04, T20	Pershall Road (General Area)-Perimeter Air
SVP265452	PERSHALL RD.	05/02/23	Gross Alpha/Beta	Gross Alpha	6.44E-16	5.25E-15	1.16E-14	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265452	PERSHALL RD.	05/02/23	Gross Alpha/Beta	Gross Beta	-3.68E-15	1.35E-14	2.51E-14	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265453	PERSHALL RD.	05/02/23	Gross Alpha/Beta	Gross Alpha	4.51E-15	6.89E-15	1.16E-14	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265453	PERSHALL RD.	05/02/23	Gross Alpha/Beta	Gross Beta	8.59E-15	1.49E-14	2.51E-14	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP265456	PERSHALL RD.	05/03/23	Gross Alpha/Beta	Gross Alpha	8.12E-15	7.98E-15	1.12E-14	µCi/mL	UJ	T04, T05	Pershall Road (General Area)-Perimeter Air
SVP265456	PERSHALL RD.	05/03/23	Gross Alpha/Beta	Gross Beta	1.87E-14	1.56E-14	2.44E-14	µCi/mL	UJ	T04, T05	Pershall Road (General Area)-Perimeter Air
SVP265457	PERSHALL RD.	05/03/23	Gross Alpha/Beta	Gross Alpha	9.37E-15	8.37E-15	1.12E-14	µCi/mL	UJ	T04, T05	Pershall Road (General Area)-Perimeter Air
SVP265457	PERSHALL RD.	05/03/23	Gross Alpha/Beta	Gross Beta	1.79E-14	1.55E-14	2.44E-14	µCi/mL	UJ	T04, T05	Pershall Road (General Area)-Perimeter Air
SVP266640	PERSHALL RD.	05/04/23	Gross Alpha/Beta	Gross Alpha	-2.52E-15	2.74E-15	1.09E-14	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air

Table C-4. SLAPS Perimeter Air Data Results for CY 2023 (Continued)

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
SVP266640	PERSHALL RD.	05/04/23	Gross Alpha/Beta	Gross Beta	1.13E-14	1.51E-14	2.49E-14	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP266641	PERSHALL RD.	05/04/23	Gross Alpha/Beta	Gross Alpha	-1.23E-15	3.76E-15	1.09E-14	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP266641	PERSHALL RD.	05/04/23	Gross Alpha/Beta	Gross Beta	-5.93E-15	1.31E-14	2.49E-14	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP266644	PERSHALL RD.	05/08/23	Gross Alpha/Beta	Gross Alpha	5.30E-17	4.51E-15	1.08E-14	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP266644	PERSHALL RD.	05/08/23	Gross Alpha/Beta	Gross Beta	4.66E-15	1.42E-14	2.47E-14	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP266645	PERSHALL RD.	05/08/23	Gross Alpha/Beta	Gross Alpha	3.88E-15	6.32E-15	1.08E-14	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP266645	PERSHALL RD.	05/08/23	Gross Alpha/Beta	Gross Beta	1.84E-14	1.58E-14	2.47E-14	µCi/mL	UJ	T04, T05	Pershall Road (General Area)-Perimeter Air
SVP266650	PERSHALL RD.	05/09/23	Gross Alpha/Beta	Gross Alpha	2.63E-15	5.83E-15	1.09E-14	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP266650	PERSHALL RD.	05/09/23	Gross Alpha/Beta	Gross Beta	2.25E-15	1.41E-14	2.49E-14	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP266651	PERSHALL RD.	05/09/23	Gross Alpha/Beta	Gross Alpha	1.34E-15	5.23E-15	1.09E-14	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP266651	PERSHALL RD.	05/09/23	Gross Alpha/Beta	Gross Beta	1.86E-14	1.59E-14	2.49E-14	µCi/mL	UJ	T04, T05	Pershall Road (General Area)-Perimeter Air
SVP266652	PERSHALL RD.	05/10/23	Gross Alpha/Beta	Gross Alpha	5.30E-17	4.46E-15	1.07E-14	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP266652	PERSHALL RD.	05/10/23	Gross Alpha/Beta	Gross Beta	-6.61E-15	1.27E-14	2.44E-14	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP266653	PERSHALL RD.	05/10/23	Gross Alpha/Beta	Gross Alpha	2.53E-14	1.23E-14	1.07E-14	µCi/mL	=		Pershall Road (General Area)-Perimeter Air
SVP266653	PERSHALL RD.	05/10/23	Gross Alpha/Beta	Gross Beta	3.83E-14	1.77E-14	2.44E-14	µCi/mL	=		Pershall Road (General Area)-Perimeter Air
SVP266656	PERSHALL RD.	05/11/23	Gross Alpha/Beta	Gross Alpha	5.95E-15	1.93E-14	3.94E-14	µCi/mL	UJ	T06	Pershall Road (General Area)-Perimeter Air
SVP266656	PERSHALL RD.	05/11/23	Gross Alpha/Beta	Gross Beta	1.12E-13	6.21E-14	8.93E-14	µCi/mL	J	T04, T20	Pershall Road (General Area)-Perimeter Air
SVP266657	PERSHALL RD.	05/11/23	Gross Alpha/Beta	Gross Alpha	5.98E-14	2.22E-14	2.02E-14	µCi/mL	=		Pershall Road (General Area)-Perimeter Air
SVP266657	PERSHALL RD.	05/11/23	Gross Alpha/Beta	Gross Beta	1.17E-13	3.78E-14	5.14E-14	µCi/mL	=		Pershall Road (General Area)-Perimeter Air
SLA261898	SLAPS LOADOUT	01/03/23	Gross Alpha/Beta	Gross Alpha	-6.22E-16	4.70E-15	1.13E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261898	SLAPS LOADOUT	01/03/23	Gross Alpha/Beta	Gross Beta	9.60E-15	1.43E-14	2.38E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261899	SLAPS LOADOUT	01/03/23	Gross Alpha/Beta	Gross Alpha	-4.07E-15	2.52E-15	1.13E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261899	SLAPS LOADOUT	01/03/23	Gross Alpha/Beta	Gross Beta	6.65E-15	1.40E-14	2.38E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261900	SLAPS LOADOUT	01/03/23	Gross Alpha/Beta	Gross Alpha	-6.16E-16	4.66E-15	1.12E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261900	SLAPS LOADOUT	01/03/23	Gross Alpha/Beta	Gross Beta	1.10E-14	1.43E-14	2.35E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261901	SLAPS LOADOUT	01/03/23	Gross Alpha/Beta	Gross Alpha	-2.89E-15	3.37E-15	1.12E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261901	SLAPS LOADOUT	01/03/23	Gross Alpha/Beta	Gross Beta	-2.20E-15	1.29E-14	2.35E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261902	SLAPS LOADOUT	01/03/23	Gross Alpha/Beta	Gross Alpha	-6.22E-16	4.70E-15	1.13E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261902	SLAPS LOADOUT	01/03/23	Gross Alpha/Beta	Gross Beta	2.95E-15	1.36E-14	2.38E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261903	SLAPS LOADOUT	01/03/23	Gross Alpha/Beta	Gross Alpha	-1.75E-15	4.07E-15	1.12E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261903	SLAPS LOADOUT	01/03/23	Gross Alpha/Beta	Gross Beta	4.39E-15	1.36E-14	2.35E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261904	SLAPS LOADOUT	01/04/23	Gross Alpha/Beta	Gross Alpha	5.21E-16	5.18E-15	1.12E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261904	SLAPS LOADOUT	01/04/23	Gross Alpha/Beta	Gross Beta	2.05E-14	1.53E-14	2.35E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA261905	SLAPS LOADOUT	01/04/23	Gross Alpha/Beta	Gross Alpha	-2.97E-15	3.47E-15	1.15E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261905	SLAPS LOADOUT	01/04/23	Gross Alpha/Beta	Gross Beta	9.03E-15	1.45E-14	2.42E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261906	SLAPS LOADOUT	01/04/23	Gross Alpha/Beta	Gross Alpha	-6.10E-16	4.61E-15	1.11E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261906	SLAPS LOADOUT	01/04/23	Gross Alpha/Beta	Gross Beta	7.25E-15	1.38E-14	2.33E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261907	SLAPS LOADOUT	01/05/23	Gross Alpha/Beta	Gross Alpha	1.81E-15	6.18E-15	1.22E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261907	SLAPS LOADOUT	01/05/23	Gross Alpha/Beta	Gross Beta	-4.79E-15	1.38E-14	2.57E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261908	SLAPS LOADOUT	01/05/23	Gross Alpha/Beta	Gross Alpha	-3.25E-15	3.79E-15	1.26E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air

Table C-4. SLAPS Perimeter Air Data Results for CY 2023 (Continued)

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
SLA261908	SLAPS LOADOUT	01/05/23	Gross Alpha/Beta	Gross Beta	8.23E-15	1.57E-14	2.65E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261909	SLAPS LOADOUT	01/05/23	Gross Alpha/Beta	Gross Alpha	-1.97E-15	4.57E-15	1.26E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261909	SLAPS LOADOUT	01/05/23	Gross Alpha/Beta	Gross Beta	9.88E-15	1.58E-14	2.65E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261910	SLAPS LOADOUT	01/09/23	Gross Alpha/Beta	Gross Alpha	3.73E-15	6.17E-15	1.06E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261910	SLAPS LOADOUT	01/09/23	Gross Alpha/Beta	Gross Beta	6.72E-14	1.91E-14	2.23E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA261911	SLAPS LOADOUT	01/09/23	Gross Alpha/Beta	Gross Alpha	2.76E-15	6.02E-15	1.11E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261911	SLAPS LOADOUT	01/09/23	Gross Alpha/Beta	Gross Beta	7.29E-14	2.02E-14	2.32E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA261912	SLAPS LOADOUT	01/09/23	Gross Alpha/Beta	Gross Alpha	7.15E-15	7.42E-15	1.09E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261912	SLAPS LOADOUT	01/09/23	Gross Alpha/Beta	Gross Beta	3.63E-14	1.65E-14	2.29E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA261913	SLAPS LOADOUT	01/09/23	Gross Alpha/Beta	Gross Alpha	7.28E-15	7.56E-15	1.11E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261913	SLAPS LOADOUT	01/09/23	Gross Alpha/Beta	Gross Beta	5.44E-14	1.85E-14	2.33E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA261914	SLAPS LOADOUT	01/09/23	Gross Alpha/Beta	Gross Alpha	3.90E-15	6.46E-15	1.11E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261914	SLAPS LOADOUT	01/09/23	Gross Alpha/Beta	Gross Beta	3.48E-14	1.66E-14	2.33E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA261915	SLAPS LOADOUT	01/09/23	Gross Alpha/Beta	Gross Alpha	5.02E-15	6.84E-15	1.11E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261915	SLAPS LOADOUT	01/09/23	Gross Alpha/Beta	Gross Beta	5.22E-14	1.83E-14	2.33E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA261916	SLAPS LOADOUT	01/10/23	Gross Alpha/Beta	Gross Alpha	1.76E-15	5.99E-15	1.19E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261916	SLAPS LOADOUT	01/10/23	Gross Alpha/Beta	Gross Beta	6.28E-14	2.02E-14	2.49E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA261917	SLAPS LOADOUT	01/10/23	Gross Alpha/Beta	Gross Alpha	4.21E-15	6.97E-15	1.20E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261917	SLAPS LOADOUT	01/10/23	Gross Alpha/Beta	Gross Beta	5.71E-14	1.98E-14	2.52E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA261918	SLAPS LOADOUT	01/10/23	Gross Alpha/Beta	Gross Alpha	3.05E-15	5.43E-15	9.57E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261918	SLAPS LOADOUT	01/10/23	Gross Alpha/Beta	Gross Beta	4.03E-14	1.54E-14	1.88E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA261919	SLAPS LOADOUT	01/11/23	Gross Alpha/Beta	Gross Alpha	4.76E-15	6.64E-15	1.07E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261919	SLAPS LOADOUT	01/11/23	Gross Alpha/Beta	Gross Beta	5.21E-14	1.81E-14	2.10E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA261920	SLAPS LOADOUT	01/11/23	Gross Alpha/Beta	Gross Alpha	2.09E-15	5.50E-15	1.08E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261920	SLAPS LOADOUT	01/11/23	Gross Alpha/Beta	Gross Beta	6.24E-14	1.94E-14	2.12E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA261921	SLAPS LOADOUT	01/11/23	Gross Alpha/Beta	Gross Alpha	3.45E-15	6.14E-15	1.08E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261921	SLAPS LOADOUT	01/11/23	Gross Alpha/Beta	Gross Beta	7.58E-14	2.08E-14	2.12E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA261922	SLAPS LOADOUT	01/11/23	Gross Alpha/Beta	Gross Alpha	7.51E-16	4.89E-15	1.11E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261922	SLAPS LOADOUT	01/11/23	Gross Alpha/Beta	Gross Beta	5.93E-14	1.93E-14	2.17E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA261923	SLAPS LOADOUT	01/11/23	Gross Alpha/Beta	Gross Alpha	6.44E-15	7.58E-15	1.13E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261923	SLAPS LOADOUT	01/11/23	Gross Alpha/Beta	Gross Beta	7.46E-14	2.13E-14	2.22E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA261924	SLAPS LOADOUT	01/11/23	Gross Alpha/Beta	Gross Alpha	-6.50E-16	4.12E-15	1.13E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261924	SLAPS LOADOUT	01/11/23	Gross Alpha/Beta	Gross Beta	5.41E-14	1.90E-14	2.22E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA261925	SLAPS LOADOUT	01/12/23	Gross Alpha/Beta	Gross Alpha	9.61E-15	8.89E-15	1.17E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA261925	SLAPS LOADOUT	01/12/23	Gross Alpha/Beta	Gross Beta	9.16E-14	2.35E-14	2.30E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA261926	SLAPS LOADOUT	01/12/23	Gross Alpha/Beta	Gross Alpha	9.50E-15	8.79E-15	1.16E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA261926	SLAPS LOADOUT	01/12/23	Gross Alpha/Beta	Gross Beta	1.41E-13	2.83E-14	2.27E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA261927	SLAPS LOADOUT	01/17/23	Gross Alpha/Beta	Gross Alpha	9.28E-15	8.59E-15	1.13E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA261927	SLAPS LOADOUT	01/17/23	Gross Alpha/Beta	Gross Beta	6.06E-14	1.97E-14	2.22E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA261928	SLAPS LOADOUT	01/17/23	Gross Alpha/Beta	Gross Alpha	1.78E-15	4.69E-15	9.21E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air

Table C-4. SLAPS Perimeter Air Data Results for CY 2023 (Continued)

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
SLA261928	SLAPS LOADOUT	01/17/23	Gross Alpha/Beta	Gross Beta	5.85E-14	1.71E-14	1.81E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA261929	SLAPS LOADOUT	01/17/23	Gross Alpha/Beta	Gross Alpha	-1.69E-15	2.43E-15	9.21E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261929	SLAPS LOADOUT	01/17/23	Gross Alpha/Beta	Gross Beta	5.49E-15	1.06E-14	1.81E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261930	SLAPS LOADOUT	01/17/23	Gross Alpha/Beta	Gross Alpha	2.19E-15	5.75E-15	1.13E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261930	SLAPS LOADOUT	01/17/23	Gross Alpha/Beta	Gross Beta	5.41E-14	1.90E-14	2.22E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA261931	SLAPS LOADOUT	01/17/23	Gross Alpha/Beta	Gross Alpha	3.61E-15	6.42E-15	1.13E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261931	SLAPS LOADOUT	01/17/23	Gross Alpha/Beta	Gross Beta	6.06E-14	1.97E-14	2.22E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA261932	SLAPS LOADOUT	01/17/23	Gross Alpha/Beta	Gross Alpha	-6.50E-16	4.12E-15	1.13E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261932	SLAPS LOADOUT	01/17/23	Gross Alpha/Beta	Gross Beta	5.69E-14	1.93E-14	2.22E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA261933	SLAPS LOADOUT	01/18/23	Gross Alpha/Beta	Gross Alpha	5.46E-15	7.63E-15	1.23E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261933	SLAPS LOADOUT	01/18/23	Gross Alpha/Beta	Gross Beta	2.04E-14	1.59E-14	2.41E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA261934	SLAPS LOADOUT	01/18/23	Gross Alpha/Beta	Gross Alpha	8.35E-16	5.43E-15	1.23E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261934	SLAPS LOADOUT	01/18/23	Gross Alpha/Beta	Gross Beta	4.29E-15	1.37E-14	2.41E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261935	SLAPS LOADOUT	01/19/23	Gross Alpha/Beta	Gross Alpha	9.68E-16	3.89E-15	8.41E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261935	SLAPS LOADOUT	01/19/23	Gross Alpha/Beta	Gross Beta	1.13E-14	1.35E-14	2.19E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261936	SLAPS LOADOUT	01/19/23	Gross Alpha/Beta	Gross Alpha	7.68E-15	6.76E-15	8.49E-15	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA261936	SLAPS LOADOUT	01/19/23	Gross Alpha/Beta	Gross Beta	2.86E-14	1.54E-14	2.21E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA261937	SLAPS LOADOUT	01/19/23	Gross Alpha/Beta	Gross Alpha	4.33E-15	5.52E-15	8.49E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261937	SLAPS LOADOUT	01/19/23	Gross Alpha/Beta	Gross Beta	1.36E-14	1.38E-14	2.21E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261938	SLAPS LOADOUT	01/23/23	Gross Alpha/Beta	Gross Alpha	5.40E-15	5.91E-15	8.41E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261938	SLAPS LOADOUT	01/23/23	Gross Alpha/Beta	Gross Beta	6.75E-14	1.92E-14	2.19E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA261939	SLAPS LOADOUT	01/23/23	Gross Alpha/Beta	Gross Alpha	8.30E-15	8.06E-15	1.07E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA261939	SLAPS LOADOUT	01/23/23	Gross Alpha/Beta	Gross Beta	5.89E-14	2.18E-14	2.80E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA261940	SLAPS LOADOUT	01/23/23	Gross Alpha/Beta	Gross Alpha	-1.25E-15	2.31E-15	8.41E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261940	SLAPS LOADOUT	01/23/23	Gross Alpha/Beta	Gross Beta	2.27E-14	1.47E-14	2.19E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA261941	SLAPS LOADOUT	01/23/23	Gross Alpha/Beta	Gross Alpha	3.92E-15	6.17E-15	1.04E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261941	SLAPS LOADOUT	01/23/23	Gross Alpha/Beta	Gross Beta	3.94E-14	1.93E-14	2.71E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA261942	SLAPS LOADOUT	01/23/23	Gross Alpha/Beta	Gross Alpha	5.41E-15	6.90E-15	1.06E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261942	SLAPS LOADOUT	01/23/23	Gross Alpha/Beta	Gross Beta	7.17E-14	2.29E-14	2.77E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA261943	SLAPS LOADOUT	01/23/23	Gross Alpha/Beta	Gross Alpha	5.35E-15	6.82E-15	1.05E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261943	SLAPS LOADOUT	01/23/23	Gross Alpha/Beta	Gross Beta	4.52E-14	2.01E-14	2.74E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA261944	SLAPS LOADOUT	01/24/23	Gross Alpha/Beta	Gross Alpha	8.88E-15	7.19E-15	8.57E-15	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA261944	SLAPS LOADOUT	01/24/23	Gross Alpha/Beta	Gross Beta	3.11E-14	1.58E-14	2.23E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA261945	SLAPS LOADOUT	01/24/23	Gross Alpha/Beta	Gross Alpha	4.37E-15	5.57E-15	8.57E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261945	SLAPS LOADOUT	01/24/23	Gross Alpha/Beta	Gross Beta	7.53E-14	2.01E-14	2.23E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA261946	SLAPS LOADOUT	01/24/23	Gross Alpha/Beta	Gross Alpha	5.01E-15	6.39E-15	9.83E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261946	SLAPS LOADOUT	01/24/23	Gross Alpha/Beta	Gross Beta	4.15E-14	1.87E-14	2.56E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA261947	SLAPS LOADOUT	01/25/23	Gross Alpha/Beta	Gross Alpha	3.33E-15	5.23E-15	8.81E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261947	SLAPS LOADOUT	01/25/23	Gross Alpha/Beta	Gross Beta	3.49E-14	1.65E-14	2.30E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA261948	SLAPS LOADOUT	01/25/23	Gross Alpha/Beta	Gross Alpha	2.24E-15	4.83E-15	9.07E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air

Table C-4. SLAPS Perimeter Air Data Results for CY 2023 (Continued)

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
SLA261948	SLAPS LOADOUT	01/25/23	Gross Alpha/Beta	Gross Beta	-4.70E-15	1.26E-14	2.37E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261949	SLAPS LOADOUT	01/25/23	Gross Alpha/Beta	Gross Alpha	6.18E-15	7.89E-15	1.21E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261949	SLAPS LOADOUT	01/25/23	Gross Alpha/Beta	Gross Beta	3.98E-15	1.80E-14	3.16E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261950	SLAPS LOADOUT	01/25/23	Gross Alpha/Beta	Gross Alpha	4.53E-15	7.11E-15	1.20E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261950	SLAPS LOADOUT	01/25/23	Gross Alpha/Beta	Gross Beta	3.53E-14	2.12E-14	3.12E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA261951	SLAPS LOADOUT	01/25/23	Gross Alpha/Beta	Gross Alpha	2.99E-15	6.46E-15	1.21E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261951	SLAPS LOADOUT	01/25/23	Gross Alpha/Beta	Gross Beta	2.25E-14	2.01E-14	3.16E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA261952	SLAPS LOADOUT	01/26/23	Gross Alpha/Beta	Gross Alpha	-1.40E-16	3.23E-15	8.49E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261952	SLAPS LOADOUT	01/26/23	Gross Alpha/Beta	Gross Beta	5.81E-14	1.84E-14	2.21E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA261953	SLAPS LOADOUT	01/26/23	Gross Alpha/Beta	Gross Alpha	7.68E-15	6.76E-15	8.49E-15	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA261953	SLAPS LOADOUT	01/26/23	Gross Alpha/Beta	Gross Beta	3.15E-14	1.57E-14	2.21E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA261954	SLAPS LOADOUT	01/30/23	Gross Alpha/Beta	Gross Alpha	4.71E-15	6.01E-15	9.24E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261954	SLAPS LOADOUT	01/30/23	Gross Alpha/Beta	Gross Beta	6.17E-14	1.98E-14	2.41E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA261955	SLAPS LOADOUT	01/30/23	Gross Alpha/Beta	Gross Alpha	2.65E-15	5.05E-15	9.12E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261955	SLAPS LOADOUT	01/30/23	Gross Alpha/Beta	Gross Beta	3.13E-15	1.09E-14	1.94E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261956	SLAPS LOADOUT	01/31/23	Gross Alpha/Beta	Gross Alpha	1.27E-15	3.95E-15	8.22E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261956	SLAPS LOADOUT	01/31/23	Gross Alpha/Beta	Gross Beta	3.60E-14	1.42E-14	1.75E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA261957	SLAPS LOADOUT	01/31/23	Gross Alpha/Beta	Gross Alpha	1.43E-16	3.30E-15	8.37E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261957	SLAPS LOADOUT	01/31/23	Gross Alpha/Beta	Gross Beta	3.36E-14	1.41E-14	1.78E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA261958	SLAPS LOADOUT	01/31/23	Gross Alpha/Beta	Gross Alpha	1.01E-14	8.58E-15	1.04E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA261958	SLAPS LOADOUT	01/31/23	Gross Alpha/Beta	Gross Beta	4.07E-14	1.74E-14	2.20E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA261959	SLAPS LOADOUT	02/01/23	Gross Alpha/Beta	Gross Alpha	1.77E-15	4.50E-15	8.97E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261959	SLAPS LOADOUT	02/01/23	Gross Alpha/Beta	Gross Beta	3.16E-14	1.74E-14	2.51E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA261960	SLAPS LOADOUT	02/01/23	Gross Alpha/Beta	Gross Alpha	1.75E-15	4.45E-15	8.87E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261960	SLAPS LOADOUT	02/01/23	Gross Alpha/Beta	Gross Beta	3.83E-15	1.42E-14	2.49E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261961	SLAPS LOADOUT	02/01/23	Gross Alpha/Beta	Gross Alpha	5.74E-15	6.48E-15	9.16E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261961	SLAPS LOADOUT	02/01/23	Gross Alpha/Beta	Gross Beta	4.89E-14	1.95E-14	2.57E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA261962	SLAPS LOADOUT	02/01/23	Gross Alpha/Beta	Gross Alpha	3.64E-15	4.86E-15	7.53E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261962	SLAPS LOADOUT	02/01/23	Gross Alpha/Beta	Gross Beta	5.18E-14	1.71E-14	2.11E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA261963	SLAPS LOADOUT	02/01/23	Gross Alpha/Beta	Gross Alpha	5.74E-15	5.69E-15	7.46E-15	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA261963	SLAPS LOADOUT	02/01/23	Gross Alpha/Beta	Gross Beta	9.33E-14	2.09E-14	2.09E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA261964	SLAPS LOADOUT	02/01/23	Gross Alpha/Beta	Gross Alpha	1.77E-15	4.50E-15	8.97E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261964	SLAPS LOADOUT	02/01/23	Gross Alpha/Beta	Gross Beta	4.46E-14	1.87E-14	2.51E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA261965	SLAPS LOADOUT	02/02/23	Gross Alpha/Beta	Gross Alpha	3.95E-15	5.28E-15	8.19E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261965	SLAPS LOADOUT	02/02/23	Gross Alpha/Beta	Gross Beta	6.52E-14	1.95E-14	2.29E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA261966	SLAPS LOADOUT	02/02/23	Gross Alpha/Beta	Gross Alpha	1.20E-14	8.11E-15	8.11E-15	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA261966	SLAPS LOADOUT	02/02/23	Gross Alpha/Beta	Gross Beta	9.77E-14	2.24E-14	2.27E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA261967	SLAPS LOADOUT	02/02/23	Gross Alpha/Beta	Gross Alpha	7.33E-15	6.55E-15	8.03E-15	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA261967	SLAPS LOADOUT	02/02/23	Gross Alpha/Beta	Gross Beta	6.03E-14	1.88E-14	2.25E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA261968	SLAPS LOADOUT	02/06/23	Gross Alpha/Beta	Gross Alpha	3.48E-15	4.61E-15	6.87E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air

Table C-4. SLAPS Perimeter Air Data Results for CY 2023 (Continued)

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
SLA261968	SLAPS LOADOUT	02/06/23	Gross Alpha/Beta	Gross Beta	4.50E-14	1.53E-14	1.74E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA261969	SLAPS LOADOUT	02/06/23	Gross Alpha/Beta	Gross Alpha	6.92E-15	6.10E-15	6.87E-15	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA261969	SLAPS LOADOUT	02/06/23	Gross Alpha/Beta	Gross Beta	8.02E-14	1.91E-14	1.74E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA261970	SLAPS LOADOUT	02/06/23	Gross Alpha/Beta	Gross Alpha	9.13E-15	6.86E-15	6.80E-15	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA261970	SLAPS LOADOUT	02/06/23	Gross Alpha/Beta	Gross Beta	5.05E-14	1.58E-14	1.72E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA261971	SLAPS LOADOUT	02/07/23	Gross Alpha/Beta	Gross Alpha	3.55E-15	4.70E-15	6.99E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261971	SLAPS LOADOUT	02/07/23	Gross Alpha/Beta	Gross Beta	4.43E-14	1.54E-14	1.77E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA261972	SLAPS LOADOUT	02/07/23	Gross Alpha/Beta	Gross Alpha	6.92E-15	6.10E-15	6.87E-15	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA261972	SLAPS LOADOUT	02/07/23	Gross Alpha/Beta	Gross Beta	1.01E-13	2.12E-14	1.74E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA261973	SLAPS LOADOUT	02/07/23	Gross Alpha/Beta	Gross Alpha	4.90E-17	2.38E-15	6.99E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261973	SLAPS LOADOUT	02/07/23	Gross Alpha/Beta	Gross Beta	2.82E-14	1.35E-14	1.77E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA261974	SLAPS LOADOUT	02/08/23	Gross Alpha/Beta	Gross Alpha	-1.17E-15	4.97E-16	7.34E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261974	SLAPS LOADOUT	02/08/23	Gross Alpha/Beta	Gross Beta	8.78E-15	1.13E-14	1.86E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261975	SLAPS LOADOUT	02/08/23	Gross Alpha/Beta	Gross Alpha	1.28E-15	3.50E-15	7.34E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261975	SLAPS LOADOUT	02/08/23	Gross Alpha/Beta	Gross Beta	1.28E-14	1.19E-14	1.86E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA261976	SLAPS LOADOUT	02/08/23	Gross Alpha/Beta	Gross Alpha	3.72E-15	4.93E-15	7.34E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261976	SLAPS LOADOUT	02/08/23	Gross Alpha/Beta	Gross Beta	4.25E-14	1.57E-14	1.86E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA261977	SLAPS LOADOUT	02/08/23	Gross Alpha/Beta	Gross Alpha	2.66E-15	4.54E-15	7.79E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261977	SLAPS LOADOUT	02/08/23	Gross Alpha/Beta	Gross Beta	3.57E-14	1.55E-14	1.97E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA261978	SLAPS LOADOUT	02/08/23	Gross Alpha/Beta	Gross Alpha	3.55E-15	4.70E-15	6.99E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261978	SLAPS LOADOUT	02/08/23	Gross Alpha/Beta	Gross Beta	2.21E-14	1.27E-14	1.77E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA261979	SLAPS LOADOUT	02/08/23	Gross Alpha/Beta	Gross Alpha	1.22E-15	3.33E-15	6.99E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261979	SLAPS LOADOUT	02/08/23	Gross Alpha/Beta	Gross Beta	4.74E-14	1.57E-14	1.77E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA261980	SLAPS LOADOUT	02/09/23	Gross Alpha/Beta	Gross Alpha	-7.86E-16	2.60E-15	8.78E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261980	SLAPS LOADOUT	02/09/23	Gross Alpha/Beta	Gross Beta	1.81E-14	1.54E-14	2.41E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA261981	SLAPS LOADOUT	02/09/23	Gross Alpha/Beta	Gross Alpha	1.73E-15	4.41E-15	8.78E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261981	SLAPS LOADOUT	02/09/23	Gross Alpha/Beta	Gross Beta	2.92E-15	1.37E-14	2.41E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261982	SLAPS LOADOUT	02/09/23	Gross Alpha/Beta	Gross Alpha	-7.86E-16	2.60E-15	8.78E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261982	SLAPS LOADOUT	02/09/23	Gross Alpha/Beta	Gross Beta	2.21E-14	1.59E-14	2.41E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA261983	SLAPS LOADOUT	02/13/23	Gross Alpha/Beta	Gross Alpha	4.19E-16	3.21E-15	7.81E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261983	SLAPS LOADOUT	02/13/23	Gross Alpha/Beta	Gross Beta	3.59E-14	1.58E-14	2.15E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA261984	SLAPS LOADOUT	02/13/23	Gross Alpha/Beta	Gross Alpha	2.99E-15	5.08E-15	8.78E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261984	SLAPS LOADOUT	02/13/23	Gross Alpha/Beta	Gross Beta	3.00E-14	1.67E-14	2.41E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA261985	SLAPS LOADOUT	02/13/23	Gross Alpha/Beta	Gross Alpha	3.77E-15	5.04E-15	7.81E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261985	SLAPS LOADOUT	02/13/23	Gross Alpha/Beta	Gross Beta	2.10E-14	1.43E-14	2.15E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA261986	SLAPS LOADOUT	02/13/23	Gross Alpha/Beta	Gross Alpha	5.50E-15	6.21E-15	8.78E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261986	SLAPS LOADOUT	02/13/23	Gross Alpha/Beta	Gross Beta	3.56E-14	1.73E-14	2.41E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA261987	SLAPS LOADOUT	02/13/23	Gross Alpha/Beta	Gross Alpha	4.71E-16	3.62E-15	8.78E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261987	SLAPS LOADOUT	02/13/23	Gross Alpha/Beta	Gross Beta	1.09E-14	1.46E-14	2.41E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261988	SLAPS LOADOUT	02/13/23	Gross Alpha/Beta	Gross Alpha	5.50E-15	6.21E-15	8.78E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air

Table C-4. SLAPS Perimeter Air Data Results for CY 2023 (Continued)

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
SLA261988	SLAPS LOADOUT	02/13/23	Gross Alpha/Beta	Gross Beta	1.33E-14	1.49E-14	2.41E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261989	SLAPS LOADOUT	02/14/23	Gross Alpha/Beta	Gross Alpha	8.73E-15	7.16E-15	8.27E-15	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA261989	SLAPS LOADOUT	02/14/23	Gross Alpha/Beta	Gross Beta	2.68E-14	1.56E-14	2.27E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA261990	SLAPS LOADOUT	02/14/23	Gross Alpha/Beta	Gross Alpha	2.81E-15	4.78E-15	8.27E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261990	SLAPS LOADOUT	02/14/23	Gross Alpha/Beta	Gross Beta	3.20E-14	1.61E-14	2.27E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA261991	SLAPS LOADOUT	02/14/23	Gross Alpha/Beta	Gross Alpha	2.81E-15	4.78E-15	8.27E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261991	SLAPS LOADOUT	02/14/23	Gross Alpha/Beta	Gross Beta	2.60E-14	1.55E-14	2.27E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA261992	SLAPS LOADOUT	02/15/23	Gross Alpha/Beta	Gross Alpha	5.18E-15	5.84E-15	8.27E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261992	SLAPS LOADOUT	02/15/23	Gross Alpha/Beta	Gross Beta	6.51E-14	1.94E-14	2.27E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA261993	SLAPS LOADOUT	02/15/23	Gross Alpha/Beta	Gross Alpha	5.18E-15	5.84E-15	8.27E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA261993	SLAPS LOADOUT	02/15/23	Gross Alpha/Beta	Gross Beta	9.28E-14	2.21E-14	2.27E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA265905	SLAPS LOADOUT	02/15/23	Gross Alpha/Beta	Gross Alpha	2.81E-15	4.78E-15	8.27E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265905	SLAPS LOADOUT	02/15/23	Gross Alpha/Beta	Gross Beta	5.00E-14	1.80E-14	2.27E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA265906	SLAPS LOADOUT	02/16/23	Gross Alpha/Beta	Gross Alpha	3.69E-15	5.62E-15	9.39E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265906	SLAPS LOADOUT	02/16/23	Gross Alpha/Beta	Gross Beta	3.26E-14	1.59E-14	2.22E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA265907	SLAPS LOADOUT	02/16/23	Gross Alpha/Beta	Gross Alpha	8.30E-15	7.31E-15	9.47E-15	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA265907	SLAPS LOADOUT	02/16/23	Gross Alpha/Beta	Gross Beta	5.83E-14	1.85E-14	2.24E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA265908	SLAPS LOADOUT	02/16/23	Gross Alpha/Beta	Gross Alpha	6.57E-15	8.26E-15	1.28E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265908	SLAPS LOADOUT	02/16/23	Gross Alpha/Beta	Gross Beta	2.38E-14	1.94E-14	3.02E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA265909	SLAPS LOADOUT	02/16/23	Gross Alpha/Beta	Gross Alpha	8.66E-15	9.42E-15	1.36E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265909	SLAPS LOADOUT	02/16/23	Gross Alpha/Beta	Gross Beta	4.53E-14	2.28E-14	3.22E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA265910	SLAPS LOADOUT	02/16/23	Gross Alpha/Beta	Gross Alpha	3.66E-15	7.36E-15	1.35E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265910	SLAPS LOADOUT	02/16/23	Gross Alpha/Beta	Gross Beta	2.81E-14	2.08E-14	3.18E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA265911	SLAPS LOADOUT	02/16/23	Gross Alpha/Beta	Gross Alpha	2.03E-15	6.60E-15	1.35E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265911	SLAPS LOADOUT	02/16/23	Gross Alpha/Beta	Gross Beta	6.43E-14	2.45E-14	3.18E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA265912	SLAPS LOADOUT	02/21/23	Gross Alpha/Beta	Gross Alpha	8.15E-15	7.18E-15	9.30E-15	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA265912	SLAPS LOADOUT	02/21/23	Gross Alpha/Beta	Gross Beta	1.66E-14	1.40E-14	2.20E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA265913	SLAPS LOADOUT	02/21/23	Gross Alpha/Beta	Gross Alpha	2.53E-15	5.09E-15	9.30E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265913	SLAPS LOADOUT	02/21/23	Gross Alpha/Beta	Gross Beta	4.43E-15	1.27E-14	2.20E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265914	SLAPS LOADOUT	02/21/23	Gross Alpha/Beta	Gross Alpha	2.61E-15	5.24E-15	9.58E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265914	SLAPS LOADOUT	02/21/23	Gross Alpha/Beta	Gross Beta	1.49E-14	1.42E-14	2.26E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA265915	SLAPS LOADOUT	02/22/23	Gross Alpha/Beta	Gross Alpha	1.74E-15	5.64E-15	1.15E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265915	SLAPS LOADOUT	02/22/23	Gross Alpha/Beta	Gross Beta	1.17E-14	1.64E-14	2.72E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265916	SLAPS LOADOUT	02/22/23	Gross Alpha/Beta	Gross Alpha	5.90E-15	7.43E-15	1.15E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265916	SLAPS LOADOUT	02/22/23	Gross Alpha/Beta	Gross Beta	5.48E-15	1.57E-14	2.72E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265917	SLAPS LOADOUT	02/22/23	Gross Alpha/Beta	Gross Alpha	1.74E-15	5.64E-15	1.15E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265917	SLAPS LOADOUT	02/22/23	Gross Alpha/Beta	Gross Beta	1.25E-14	1.65E-14	2.72E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265918	SLAPS LOADOUT	02/22/23	Gross Alpha/Beta	Gross Alpha	1.10E-14	8.90E-15	1.10E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA265918	SLAPS LOADOUT	02/22/23	Gross Alpha/Beta	Gross Beta	2.72E-14	1.74E-14	2.60E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA265919	SLAPS LOADOUT	02/22/23	Gross Alpha/Beta	Gross Alpha	4.37E-15	6.66E-15	1.11E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air

Table C-4. SLAPS Perimeter Air Data Results for CY 2023 (Continued)

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
SLA265919	SLAPS LOADOUT	02/22/23	Gross Alpha/Beta	Gross Beta	3.26E-14	1.82E-14	2.63E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA265920	SLAPS LOADOUT	02/22/23	Gross Alpha/Beta	Gross Alpha	1.15E-14	9.30E-15	1.15E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA265920	SLAPS LOADOUT	02/22/23	Gross Alpha/Beta	Gross Beta	2.31E-14	1.76E-14	2.72E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA265921	SLAPS LOADOUT	02/23/23	Gross Alpha/Beta	Gross Alpha	3.32E-15	5.53E-15	9.54E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265921	SLAPS LOADOUT	02/23/23	Gross Alpha/Beta	Gross Beta	6.87E-15	1.35E-14	2.30E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265922	SLAPS LOADOUT	02/23/23	Gross Alpha/Beta	Gross Alpha	5.76E-15	6.54E-15	9.54E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265922	SLAPS LOADOUT	02/23/23	Gross Alpha/Beta	Gross Beta	5.59E-14	1.88E-14	2.30E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA265923	SLAPS LOADOUT	02/23/23	Gross Alpha/Beta	Gross Alpha	2.07E-15	4.91E-15	9.44E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265923	SLAPS LOADOUT	02/23/23	Gross Alpha/Beta	Gross Beta	1.84E-14	1.47E-14	2.28E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA265924	SLAPS LOADOUT	02/27/23	Gross Alpha/Beta	Gross Alpha	4.50E-15	6.00E-15	9.44E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265924	SLAPS LOADOUT	02/27/23	Gross Alpha/Beta	Gross Beta	1.91E-14	1.48E-14	2.28E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA265925	SLAPS LOADOUT	02/27/23	Gross Alpha/Beta	Gross Alpha	-3.54E-16	3.51E-15	9.44E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265925	SLAPS LOADOUT	02/27/23	Gross Alpha/Beta	Gross Beta	1.30E-14	1.41E-14	2.28E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265926	SLAPS LOADOUT	02/27/23	Gross Alpha/Beta	Gross Alpha	8.42E-16	4.18E-15	9.26E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265926	SLAPS LOADOUT	02/27/23	Gross Alpha/Beta	Gross Beta	2.10E-14	1.48E-14	2.24E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA265927	SLAPS LOADOUT	02/28/23	Gross Alpha/Beta	Gross Alpha	3.10E-15	5.17E-15	8.92E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265927	SLAPS LOADOUT	02/28/23	Gross Alpha/Beta	Gross Beta	2.24E-14	1.45E-14	2.15E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA265928	SLAPS LOADOUT	02/28/23	Gross Alpha/Beta	Gross Alpha	6.54E-15	6.53E-15	8.92E-15	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA265928	SLAPS LOADOUT	02/28/23	Gross Alpha/Beta	Gross Beta	4.93E-14	1.73E-14	2.15E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA265929	SLAPS LOADOUT	02/28/23	Gross Alpha/Beta	Gross Alpha	8.11E-16	4.03E-15	8.92E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265929	SLAPS LOADOUT	02/28/23	Gross Alpha/Beta	Gross Beta	3.92E-14	1.63E-14	2.15E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA265930	SLAPS LOADOUT	02/28/23	Gross Alpha/Beta	Gross Alpha	3.13E-15	5.22E-15	9.00E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265930	SLAPS LOADOUT	02/28/23	Gross Alpha/Beta	Gross Beta	3.88E-14	1.63E-14	2.17E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA265931	SLAPS LOADOUT	02/28/23	Gross Alpha/Beta	Gross Alpha	1.97E-15	4.68E-15	9.00E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265931	SLAPS LOADOUT	02/28/23	Gross Alpha/Beta	Gross Beta	4.98E-14	1.75E-14	2.17E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA265932	SLAPS LOADOUT	02/28/23	Gross Alpha/Beta	Gross Alpha	3.16E-15	5.27E-15	9.09E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265932	SLAPS LOADOUT	02/28/23	Gross Alpha/Beta	Gross Beta	4.58E-14	1.72E-14	2.19E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA265933	SLAPS LOADOUT	03/01/23	Gross Alpha/Beta	Gross Alpha	1.23E-14	8.34E-15	8.92E-15	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA265933	SLAPS LOADOUT	03/01/23	Gross Alpha/Beta	Gross Beta	6.68E-14	1.90E-14	2.15E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA265934	SLAPS LOADOUT	03/01/23	Gross Alpha/Beta	Gross Alpha	8.11E-16	4.03E-15	8.92E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265934	SLAPS LOADOUT	03/01/23	Gross Alpha/Beta	Gross Beta	4.86E-14	1.72E-14	2.15E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA265935	SLAPS LOADOUT	03/01/23	Gross Alpha/Beta	Gross Alpha	1.02E-14	7.81E-15	9.09E-15	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA265935	SLAPS LOADOUT	03/01/23	Gross Alpha/Beta	Gross Beta	4.21E-14	1.68E-14	2.19E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA265936	SLAPS LOADOUT	03/02/23	Gross Alpha/Beta	Gross Alpha	2.79E-16	3.94E-15	9.25E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265936	SLAPS LOADOUT	03/02/23	Gross Alpha/Beta	Gross Beta	1.38E-14	1.36E-14	2.18E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA265937	SLAPS LOADOUT	03/02/23	Gross Alpha/Beta	Gross Alpha	-1.96E-15	2.36E-15	9.25E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265937	SLAPS LOADOUT	03/02/23	Gross Alpha/Beta	Gross Beta	2.79E-14	1.52E-14	2.18E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA265938	SLAPS LOADOUT	03/02/23	Gross Alpha/Beta	Gross Alpha	1.40E-15	4.53E-15	9.25E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265938	SLAPS LOADOUT	03/02/23	Gross Alpha/Beta	Gross Beta	-7.50E-15	1.12E-14	2.18E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265939	SLAPS LOADOUT	03/06/23	Gross Alpha/Beta	Gross Alpha	2.79E-16	3.94E-15	9.25E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air

Table C-4. SLAPS Perimeter Air Data Results for CY 2023 (Continued)

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
SLA265939	SLAPS LOADOUT	03/06/23	Gross Alpha/Beta	Gross Beta	1.16E-14	1.34E-14	2.18E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265940	SLAPS LOADOUT	03/06/23	Gross Alpha/Beta	Gross Alpha	2.51E-15	5.06E-15	9.25E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265940	SLAPS LOADOUT	03/06/23	Gross Alpha/Beta	Gross Beta	4.43E-14	1.68E-14	2.18E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA265941	SLAPS LOADOUT	03/06/23	Gross Alpha/Beta	Gross Alpha	2.49E-15	5.01E-15	9.16E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265941	SLAPS LOADOUT	03/06/23	Gross Alpha/Beta	Gross Beta	1.93E-14	1.41E-14	2.16E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA265942	SLAPS LOADOUT	03/06/23	Gross Alpha/Beta	Gross Alpha	2.79E-16	3.94E-15	9.25E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265942	SLAPS LOADOUT	03/06/23	Gross Alpha/Beta	Gross Beta	2.58E-14	1.49E-14	2.18E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA265943	SLAPS LOADOUT	03/06/23	Gross Alpha/Beta	Gross Alpha	2.54E-15	5.11E-15	9.33E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265943	SLAPS LOADOUT	03/06/23	Gross Alpha/Beta	Gross Beta	2.75E-14	1.52E-14	2.20E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA265944	SLAPS LOADOUT	03/06/23	Gross Alpha/Beta	Gross Alpha	2.77E-16	3.91E-15	9.16E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265944	SLAPS LOADOUT	03/06/23	Gross Alpha/Beta	Gross Beta	3.05E-14	1.53E-14	2.16E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA265945	SLAPS LOADOUT	03/07/23	Gross Alpha/Beta	Gross Alpha	-8.62E-16	3.34E-15	9.51E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265945	SLAPS LOADOUT	03/07/23	Gross Alpha/Beta	Gross Beta	6.87E-15	1.32E-14	2.24E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265946	SLAPS LOADOUT	03/07/23	Gross Alpha/Beta	Gross Alpha	3.74E-15	5.69E-15	9.51E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265946	SLAPS LOADOUT	03/07/23	Gross Alpha/Beta	Gross Beta	1.42E-14	1.40E-14	2.24E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA265947	SLAPS LOADOUT	03/07/23	Gross Alpha/Beta	Gross Alpha	-1.99E-15	2.41E-15	9.42E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265947	SLAPS LOADOUT	03/07/23	Gross Alpha/Beta	Gross Beta	1.55E-14	1.41E-14	2.22E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA265948	SLAPS LOADOUT	03/08/23	Gross Alpha/Beta	Gross Alpha	1.40E-15	4.53E-15	9.25E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265948	SLAPS LOADOUT	03/08/23	Gross Alpha/Beta	Gross Beta	-4.14E-16	1.20E-14	2.18E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265949	SLAPS LOADOUT	03/08/23	Gross Alpha/Beta	Gross Alpha	-3.07E-15	7.91E-16	9.25E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265949	SLAPS LOADOUT	03/08/23	Gross Alpha/Beta	Gross Beta	2.72E-14	1.51E-14	2.18E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA265950	SLAPS LOADOUT	03/08/23	Gross Alpha/Beta	Gross Alpha	-8.15E-16	3.16E-15	9.00E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265950	SLAPS LOADOUT	03/08/23	Gross Alpha/Beta	Gross Beta	2.93E-14	1.50E-14	2.12E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA265951	SLAPS LOADOUT	03/09/23	Gross Alpha/Beta	Gross Alpha	3.97E-15	8.00E-15	1.46E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265951	SLAPS LOADOUT	03/09/23	Gross Alpha/Beta	Gross Beta	4.02E-14	2.31E-14	3.35E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA265952	SLAPS LOADOUT	03/09/23	Gross Alpha/Beta	Gross Alpha	1.10E-14	1.07E-14	1.46E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA265952	SLAPS LOADOUT	03/09/23	Gross Alpha/Beta	Gross Beta	5.82E-14	2.50E-14	3.35E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA265953	SLAPS LOADOUT	03/09/23	Gross Alpha/Beta	Gross Alpha	5.74E-15	8.75E-15	1.46E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265953	SLAPS LOADOUT	03/09/23	Gross Alpha/Beta	Gross Beta	2.11E-14	2.10E-14	3.35E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA265954	SLAPS LOADOUT	03/09/23	Gross Alpha/Beta	Gross Alpha	2.97E-16	4.20E-15	9.84E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265954	SLAPS LOADOUT	03/09/23	Gross Alpha/Beta	Gross Beta	2.03E-14	1.48E-14	2.25E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA265955	SLAPS LOADOUT	03/09/23	Gross Alpha/Beta	Gross Alpha	2.60E-15	5.23E-15	9.56E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265955	SLAPS LOADOUT	03/09/23	Gross Alpha/Beta	Gross Beta	1.02E-14	1.33E-14	2.19E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265956	SLAPS LOADOUT	03/09/23	Gross Alpha/Beta	Gross Alpha	8.01E-15	8.72E-15	1.26E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265956	SLAPS LOADOUT	03/09/23	Gross Alpha/Beta	Gross Beta	4.69E-15	1.66E-14	2.89E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265957	SLAPS LOADOUT	03/13/23	Gross Alpha/Beta	Gross Alpha	2.86E-16	4.04E-15	9.47E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265957	SLAPS LOADOUT	03/13/23	Gross Alpha/Beta	Gross Beta	1.30E-14	1.35E-14	2.17E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265958	SLAPS LOADOUT	03/13/23	Gross Alpha/Beta	Gross Alpha	-8.59E-16	3.33E-15	9.47E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265958	SLAPS LOADOUT	03/13/23	Gross Alpha/Beta	Gross Beta	2.97E-14	1.53E-14	2.17E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA265959	SLAPS LOADOUT	03/13/23	Gross Alpha/Beta	Gross Alpha	2.86E-16	4.04E-15	9.47E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air

Table C-4. SLAPS Perimeter Air Data Results for CY 2023 (Continued)

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
SLA265959	SLAPS LOADOUT	03/13/23	Gross Alpha/Beta	Gross Beta	1.44E-14	1.37E-14	2.17E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA265960	SLAPS LOADOUT	03/14/23	Gross Alpha/Beta	Gross Alpha	1.43E-15	4.65E-15	9.47E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265960	SLAPS LOADOUT	03/14/23	Gross Alpha/Beta	Gross Beta	3.48E-14	1.59E-14	2.17E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA265961	SLAPS LOADOUT	03/14/23	Gross Alpha/Beta	Gross Alpha	9.45E-15	7.67E-15	9.47E-15	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA265961	SLAPS LOADOUT	03/14/23	Gross Alpha/Beta	Gross Beta	2.83E-14	1.52E-14	2.17E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA265962	SLAPS LOADOUT	03/14/23	Gross Alpha/Beta	Gross Alpha	4.87E-15	6.12E-15	9.47E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265962	SLAPS LOADOUT	03/14/23	Gross Alpha/Beta	Gross Beta	2.53E-14	1.49E-14	2.17E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA265963	SLAPS LOADOUT	03/15/23	Gross Alpha/Beta	Gross Alpha	3.61E-15	7.27E-15	1.33E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265963	SLAPS LOADOUT	03/15/23	Gross Alpha/Beta	Gross Beta	4.17E-14	2.15E-14	3.04E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA265964	SLAPS LOADOUT	03/15/23	Gross Alpha/Beta	Gross Alpha	5.22E-15	7.95E-15	1.33E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265964	SLAPS LOADOUT	03/15/23	Gross Alpha/Beta	Gross Beta	3.96E-14	2.13E-14	3.04E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA265965	SLAPS LOADOUT	03/15/23	Gross Alpha/Beta	Gross Alpha	3.66E-15	7.36E-15	1.35E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265965	SLAPS LOADOUT	03/15/23	Gross Alpha/Beta	Gross Beta	5.88E-14	2.35E-14	3.08E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA265966	SLAPS LOADOUT	03/15/23	Gross Alpha/Beta	Gross Alpha	4.87E-15	6.12E-15	9.47E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265966	SLAPS LOADOUT	03/15/23	Gross Alpha/Beta	Gross Beta	3.04E-14	1.54E-14	2.17E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA265967	SLAPS LOADOUT	03/15/23	Gross Alpha/Beta	Gross Alpha	3.72E-15	5.67E-15	9.47E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265967	SLAPS LOADOUT	03/15/23	Gross Alpha/Beta	Gross Beta	3.52E-15	1.24E-14	2.17E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265968	SLAPS LOADOUT	03/15/23	Gross Alpha/Beta	Gross Alpha	2.66E-14	1.19E-14	9.47E-15	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA265968	SLAPS LOADOUT	03/15/23	Gross Alpha/Beta	Gross Beta	3.26E-14	1.56E-14	2.17E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA265969	SLAPS LOADOUT	03/16/23	Gross Alpha/Beta	Gross Alpha	2.27E-15	5.49E-15	1.05E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265969	SLAPS LOADOUT	03/16/23	Gross Alpha/Beta	Gross Beta	1.22E-14	1.46E-14	2.38E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265970	SLAPS LOADOUT	03/16/23	Gross Alpha/Beta	Gross Alpha	3.49E-15	6.01E-15	1.05E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265970	SLAPS LOADOUT	03/16/23	Gross Alpha/Beta	Gross Beta	4.38E-14	1.79E-14	2.38E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA265971	SLAPS LOADOUT	03/16/23	Gross Alpha/Beta	Gross Alpha	-1.52E-16	4.29E-15	1.05E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265971	SLAPS LOADOUT	03/16/23	Gross Alpha/Beta	Gross Beta	2.45E-14	1.59E-14	2.38E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA265972	SLAPS LOADOUT	03/20/23	Gross Alpha/Beta	Gross Alpha	3.52E-15	6.07E-15	1.06E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265972	SLAPS LOADOUT	03/20/23	Gross Alpha/Beta	Gross Beta	2.79E-14	1.64E-14	2.40E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA265973	SLAPS LOADOUT	03/20/23	Gross Alpha/Beta	Gross Alpha	1.02E-15	4.74E-15	1.01E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265973	SLAPS LOADOUT	03/20/23	Gross Alpha/Beta	Gross Beta	1.10E-14	1.39E-14	2.29E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265974	SLAPS LOADOUT	03/20/23	Gross Alpha/Beta	Gross Alpha	-1.38E-15	3.58E-15	1.06E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265974	SLAPS LOADOUT	03/20/23	Gross Alpha/Beta	Gross Beta	2.94E-14	1.65E-14	2.40E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA265975	SLAPS LOADOUT	03/20/23	Gross Alpha/Beta	Gross Alpha	4.94E-15	8.51E-15	1.48E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265975	SLAPS LOADOUT	03/20/23	Gross Alpha/Beta	Gross Beta	4.67E-14	2.38E-14	3.36E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA265976	SLAPS LOADOUT	03/20/23	Gross Alpha/Beta	Gross Alpha	8.37E-15	9.81E-15	1.48E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265976	SLAPS LOADOUT	03/20/23	Gross Alpha/Beta	Gross Beta	1.95E-14	2.09E-14	3.36E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265977	SLAPS LOADOUT	03/21/23	Gross Alpha/Beta	Gross Alpha	3.49E-15	6.01E-15	1.05E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265977	SLAPS LOADOUT	03/21/23	Gross Alpha/Beta	Gross Beta	2.91E-14	1.64E-14	2.38E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA265978	SLAPS LOADOUT	03/21/23	Gross Alpha/Beta	Gross Alpha	2.27E-15	5.49E-15	1.05E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265978	SLAPS LOADOUT	03/21/23	Gross Alpha/Beta	Gross Beta	5.26E-15	1.38E-14	2.38E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265979	SLAPS LOADOUT	03/21/23	Gross Alpha/Beta	Gross Alpha	2.32E-15	5.60E-15	1.07E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air

Table C-4. SLAPS Perimeter Air Data Results for CY 2023 (Continued)

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
SLA265979	SLAPS LOADOUT	03/21/23	Gross Alpha/Beta	Gross Beta	4.47E-14	1.82E-14	2.42E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA265980	SLAPS LOADOUT	03/22/23	Gross Alpha/Beta	Gross Alpha	-1.84E-16	5.21E-15	1.27E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265980	SLAPS LOADOUT	03/22/23	Gross Alpha/Beta	Gross Beta	1.01E-14	1.72E-14	2.88E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265981	SLAPS LOADOUT	03/22/23	Gross Alpha/Beta	Gross Alpha	-1.64E-15	4.25E-15	1.26E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265981	SLAPS LOADOUT	03/22/23	Gross Alpha/Beta	Gross Beta	1.74E-14	1.78E-14	2.85E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265982	SLAPS LOADOUT	03/22/23	Gross Alpha/Beta	Gross Alpha	1.68E-14	1.01E-14	1.05E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA265982	SLAPS LOADOUT	03/22/23	Gross Alpha/Beta	Gross Beta	7.30E-14	2.07E-14	2.38E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA265983	SLAPS LOADOUT	03/22/23	Gross Alpha/Beta	Gross Alpha	7.12E-15	7.35E-15	1.05E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265983	SLAPS LOADOUT	03/22/23	Gross Alpha/Beta	Gross Beta	3.72E-15	1.36E-14	2.38E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265984	SLAPS LOADOUT	03/22/23	Gross Alpha/Beta	Gross Alpha	1.94E-14	1.19E-14	1.22E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA265984	SLAPS LOADOUT	03/22/23	Gross Alpha/Beta	Gross Beta	8.22E-14	2.43E-14	2.83E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA265985	SLAPS LOADOUT	03/23/23	Gross Alpha/Beta	Gross Alpha	2.68E-15	5.49E-15	1.01E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265985	SLAPS LOADOUT	03/23/23	Gross Alpha/Beta	Gross Beta	4.15E-14	1.74E-14	2.33E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA265986	SLAPS LOADOUT	03/23/23	Gross Alpha/Beta	Gross Alpha	-2.19E-15	2.59E-15	1.02E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265986	SLAPS LOADOUT	03/23/23	Gross Alpha/Beta	Gross Beta	3.34E-14	1.67E-14	2.35E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA265987	SLAPS LOADOUT	03/23/23	Gross Alpha/Beta	Gross Alpha	-9.79E-16	3.60E-15	1.03E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265987	SLAPS LOADOUT	03/23/23	Gross Alpha/Beta	Gross Beta	2.90E-14	1.64E-14	2.37E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA265988	SLAPS LOADOUT	03/27/23	Gross Alpha/Beta	Gross Alpha	5.26E-15	6.68E-15	1.04E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265988	SLAPS LOADOUT	03/27/23	Gross Alpha/Beta	Gross Beta	3.56E-14	1.72E-14	2.40E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA265989	SLAPS LOADOUT	03/27/23	Gross Alpha/Beta	Gross Alpha	1.06E-14	8.63E-15	1.07E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA265989	SLAPS LOADOUT	03/27/23	Gross Alpha/Beta	Gross Beta	8.01E-14	2.21E-14	2.47E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA265990	SLAPS LOADOUT	03/27/23	Gross Alpha/Beta	Gross Alpha	2.76E-15	5.65E-15	1.04E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265990	SLAPS LOADOUT	03/27/23	Gross Alpha/Beta	Gross Beta	4.12E-14	1.78E-14	2.40E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA265991	SLAPS LOADOUT	03/28/23	Gross Alpha/Beta	Gross Alpha	6.38E-15	6.99E-15	1.02E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265991	SLAPS LOADOUT	03/28/23	Gross Alpha/Beta	Gross Beta	8.24E-14	2.16E-14	2.35E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA265992	SLAPS LOADOUT	03/28/23	Gross Alpha/Beta	Gross Alpha	3.93E-15	6.06E-15	1.02E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265992	SLAPS LOADOUT	03/28/23	Gross Alpha/Beta	Gross Beta	2.72E-14	1.61E-14	2.35E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA265993	SLAPS LOADOUT	03/28/23	Gross Alpha/Beta	Gross Alpha	2.68E-15	5.49E-15	1.01E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265993	SLAPS LOADOUT	03/28/23	Gross Alpha/Beta	Gross Beta	3.54E-14	1.68E-14	2.33E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA265994	SLAPS LOADOUT	03/29/23	Gross Alpha/Beta	Gross Alpha	5.96E-15	6.54E-15	9.52E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265994	SLAPS LOADOUT	03/29/23	Gross Alpha/Beta	Gross Beta	5.81E-14	1.83E-14	2.20E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA265995	SLAPS LOADOUT	03/29/23	Gross Alpha/Beta	Gross Alpha	4.82E-15	6.12E-15	9.52E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265995	SLAPS LOADOUT	03/29/23	Gross Alpha/Beta	Gross Beta	3.63E-14	1.62E-14	2.20E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA265996	SLAPS LOADOUT	03/29/23	Gross Alpha/Beta	Gross Alpha	-4.26E-15	1.09E-15	1.27E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265996	SLAPS LOADOUT	03/29/23	Gross Alpha/Beta	Gross Beta	5.04E-14	2.17E-14	2.93E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA265997	SLAPS LOADOUT	03/29/23	Gross Alpha/Beta	Gross Alpha	-3.04E-15	3.59E-15	1.41E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA265997	SLAPS LOADOUT	03/29/23	Gross Alpha/Beta	Gross Beta	3.33E-14	2.18E-14	3.25E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA265998	SLAPS LOADOUT	03/29/23	Gross Alpha/Beta	Gross Alpha	2.16E-14	1.38E-14	1.47E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA265998	SLAPS LOADOUT	03/29/23	Gross Alpha/Beta	Gross Beta	8.30E-14	2.76E-14	3.39E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA265999	SLAPS LOADOUT	03/29/23	Gross Alpha/Beta	Gross Alpha	5.43E-15	8.39E-15	1.41E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air

Table C-4. SLAPS Perimeter Air Data Results for CY 2023 (Continued)

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
SLA265999	SLAPS LOADOUT	03/29/23	Gross Alpha/Beta	Gross Beta	6.23E-14	2.48E-14	3.25E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA266000	SLAPS LOADOUT	03/30/23	Gross Alpha/Beta	Gross Alpha	5.87E-15	6.54E-15	9.62E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266000	SLAPS LOADOUT	03/30/23	Gross Alpha/Beta	Gross Beta	2.67E-14	1.52E-14	2.22E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA266001	SLAPS LOADOUT	03/30/23	Gross Alpha/Beta	Gross Alpha	8.16E-15	7.31E-15	9.62E-15	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA266001	SLAPS LOADOUT	03/30/23	Gross Alpha/Beta	Gross Beta	7.32E-14	1.99E-14	2.22E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA266002	SLAPS LOADOUT	03/30/23	Gross Alpha/Beta	Gross Alpha	4.77E-15	6.18E-15	9.71E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266002	SLAPS LOADOUT	03/30/23	Gross Alpha/Beta	Gross Beta	4.97E-14	1.77E-14	2.24E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA266003	SLAPS LOADOUT	04/03/23	Gross Alpha/Beta	Gross Alpha	3.46E-15	7.37E-15	1.37E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266003	SLAPS LOADOUT	04/03/23	Gross Alpha/Beta	Gross Beta	3.48E-14	2.13E-14	3.15E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA266004	SLAPS LOADOUT	04/03/23	Gross Alpha/Beta	Gross Alpha	1.81E-15	6.52E-15	1.35E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266004	SLAPS LOADOUT	04/03/23	Gross Alpha/Beta	Gross Beta	9.86E-15	1.84E-14	3.11E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266005	SLAPS LOADOUT	04/03/23	Gross Alpha/Beta	Gross Alpha	5.02E-15	7.95E-15	1.35E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266005	SLAPS LOADOUT	04/03/23	Gross Alpha/Beta	Gross Beta	3.74E-14	2.14E-14	3.11E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA266006	SLAPS LOADOUT	04/03/23	Gross Alpha/Beta	Gross Alpha	2.48E-15	5.28E-15	9.80E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266006	SLAPS LOADOUT	04/03/23	Gross Alpha/Beta	Gross Beta	6.42E-15	1.33E-14	2.26E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266007	SLAPS LOADOUT	04/03/23	Gross Alpha/Beta	Gross Alpha	5.98E-15	6.66E-15	9.80E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266007	SLAPS LOADOUT	04/03/23	Gross Alpha/Beta	Gross Beta	3.76E-14	1.66E-14	2.26E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA266008	SLAPS LOADOUT	04/03/23	Gross Alpha/Beta	Gross Alpha	-1.16E-15	3.87E-15	1.12E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266008	SLAPS LOADOUT	04/03/23	Gross Alpha/Beta	Gross Beta	2.08E-14	1.66E-14	2.57E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA266009	SLAPS LOADOUT	04/04/23	Gross Alpha/Beta	Gross Alpha	1.05E-14	8.01E-15	9.62E-15	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA266009	SLAPS LOADOUT	04/04/23	Gross Alpha/Beta	Gross Beta	2.67E-14	1.52E-14	2.22E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA266010	SLAPS LOADOUT	04/04/23	Gross Alpha/Beta	Gross Alpha	1.05E-14	8.01E-15	9.62E-15	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA266010	SLAPS LOADOUT	04/04/23	Gross Alpha/Beta	Gross Beta	2.74E-14	1.53E-14	2.22E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA266011	SLAPS LOADOUT	04/04/23	Gross Alpha/Beta	Gross Alpha	2.43E-15	5.18E-15	9.62E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266011	SLAPS LOADOUT	04/04/23	Gross Alpha/Beta	Gross Beta	2.30E-14	1.49E-14	2.22E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA266012	SLAPS LOADOUT	04/05/23	Gross Alpha/Beta	Gross Alpha	2.32E-15	8.37E-15	1.73E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266012	SLAPS LOADOUT	04/05/23	Gross Alpha/Beta	Gross Beta	3.49E-14	2.60E-14	3.99E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA266013	SLAPS LOADOUT	04/05/23	Gross Alpha/Beta	Gross Alpha	4.38E-15	9.33E-15	1.73E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266013	SLAPS LOADOUT	04/05/23	Gross Alpha/Beta	Gross Beta	4.80E-14	2.74E-14	3.99E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA266014	SLAPS LOADOUT	04/05/23	Gross Alpha/Beta	Gross Alpha	-5.24E-15	1.40E-15	1.66E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266014	SLAPS LOADOUT	04/05/23	Gross Alpha/Beta	Gross Beta	1.36E-14	2.34E-14	3.94E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266015	SLAPS LOADOUT	04/06/23	Gross Alpha/Beta	Gross Alpha	4.58E-15	6.11E-15	9.47E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266015	SLAPS LOADOUT	04/06/23	Gross Alpha/Beta	Gross Beta	5.48E-14	2.05E-14	2.64E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA266016	SLAPS LOADOUT	04/06/23	Gross Alpha/Beta	Gross Alpha	3.22E-15	5.47E-15	9.47E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266016	SLAPS LOADOUT	04/06/23	Gross Alpha/Beta	Gross Beta	1.78E-14	1.66E-14	2.64E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA266017	SLAPS LOADOUT	04/06/23	Gross Alpha/Beta	Gross Alpha	5.14E-16	3.94E-15	9.58E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266017	SLAPS LOADOUT	04/06/23	Gross Alpha/Beta	Gross Beta	2.15E-14	1.72E-14	2.67E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA266018	SLAPS LOADOUT	04/06/23	Gross Alpha/Beta	Gross Alpha	2.81E-15	4.78E-15	8.27E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266018	SLAPS LOADOUT	04/06/23	Gross Alpha/Beta	Gross Beta	4.03E-14	1.71E-14	2.30E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA266019	SLAPS LOADOUT	04/06/23	Gross Alpha/Beta	Gross Alpha	3.99E-15	5.34E-15	8.27E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air

Table C-4. SLAPS Perimeter Air Data Results for CY 2023 (Continued)

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
SLA266019	SLAPS LOADOUT	04/06/23	Gross Alpha/Beta	Gross Beta	3.06E-14	1.61E-14	2.30E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA266020	SLAPS LOADOUT	04/06/23	Gross Alpha/Beta	Gross Alpha	2.02E-15	5.16E-15	1.03E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266020	SLAPS LOADOUT	04/06/23	Gross Alpha/Beta	Gross Beta	2.77E-14	1.90E-14	2.86E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA266021	SLAPS LOADOUT	04/10/23	Gross Alpha/Beta	Gross Alpha	4.48E-16	3.44E-15	8.35E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266021	SLAPS LOADOUT	04/10/23	Gross Alpha/Beta	Gross Beta	5.21E-14	1.84E-14	2.32E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA266022	SLAPS LOADOUT	04/10/23	Gross Alpha/Beta	Gross Alpha	4.93E-15	5.57E-15	7.88E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266022	SLAPS LOADOUT	04/10/23	Gross Alpha/Beta	Gross Beta	6.85E-14	1.93E-14	2.19E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA266023	SLAPS LOADOUT	04/10/23	Gross Alpha/Beta	Gross Alpha	3.99E-15	5.34E-15	8.27E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266023	SLAPS LOADOUT	04/10/23	Gross Alpha/Beta	Gross Beta	3.73E-14	1.68E-14	2.30E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA266024	SLAPS LOADOUT	04/11/23	Gross Alpha/Beta	Gross Alpha	5.18E-15	5.84E-15	8.27E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266024	SLAPS LOADOUT	04/11/23	Gross Alpha/Beta	Gross Beta	5.16E-14	1.82E-14	2.30E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA266025	SLAPS LOADOUT	04/11/23	Gross Alpha/Beta	Gross Alpha	4.44E-16	3.40E-15	8.27E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266025	SLAPS LOADOUT	04/11/23	Gross Alpha/Beta	Gross Beta	3.28E-14	1.64E-14	2.30E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA266026	SLAPS LOADOUT	04/11/23	Gross Alpha/Beta	Gross Alpha	6.36E-15	6.31E-15	8.27E-15	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA266026	SLAPS LOADOUT	04/11/23	Gross Alpha/Beta	Gross Beta	1.48E-14	1.44E-14	2.30E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA266027	SLAPS LOADOUT	04/12/23	Gross Alpha/Beta	Gross Alpha	5.03E-15	5.67E-15	8.03E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266027	SLAPS LOADOUT	04/12/23	Gross Alpha/Beta	Gross Beta	6.25E-14	1.89E-14	2.24E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA266028	SLAPS LOADOUT	04/12/23	Gross Alpha/Beta	Gross Alpha	4.31E-16	3.31E-15	8.03E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266028	SLAPS LOADOUT	04/12/23	Gross Alpha/Beta	Gross Beta	3.33E-14	1.60E-14	2.24E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA266029	SLAPS LOADOUT	04/12/23	Gross Alpha/Beta	Gross Alpha	2.70E-15	4.60E-15	7.95E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266029	SLAPS LOADOUT	04/12/23	Gross Alpha/Beta	Gross Beta	2.51E-14	1.51E-14	2.21E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA266030	SLAPS LOADOUT	04/13/23	Gross Alpha/Beta	Gross Alpha	4.94E-15	6.68E-15	1.07E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266030	SLAPS LOADOUT	04/13/23	Gross Alpha/Beta	Gross Beta	1.57E-14	1.53E-14	2.43E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA266031	SLAPS LOADOUT	04/13/23	Gross Alpha/Beta	Gross Alpha	4.94E-15	6.68E-15	1.07E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266031	SLAPS LOADOUT	04/13/23	Gross Alpha/Beta	Gross Beta	1.42E-14	1.51E-14	2.43E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266032	SLAPS LOADOUT	04/13/23	Gross Alpha/Beta	Gross Alpha	1.20E-15	5.08E-15	1.07E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266032	SLAPS LOADOUT	04/13/23	Gross Alpha/Beta	Gross Beta	6.22E-15	1.42E-14	2.43E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266033	SLAPS LOADOUT	04/13/23	Gross Alpha/Beta	Gross Alpha	-5.20E-17	4.42E-15	1.07E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266033	SLAPS LOADOUT	04/13/23	Gross Alpha/Beta	Gross Beta	4.35E-14	1.82E-14	2.43E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA266034	SLAPS LOADOUT	04/13/23	Gross Alpha/Beta	Gross Alpha	3.70E-15	6.19E-15	1.07E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266034	SLAPS LOADOUT	04/13/23	Gross Alpha/Beta	Gross Beta	4.27E-14	1.81E-14	2.43E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA266035	SLAPS LOADOUT	04/13/23	Gross Alpha/Beta	Gross Alpha	4.80E-15	6.48E-15	1.04E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266035	SLAPS LOADOUT	04/13/23	Gross Alpha/Beta	Gross Beta	1.22E-14	1.45E-14	2.36E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266036	SLAPS LOADOUT	04/17/23	Gross Alpha/Beta	Gross Alpha	8.04E-15	7.38E-15	9.89E-15	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA266036	SLAPS LOADOUT	04/17/23	Gross Alpha/Beta	Gross Beta	5.05E-14	1.79E-14	2.25E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA266037	SLAPS LOADOUT	04/17/23	Gross Alpha/Beta	Gross Alpha	1.04E-14	8.09E-15	9.89E-15	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA266037	SLAPS LOADOUT	04/17/23	Gross Alpha/Beta	Gross Beta	1.97E-14	1.47E-14	2.25E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA266038	SLAPS LOADOUT	04/17/23	Gross Alpha/Beta	Gross Alpha	4.62E-15	6.24E-15	9.99E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266038	SLAPS LOADOUT	04/17/23	Gross Alpha/Beta	Gross Beta	2.21E-14	1.51E-14	2.27E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA266039	SLAPS LOADOUT	04/18/23	Gross Alpha/Beta	Gross Alpha	1.10E-15	4.65E-15	9.80E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air

Table C-4. SLAPS Perimeter Air Data Results for CY 2023 (Continued)

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
SLA266039	SLAPS LOADOUT	04/18/23	Gross Alpha/Beta	Gross Beta	1.52E-14	1.41E-14	2.23E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA266040	SLAPS LOADOUT	04/18/23	Gross Alpha/Beta	Gross Alpha	-1.19E-15	3.34E-15	9.80E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266040	SLAPS LOADOUT	04/18/23	Gross Alpha/Beta	Gross Beta	-2.30E-15	1.21E-14	2.23E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266041	SLAPS LOADOUT	04/18/23	Gross Alpha/Beta	Gross Alpha	-4.70E-17	4.01E-15	9.71E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266041	SLAPS LOADOUT	04/18/23	Gross Alpha/Beta	Gross Beta	1.43E-14	1.39E-14	2.21E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA266042	SLAPS LOADOUT	04/19/23	Gross Alpha/Beta	Gross Alpha	8.37E-15	8.51E-15	1.20E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266042	SLAPS LOADOUT	04/19/23	Gross Alpha/Beta	Gross Beta	5.61E-14	2.12E-14	2.74E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA266043	SLAPS LOADOUT	04/19/23	Gross Alpha/Beta	Gross Alpha	2.75E-15	6.37E-15	1.20E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266043	SLAPS LOADOUT	04/19/23	Gross Alpha/Beta	Gross Beta	3.65E-14	1.92E-14	2.74E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA266044	SLAPS LOADOUT	04/19/23	Gross Alpha/Beta	Gross Alpha	6.66E-15	7.68E-15	1.15E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266044	SLAPS LOADOUT	04/19/23	Gross Alpha/Beta	Gross Beta	2.04E-14	1.68E-14	2.62E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA266045	SLAPS LOADOUT	04/19/23	Gross Alpha/Beta	Gross Alpha	4.53E-15	6.12E-15	9.80E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266045	SLAPS LOADOUT	04/19/23	Gross Alpha/Beta	Gross Beta	2.32E-14	1.49E-14	2.23E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA266046	SLAPS LOADOUT	04/19/23	Gross Alpha/Beta	Gross Alpha	1.10E-15	4.65E-15	9.80E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266046	SLAPS LOADOUT	04/19/23	Gross Alpha/Beta	Gross Beta	3.70E-14	1.64E-14	2.23E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA266047	SLAPS LOADOUT	04/19/23	Gross Alpha/Beta	Gross Alpha	2.58E-14	1.29E-14	1.16E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA266047	SLAPS LOADOUT	04/19/23	Gross Alpha/Beta	Gross Beta	7.84E-14	2.28E-14	2.64E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA266048	SLAPS LOADOUT	04/20/23	Gross Alpha/Beta	Gross Alpha	4.17E-15	6.28E-15	1.04E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266048	SLAPS LOADOUT	04/20/23	Gross Alpha/Beta	Gross Beta	2.37E-14	1.47E-14	2.10E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA266049	SLAPS LOADOUT	04/20/23	Gross Alpha/Beta	Gross Alpha	5.57E-15	6.88E-15	1.04E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266049	SLAPS LOADOUT	04/20/23	Gross Alpha/Beta	Gross Beta	3.27E-14	1.59E-14	2.10E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA266050	SLAPS LOADOUT	04/20/23	Gross Alpha/Beta	Gross Alpha	4.17E-15	6.28E-15	1.04E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266050	SLAPS LOADOUT	04/20/23	Gross Alpha/Beta	Gross Beta	2.82E-14	1.53E-14	2.10E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA266051	SLAPS LOADOUT	04/24/23	Gross Alpha/Beta	Gross Alpha	1.31E-15	4.60E-15	9.76E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266051	SLAPS LOADOUT	04/24/23	Gross Alpha/Beta	Gross Beta	2.40E-14	1.41E-14	1.98E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA266052	SLAPS LOADOUT	04/24/23	Gross Alpha/Beta	Gross Alpha	1.26E-15	4.43E-15	9.39E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266052	SLAPS LOADOUT	04/24/23	Gross Alpha/Beta	Gross Beta	3.38E-14	1.49E-14	1.90E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA266053	SLAPS LOADOUT	04/24/23	Gross Alpha/Beta	Gross Alpha	6.18E-15	6.60E-15	9.22E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266053	SLAPS LOADOUT	04/24/23	Gross Alpha/Beta	Gross Beta	3.39E-14	1.47E-14	1.87E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA266054	SLAPS LOADOUT	04/25/23	Gross Alpha/Beta	Gross Alpha	2.59E-15	5.24E-15	9.67E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266054	SLAPS LOADOUT	04/25/23	Gross Alpha/Beta	Gross Beta	2.12E-14	1.36E-14	1.96E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA266055	SLAPS LOADOUT	04/25/23	Gross Alpha/Beta	Gross Alpha	-1.28E-15	2.68E-15	9.57E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266055	SLAPS LOADOUT	04/25/23	Gross Alpha/Beta	Gross Beta	6.04E-14	1.82E-14	1.94E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA266056	SLAPS LOADOUT	04/25/23	Gross Alpha/Beta	Gross Alpha	2.54E-15	5.14E-15	9.48E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266056	SLAPS LOADOUT	04/25/23	Gross Alpha/Beta	Gross Beta	4.40E-14	1.62E-14	1.92E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA266057	SLAPS LOADOUT	04/26/23	Gross Alpha/Beta	Gross Alpha	1.26E-15	4.43E-15	9.39E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266057	SLAPS LOADOUT	04/26/23	Gross Alpha/Beta	Gross Beta	7.44E-15	1.14E-14	1.90E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266058	SLAPS LOADOUT	04/26/23	Gross Alpha/Beta	Gross Alpha	1.02E-14	8.12E-15	9.48E-15	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA266058	SLAPS LOADOUT	04/26/23	Gross Alpha/Beta	Gross Beta	4.24E-14	1.60E-14	1.92E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA266059	SLAPS LOADOUT	04/26/23	Gross Alpha/Beta	Gross Alpha	5.09E-15	6.29E-15	9.48E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air

Table C-4. SLAPS Perimeter Air Data Results for CY 2023 (Continued)

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
SLA266059	SLAPS LOADOUT	04/26/23	Gross Alpha/Beta	Gross Beta	3.16E-14	1.47E-14	1.92E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA266060	SLAPS LOADOUT	04/26/23	Gross Alpha/Beta	Gross Alpha	-1.48E-15	3.09E-15	1.11E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266060	SLAPS LOADOUT	04/26/23	Gross Alpha/Beta	Gross Beta	2.81E-14	1.61E-14	2.24E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA266061	SLAPS LOADOUT	04/26/23	Gross Alpha/Beta	Gross Alpha	4.45E-15	6.70E-15	1.11E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266061	SLAPS LOADOUT	04/26/23	Gross Alpha/Beta	Gross Beta	2.43E-14	1.56E-14	2.24E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA266062	SLAPS LOADOUT	04/26/23	Gross Alpha/Beta	Gross Alpha	6.96E-15	7.42E-15	1.04E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266062	SLAPS LOADOUT	04/26/23	Gross Alpha/Beta	Gross Beta	3.67E-15	1.19E-14	2.10E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266063	SLAPS LOADOUT	04/27/23	Gross Alpha/Beta	Gross Alpha	6.01E-15	9.19E-15	1.54E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266063	SLAPS LOADOUT	04/27/23	Gross Alpha/Beta	Gross Beta	1.15E-14	1.99E-14	3.35E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266064	SLAPS LOADOUT	04/27/23	Gross Alpha/Beta	Gross Alpha	5.15E-15	6.55E-15	1.03E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266064	SLAPS LOADOUT	04/27/23	Gross Alpha/Beta	Gross Beta	7.82E-14	2.04E-14	2.23E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA266065	SLAPS LOADOUT	04/27/23	Gross Alpha/Beta	Gross Alpha	6.30E-15	6.94E-15	1.03E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266065	SLAPS LOADOUT	04/27/23	Gross Alpha/Beta	Gross Beta	3.82E-14	1.65E-14	2.23E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA266066	SLAPS LOADOUT	05/01/23	Gross Alpha/Beta	Gross Alpha	-2.86E-15	2.46E-15	1.03E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266066	SLAPS LOADOUT	05/01/23	Gross Alpha/Beta	Gross Beta	1.49E-14	1.41E-14	2.23E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA266067	SLAPS LOADOUT	05/01/23	Gross Alpha/Beta	Gross Alpha	7.44E-15	7.32E-15	1.03E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA266067	SLAPS LOADOUT	05/01/23	Gross Alpha/Beta	Gross Beta	2.58E-14	1.52E-14	2.23E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA266068	SLAPS LOADOUT	05/01/23	Gross Alpha/Beta	Gross Alpha	2.86E-15	5.68E-15	1.03E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266068	SLAPS LOADOUT	05/01/23	Gross Alpha/Beta	Gross Beta	3.60E-14	1.63E-14	2.23E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA266069	SLAPS LOADOUT	05/02/23	Gross Alpha/Beta	Gross Alpha	5.30E-15	6.73E-15	1.06E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266069	SLAPS LOADOUT	05/02/23	Gross Alpha/Beta	Gross Beta	1.46E-14	1.44E-14	2.30E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA266070	SLAPS LOADOUT	05/02/23	Gross Alpha/Beta	Gross Alpha	3.03E-15	6.02E-15	1.09E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266070	SLAPS LOADOUT	05/02/23	Gross Alpha/Beta	Gross Beta	2.81E-14	1.62E-14	2.36E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA266071	SLAPS LOADOUT	05/02/23	Gross Alpha/Beta	Gross Alpha	3.03E-15	6.02E-15	1.09E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266071	SLAPS LOADOUT	05/02/23	Gross Alpha/Beta	Gross Beta	2.73E-14	1.61E-14	2.36E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA266072	SLAPS LOADOUT	05/03/23	Gross Alpha/Beta	Gross Alpha	-2.94E-15	2.53E-15	1.06E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266072	SLAPS LOADOUT	05/03/23	Gross Alpha/Beta	Gross Beta	4.12E-15	1.32E-14	2.30E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266073	SLAPS LOADOUT	05/03/23	Gross Alpha/Beta	Gross Alpha	5.89E-16	4.80E-15	1.06E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266073	SLAPS LOADOUT	05/03/23	Gross Alpha/Beta	Gross Beta	1.83E-14	1.48E-14	2.30E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA266074	SLAPS LOADOUT	05/03/23	Gross Alpha/Beta	Gross Alpha	-5.89E-16	4.18E-15	1.06E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266074	SLAPS LOADOUT	05/03/23	Gross Alpha/Beta	Gross Beta	2.06E-14	1.50E-14	2.30E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA266075	SLAPS LOADOUT	05/03/23	Gross Alpha/Beta	Gross Alpha	2.04E-15	6.17E-15	1.22E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266075	SLAPS LOADOUT	05/03/23	Gross Alpha/Beta	Gross Beta	1.77E-14	1.67E-14	2.65E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA266076	SLAPS LOADOUT	05/03/23	Gross Alpha/Beta	Gross Alpha	2.02E-15	6.10E-15	1.21E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266076	SLAPS LOADOUT	05/03/23	Gross Alpha/Beta	Gross Beta	2.69E-14	1.75E-14	2.62E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA266077	SLAPS LOADOUT	05/03/23	Gross Alpha/Beta	Gross Alpha	4.29E-16	2.74E-15	5.57E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266077	SLAPS LOADOUT	05/03/23	Gross Alpha/Beta	Gross Beta	8.83E-15	7.93E-15	1.27E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA266078	SLAPS LOADOUT	05/04/23	Gross Alpha/Beta	Gross Alpha	7.90E-15	7.57E-15	9.95E-15	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA266078	SLAPS LOADOUT	05/04/23	Gross Alpha/Beta	Gross Beta	1.96E-14	1.35E-14	2.00E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA266079	SLAPS LOADOUT	05/04/23	Gross Alpha/Beta	Gross Alpha	1.44E-14	9.57E-15	9.86E-15	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air

Table C-4. SLAPS Perimeter Air Data Results for CY 2023 (Continued)

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
SLA266079	SLAPS LOADOUT	05/04/23	Gross Alpha/Beta	Gross Beta	3.46E-14	1.52E-14	1.98E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA266080	SLAPS LOADOUT	05/04/23	Gross Alpha/Beta	Gross Alpha	-2.71E-15	8.01E-16	9.95E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266080	SLAPS LOADOUT	05/04/23	Gross Alpha/Beta	Gross Beta	1.79E-14	1.33E-14	2.00E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA266081	SLAPS LOADOUT	05/08/23	Gross Alpha/Beta	Gross Alpha	2.65E-15	5.47E-15	1.02E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266081	SLAPS LOADOUT	05/08/23	Gross Alpha/Beta	Gross Beta	3.44E-15	1.15E-14	2.04E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266082	SLAPS LOADOUT	05/08/23	Gross Alpha/Beta	Gross Alpha	6.51E-15	7.01E-15	9.86E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266082	SLAPS LOADOUT	05/08/23	Gross Alpha/Beta	Gross Beta	2.34E-14	1.39E-14	1.98E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA266083	SLAPS LOADOUT	05/08/23	Gross Alpha/Beta	Gross Alpha	-1.37E-15	2.74E-15	9.86E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266083	SLAPS LOADOUT	05/08/23	Gross Alpha/Beta	Gross Beta	1.70E-14	1.31E-14	1.98E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA266084	SLAPS LOADOUT	05/09/23	Gross Alpha/Beta	Gross Alpha	3.67E-15	5.60E-15	9.31E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266084	SLAPS LOADOUT	05/09/23	Gross Alpha/Beta	Gross Beta	1.53E-14	1.22E-14	1.87E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA266085	SLAPS LOADOUT	05/09/23	Gross Alpha/Beta	Gross Alpha	-1.32E-15	2.64E-15	9.48E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266085	SLAPS LOADOUT	05/09/23	Gross Alpha/Beta	Gross Beta	1.02E-14	1.17E-14	1.90E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266086	SLAPS LOADOUT	05/09/23	Gross Alpha/Beta	Gross Alpha	-1.29E-15	2.59E-15	9.31E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266086	SLAPS LOADOUT	05/09/23	Gross Alpha/Beta	Gross Beta	4.02E-14	1.53E-14	1.87E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA266087	SLAPS LOADOUT	05/10/23	Gross Alpha/Beta	Gross Alpha	-1.81E-15	3.63E-15	1.31E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266087	SLAPS LOADOUT	05/10/23	Gross Alpha/Beta	Gross Beta	1.08E-14	1.57E-14	2.62E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266088	SLAPS LOADOUT	05/10/23	Gross Alpha/Beta	Gross Alpha	-7.30E-17	5.03E-15	1.31E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266088	SLAPS LOADOUT	05/10/23	Gross Alpha/Beta	Gross Beta	-1.95E-15	1.39E-14	2.62E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266089	SLAPS LOADOUT	05/10/23	Gross Alpha/Beta	Gross Alpha	-6.50E-17	4.50E-15	1.17E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266089	SLAPS LOADOUT	05/10/23	Gross Alpha/Beta	Gross Beta	2.77E-14	1.65E-14	2.35E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA266090	SLAPS LOADOUT	05/10/23	Gross Alpha/Beta	Gross Alpha	2.48E-15	5.11E-15	9.48E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266090	SLAPS LOADOUT	05/10/23	Gross Alpha/Beta	Gross Beta	2.63E-14	1.38E-14	1.90E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA266091	SLAPS LOADOUT	05/10/23	Gross Alpha/Beta	Gross Alpha	4.72E-15	7.20E-15	1.20E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266091	SLAPS LOADOUT	05/10/23	Gross Alpha/Beta	Gross Beta	1.57E-14	1.52E-14	2.40E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA266092	SLAPS LOADOUT	05/10/23	Gross Alpha/Beta	Gross Alpha	5.00E-15	6.25E-15	9.48E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266092	SLAPS LOADOUT	05/10/23	Gross Alpha/Beta	Gross Beta	2.40E-14	1.35E-14	1.90E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA266093	SLAPS LOADOUT	05/11/23	Gross Alpha/Beta	Gross Alpha	6.25E-15	6.69E-15	9.59E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266093	SLAPS LOADOUT	05/11/23	Gross Alpha/Beta	Gross Beta	1.62E-14	1.48E-14	2.34E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA266094	SLAPS LOADOUT	05/11/23	Gross Alpha/Beta	Gross Alpha	-7.59E-16	3.31E-15	9.32E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266094	SLAPS LOADOUT	05/11/23	Gross Alpha/Beta	Gross Beta	4.82E-14	1.77E-14	2.27E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA266095	SLAPS LOADOUT	05/11/23	Gross Alpha/Beta	Gross Alpha	2.66E-15	5.15E-15	9.32E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266095	SLAPS LOADOUT	05/11/23	Gross Alpha/Beta	Gross Beta	2.44E-14	1.53E-14	2.27E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA266096	SLAPS LOADOUT	05/15/23	Gross Alpha/Beta	Gross Alpha	7.49E-15	7.16E-15	9.69E-15	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA266096	SLAPS LOADOUT	05/15/23	Gross Alpha/Beta	Gross Beta	4.56E-14	1.79E-14	2.36E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA266097	SLAPS LOADOUT	05/15/23	Gross Alpha/Beta	Gross Alpha	6.31E-15	6.76E-15	9.69E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266097	SLAPS LOADOUT	05/15/23	Gross Alpha/Beta	Gross Beta	1.11E-14	1.44E-14	2.36E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266098	SLAPS LOADOUT	05/15/23	Gross Alpha/Beta	Gross Alpha	1.52E-15	4.62E-15	9.32E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266098	SLAPS LOADOUT	05/15/23	Gross Alpha/Beta	Gross Beta	1.57E-14	1.44E-14	2.27E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA266099	SLAPS LOADOUT	05/16/23	Gross Alpha/Beta	Gross Alpha	1.83E-15	5.56E-15	1.12E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air

Table C-4. SLAPS Perimeter Air Data Results for CY 2023 (Continued)

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
SLA266099	SLAPS LOADOUT	05/16/23	Gross Alpha/Beta	Gross Beta	1.90E-14	1.73E-14	2.74E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA266100	SLAPS LOADOUT	05/16/23	Gross Alpha/Beta	Gross Alpha	4.57E-16	4.84E-15	1.12E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266100	SLAPS LOADOUT	05/16/23	Gross Alpha/Beta	Gross Beta	3.55E-14	1.90E-14	2.74E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA266101	SLAPS LOADOUT	05/16/23	Gross Alpha/Beta	Gross Alpha	7.31E-15	7.83E-15	1.12E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266101	SLAPS LOADOUT	05/16/23	Gross Alpha/Beta	Gross Beta	3.03E-14	1.85E-14	2.74E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA266102	SLAPS LOADOUT	05/16/23	Gross Alpha/Beta	Gross Alpha	3.72E-16	3.94E-15	9.15E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266102	SLAPS LOADOUT	05/16/23	Gross Alpha/Beta	Gross Beta	2.25E-14	1.48E-14	2.23E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA266103	SLAPS LOADOUT	05/16/23	Gross Alpha/Beta	Gross Alpha	5.96E-15	6.38E-15	9.15E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266103	SLAPS LOADOUT	05/16/23	Gross Alpha/Beta	Gross Beta	5.73E-14	1.83E-14	2.23E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA266104	SLAPS LOADOUT	05/16/23	Gross Alpha/Beta	Gross Alpha	7.01E-15	6.70E-15	9.07E-15	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA266104	SLAPS LOADOUT	05/16/23	Gross Alpha/Beta	Gross Beta	1.74E-14	1.42E-14	2.21E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA266105	SLAPS LOADOUT	05/17/23	Gross Alpha/Beta	Gross Alpha	3.72E-16	3.94E-15	9.15E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266105	SLAPS LOADOUT	05/17/23	Gross Alpha/Beta	Gross Beta	3.81E-14	1.64E-14	2.23E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA266106	SLAPS LOADOUT	05/17/23	Gross Alpha/Beta	Gross Alpha	2.61E-15	5.06E-15	9.15E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266106	SLAPS LOADOUT	05/17/23	Gross Alpha/Beta	Gross Beta	4.17E-14	1.68E-14	2.23E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA266107	SLAPS LOADOUT	05/17/23	Gross Alpha/Beta	Gross Alpha	3.69E-16	3.91E-15	9.07E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266107	SLAPS LOADOUT	05/17/23	Gross Alpha/Beta	Gross Beta	4.48E-14	1.70E-14	2.21E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA266108	SLAPS LOADOUT	05/18/23	Gross Alpha/Beta	Gross Alpha	3.12E-15	5.90E-15	1.06E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266108	SLAPS LOADOUT	05/18/23	Gross Alpha/Beta	Gross Beta	4.43E-14	1.76E-14	2.32E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA266109	SLAPS LOADOUT	05/18/23	Gross Alpha/Beta	Gross Alpha	-4.46E-16	4.21E-15	1.06E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266109	SLAPS LOADOUT	05/18/23	Gross Alpha/Beta	Gross Beta	5.79E-14	1.90E-14	2.32E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA266110	SLAPS LOADOUT	05/18/23	Gross Alpha/Beta	Gross Alpha	3.12E-15	5.90E-15	1.06E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266110	SLAPS LOADOUT	05/18/23	Gross Alpha/Beta	Gross Beta	2.16E-14	1.53E-14	2.32E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA266111	SLAPS LOADOUT	05/22/23	Gross Alpha/Beta	Gross Alpha	-1.65E-15	3.52E-15	1.07E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266111	SLAPS LOADOUT	05/22/23	Gross Alpha/Beta	Gross Beta	3.40E-14	1.67E-14	2.34E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA266112	SLAPS LOADOUT	05/22/23	Gross Alpha/Beta	Gross Alpha	1.16E-14	8.75E-15	1.07E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA266112	SLAPS LOADOUT	05/22/23	Gross Alpha/Beta	Gross Beta	4.16E-14	1.75E-14	2.34E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA266113	SLAPS LOADOUT	05/22/23	Gross Alpha/Beta	Gross Alpha	-2.85E-15	2.57E-15	1.07E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266113	SLAPS LOADOUT	05/22/23	Gross Alpha/Beta	Gross Beta	4.85E-14	1.82E-14	2.34E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA266114	SLAPS LOADOUT	05/22/23	Gross Alpha/Beta	Gross Alpha	1.95E-15	5.45E-15	1.07E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266114	SLAPS LOADOUT	05/22/23	Gross Alpha/Beta	Gross Beta	3.17E-14	1.65E-14	2.34E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA266115	SLAPS LOADOUT	05/22/23	Gross Alpha/Beta	Gross Alpha	9.15E-15	8.04E-15	1.07E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA266115	SLAPS LOADOUT	05/22/23	Gross Alpha/Beta	Gross Beta	1.11E-14	1.42E-14	2.34E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266116	SLAPS LOADOUT	05/22/23	Gross Alpha/Beta	Gross Alpha	-1.65E-15	3.52E-15	1.07E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266116	SLAPS LOADOUT	05/22/23	Gross Alpha/Beta	Gross Beta	4.16E-14	1.75E-14	2.34E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA266117	SLAPS LOADOUT	05/23/23	Gross Alpha/Beta	Gross Alpha	8.98E-15	7.89E-15	1.05E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA266117	SLAPS LOADOUT	05/23/23	Gross Alpha/Beta	Gross Beta	3.41E-14	1.65E-14	2.30E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA266118	SLAPS LOADOUT	05/23/23	Gross Alpha/Beta	Gross Alpha	7.36E-16	4.79E-15	1.05E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266118	SLAPS LOADOUT	05/23/23	Gross Alpha/Beta	Gross Beta	3.04E-14	1.61E-14	2.30E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA266119	SLAPS LOADOUT	05/23/23	Gross Alpha/Beta	Gross Alpha	8.98E-15	7.89E-15	1.05E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air

Table C-4. SLAPS Perimeter Air Data Results for CY 2023 (Continued)

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
SLA266119	SLAPS LOADOUT	05/23/23	Gross Alpha/Beta	Gross Beta	5.13E-14	1.82E-14	2.30E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA266120	SLAPS LOADOUT	05/24/23	Gross Alpha/Beta	Gross Alpha	5.40E-15	6.67E-15	1.04E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266120	SLAPS LOADOUT	05/24/23	Gross Alpha/Beta	Gross Beta	3.16E-14	1.61E-14	2.27E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA266121	SLAPS LOADOUT	05/24/23	Gross Alpha/Beta	Gross Alpha	6.56E-15	7.07E-15	1.04E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266121	SLAPS LOADOUT	05/24/23	Gross Alpha/Beta	Gross Beta	3.45E-14	1.64E-14	2.27E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA266122	SLAPS LOADOUT	05/24/23	Gross Alpha/Beta	Gross Alpha	4.23E-15	6.24E-15	1.04E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266122	SLAPS LOADOUT	05/24/23	Gross Alpha/Beta	Gross Beta	3.45E-14	1.64E-14	2.27E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA266123	SLAPS LOADOUT	05/24/23	Gross Alpha/Beta	Gross Alpha	8.89E-15	7.82E-15	1.04E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA266123	SLAPS LOADOUT	05/24/23	Gross Alpha/Beta	Gross Beta	7.60E-14	2.04E-14	2.27E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA266124	SLAPS LOADOUT	05/24/23	Gross Alpha/Beta	Gross Alpha	5.40E-15	6.67E-15	1.04E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266124	SLAPS LOADOUT	05/24/23	Gross Alpha/Beta	Gross Beta	3.82E-14	1.68E-14	2.27E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA266125	SLAPS LOADOUT	05/24/23	Gross Alpha/Beta	Gross Alpha	5.40E-15	4.77E-15	6.77E-15	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA266125	SLAPS LOADOUT	05/24/23	Gross Alpha/Beta	Gross Beta	3.49E-14	1.19E-14	1.60E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA266126	SLAPS LOADOUT	05/25/23	Gross Alpha/Beta	Gross Alpha	1.50E-16	4.24E-15	1.01E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266126	SLAPS LOADOUT	05/25/23	Gross Alpha/Beta	Gross Beta	1.92E-14	1.53E-14	2.38E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA266127	SLAPS LOADOUT	05/25/23	Gross Alpha/Beta	Gross Alpha	2.55E-15	5.44E-15	1.01E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266127	SLAPS LOADOUT	05/25/23	Gross Alpha/Beta	Gross Beta	3.98E-14	1.75E-14	2.38E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA266128	SLAPS LOADOUT	05/25/23	Gross Alpha/Beta	Gross Alpha	1.35E-15	4.87E-15	1.01E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266128	SLAPS LOADOUT	05/25/23	Gross Alpha/Beta	Gross Beta	1.08E-14	1.44E-14	2.38E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266129	SLAPS LOADOUT	05/30/23	Gross Alpha/Beta	Gross Alpha	4.86E-15	6.30E-15	9.89E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266129	SLAPS LOADOUT	05/30/23	Gross Alpha/Beta	Gross Beta	1.81E-14	1.50E-14	2.33E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA266130	SLAPS LOADOUT	05/30/23	Gross Alpha/Beta	Gross Alpha	6.04E-15	6.73E-15	9.89E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266130	SLAPS LOADOUT	05/30/23	Gross Alpha/Beta	Gross Beta	2.03E-14	1.52E-14	2.33E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA266131	SLAPS LOADOUT	05/30/23	Gross Alpha/Beta	Gross Alpha	2.63E-15	5.60E-15	1.04E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266131	SLAPS LOADOUT	05/30/23	Gross Alpha/Beta	Gross Beta	2.60E-14	1.65E-14	2.45E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA266132	SLAPS LOADOUT	05/31/23	Gross Alpha/Beta	Gross Alpha	7.21E-15	7.13E-15	9.89E-15	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA266132	SLAPS LOADOUT	05/31/23	Gross Alpha/Beta	Gross Beta	4.65E-14	1.79E-14	2.33E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA266133	SLAPS LOADOUT	05/31/23	Gross Alpha/Beta	Gross Alpha	8.39E-15	7.52E-15	9.89E-15	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA266133	SLAPS LOADOUT	05/31/23	Gross Alpha/Beta	Gross Beta	3.68E-14	1.69E-14	2.33E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA266134	SLAPS LOADOUT	05/31/23	Gross Alpha/Beta	Gross Alpha	2.55E-15	5.44E-15	1.01E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266134	SLAPS LOADOUT	05/31/23	Gross Alpha/Beta	Gross Beta	3.21E-14	1.67E-14	2.38E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA266135	SLAPS LOADOUT	06/01/23	Gross Alpha/Beta	Gross Alpha	9.37E-16	4.16E-15	9.10E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266135	SLAPS LOADOUT	06/01/23	Gross Alpha/Beta	Gross Beta	2.31E-14	1.60E-14	2.43E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA266136	SLAPS LOADOUT	06/01/23	Gross Alpha/Beta	Gross Alpha	4.49E-15	5.85E-15	9.10E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266136	SLAPS LOADOUT	06/01/23	Gross Alpha/Beta	Gross Beta	1.11E-14	1.48E-14	2.43E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266137	SLAPS LOADOUT	06/01/23	Gross Alpha/Beta	Gross Alpha	-2.46E-16	3.42E-15	9.10E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266137	SLAPS LOADOUT	06/01/23	Gross Alpha/Beta	Gross Beta	2.69E-14	1.64E-14	2.43E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA266138	SLAPS LOADOUT	06/05/23	Gross Alpha/Beta	Gross Alpha	3.27E-15	5.29E-15	9.02E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266138	SLAPS LOADOUT	06/05/23	Gross Alpha/Beta	Gross Beta	3.85E-14	1.74E-14	2.41E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA266139	SLAPS LOADOUT	06/05/23	Gross Alpha/Beta	Gross Alpha	9.13E-15	7.48E-15	9.02E-15	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air

Table C-4. SLAPS Perimeter Air Data Results for CY 2023 (Continued)

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
SLA266139	SLAPS LOADOUT	06/05/23	Gross Alpha/Beta	Gross Beta	3.26E-14	1.68E-14	2.41E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA266140	SLAPS LOADOUT	06/05/23	Gross Alpha/Beta	Gross Alpha	1.05E-14	8.00E-15	9.20E-15	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA266140	SLAPS LOADOUT	06/05/23	Gross Alpha/Beta	Gross Beta	1.88E-14	1.57E-14	2.46E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA266141	SLAPS LOADOUT	06/06/23	Gross Alpha/Beta	Gross Alpha	2.14E-15	4.84E-15	9.20E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266141	SLAPS LOADOUT	06/06/23	Gross Alpha/Beta	Gross Beta	3.32E-14	1.72E-14	2.46E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA266142	SLAPS LOADOUT	06/06/23	Gross Alpha/Beta	Gross Alpha	9.31E-15	7.62E-15	9.20E-15	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA266142	SLAPS LOADOUT	06/06/23	Gross Alpha/Beta	Gross Beta	3.24E-14	1.71E-14	2.46E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA266143	SLAPS LOADOUT	06/06/23	Gross Alpha/Beta	Gross Alpha	8.95E-15	7.33E-15	8.84E-15	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA266143	SLAPS LOADOUT	06/06/23	Gross Alpha/Beta	Gross Beta	2.03E-14	1.53E-14	2.36E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA266144	SLAPS LOADOUT	06/07/23	Gross Alpha/Beta	Gross Alpha	4.87E-15	6.35E-15	9.88E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266144	SLAPS LOADOUT	06/07/23	Gross Alpha/Beta	Gross Beta	3.89E-14	1.88E-14	2.64E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA266145	SLAPS LOADOUT	06/07/23	Gross Alpha/Beta	Gross Alpha	6.15E-15	6.85E-15	9.88E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266145	SLAPS LOADOUT	06/07/23	Gross Alpha/Beta	Gross Beta	5.12E-14	2.00E-14	2.64E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA266146	SLAPS LOADOUT	06/07/23	Gross Alpha/Beta	Gross Alpha	1.51E-14	9.71E-15	9.88E-15	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA266146	SLAPS LOADOUT	06/07/23	Gross Alpha/Beta	Gross Beta	6.01E-14	2.08E-14	2.64E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA266147	SLAPS LOADOUT	06/07/23	Gross Alpha/Beta	Gross Alpha	3.21E-15	5.19E-15	8.84E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266147	SLAPS LOADOUT	06/07/23	Gross Alpha/Beta	Gross Beta	4.80E-14	1.81E-14	2.36E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA266148	SLAPS LOADOUT	06/07/23	Gross Alpha/Beta	Gross Alpha	8.20E-15	7.30E-15	9.29E-15	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA266148	SLAPS LOADOUT	06/07/23	Gross Alpha/Beta	Gross Beta	3.12E-14	1.71E-14	2.48E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA266149	SLAPS LOADOUT	06/07/23	Gross Alpha/Beta	Gross Alpha	7.81E-15	6.96E-15	8.84E-15	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA266149	SLAPS LOADOUT	06/07/23	Gross Alpha/Beta	Gross Beta	3.78E-14	1.71E-14	2.36E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA266150	SLAPS LOADOUT	06/08/23	Gross Alpha/Beta	Gross Alpha	4.69E-15	5.79E-15	8.73E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266150	SLAPS LOADOUT	06/08/23	Gross Alpha/Beta	Gross Beta	3.13E-14	1.62E-14	2.30E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA266151	SLAPS LOADOUT	06/08/23	Gross Alpha/Beta	Gross Alpha	3.55E-15	5.34E-15	8.82E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266151	SLAPS LOADOUT	06/08/23	Gross Alpha/Beta	Gross Beta	3.69E-14	1.69E-14	2.33E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA266152	SLAPS LOADOUT	06/08/23	Gross Alpha/Beta	Gross Alpha	8.28E-15	7.16E-15	8.82E-15	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA266152	SLAPS LOADOUT	06/08/23	Gross Alpha/Beta	Gross Beta	3.54E-14	1.67E-14	2.33E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA266153	SLAPS LOADOUT	06/12/23	Gross Alpha/Beta	Gross Alpha	3.55E-15	5.34E-15	8.82E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266153	SLAPS LOADOUT	06/12/23	Gross Alpha/Beta	Gross Beta	1.66E-14	1.48E-14	2.33E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA266154	SLAPS LOADOUT	06/12/23	Gross Alpha/Beta	Gross Alpha	0	3.42E-15	8.82E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266154	SLAPS LOADOUT	06/12/23	Gross Alpha/Beta	Gross Beta	2.26E-14	1.54E-14	2.33E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA266155	SLAPS LOADOUT	06/12/23	Gross Alpha/Beta	Gross Alpha	4.83E-15	5.96E-15	9.00E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266155	SLAPS LOADOUT	06/12/23	Gross Alpha/Beta	Gross Beta	8.52E-15	1.41E-14	2.37E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266156	SLAPS LOADOUT	06/13/23	Gross Alpha/Beta	Gross Alpha	4.70E-15	7.08E-15	1.17E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266156	SLAPS LOADOUT	06/13/23	Gross Alpha/Beta	Gross Beta	2.80E-14	2.02E-14	3.08E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA266157	SLAPS LOADOUT	06/13/23	Gross Alpha/Beta	Gross Alpha	4.70E-15	7.08E-15	1.17E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266157	SLAPS LOADOUT	06/13/23	Gross Alpha/Beta	Gross Beta	2.10E-14	1.94E-14	3.08E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA266158	SLAPS LOADOUT	06/13/23	Gross Alpha/Beta	Gross Alpha	3.13E-15	6.34E-15	1.17E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266158	SLAPS LOADOUT	06/13/23	Gross Alpha/Beta	Gross Beta	2.00E-14	1.93E-14	3.08E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA266159	SLAPS LOADOUT	06/13/23	Gross Alpha/Beta	Gross Alpha	8.28E-15	7.16E-15	8.82E-15	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air

Table C-4. SLAPS Perimeter Air Data Results for CY 2023 (Continued)

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
SLA266159	SLAPS LOADOUT	06/13/23	Gross Alpha/Beta	Gross Beta	3.31E-14	1.65E-14	2.33E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA266160	SLAPS LOADOUT	06/13/23	Gross Alpha/Beta	Gross Alpha	7.10E-15	6.75E-15	8.82E-15	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA266160	SLAPS LOADOUT	06/13/23	Gross Alpha/Beta	Gross Beta	2.56E-14	1.57E-14	2.33E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA266161	SLAPS LOADOUT	06/13/23	Gross Alpha/Beta	Gross Alpha	2.41E-15	4.88E-15	9.00E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266161	SLAPS LOADOUT	06/13/23	Gross Alpha/Beta	Gross Beta	1.77E-14	1.51E-14	2.37E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA266162	SLAPS LOADOUT	06/14/23	Gross Alpha/Beta	Gross Alpha	7.10E-15	6.75E-15	8.82E-15	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA266162	SLAPS LOADOUT	06/14/23	Gross Alpha/Beta	Gross Beta	4.81E-14	1.80E-14	2.33E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA266163	SLAPS LOADOUT	06/14/23	Gross Alpha/Beta	Gross Alpha	0	3.42E-15	8.82E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266163	SLAPS LOADOUT	06/14/23	Gross Alpha/Beta	Gross Beta	3.76E-14	1.70E-14	2.33E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA266164	SLAPS LOADOUT	06/14/23	Gross Alpha/Beta	Gross Alpha	4.73E-15	5.85E-15	8.82E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266164	SLAPS LOADOUT	06/14/23	Gross Alpha/Beta	Gross Beta	3.09E-14	1.63E-14	2.33E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA266165	SLAPS LOADOUT	06/15/23	Gross Alpha/Beta	Gross Alpha	2.37E-15	4.78E-15	8.82E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266165	SLAPS LOADOUT	06/15/23	Gross Alpha/Beta	Gross Beta	1.29E-14	1.44E-14	2.33E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266166	SLAPS LOADOUT	06/15/23	Gross Alpha/Beta	Gross Alpha	8.28E-15	7.16E-15	8.82E-15	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA266166	SLAPS LOADOUT	06/15/23	Gross Alpha/Beta	Gross Beta	3.46E-14	1.67E-14	2.33E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA266167	SLAPS LOADOUT	06/15/23	Gross Alpha/Beta	Gross Alpha	1.07E-14	7.92E-15	8.82E-15	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA266167	SLAPS LOADOUT	06/15/23	Gross Alpha/Beta	Gross Beta	5.41E-14	1.86E-14	2.33E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA266168	SLAPS LOADOUT	06/19/23	Gross Alpha/Beta	Gross Alpha	9.77E-15	1.04E-14	1.48E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266168	SLAPS LOADOUT	06/19/23	Gross Alpha/Beta	Gross Beta	5.57E-14	2.58E-14	3.55E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA266169	SLAPS LOADOUT	06/19/23	Gross Alpha/Beta	Gross Alpha	2.50E-15	7.38E-15	1.48E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266169	SLAPS LOADOUT	06/19/23	Gross Alpha/Beta	Gross Beta	4.76E-14	2.49E-14	3.55E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA266170	SLAPS LOADOUT	06/19/23	Gross Alpha/Beta	Gross Alpha	7.96E-15	9.72E-15	1.48E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266170	SLAPS LOADOUT	06/19/23	Gross Alpha/Beta	Gross Beta	4.29E-14	2.44E-14	3.55E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA266171	SLAPS LOADOUT	06/19/23	Gross Alpha/Beta	Gross Alpha	4.68E-16	4.41E-15	1.02E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266171	SLAPS LOADOUT	06/19/23	Gross Alpha/Beta	Gross Beta	4.46E-14	1.83E-14	2.44E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA266172	SLAPS LOADOUT	06/19/23	Gross Alpha/Beta	Gross Alpha	2.97E-15	5.65E-15	1.02E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266172	SLAPS LOADOUT	06/19/23	Gross Alpha/Beta	Gross Beta	4.70E-14	1.86E-14	2.44E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA266173	SLAPS LOADOUT	06/19/23	Gross Alpha/Beta	Gross Alpha	6.65E-15	7.06E-15	1.01E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266173	SLAPS LOADOUT	06/19/23	Gross Alpha/Beta	Gross Beta	4.73E-14	1.85E-14	2.42E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA266174	SLAPS LOADOUT	06/20/23	Gross Alpha/Beta	Gross Alpha	4.09E-15	6.00E-15	9.88E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266174	SLAPS LOADOUT	06/20/23	Gross Alpha/Beta	Gross Beta	4.17E-14	1.76E-14	2.37E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA266175	SLAPS LOADOUT	06/20/23	Gross Alpha/Beta	Gross Alpha	7.73E-15	7.34E-15	9.88E-15	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA266175	SLAPS LOADOUT	06/20/23	Gross Alpha/Beta	Gross Beta	3.48E-14	1.69E-14	2.37E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA266176	SLAPS LOADOUT	06/20/23	Gross Alpha/Beta	Gross Alpha	1.14E-14	8.48E-15	9.88E-15	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA266176	SLAPS LOADOUT	06/20/23	Gross Alpha/Beta	Gross Beta	2.94E-14	1.64E-14	2.37E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA266177	SLAPS LOADOUT	06/21/23	Gross Alpha/Beta	Gross Alpha	1.38E-14	9.17E-15	9.88E-15	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA266177	SLAPS LOADOUT	06/21/23	Gross Alpha/Beta	Gross Beta	2.71E-14	1.61E-14	2.37E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA266178	SLAPS LOADOUT	06/21/23	Gross Alpha/Beta	Gross Alpha	2.88E-15	5.49E-15	9.88E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266178	SLAPS LOADOUT	06/21/23	Gross Alpha/Beta	Gross Beta	1.55E-14	1.49E-14	2.37E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA266179	SLAPS LOADOUT	06/21/23	Gross Alpha/Beta	Gross Alpha	1.67E-15	4.92E-15	9.88E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air

Table C-4. SLAPS Perimeter Air Data Results for CY 2023 (Continued)

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
SLA266179	SLAPS LOADOUT	06/21/23	Gross Alpha/Beta	Gross Beta	3.71E-14	1.72E-14	2.37E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA266180	SLAPS LOADOUT	06/22/23	Gross Alpha/Beta	Gross Alpha	7.12E-15	7.35E-15	1.05E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266180	SLAPS LOADOUT	06/22/23	Gross Alpha/Beta	Gross Beta	3.34E-14	1.67E-14	2.35E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA266181	SLAPS LOADOUT	06/22/23	Gross Alpha/Beta	Gross Alpha	4.70E-15	6.48E-15	1.05E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266181	SLAPS LOADOUT	06/22/23	Gross Alpha/Beta	Gross Beta	3.57E-14	1.69E-14	2.35E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA266182	SLAPS LOADOUT	06/22/23	Gross Alpha/Beta	Gross Alpha	5.97E-15	7.00E-15	1.06E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266182	SLAPS LOADOUT	06/22/23	Gross Alpha/Beta	Gross Beta	4.00E-14	1.75E-14	2.37E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA266183	SLAPS LOADOUT	06/26/23	Gross Alpha/Beta	Gross Alpha	3.56E-15	6.13E-15	1.07E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266183	SLAPS LOADOUT	06/26/23	Gross Alpha/Beta	Gross Beta	2.62E-14	1.62E-14	2.40E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA266184	SLAPS LOADOUT	06/26/23	Gross Alpha/Beta	Gross Alpha	2.30E-15	5.55E-15	1.06E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266184	SLAPS LOADOUT	06/26/23	Gross Alpha/Beta	Gross Beta	2.44E-14	1.59E-14	2.37E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA266185	SLAPS LOADOUT	06/26/23	Gross Alpha/Beta	Gross Alpha	2.27E-15	5.49E-15	1.05E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266185	SLAPS LOADOUT	06/26/23	Gross Alpha/Beta	Gross Beta	2.11E-14	1.54E-14	2.35E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA266186	SLAPS LOADOUT	06/27/23	Gross Alpha/Beta	Gross Alpha	-1.52E-16	4.29E-15	1.05E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266186	SLAPS LOADOUT	06/27/23	Gross Alpha/Beta	Gross Beta	1.95E-14	1.52E-14	2.35E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA266187	SLAPS LOADOUT	06/27/23	Gross Alpha/Beta	Gross Alpha	4.70E-15	6.48E-15	1.05E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266187	SLAPS LOADOUT	06/27/23	Gross Alpha/Beta	Gross Beta	1.06E-15	1.32E-14	2.35E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266188	SLAPS LOADOUT	06/27/23	Gross Alpha/Beta	Gross Alpha	3.45E-15	5.95E-15	1.04E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266188	SLAPS LOADOUT	06/27/23	Gross Alpha/Beta	Gross Beta	2.70E-14	1.59E-14	2.33E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA266189	SLAPS LOADOUT	06/28/23	Gross Alpha/Beta	Gross Alpha	5.91E-15	6.93E-15	1.05E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266189	SLAPS LOADOUT	06/28/23	Gross Alpha/Beta	Gross Beta	6.45E-15	1.38E-14	2.35E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266190	SLAPS LOADOUT	06/28/23	Gross Alpha/Beta	Gross Alpha	4.70E-15	6.48E-15	1.05E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266190	SLAPS LOADOUT	06/28/23	Gross Alpha/Beta	Gross Beta	2.96E-14	1.63E-14	2.35E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA266191	SLAPS LOADOUT	06/28/23	Gross Alpha/Beta	Gross Alpha	1.56E-14	9.81E-15	1.05E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA266191	SLAPS LOADOUT	06/28/23	Gross Alpha/Beta	Gross Beta	2.03E-14	1.53E-14	2.35E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA266192	SLAPS LOADOUT	06/29/23	Gross Alpha/Beta	Gross Alpha	6.56E-15	7.17E-15	1.06E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266192	SLAPS LOADOUT	06/29/23	Gross Alpha/Beta	Gross Beta	1.29E-14	1.42E-14	2.29E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266193	SLAPS LOADOUT	06/29/23	Gross Alpha/Beta	Gross Alpha	-2.91E-15	2.54E-15	1.06E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266193	SLAPS LOADOUT	06/29/23	Gross Alpha/Beta	Gross Beta	1.52E-14	1.44E-14	2.29E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA266194	SLAPS LOADOUT	06/29/23	Gross Alpha/Beta	Gross Alpha	3.01E-15	5.87E-15	1.06E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266194	SLAPS LOADOUT	06/29/23	Gross Alpha/Beta	Gross Beta	2.27E-14	1.53E-14	2.29E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA266195	SLAPS LOADOUT	07/03/23	Gross Alpha/Beta	Gross Alpha	6.56E-15	7.17E-15	1.06E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266195	SLAPS LOADOUT	07/03/23	Gross Alpha/Beta	Gross Beta	5.27E-14	1.83E-14	2.29E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA266196	SLAPS LOADOUT	07/03/23	Gross Alpha/Beta	Gross Alpha	6.41E-16	4.82E-15	1.06E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266196	SLAPS LOADOUT	07/03/23	Gross Alpha/Beta	Gross Beta	3.77E-14	1.68E-14	2.29E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA266197	SLAPS LOADOUT	07/03/23	Gross Alpha/Beta	Gross Alpha	-2.91E-15	2.54E-15	1.06E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266197	SLAPS LOADOUT	07/03/23	Gross Alpha/Beta	Gross Beta	3.62E-14	1.67E-14	2.29E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA266198	SLAPS LOADOUT	07/05/23	Gross Alpha/Beta	Gross Alpha	-5.42E-16	4.20E-15	1.06E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266198	SLAPS LOADOUT	07/05/23	Gross Alpha/Beta	Gross Beta	2.41E-15	1.30E-14	2.29E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266199	SLAPS LOADOUT	07/05/23	Gross Alpha/Beta	Gross Alpha	6.41E-16	4.82E-15	1.06E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air

Table C-4. SLAPS Perimeter Air Data Results for CY 2023 (Continued)

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
SLA266199	SLAPS LOADOUT	07/05/23	Gross Alpha/Beta	Gross Beta	4.52E-14	1.76E-14	2.29E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA266200	SLAPS LOADOUT	07/05/23	Gross Alpha/Beta	Gross Alpha	-5.42E-16	4.20E-15	1.06E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266200	SLAPS LOADOUT	07/05/23	Gross Alpha/Beta	Gross Beta	4.07E-14	1.71E-14	2.29E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA266201	SLAPS LOADOUT	07/06/23	Gross Alpha/Beta	Gross Alpha	-4.80E-17	4.06E-15	9.84E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266201	SLAPS LOADOUT	07/06/23	Gross Alpha/Beta	Gross Beta	2.72E-14	1.57E-14	2.30E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA266202	SLAPS LOADOUT	07/06/23	Gross Alpha/Beta	Gross Alpha	3.50E-15	5.86E-15	1.01E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266202	SLAPS LOADOUT	07/06/23	Gross Alpha/Beta	Gross Beta	3.62E-14	1.70E-14	2.37E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA266203	SLAPS LOADOUT	07/06/23	Gross Alpha/Beta	Gross Alpha	-3.60E-15	8.85E-16	1.01E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266203	SLAPS LOADOUT	07/06/23	Gross Alpha/Beta	Gross Beta	1.07E-14	1.44E-14	2.37E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266204	SLAPS LOADOUT	07/10/23	Gross Alpha/Beta	Gross Alpha	-4.90E-17	4.18E-15	1.01E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA266204	SLAPS LOADOUT	07/10/23	Gross Alpha/Beta	Gross Beta	5.44E-15	1.38E-14	2.37E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267572	SLAPS LOADOUT	07/10/23	Gross Alpha/Beta	Gross Alpha	2.32E-15	5.36E-15	1.01E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267572	SLAPS LOADOUT	07/10/23	Gross Alpha/Beta	Gross Beta	3.17E-14	1.66E-14	2.37E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA267573	SLAPS LOADOUT	07/10/23	Gross Alpha/Beta	Gross Alpha	-4.90E-17	4.18E-15	1.01E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267573	SLAPS LOADOUT	07/10/23	Gross Alpha/Beta	Gross Beta	-1.31E-15	1.30E-14	2.37E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267574	SLAPS LOADOUT	07/11/23	Gross Alpha/Beta	Gross Alpha	3.50E-15	5.86E-15	1.01E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267574	SLAPS LOADOUT	07/11/23	Gross Alpha/Beta	Gross Beta	3.25E-14	1.66E-14	2.37E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA267575	SLAPS LOADOUT	07/11/23	Gross Alpha/Beta	Gross Alpha	4.68E-15	6.33E-15	1.01E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267575	SLAPS LOADOUT	07/11/23	Gross Alpha/Beta	Gross Beta	2.20E-14	1.56E-14	2.37E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA267576	SLAPS LOADOUT	07/11/23	Gross Alpha/Beta	Gross Alpha	-1.23E-15	3.45E-15	1.01E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267576	SLAPS LOADOUT	07/11/23	Gross Alpha/Beta	Gross Beta	5.44E-15	1.38E-14	2.37E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267577	SLAPS LOADOUT	07/12/23	Gross Alpha/Beta	Gross Alpha	2.29E-15	5.31E-15	1.00E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267577	SLAPS LOADOUT	07/12/23	Gross Alpha/Beta	Gross Beta	9.11E-15	1.41E-14	2.35E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267578	SLAPS LOADOUT	07/12/23	Gross Alpha/Beta	Gross Alpha	4.64E-15	6.27E-15	1.00E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267578	SLAPS LOADOUT	07/12/23	Gross Alpha/Beta	Gross Beta	2.77E-14	1.60E-14	2.35E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA267579	SLAPS LOADOUT	07/12/23	Gross Alpha/Beta	Gross Alpha	-4.90E-17	4.14E-15	1.00E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267579	SLAPS LOADOUT	07/12/23	Gross Alpha/Beta	Gross Beta	1.67E-15	1.32E-14	2.35E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267580	SLAPS LOADOUT	07/12/23	Gross Alpha/Beta	Gross Alpha	-4.90E-17	4.18E-15	1.01E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267580	SLAPS LOADOUT	07/12/23	Gross Alpha/Beta	Gross Beta	2.95E-14	1.63E-14	2.37E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA267581	SLAPS LOADOUT	07/12/23	Gross Alpha/Beta	Gross Alpha	3.50E-15	5.86E-15	1.01E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267581	SLAPS LOADOUT	07/12/23	Gross Alpha/Beta	Gross Beta	2.57E-14	1.59E-14	2.37E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA267582	SLAPS LOADOUT	07/12/23	Gross Alpha/Beta	Gross Alpha	-2.42E-15	2.52E-15	1.01E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267582	SLAPS LOADOUT	07/12/23	Gross Alpha/Beta	Gross Beta	2.05E-14	1.54E-14	2.37E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA267583	SLAPS LOADOUT	07/13/23	Gross Alpha/Beta	Gross Alpha	9.86E-16	3.39E-15	7.49E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267583	SLAPS LOADOUT	07/13/23	Gross Alpha/Beta	Gross Beta	7.44E-15	1.35E-14	2.28E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267584	SLAPS LOADOUT	07/13/23	Gross Alpha/Beta	Gross Alpha	9.86E-16	3.39E-15	7.49E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267584	SLAPS LOADOUT	07/13/23	Gross Alpha/Beta	Gross Beta	2.19E-15	1.29E-14	2.28E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267585	SLAPS LOADOUT	07/13/23	Gross Alpha/Beta	Gross Alpha	4.54E-15	5.33E-15	7.49E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267585	SLAPS LOADOUT	07/13/23	Gross Alpha/Beta	Gross Beta	8.19E-15	1.36E-14	2.28E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267586	SLAPS LOADOUT	07/17/23	Gross Alpha/Beta	Gross Alpha	3.35E-15	4.77E-15	7.49E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air

Table C-4. SLAPS Perimeter Air Data Results for CY 2023 (Continued)

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
SLA267586	SLAPS LOADOUT	07/17/23	Gross Alpha/Beta	Gross Beta	8.95E-15	1.37E-14	2.28E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267587	SLAPS LOADOUT	07/17/23	Gross Alpha/Beta	Gross Alpha	-1.97E-16	2.42E-15	7.49E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267587	SLAPS LOADOUT	07/17/23	Gross Alpha/Beta	Gross Beta	1.95E-14	1.49E-14	2.28E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA267588	SLAPS LOADOUT	07/17/23	Gross Alpha/Beta	Gross Alpha	3.35E-15	4.77E-15	7.49E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267588	SLAPS LOADOUT	07/17/23	Gross Alpha/Beta	Gross Beta	3.15E-14	1.61E-14	2.28E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA267589	SLAPS LOADOUT	07/17/23	Gross Alpha/Beta	Gross Alpha	1.44E-15	4.94E-15	1.09E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267589	SLAPS LOADOUT	07/17/23	Gross Alpha/Beta	Gross Beta	1.30E-14	1.99E-14	3.33E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267590	SLAPS LOADOUT	07/17/23	Gross Alpha/Beta	Gross Alpha	4.88E-15	6.95E-15	1.09E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267590	SLAPS LOADOUT	07/17/23	Gross Alpha/Beta	Gross Beta	1.09E-14	1.97E-14	3.33E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267591	SLAPS LOADOUT	07/17/23	Gross Alpha/Beta	Gross Alpha	4.88E-15	6.95E-15	1.09E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267591	SLAPS LOADOUT	07/17/23	Gross Alpha/Beta	Gross Beta	5.38E-15	1.91E-14	3.33E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267592	SLAPS LOADOUT	07/18/23	Gross Alpha/Beta	Gross Alpha	-1.97E-16	2.42E-15	7.49E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267592	SLAPS LOADOUT	07/18/23	Gross Alpha/Beta	Gross Beta	3.75E-14	1.68E-14	2.28E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267593	SLAPS LOADOUT	07/18/23	Gross Alpha/Beta	Gross Alpha	3.35E-15	4.77E-15	7.49E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267593	SLAPS LOADOUT	07/18/23	Gross Alpha/Beta	Gross Beta	6.69E-15	1.34E-14	2.28E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267594	SLAPS LOADOUT	07/18/23	Gross Alpha/Beta	Gross Alpha	5.72E-15	5.84E-15	7.49E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267594	SLAPS LOADOUT	07/18/23	Gross Alpha/Beta	Gross Beta	2.77E-14	1.57E-14	2.28E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA267595	SLAPS LOADOUT	07/19/23	Gross Alpha/Beta	Gross Alpha	9.26E-15	8.46E-15	1.01E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA267595	SLAPS LOADOUT	07/19/23	Gross Alpha/Beta	Gross Beta	5.13E-14	2.26E-14	3.06E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267596	SLAPS LOADOUT	07/19/23	Gross Alpha/Beta	Gross Alpha	4.50E-15	6.40E-15	1.01E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267596	SLAPS LOADOUT	07/19/23	Gross Alpha/Beta	Gross Beta	8.98E-15	1.80E-14	3.06E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267597	SLAPS LOADOUT	07/19/23	Gross Alpha/Beta	Gross Alpha	1.32E-15	4.55E-15	1.01E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267597	SLAPS LOADOUT	07/19/23	Gross Alpha/Beta	Gross Beta	2.01E-14	1.93E-14	3.06E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA267598	SLAPS LOADOUT	07/19/23	Gross Alpha/Beta	Gross Alpha	5.72E-15	5.84E-15	7.49E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267598	SLAPS LOADOUT	07/19/23	Gross Alpha/Beta	Gross Beta	1.95E-14	1.49E-14	2.28E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA267599	SLAPS LOADOUT	07/19/23	Gross Alpha/Beta	Gross Alpha	4.54E-15	5.33E-15	7.49E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267599	SLAPS LOADOUT	07/19/23	Gross Alpha/Beta	Gross Beta	1.65E-14	1.45E-14	2.28E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA267600	SLAPS LOADOUT	07/19/23	Gross Alpha/Beta	Gross Alpha	5.72E-15	5.84E-15	7.49E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267600	SLAPS LOADOUT	07/19/23	Gross Alpha/Beta	Gross Beta	1.65E-14	1.45E-14	2.28E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA267601	SLAPS LOADOUT	07/20/23	Gross Alpha/Beta	Gross Alpha	3.25E-15	5.35E-15	9.16E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267601	SLAPS LOADOUT	07/20/23	Gross Alpha/Beta	Gross Beta	1.16E-14	1.44E-14	2.36E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267602	SLAPS LOADOUT	07/20/23	Gross Alpha/Beta	Gross Alpha	2.07E-15	4.79E-15	9.16E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267602	SLAPS LOADOUT	07/20/23	Gross Alpha/Beta	Gross Beta	1.24E-14	1.45E-14	2.36E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267603	SLAPS LOADOUT	07/20/23	Gross Alpha/Beta	Gross Alpha	5.62E-15	6.32E-15	9.16E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267603	SLAPS LOADOUT	07/20/23	Gross Alpha/Beta	Gross Beta	2.14E-14	1.55E-14	2.36E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA267604	SLAPS LOADOUT	07/24/23	Gross Alpha/Beta	Gross Alpha	-1.48E-15	2.48E-15	9.16E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267604	SLAPS LOADOUT	07/24/23	Gross Alpha/Beta	Gross Beta	-6.38E-15	1.24E-14	2.36E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267605	SLAPS LOADOUT	07/24/23	Gross Alpha/Beta	Gross Alpha	2.07E-15	4.79E-15	9.16E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267605	SLAPS LOADOUT	07/24/23	Gross Alpha/Beta	Gross Beta	2.74E-14	1.61E-14	2.36E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA267606	SLAPS LOADOUT	07/24/23	Gross Alpha/Beta	Gross Alpha	4.44E-15	5.85E-15	9.16E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air

Table C-4. SLAPS Perimeter Air Data Results for CY 2023 (Continued)

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
SLA267606	SLAPS LOADOUT	07/24/23	Gross Alpha/Beta	Gross Beta	3.57E-14	1.69E-14	2.36E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267607	SLAPS LOADOUT	07/25/23	Gross Alpha/Beta	Gross Alpha	4.44E-15	5.85E-15	9.16E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267607	SLAPS LOADOUT	07/25/23	Gross Alpha/Beta	Gross Beta	8.63E-15	1.41E-14	2.36E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267608	SLAPS LOADOUT	07/25/23	Gross Alpha/Beta	Gross Alpha	-1.48E-15	2.48E-15	9.16E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267608	SLAPS LOADOUT	07/25/23	Gross Alpha/Beta	Gross Beta	3.19E-14	1.66E-14	2.36E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA267609	SLAPS LOADOUT	07/25/23	Gross Alpha/Beta	Gross Alpha	-1.46E-15	2.45E-15	9.07E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267609	SLAPS LOADOUT	07/25/23	Gross Alpha/Beta	Gross Beta	4.42E-14	1.77E-14	2.34E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267610	SLAPS LOADOUT	07/26/23	Gross Alpha/Beta	Gross Alpha	-2.65E-16	3.06E-15	8.20E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267610	SLAPS LOADOUT	07/26/23	Gross Alpha/Beta	Gross Beta	2.59E-14	1.45E-14	2.12E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA267611	SLAPS LOADOUT	07/26/23	Gross Alpha/Beta	Gross Alpha	1.05E-14	7.54E-15	8.34E-15	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA267611	SLAPS LOADOUT	07/26/23	Gross Alpha/Beta	Gross Beta	1.81E-14	1.40E-14	2.15E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA267612	SLAPS LOADOUT	07/26/23	Gross Alpha/Beta	Gross Alpha	-1.32E-15	2.22E-15	8.20E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267612	SLAPS LOADOUT	07/26/23	Gross Alpha/Beta	Gross Beta	1.78E-14	1.37E-14	2.12E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA267613	SLAPS LOADOUT	07/27/23	Gross Alpha/Beta	Gross Alpha	3.16E-15	4.77E-15	7.79E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267613	SLAPS LOADOUT	07/27/23	Gross Alpha/Beta	Gross Beta	3.67E-14	1.70E-14	2.34E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267614	SLAPS LOADOUT	07/27/23	Gross Alpha/Beta	Gross Alpha	9.07E-15	7.15E-15	7.79E-15	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA267614	SLAPS LOADOUT	07/27/23	Gross Alpha/Beta	Gross Beta	4.72E-14	1.80E-14	2.34E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267615	SLAPS LOADOUT	07/27/23	Gross Alpha/Beta	Gross Alpha	7.89E-16	3.39E-15	7.79E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267615	SLAPS LOADOUT	07/27/23	Gross Alpha/Beta	Gross Beta	1.79E-14	1.50E-14	2.34E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA267616	SLAPS LOADOUT	07/31/23	Gross Alpha/Beta	Gross Alpha	1.97E-15	4.14E-15	7.79E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267616	SLAPS LOADOUT	07/31/23	Gross Alpha/Beta	Gross Beta	4.49E-14	1.78E-14	2.34E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267617	SLAPS LOADOUT	07/31/23	Gross Alpha/Beta	Gross Alpha	7.89E-16	3.39E-15	7.79E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267617	SLAPS LOADOUT	07/31/23	Gross Alpha/Beta	Gross Beta	5.16E-15	1.36E-14	2.34E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267618	SLAPS LOADOUT	07/31/23	Gross Alpha/Beta	Gross Alpha	1.97E-15	4.14E-15	7.79E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267618	SLAPS LOADOUT	07/31/23	Gross Alpha/Beta	Gross Beta	2.84E-14	1.61E-14	2.34E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA267619	SLAPS LOADOUT	08/01/23	Gross Alpha/Beta	Gross Alpha	7.89E-16	3.39E-15	7.79E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267619	SLAPS LOADOUT	08/01/23	Gross Alpha/Beta	Gross Beta	2.69E-14	1.60E-14	2.34E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA267620	SLAPS LOADOUT	08/01/23	Gross Alpha/Beta	Gross Alpha	7.89E-15	6.74E-15	7.79E-15	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA267620	SLAPS LOADOUT	08/01/23	Gross Alpha/Beta	Gross Beta	2.16E-15	1.33E-14	2.34E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267621	SLAPS LOADOUT	08/01/23	Gross Alpha/Beta	Gross Alpha	3.16E-15	4.77E-15	7.79E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267621	SLAPS LOADOUT	08/01/23	Gross Alpha/Beta	Gross Beta	4.04E-14	1.73E-14	2.34E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267622	SLAPS LOADOUT	08/03/23	Gross Alpha/Beta	Gross Alpha	2.42E-15	5.49E-15	1.03E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267622	SLAPS LOADOUT	08/03/23	Gross Alpha/Beta	Gross Beta	2.58E-14	1.57E-14	2.32E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA267623	SLAPS LOADOUT	08/03/23	Gross Alpha/Beta	Gross Alpha	3.64E-15	6.01E-15	1.03E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267623	SLAPS LOADOUT	08/03/23	Gross Alpha/Beta	Gross Beta	3.59E-14	1.68E-14	2.32E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267624	SLAPS LOADOUT	08/03/23	Gross Alpha/Beta	Gross Alpha	2.42E-15	5.49E-15	1.03E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267624	SLAPS LOADOUT	08/03/23	Gross Alpha/Beta	Gross Beta	1.89E-14	1.50E-14	2.32E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA267625	SLAPS LOADOUT	08/07/23	Gross Alpha/Beta	Gross Alpha	4.85E-15	6.48E-15	1.03E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267625	SLAPS LOADOUT	08/07/23	Gross Alpha/Beta	Gross Beta	2.58E-14	1.57E-14	2.32E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA267626	SLAPS LOADOUT	08/07/23	Gross Alpha/Beta	Gross Alpha	4.85E-15	6.48E-15	1.03E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air

Table C-4. SLAPS Perimeter Air Data Results for CY 2023 (Continued)

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
SLA267626	SLAPS LOADOUT	08/07/23	Gross Alpha/Beta	Gross Beta	2.97E-14	1.62E-14	2.32E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA267627	SLAPS LOADOUT	08/07/23	Gross Alpha/Beta	Gross Alpha	4.85E-15	6.48E-15	1.03E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267627	SLAPS LOADOUT	08/07/23	Gross Alpha/Beta	Gross Beta	3.97E-14	1.72E-14	2.32E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267628	SLAPS LOADOUT	08/08/23	Gross Alpha/Beta	Gross Alpha	0	4.29E-15	1.03E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267628	SLAPS LOADOUT	08/08/23	Gross Alpha/Beta	Gross Beta	6.58E-15	1.36E-14	2.32E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267629	SLAPS LOADOUT	08/08/23	Gross Alpha/Beta	Gross Alpha	1.70E-14	1.01E-14	1.03E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA267629	SLAPS LOADOUT	08/08/23	Gross Alpha/Beta	Gross Beta	2.04E-14	1.52E-14	2.32E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA267630	SLAPS LOADOUT	08/08/23	Gross Alpha/Beta	Gross Alpha	1.09E-14	8.48E-15	1.03E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA267630	SLAPS LOADOUT	08/08/23	Gross Alpha/Beta	Gross Beta	7.28E-14	2.05E-14	2.32E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267631	SLAPS LOADOUT	08/09/23	Gross Alpha/Beta	Gross Alpha	0	9.11E-15	2.20E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267631	SLAPS LOADOUT	08/09/23	Gross Alpha/Beta	Gross Beta	4.18E-14	3.20E-14	4.92E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA267632	SLAPS LOADOUT	08/09/23	Gross Alpha/Beta	Gross Alpha	2.58E-15	1.05E-14	2.20E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267632	SLAPS LOADOUT	08/09/23	Gross Alpha/Beta	Gross Beta	1.07E-14	2.85E-14	4.92E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267633	SLAPS LOADOUT	08/09/23	Gross Alpha/Beta	Gross Alpha	1.29E-14	1.47E-14	2.20E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267633	SLAPS LOADOUT	08/09/23	Gross Alpha/Beta	Gross Beta	2.22E-14	2.98E-14	4.92E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267634	SLAPS LOADOUT	08/10/23	Gross Alpha/Beta	Gross Alpha	1.78E-15	4.14E-15	8.07E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267634	SLAPS LOADOUT	08/10/23	Gross Alpha/Beta	Gross Beta	6.66E-15	1.37E-14	2.33E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267635	SLAPS LOADOUT	08/10/23	Gross Alpha/Beta	Gross Alpha	2.96E-15	4.77E-15	8.07E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267635	SLAPS LOADOUT	08/10/23	Gross Alpha/Beta	Gross Beta	3.37E-14	1.66E-14	2.33E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267636	SLAPS LOADOUT	08/10/23	Gross Alpha/Beta	Gross Alpha	5.92E-16	3.40E-15	8.07E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267636	SLAPS LOADOUT	08/10/23	Gross Alpha/Beta	Gross Beta	5.16E-15	1.35E-14	2.33E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267637	SLAPS LOADOUT	08/14/23	Gross Alpha/Beta	Gross Alpha	1.78E-15	4.14E-15	8.07E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267637	SLAPS LOADOUT	08/14/23	Gross Alpha/Beta	Gross Beta	1.12E-14	1.42E-14	2.33E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267638	SLAPS LOADOUT	08/14/23	Gross Alpha/Beta	Gross Alpha	5.92E-16	3.40E-15	8.07E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267638	SLAPS LOADOUT	08/14/23	Gross Alpha/Beta	Gross Beta	2.02E-14	1.52E-14	2.33E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA267639	SLAPS LOADOUT	08/14/23	Gross Alpha/Beta	Gross Alpha	1.78E-15	4.14E-15	8.07E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267639	SLAPS LOADOUT	08/14/23	Gross Alpha/Beta	Gross Beta	1.72E-14	1.48E-14	2.33E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA267640	SLAPS LOADOUT	08/15/23	Gross Alpha/Beta	Gross Alpha	5.92E-16	3.40E-15	8.07E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267640	SLAPS LOADOUT	08/15/23	Gross Alpha/Beta	Gross Beta	1.49E-14	1.46E-14	2.33E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA267641	SLAPS LOADOUT	08/15/23	Gross Alpha/Beta	Gross Alpha	1.78E-15	4.14E-15	8.07E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267641	SLAPS LOADOUT	08/15/23	Gross Alpha/Beta	Gross Beta	7.41E-15	1.38E-14	2.33E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267642	SLAPS LOADOUT	08/15/23	Gross Alpha/Beta	Gross Alpha	6.51E-15	6.31E-15	8.07E-15	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA267642	SLAPS LOADOUT	08/15/23	Gross Alpha/Beta	Gross Beta	9.66E-15	1.40E-14	2.33E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267643	SLAPS LOADOUT	08/16/23	Gross Alpha/Beta	Gross Alpha	1.12E-14	7.92E-15	8.07E-15	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA267643	SLAPS LOADOUT	08/16/23	Gross Alpha/Beta	Gross Beta	2.09E-14	1.52E-14	2.33E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA267644	SLAPS LOADOUT	08/16/23	Gross Alpha/Beta	Gross Alpha	1.78E-15	4.14E-15	8.07E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267644	SLAPS LOADOUT	08/16/23	Gross Alpha/Beta	Gross Beta	1.04E-14	1.41E-14	2.33E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267645	SLAPS LOADOUT	08/16/23	Gross Alpha/Beta	Gross Alpha	1.24E-14	8.27E-15	8.07E-15	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA267645	SLAPS LOADOUT	08/16/23	Gross Alpha/Beta	Gross Beta	4.34E-14	1.76E-14	2.33E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267646	SLAPS LOADOUT	08/16/23	Gross Alpha/Beta	Gross Alpha	7.69E-15	6.74E-15	8.07E-15	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air

Table C-4. SLAPS Perimeter Air Data Results for CY 2023 (Continued)

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
SLA267646	SLAPS LOADOUT	08/16/23	Gross Alpha/Beta	Gross Beta	3.52E-14	1.67E-14	2.33E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267647	SLAPS LOADOUT	08/16/23	Gross Alpha/Beta	Gross Alpha	2.96E-15	4.77E-15	8.07E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267647	SLAPS LOADOUT	08/16/23	Gross Alpha/Beta	Gross Beta	1.49E-14	1.46E-14	2.33E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA267648	SLAPS LOADOUT	08/16/23	Gross Alpha/Beta	Gross Alpha	1.12E-14	7.92E-15	8.07E-15	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA267648	SLAPS LOADOUT	08/16/23	Gross Alpha/Beta	Gross Beta	2.77E-14	1.60E-14	2.33E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA267649	SLAPS LOADOUT	08/17/23	Gross Alpha/Beta	Gross Alpha	1.53E-15	4.15E-15	8.39E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267649	SLAPS LOADOUT	08/17/23	Gross Alpha/Beta	Gross Beta	1.55E-14	1.44E-14	2.29E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA267650	SLAPS LOADOUT	08/17/23	Gross Alpha/Beta	Gross Alpha	1.53E-15	4.15E-15	8.39E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267650	SLAPS LOADOUT	08/17/23	Gross Alpha/Beta	Gross Beta	2.23E-14	1.52E-14	2.29E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA267651	SLAPS LOADOUT	08/17/23	Gross Alpha/Beta	Gross Alpha	2.71E-15	4.78E-15	8.39E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267651	SLAPS LOADOUT	08/17/23	Gross Alpha/Beta	Gross Beta	1.25E-14	1.41E-14	2.29E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267652	SLAPS LOADOUT	08/21/23	Gross Alpha/Beta	Gross Alpha	3.45E-16	3.41E-15	8.39E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267652	SLAPS LOADOUT	08/21/23	Gross Alpha/Beta	Gross Beta	1.93E-14	1.49E-14	2.29E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA267653	SLAPS LOADOUT	08/21/23	Gross Alpha/Beta	Gross Alpha	3.45E-16	3.41E-15	8.39E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267653	SLAPS LOADOUT	08/21/23	Gross Alpha/Beta	Gross Beta	4.78E-14	1.78E-14	2.29E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267654	SLAPS LOADOUT	08/21/23	Gross Alpha/Beta	Gross Alpha	3.45E-16	3.41E-15	8.39E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267654	SLAPS LOADOUT	08/21/23	Gross Alpha/Beta	Gross Beta	1.70E-14	1.46E-14	2.29E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA267655	SLAPS LOADOUT	08/21/23	Gross Alpha/Beta	Gross Alpha	2.71E-15	4.78E-15	8.39E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267655	SLAPS LOADOUT	08/21/23	Gross Alpha/Beta	Gross Beta	6.66E-14	1.96E-14	2.29E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267656	SLAPS LOADOUT	08/21/23	Gross Alpha/Beta	Gross Alpha	5.08E-15	5.84E-15	8.39E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267656	SLAPS LOADOUT	08/21/23	Gross Alpha/Beta	Gross Beta	2.08E-14	1.50E-14	2.29E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA267657	SLAPS LOADOUT	08/21/23	Gross Alpha/Beta	Gross Alpha	8.63E-15	7.16E-15	8.39E-15	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA267657	SLAPS LOADOUT	08/21/23	Gross Alpha/Beta	Gross Beta	7.26E-14	2.02E-14	2.29E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267658	SLAPS LOADOUT	08/22/23	Gross Alpha/Beta	Gross Alpha	7.44E-15	6.75E-15	8.39E-15	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA267658	SLAPS LOADOUT	08/22/23	Gross Alpha/Beta	Gross Beta	7.78E-14	2.07E-14	2.29E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267659	SLAPS LOADOUT	08/22/23	Gross Alpha/Beta	Gross Alpha	6.26E-15	6.31E-15	8.39E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267659	SLAPS LOADOUT	08/22/23	Gross Alpha/Beta	Gross Beta	8.76E-14	2.16E-14	2.29E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267660	SLAPS LOADOUT	08/22/23	Gross Alpha/Beta	Gross Alpha	-8.38E-16	2.45E-15	8.39E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267660	SLAPS LOADOUT	08/22/23	Gross Alpha/Beta	Gross Beta	1.25E-15	1.28E-14	2.29E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267661	SLAPS LOADOUT	08/23/23	Gross Alpha/Beta	Gross Alpha	1.53E-15	4.15E-15	8.39E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267661	SLAPS LOADOUT	08/23/23	Gross Alpha/Beta	Gross Beta	6.96E-14	1.99E-14	2.29E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267662	SLAPS LOADOUT	08/23/23	Gross Alpha/Beta	Gross Alpha	3.45E-16	3.41E-15	8.39E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267662	SLAPS LOADOUT	08/23/23	Gross Alpha/Beta	Gross Beta	5.38E-14	1.84E-14	2.29E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267663	SLAPS LOADOUT	08/23/23	Gross Alpha/Beta	Gross Alpha	1.53E-15	4.15E-15	8.39E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267663	SLAPS LOADOUT	08/23/23	Gross Alpha/Beta	Gross Beta	2.23E-14	1.52E-14	2.29E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA267664	SLAPS LOADOUT	08/24/23	Gross Alpha/Beta	Gross Alpha	2.41E-15	5.32E-15	1.01E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267664	SLAPS LOADOUT	08/24/23	Gross Alpha/Beta	Gross Beta	4.31E-15	1.03E-14	1.80E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267665	SLAPS LOADOUT	08/24/23	Gross Alpha/Beta	Gross Alpha	-2.19E-16	3.80E-15	1.01E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267665	SLAPS LOADOUT	08/24/23	Gross Alpha/Beta	Gross Beta	3.88E-14	1.50E-14	1.80E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267666	SLAPS LOADOUT	08/24/23	Gross Alpha/Beta	Gross Alpha	6.35E-15	7.01E-15	1.01E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air

Table C-4. SLAPS Perimeter Air Data Results for CY 2023 (Continued)

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
SLA267666	SLAPS LOADOUT	08/24/23	Gross Alpha/Beta	Gross Beta	8.20E-14	1.99E-14	1.80E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267667	SLAPS LOADOUT	08/28/23	Gross Alpha/Beta	Gross Alpha	3.72E-15	5.93E-15	1.01E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267667	SLAPS LOADOUT	08/28/23	Gross Alpha/Beta	Gross Beta	7.72E-14	1.93E-14	1.80E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267668	SLAPS LOADOUT	08/28/23	Gross Alpha/Beta	Gross Alpha	2.41E-15	5.32E-15	1.01E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267668	SLAPS LOADOUT	08/28/23	Gross Alpha/Beta	Gross Beta	1.63E-14	1.21E-14	1.80E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA267669	SLAPS LOADOUT	08/28/23	Gross Alpha/Beta	Gross Alpha	-2.19E-16	3.80E-15	1.01E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267669	SLAPS LOADOUT	08/28/23	Gross Alpha/Beta	Gross Beta	2.19E-14	1.29E-14	1.80E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA267670	SLAPS LOADOUT	08/29/23	Gross Alpha/Beta	Gross Alpha	-2.19E-16	3.80E-15	1.01E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267670	SLAPS LOADOUT	08/29/23	Gross Alpha/Beta	Gross Beta	3.56E-14	1.46E-14	1.80E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267671	SLAPS LOADOUT	08/29/23	Gross Alpha/Beta	Gross Alpha	1.10E-15	4.62E-15	1.01E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267671	SLAPS LOADOUT	08/29/23	Gross Alpha/Beta	Gross Beta	1.10E-15	9.80E-15	1.80E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267672	SLAPS LOADOUT	08/29/23	Gross Alpha/Beta	Gross Alpha	6.35E-15	7.01E-15	1.01E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267672	SLAPS LOADOUT	08/29/23	Gross Alpha/Beta	Gross Beta	4.04E-14	1.52E-14	1.80E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267673	SLAPS LOADOUT	08/30/23	Gross Alpha/Beta	Gross Alpha	2.41E-15	5.32E-15	1.01E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267673	SLAPS LOADOUT	08/30/23	Gross Alpha/Beta	Gross Beta	1.15E-14	1.14E-14	1.80E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA267674	SLAPS LOADOUT	08/30/23	Gross Alpha/Beta	Gross Alpha	3.72E-15	5.93E-15	1.01E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267674	SLAPS LOADOUT	08/30/23	Gross Alpha/Beta	Gross Beta	6.71E-15	1.07E-14	1.80E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267675	SLAPS LOADOUT	08/30/23	Gross Alpha/Beta	Gross Alpha	1.10E-15	4.62E-15	1.01E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267675	SLAPS LOADOUT	08/30/23	Gross Alpha/Beta	Gross Beta	2.35E-14	1.31E-14	1.80E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA267676	SLAPS LOADOUT	08/30/23	Gross Alpha/Beta	Gross Alpha	2.41E-15	5.32E-15	1.01E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267676	SLAPS LOADOUT	08/30/23	Gross Alpha/Beta	Gross Beta	1.31E-14	1.16E-14	1.80E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA267677	SLAPS LOADOUT	08/31/23	Gross Alpha/Beta	Gross Alpha	8.38E-16	4.16E-15	9.22E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267677	SLAPS LOADOUT	08/31/23	Gross Alpha/Beta	Gross Beta	1.27E-14	1.44E-14	2.34E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267678	SLAPS LOADOUT	08/31/23	Gross Alpha/Beta	Gross Alpha	-1.53E-15	2.48E-15	9.22E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267678	SLAPS LOADOUT	08/31/23	Gross Alpha/Beta	Gross Beta	7.41E-15	1.39E-14	2.34E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267679	SLAPS LOADOUT	08/31/23	Gross Alpha/Beta	Gross Alpha	-3.45E-16	3.43E-15	9.22E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267679	SLAPS LOADOUT	08/31/23	Gross Alpha/Beta	Gross Beta	6.66E-15	1.38E-14	2.34E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267680	SLAPS LOADOUT	08/31/23	Gross Alpha/Beta	Gross Alpha	2.02E-15	4.79E-15	9.22E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267680	SLAPS LOADOUT	08/31/23	Gross Alpha/Beta	Gross Beta	1.04E-14	1.42E-14	2.34E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267681	SLAPS LOADOUT	09/05/23	Gross Alpha/Beta	Gross Alpha	2.02E-15	4.79E-15	9.22E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267681	SLAPS LOADOUT	09/05/23	Gross Alpha/Beta	Gross Beta	3.66E-15	1.34E-14	2.34E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267682	SLAPS LOADOUT	09/05/23	Gross Alpha/Beta	Gross Alpha	2.02E-15	4.79E-15	9.22E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267682	SLAPS LOADOUT	09/05/23	Gross Alpha/Beta	Gross Beta	2.32E-14	1.56E-14	2.34E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA267683	SLAPS LOADOUT	09/05/23	Gross Alpha/Beta	Gross Alpha	8.38E-16	4.16E-15	9.22E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267683	SLAPS LOADOUT	09/05/23	Gross Alpha/Beta	Gross Beta	5.91E-15	1.37E-14	2.34E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267684	SLAPS LOADOUT	09/05/23	Gross Alpha/Beta	Gross Alpha	-1.53E-15	2.48E-15	9.22E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267684	SLAPS LOADOUT	09/05/23	Gross Alpha/Beta	Gross Beta	1.72E-14	1.49E-14	2.34E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA267685	SLAPS LOADOUT	09/06/23	Gross Alpha/Beta	Gross Alpha	7.94E-15	7.16E-15	9.22E-15	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA267685	SLAPS LOADOUT	09/06/23	Gross Alpha/Beta	Gross Beta	1.27E-14	1.44E-14	2.34E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267686	SLAPS LOADOUT	09/06/23	Gross Alpha/Beta	Gross Alpha	8.38E-16	4.16E-15	9.22E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air

Table C-4. SLAPS Perimeter Air Data Results for CY 2023 (Continued)

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
SLA267686	SLAPS LOADOUT	09/06/23	Gross Alpha/Beta	Gross Beta	1.87E-14	1.51E-14	2.34E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA267687	SLAPS LOADOUT	09/06/23	Gross Alpha/Beta	Gross Alpha	3.20E-15	5.35E-15	9.22E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267687	SLAPS LOADOUT	09/06/23	Gross Alpha/Beta	Gross Beta	6.66E-15	1.38E-14	2.34E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267688	SLAPS LOADOUT	09/06/23	Gross Alpha/Beta	Gross Alpha	4.39E-15	5.85E-15	9.22E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267688	SLAPS LOADOUT	09/06/23	Gross Alpha/Beta	Gross Beta	2.24E-14	1.55E-14	2.34E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA267689	SLAPS LOADOUT	09/07/23	Gross Alpha/Beta	Gross Alpha	1.14E-14	8.48E-15	9.82E-15	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA267689	SLAPS LOADOUT	09/07/23	Gross Alpha/Beta	Gross Beta	4.38E-14	1.79E-14	2.39E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267690	SLAPS LOADOUT	09/07/23	Gross Alpha/Beta	Gross Alpha	2.93E-15	5.48E-15	9.82E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267690	SLAPS LOADOUT	09/07/23	Gross Alpha/Beta	Gross Beta	2.30E-14	1.58E-14	2.39E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA267691	SLAPS LOADOUT	09/07/23	Gross Alpha/Beta	Gross Alpha	7.78E-15	7.34E-15	9.82E-15	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA267691	SLAPS LOADOUT	09/07/23	Gross Alpha/Beta	Gross Beta	2.99E-14	1.65E-14	2.39E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA267692	SLAPS LOADOUT	09/07/23	Gross Alpha/Beta	Gross Alpha	8.99E-15	7.74E-15	9.82E-15	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA267692	SLAPS LOADOUT	09/07/23	Gross Alpha/Beta	Gross Beta	1.84E-14	1.53E-14	2.39E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA267693	SLAPS LOADOUT	09/11/23	Gross Alpha/Beta	Gross Alpha	5.35E-15	6.48E-15	9.82E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267693	SLAPS LOADOUT	09/11/23	Gross Alpha/Beta	Gross Beta	6.80E-15	1.40E-14	2.39E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267694	SLAPS LOADOUT	09/11/23	Gross Alpha/Beta	Gross Alpha	8.99E-15	7.74E-15	9.82E-15	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA267694	SLAPS LOADOUT	09/11/23	Gross Alpha/Beta	Gross Beta	1.37E-14	1.48E-14	2.39E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267695	SLAPS LOADOUT	09/11/23	Gross Alpha/Beta	Gross Alpha	-7.07E-16	3.52E-15	9.82E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267695	SLAPS LOADOUT	09/11/23	Gross Alpha/Beta	Gross Beta	-4.75E-15	1.27E-14	2.39E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267696	SLAPS LOADOUT	09/11/23	Gross Alpha/Beta	Gross Alpha	2.93E-15	5.48E-15	9.82E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267696	SLAPS LOADOUT	09/11/23	Gross Alpha/Beta	Gross Beta	3.84E-14	1.74E-14	2.39E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267697	SLAPS LOADOUT	09/12/23	Gross Alpha/Beta	Gross Alpha	4.14E-15	6.00E-15	9.82E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267697	SLAPS LOADOUT	09/12/23	Gross Alpha/Beta	Gross Beta	2.45E-14	1.60E-14	2.39E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA267698	SLAPS LOADOUT	09/12/23	Gross Alpha/Beta	Gross Alpha	1.38E-14	9.17E-15	9.82E-15	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA267698	SLAPS LOADOUT	09/12/23	Gross Alpha/Beta	Gross Beta	1.37E-14	1.48E-14	2.39E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267699	SLAPS LOADOUT	09/12/23	Gross Alpha/Beta	Gross Alpha	1.72E-15	4.92E-15	9.82E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267699	SLAPS LOADOUT	09/12/23	Gross Alpha/Beta	Gross Beta	1.91E-14	1.54E-14	2.39E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA267700	SLAPS LOADOUT	09/12/23	Gross Alpha/Beta	Gross Alpha	2.93E-15	5.48E-15	9.82E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267700	SLAPS LOADOUT	09/12/23	Gross Alpha/Beta	Gross Beta	2.07E-14	1.56E-14	2.39E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA267701	SLAPS LOADOUT	09/13/23	Gross Alpha/Beta	Gross Alpha	5.35E-15	6.48E-15	9.82E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267701	SLAPS LOADOUT	09/13/23	Gross Alpha/Beta	Gross Beta	1.22E-14	1.46E-14	2.39E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267702	SLAPS LOADOUT	09/13/23	Gross Alpha/Beta	Gross Alpha	8.99E-15	7.74E-15	9.82E-15	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA267702	SLAPS LOADOUT	09/13/23	Gross Alpha/Beta	Gross Beta	4.15E-14	1.77E-14	2.39E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267703	SLAPS LOADOUT	09/13/23	Gross Alpha/Beta	Gross Alpha	7.78E-15	7.34E-15	9.82E-15	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA267703	SLAPS LOADOUT	09/13/23	Gross Alpha/Beta	Gross Beta	3.76E-14	1.73E-14	2.39E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267704	SLAPS LOADOUT	09/13/23	Gross Alpha/Beta	Gross Alpha	1.38E-14	9.17E-15	9.82E-15	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA267704	SLAPS LOADOUT	09/13/23	Gross Alpha/Beta	Gross Beta	3.84E-14	1.74E-14	2.39E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267705	SLAPS LOADOUT	09/14/23	Gross Alpha/Beta	Gross Alpha	2.53E-15	5.49E-15	1.02E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267705	SLAPS LOADOUT	09/14/23	Gross Alpha/Beta	Gross Beta	2.92E-14	1.65E-14	2.41E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA267706	SLAPS LOADOUT	09/14/23	Gross Alpha/Beta	Gross Alpha	6.16E-15	6.93E-15	1.02E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air

Table C-4. SLAPS Perimeter Air Data Results for CY 2023 (Continued)

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
SLA267706	SLAPS LOADOUT	09/14/23	Gross Alpha/Beta	Gross Beta	3.53E-14	1.72E-14	2.41E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267707	SLAPS LOADOUT	09/14/23	Gross Alpha/Beta	Gross Alpha	3.74E-15	6.01E-15	1.02E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267707	SLAPS LOADOUT	09/14/23	Gross Alpha/Beta	Gross Beta	-3.95E-15	1.29E-14	2.41E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267708	SLAPS LOADOUT	09/14/23	Gross Alpha/Beta	Gross Alpha	9.80E-15	8.12E-15	1.02E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA267708	SLAPS LOADOUT	09/14/23	Gross Alpha/Beta	Gross Beta	4.30E-14	1.79E-14	2.41E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267709	SLAPS LOADOUT	09/18/23	Gross Alpha/Beta	Gross Alpha	2.53E-15	5.49E-15	1.02E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267709	SLAPS LOADOUT	09/18/23	Gross Alpha/Beta	Gross Beta	3.53E-14	1.72E-14	2.41E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267710	SLAPS LOADOUT	09/18/23	Gross Alpha/Beta	Gross Alpha	1.01E-16	4.28E-15	1.02E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267710	SLAPS LOADOUT	09/18/23	Gross Alpha/Beta	Gross Beta	2.07E-14	1.56E-14	2.41E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA267711	SLAPS LOADOUT	09/18/23	Gross Alpha/Beta	Gross Alpha	1.34E-14	9.17E-15	1.02E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA267711	SLAPS LOADOUT	09/18/23	Gross Alpha/Beta	Gross Beta	2.46E-14	1.60E-14	2.41E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA267712	SLAPS LOADOUT	09/18/23	Gross Alpha/Beta	Gross Alpha	4.95E-15	6.48E-15	1.02E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267712	SLAPS LOADOUT	09/18/23	Gross Alpha/Beta	Gross Beta	3.53E-14	1.72E-14	2.41E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267713	SLAPS LOADOUT	09/19/23	Gross Alpha/Beta	Gross Alpha	3.74E-15	6.01E-15	1.02E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267713	SLAPS LOADOUT	09/19/23	Gross Alpha/Beta	Gross Beta	3.69E-14	1.73E-14	2.41E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267714	SLAPS LOADOUT	09/19/23	Gross Alpha/Beta	Gross Alpha	9.80E-15	8.12E-15	1.02E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA267714	SLAPS LOADOUT	09/19/23	Gross Alpha/Beta	Gross Beta	2.53E-14	1.61E-14	2.41E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA267715	SLAPS LOADOUT	09/19/23	Gross Alpha/Beta	Gross Alpha	-1.11E-15	3.53E-15	1.02E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267715	SLAPS LOADOUT	09/19/23	Gross Alpha/Beta	Gross Beta	2.07E-14	1.56E-14	2.41E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA267716	SLAPS LOADOUT	09/19/23	Gross Alpha/Beta	Gross Alpha	2.53E-15	5.49E-15	1.02E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267716	SLAPS LOADOUT	09/19/23	Gross Alpha/Beta	Gross Beta	3.46E-14	1.71E-14	2.41E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267717	SLAPS LOADOUT	09/20/23	Gross Alpha/Beta	Gross Alpha	1.22E-14	8.83E-15	1.02E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA267717	SLAPS LOADOUT	09/20/23	Gross Alpha/Beta	Gross Beta	5.46E-14	1.91E-14	2.41E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267718	SLAPS LOADOUT	09/20/23	Gross Alpha/Beta	Gross Alpha	1.22E-14	8.83E-15	1.02E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA267718	SLAPS LOADOUT	09/20/23	Gross Alpha/Beta	Gross Beta	4.61E-14	1.82E-14	2.41E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267719	SLAPS LOADOUT	09/20/23	Gross Alpha/Beta	Gross Alpha	8.59E-15	7.74E-15	1.02E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA267719	SLAPS LOADOUT	09/20/23	Gross Alpha/Beta	Gross Beta	2.76E-14	1.64E-14	2.41E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA267720	SLAPS LOADOUT	09/20/23	Gross Alpha/Beta	Gross Alpha	3.74E-15	6.01E-15	1.02E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267720	SLAPS LOADOUT	09/20/23	Gross Alpha/Beta	Gross Beta	4.15E-14	1.78E-14	2.41E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267721	SLAPS LOADOUT	09/21/23	Gross Alpha/Beta	Gross Alpha	4.65E-15	5.92E-15	8.88E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267721	SLAPS LOADOUT	09/21/23	Gross Alpha/Beta	Gross Beta	3.74E-14	1.50E-14	1.84E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267722	SLAPS LOADOUT	09/21/23	Gross Alpha/Beta	Gross Alpha	7.11E-16	3.77E-15	8.88E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267722	SLAPS LOADOUT	09/21/23	Gross Alpha/Beta	Gross Beta	1.42E-14	1.20E-14	1.84E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA267723	SLAPS LOADOUT	09/21/23	Gross Alpha/Beta	Gross Alpha	2.03E-15	4.60E-15	8.88E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267723	SLAPS LOADOUT	09/21/23	Gross Alpha/Beta	Gross Beta	5.82E-14	1.74E-14	1.84E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267724	SLAPS LOADOUT	09/21/23	Gross Alpha/Beta	Gross Alpha	2.03E-15	4.60E-15	8.88E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267724	SLAPS LOADOUT	09/21/23	Gross Alpha/Beta	Gross Beta	7.34E-14	1.91E-14	1.84E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267725	SLAPS LOADOUT	09/25/23	Gross Alpha/Beta	Gross Alpha	-6.02E-16	2.71E-15	8.88E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267725	SLAPS LOADOUT	09/25/23	Gross Alpha/Beta	Gross Beta	4.14E-14	1.55E-14	1.84E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267726	SLAPS LOADOUT	09/25/23	Gross Alpha/Beta	Gross Alpha	2.03E-15	4.60E-15	8.88E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air

Table C-4. SLAPS Perimeter Air Data Results for CY 2023 (Continued)

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
SLA267726	SLAPS LOADOUT	09/25/23	Gross Alpha/Beta	Gross Beta	1.90E-14	1.27E-14	1.84E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA267727	SLAPS LOADOUT	09/25/23	Gross Alpha/Beta	Gross Alpha	4.65E-15	5.92E-15	8.88E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267727	SLAPS LOADOUT	09/25/23	Gross Alpha/Beta	Gross Beta	3.98E-14	1.53E-14	1.84E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267728	SLAPS LOADOUT	09/25/23	Gross Alpha/Beta	Gross Alpha	4.65E-15	5.92E-15	8.88E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267728	SLAPS LOADOUT	09/25/23	Gross Alpha/Beta	Gross Beta	4.78E-14	1.62E-14	1.84E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267729	SLAPS LOADOUT	09/26/23	Gross Alpha/Beta	Gross Alpha	4.65E-15	5.92E-15	8.88E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267729	SLAPS LOADOUT	09/26/23	Gross Alpha/Beta	Gross Beta	1.02E-14	1.14E-14	1.84E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267730	SLAPS LOADOUT	09/26/23	Gross Alpha/Beta	Gross Alpha	3.34E-15	5.30E-15	8.88E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267730	SLAPS LOADOUT	09/26/23	Gross Alpha/Beta	Gross Beta	2.54E-14	1.35E-14	1.84E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA267731	SLAPS LOADOUT	09/26/23	Gross Alpha/Beta	Gross Alpha	7.28E-15	7.00E-15	8.88E-15	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA267731	SLAPS LOADOUT	09/26/23	Gross Alpha/Beta	Gross Beta	6.22E-14	1.79E-14	1.84E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267732	SLAPS LOADOUT	09/26/23	Gross Alpha/Beta	Gross Alpha	2.03E-15	4.60E-15	8.88E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267732	SLAPS LOADOUT	09/26/23	Gross Alpha/Beta	Gross Beta	3.74E-14	1.50E-14	1.84E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267733	SLAPS LOADOUT	09/27/23	Gross Alpha/Beta	Gross Alpha	5.97E-15	6.48E-15	8.88E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267733	SLAPS LOADOUT	09/27/23	Gross Alpha/Beta	Gross Beta	3.42E-14	1.46E-14	1.84E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267734	SLAPS LOADOUT	09/27/23	Gross Alpha/Beta	Gross Alpha	8.59E-15	7.49E-15	8.88E-15	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA267734	SLAPS LOADOUT	09/27/23	Gross Alpha/Beta	Gross Beta	-2.67E-15	9.41E-15	1.84E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267735	SLAPS LOADOUT	09/27/23	Gross Alpha/Beta	Gross Alpha	1.39E-14	9.18E-15	8.88E-15	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA267735	SLAPS LOADOUT	09/27/23	Gross Alpha/Beta	Gross Beta	1.02E-14	1.14E-14	1.84E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267736	SLAPS LOADOUT	09/27/23	Gross Alpha/Beta	Gross Alpha	5.97E-15	6.48E-15	8.88E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267736	SLAPS LOADOUT	09/27/23	Gross Alpha/Beta	Gross Beta	3.02E-14	1.41E-14	1.84E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267737	SLAPS LOADOUT	09/27/23	Gross Alpha/Beta	Gross Alpha	1.12E-14	8.38E-15	8.88E-15	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA267737	SLAPS LOADOUT	09/27/23	Gross Alpha/Beta	Gross Beta	3.82E-14	1.51E-14	1.84E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267738	SLAPS LOADOUT	09/27/23	Gross Alpha/Beta	Gross Alpha	5.97E-15	6.48E-15	8.88E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267738	SLAPS LOADOUT	09/27/23	Gross Alpha/Beta	Gross Beta	1.10E-14	1.15E-14	1.84E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267739	SLAPS LOADOUT	09/27/23	Gross Alpha/Beta	Gross Alpha	2.03E-15	4.60E-15	8.88E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267739	SLAPS LOADOUT	09/27/23	Gross Alpha/Beta	Gross Beta	3.26E-14	1.44E-14	1.84E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267740	SLAPS LOADOUT	09/28/23	Gross Alpha/Beta	Gross Alpha	4.44E-16	3.40E-15	8.27E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267740	SLAPS LOADOUT	09/28/23	Gross Alpha/Beta	Gross Beta	1.28E-14	1.44E-14	2.34E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267741	SLAPS LOADOUT	09/28/23	Gross Alpha/Beta	Gross Alpha	3.99E-15	5.34E-15	8.27E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267741	SLAPS LOADOUT	09/28/23	Gross Alpha/Beta	Gross Beta	3.68E-14	1.70E-14	2.34E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267742	SLAPS LOADOUT	09/28/23	Gross Alpha/Beta	Gross Alpha	1.23E-14	8.27E-15	8.27E-15	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA267742	SLAPS LOADOUT	09/28/23	Gross Alpha/Beta	Gross Beta	7.66E-14	2.08E-14	2.34E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267743	SLAPS LOADOUT	10/02/23	Gross Alpha/Beta	Gross Alpha	7.54E-15	6.75E-15	8.27E-15	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA267743	SLAPS LOADOUT	10/02/23	Gross Alpha/Beta	Gross Beta	2.78E-14	1.60E-14	2.34E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA267744	SLAPS LOADOUT	10/02/23	Gross Alpha/Beta	Gross Alpha	5.18E-15	5.84E-15	8.27E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267744	SLAPS LOADOUT	10/02/23	Gross Alpha/Beta	Gross Beta	7.66E-14	2.08E-14	2.34E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267745	SLAPS LOADOUT	10/02/23	Gross Alpha/Beta	Gross Alpha	6.36E-15	6.31E-15	8.27E-15	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA267745	SLAPS LOADOUT	10/02/23	Gross Alpha/Beta	Gross Beta	5.25E-14	1.85E-14	2.34E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267746	SLAPS LOADOUT	10/02/23	Gross Alpha/Beta	Gross Alpha	1.63E-15	4.15E-15	8.27E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air

Table C-4. SLAPS Perimeter Air Data Results for CY 2023 (Continued)

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
SLA267746	SLAPS LOADOUT	10/02/23	Gross Alpha/Beta	Gross Beta	8.18E-14	2.13E-14	2.34E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267747	SLAPS LOADOUT	10/03/23	Gross Alpha/Beta	Gross Alpha	1.11E-14	7.92E-15	8.27E-15	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA267747	SLAPS LOADOUT	10/03/23	Gross Alpha/Beta	Gross Beta	6.61E-14	1.98E-14	2.34E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267748	SLAPS LOADOUT	10/03/23	Gross Alpha/Beta	Gross Alpha	1.63E-15	4.15E-15	8.27E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267748	SLAPS LOADOUT	10/03/23	Gross Alpha/Beta	Gross Beta	2.10E-14	1.53E-14	2.34E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA267749	SLAPS LOADOUT	10/03/23	Gross Alpha/Beta	Gross Alpha	1.82E-14	9.87E-15	8.27E-15	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA267749	SLAPS LOADOUT	10/03/23	Gross Alpha/Beta	Gross Beta	5.71E-14	1.90E-14	2.34E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267750	SLAPS LOADOUT	10/03/23	Gross Alpha/Beta	Gross Alpha	5.18E-15	5.84E-15	8.27E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267750	SLAPS LOADOUT	10/03/23	Gross Alpha/Beta	Gross Beta	1.05E-14	1.42E-14	2.34E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267751	SLAPS LOADOUT	10/04/23	Gross Alpha/Beta	Gross Alpha	1.63E-15	4.15E-15	8.27E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267751	SLAPS LOADOUT	10/04/23	Gross Alpha/Beta	Gross Beta	1.73E-14	1.49E-14	2.34E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA267752	SLAPS LOADOUT	10/04/23	Gross Alpha/Beta	Gross Alpha	1.35E-14	8.61E-15	8.27E-15	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA267752	SLAPS LOADOUT	10/04/23	Gross Alpha/Beta	Gross Beta	2.78E-14	1.60E-14	2.34E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA267753	SLAPS LOADOUT	10/04/23	Gross Alpha/Beta	Gross Alpha	9.91E-15	7.55E-15	8.27E-15	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA267753	SLAPS LOADOUT	10/04/23	Gross Alpha/Beta	Gross Beta	6.83E-14	2.00E-14	2.34E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267754	SLAPS LOADOUT	10/09/23	Gross Alpha/Beta	Gross Alpha	3.94E-16	4.17E-15	9.69E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267754	SLAPS LOADOUT	10/09/23	Gross Alpha/Beta	Gross Beta	1.88E-14	1.53E-14	2.39E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA267755	SLAPS LOADOUT	10/09/23	Gross Alpha/Beta	Gross Alpha	1.58E-15	4.80E-15	9.69E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267755	SLAPS LOADOUT	10/09/23	Gross Alpha/Beta	Gross Beta	-5.97E-15	1.26E-14	2.39E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267756	SLAPS LOADOUT	10/09/23	Gross Alpha/Beta	Gross Alpha	1.58E-15	4.80E-15	9.69E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267756	SLAPS LOADOUT	10/09/23	Gross Alpha/Beta	Gross Beta	3.16E-14	1.66E-14	2.39E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA267757	SLAPS LOADOUT	10/10/23	Gross Alpha/Beta	Gross Alpha	2.76E-15	5.35E-15	9.69E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267757	SLAPS LOADOUT	10/10/23	Gross Alpha/Beta	Gross Beta	6.79E-15	1.40E-14	2.39E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267758	SLAPS LOADOUT	10/10/23	Gross Alpha/Beta	Gross Alpha	2.76E-15	5.35E-15	9.69E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267758	SLAPS LOADOUT	10/10/23	Gross Alpha/Beta	Gross Beta	3.16E-14	1.66E-14	2.39E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA267759	SLAPS LOADOUT	10/10/23	Gross Alpha/Beta	Gross Alpha	-1.97E-15	2.50E-15	9.69E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267759	SLAPS LOADOUT	10/10/23	Gross Alpha/Beta	Gross Beta	2.41E-14	1.59E-14	2.39E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA267760	SLAPS LOADOUT	10/11/23	Gross Alpha/Beta	Gross Alpha	3.94E-15	5.86E-15	9.69E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267760	SLAPS LOADOUT	10/11/23	Gross Alpha/Beta	Gross Beta	2.18E-14	1.56E-14	2.39E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA267761	SLAPS LOADOUT	10/11/23	Gross Alpha/Beta	Gross Alpha	1.58E-15	4.80E-15	9.69E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267761	SLAPS LOADOUT	10/11/23	Gross Alpha/Beta	Gross Beta	3.03E-15	1.36E-14	2.39E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267762	SLAPS LOADOUT	10/11/23	Gross Alpha/Beta	Gross Alpha	2.76E-15	5.35E-15	9.69E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267762	SLAPS LOADOUT	10/11/23	Gross Alpha/Beta	Gross Beta	3.68E-14	1.72E-14	2.39E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267763	SLAPS LOADOUT	10/12/23	Gross Alpha/Beta	Gross Alpha	3.27E-15	5.20E-15	8.71E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267763	SLAPS LOADOUT	10/12/23	Gross Alpha/Beta	Gross Beta	5.04E-14	1.63E-14	1.79E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267764	SLAPS LOADOUT	10/12/23	Gross Alpha/Beta	Gross Alpha	3.27E-15	5.20E-15	8.71E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267764	SLAPS LOADOUT	10/12/23	Gross Alpha/Beta	Gross Beta	4.88E-14	1.61E-14	1.79E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267765	SLAPS LOADOUT	10/12/23	Gross Alpha/Beta	Gross Alpha	6.98E-16	3.70E-15	8.71E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267765	SLAPS LOADOUT	10/12/23	Gross Alpha/Beta	Gross Beta	2.37E-14	1.30E-14	1.79E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA267766	SLAPS LOADOUT	10/16/23	Gross Alpha/Beta	Gross Alpha	3.34E-15	5.30E-15	8.88E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air

Table C-4. SLAPS Perimeter Air Data Results for CY 2023 (Continued)

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
SLA267766	SLAPS LOADOUT	10/16/23	Gross Alpha/Beta	Gross Beta	3.70E-14	1.49E-14	1.83E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267767	SLAPS LOADOUT	10/16/23	Gross Alpha/Beta	Gross Alpha	2.03E-15	4.60E-15	8.88E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267767	SLAPS LOADOUT	10/16/23	Gross Alpha/Beta	Gross Beta	1.77E-14	1.24E-14	1.83E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA267768	SLAPS LOADOUT	10/16/23	Gross Alpha/Beta	Gross Alpha	2.03E-15	4.60E-15	8.88E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267768	SLAPS LOADOUT	10/16/23	Gross Alpha/Beta	Gross Beta	9.71E-15	1.13E-14	1.83E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267769	SLAPS LOADOUT	10/17/23	Gross Alpha/Beta	Gross Alpha	7.11E-16	3.77E-15	8.88E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267769	SLAPS LOADOUT	10/17/23	Gross Alpha/Beta	Gross Beta	4.98E-14	1.64E-14	1.83E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267770	SLAPS LOADOUT	10/17/23	Gross Alpha/Beta	Gross Alpha	7.28E-15	7.00E-15	8.88E-15	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA267770	SLAPS LOADOUT	10/17/23	Gross Alpha/Beta	Gross Beta	2.49E-14	1.34E-14	1.83E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA267771	SLAPS LOADOUT	10/17/23	Gross Alpha/Beta	Gross Alpha	-6.02E-16	2.71E-15	8.88E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267771	SLAPS LOADOUT	10/17/23	Gross Alpha/Beta	Gross Beta	-1.50E-15	9.55E-15	1.83E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267772	SLAPS LOADOUT	10/18/23	Gross Alpha/Beta	Gross Alpha	5.97E-15	6.48E-15	8.88E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267772	SLAPS LOADOUT	10/18/23	Gross Alpha/Beta	Gross Beta	6.10E-14	1.77E-14	1.83E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267773	SLAPS LOADOUT	10/18/23	Gross Alpha/Beta	Gross Alpha	8.59E-15	7.49E-15	8.88E-15	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA267773	SLAPS LOADOUT	10/18/23	Gross Alpha/Beta	Gross Beta	1.69E-14	1.23E-14	1.83E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA267774	SLAPS LOADOUT	10/18/23	Gross Alpha/Beta	Gross Alpha	7.28E-15	7.00E-15	8.88E-15	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA267774	SLAPS LOADOUT	10/18/23	Gross Alpha/Beta	Gross Beta	4.58E-14	1.60E-14	1.83E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267775	SLAPS LOADOUT	10/19/23	Gross Alpha/Beta	Gross Alpha	1.09E-15	5.41E-15	1.13E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267775	SLAPS LOADOUT	10/19/23	Gross Alpha/Beta	Gross Beta	5.12E-14	1.83E-14	2.32E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267776	SLAPS LOADOUT	10/19/23	Gross Alpha/Beta	Gross Alpha	-9.90E-17	4.86E-15	1.13E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267776	SLAPS LOADOUT	10/19/23	Gross Alpha/Beta	Gross Beta	2.02E-14	1.51E-14	2.32E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA267777	SLAPS LOADOUT	10/19/23	Gross Alpha/Beta	Gross Alpha	1.09E-15	5.41E-15	1.13E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267777	SLAPS LOADOUT	10/19/23	Gross Alpha/Beta	Gross Beta	-4.69E-15	1.23E-14	2.32E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267778	SLAPS LOADOUT	10/23/23	Gross Alpha/Beta	Gross Alpha	-1.31E-15	4.32E-15	1.15E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267778	SLAPS LOADOUT	10/23/23	Gross Alpha/Beta	Gross Beta	2.91E-14	1.63E-14	2.36E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA267779	SLAPS LOADOUT	10/23/23	Gross Alpha/Beta	Gross Alpha	-2.53E-15	3.58E-15	1.15E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267779	SLAPS LOADOUT	10/23/23	Gross Alpha/Beta	Gross Beta	3.99E-14	1.74E-14	2.36E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267780	SLAPS LOADOUT	10/23/23	Gross Alpha/Beta	Gross Alpha	-1.01E-16	4.95E-15	1.15E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267780	SLAPS LOADOUT	10/23/23	Gross Alpha/Beta	Gross Beta	2.22E-14	1.56E-14	2.36E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA267781	SLAPS LOADOUT	10/24/23	Gross Alpha/Beta	Gross Alpha	-1.31E-15	4.32E-15	1.15E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267781	SLAPS LOADOUT	10/24/23	Gross Alpha/Beta	Gross Beta	2.37E-14	1.57E-14	2.36E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA267782	SLAPS LOADOUT	10/24/23	Gross Alpha/Beta	Gross Alpha	-1.01E-16	4.95E-15	1.15E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267782	SLAPS LOADOUT	10/24/23	Gross Alpha/Beta	Gross Beta	4.76E-14	1.82E-14	2.36E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267783	SLAPS LOADOUT	10/24/23	Gross Alpha/Beta	Gross Alpha	-1.31E-15	4.32E-15	1.15E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267783	SLAPS LOADOUT	10/24/23	Gross Alpha/Beta	Gross Beta	1.76E-14	1.51E-14	2.36E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA267784	SLAPS LOADOUT	10/25/23	Gross Alpha/Beta	Gross Alpha	5.96E-15	7.36E-15	1.15E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267784	SLAPS LOADOUT	10/25/23	Gross Alpha/Beta	Gross Beta	6.22E-14	1.96E-14	2.36E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267785	SLAPS LOADOUT	10/25/23	Gross Alpha/Beta	Gross Alpha	1.11E-15	5.51E-15	1.15E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267785	SLAPS LOADOUT	10/25/23	Gross Alpha/Beta	Gross Beta	4.45E-14	1.79E-14	2.36E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267786	SLAPS LOADOUT	10/25/23	Gross Alpha/Beta	Gross Alpha	-1.01E-16	4.95E-15	1.15E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air

Table C-4. SLAPS Perimeter Air Data Results for CY 2023 (Continued)

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
SLA267786	SLAPS LOADOUT	10/25/23	Gross Alpha/Beta	Gross Beta	2.14E-14	1.55E-14	2.36E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA267789	SLAPS LOADOUT	10/26/23	Gross Alpha/Beta	Gross Alpha	8.38E-16	4.16E-15	9.22E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267789	SLAPS LOADOUT	10/26/23	Gross Alpha/Beta	Gross Beta	1.01E-14	1.39E-14	2.29E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267790	SLAPS LOADOUT	10/30/23	Gross Alpha/Beta	Gross Alpha	3.20E-15	5.35E-15	9.22E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267790	SLAPS LOADOUT	10/30/23	Gross Alpha/Beta	Gross Beta	6.38E-15	1.34E-14	2.29E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267791	SLAPS LOADOUT	10/30/23	Gross Alpha/Beta	Gross Alpha	-1.53E-15	2.48E-15	9.22E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267791	SLAPS LOADOUT	10/30/23	Gross Alpha/Beta	Gross Beta	1.84E-14	1.48E-14	2.29E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA267792	SLAPS LOADOUT	10/30/23	Gross Alpha/Beta	Gross Alpha	3.20E-15	5.35E-15	9.22E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267792	SLAPS LOADOUT	10/30/23	Gross Alpha/Beta	Gross Beta	2.89E-14	1.59E-14	2.29E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA267793	SLAPS LOADOUT	10/31/23	Gross Alpha/Beta	Gross Alpha	8.38E-16	4.16E-15	9.22E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267793	SLAPS LOADOUT	10/31/23	Gross Alpha/Beta	Gross Beta	1.69E-14	1.46E-14	2.29E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA267794	SLAPS LOADOUT	10/31/23	Gross Alpha/Beta	Gross Alpha	-1.53E-15	2.48E-15	9.22E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267794	SLAPS LOADOUT	10/31/23	Gross Alpha/Beta	Gross Beta	7.13E-15	1.35E-14	2.29E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267795	SLAPS LOADOUT	10/31/23	Gross Alpha/Beta	Gross Alpha	8.38E-16	4.16E-15	9.22E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267795	SLAPS LOADOUT	10/31/23	Gross Alpha/Beta	Gross Beta	4.77E-14	1.78E-14	2.29E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267796	SLAPS LOADOUT	11/01/23	Gross Alpha/Beta	Gross Alpha	3.20E-15	5.35E-15	9.22E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267796	SLAPS LOADOUT	11/01/23	Gross Alpha/Beta	Gross Beta	2.67E-14	1.57E-14	2.29E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA267797	SLAPS LOADOUT	11/01/23	Gross Alpha/Beta	Gross Alpha	8.38E-16	4.16E-15	9.22E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267797	SLAPS LOADOUT	11/01/23	Gross Alpha/Beta	Gross Beta	3.38E-15	1.31E-14	2.29E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267798	SLAPS LOADOUT	11/01/23	Gross Alpha/Beta	Gross Alpha	3.20E-15	5.35E-15	9.22E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267798	SLAPS LOADOUT	11/01/23	Gross Alpha/Beta	Gross Beta	2.67E-14	1.57E-14	2.29E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA267799	SLAPS LOADOUT	11/02/23	Gross Alpha/Beta	Gross Alpha	3.20E-15	5.35E-15	9.22E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267799	SLAPS LOADOUT	11/02/23	Gross Alpha/Beta	Gross Beta	3.79E-14	1.68E-14	2.29E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267800	SLAPS LOADOUT	11/02/23	Gross Alpha/Beta	Gross Alpha	2.02E-15	4.79E-15	9.22E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267800	SLAPS LOADOUT	11/02/23	Gross Alpha/Beta	Gross Beta	2.97E-14	1.60E-14	2.29E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA267801	SLAPS LOADOUT	11/02/23	Gross Alpha/Beta	Gross Alpha	-3.45E-16	3.43E-15	9.22E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267801	SLAPS LOADOUT	11/02/23	Gross Alpha/Beta	Gross Beta	6.38E-15	1.34E-14	2.29E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267802	SLAPS LOADOUT	11/06/23	Gross Alpha/Beta	Gross Alpha	1.43E-15	4.80E-15	9.84E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267802	SLAPS LOADOUT	11/06/23	Gross Alpha/Beta	Gross Beta	4.02E-14	1.77E-14	2.44E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267803	SLAPS LOADOUT	11/06/23	Gross Alpha/Beta	Gross Alpha	3.80E-15	5.86E-15	9.84E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267803	SLAPS LOADOUT	11/06/23	Gross Alpha/Beta	Gross Beta	3.35E-14	1.71E-14	2.44E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA267804	SLAPS LOADOUT	11/06/23	Gross Alpha/Beta	Gross Alpha	9.71E-15	7.92E-15	9.84E-15	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA267804	SLAPS LOADOUT	11/06/23	Gross Alpha/Beta	Gross Beta	1.17E-14	1.48E-14	2.44E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267805	SLAPS LOADOUT	11/07/23	Gross Alpha/Beta	Gross Alpha	2.46E-16	4.18E-15	9.84E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267805	SLAPS LOADOUT	11/07/23	Gross Alpha/Beta	Gross Beta	5.22E-14	1.89E-14	2.44E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267806	SLAPS LOADOUT	11/07/23	Gross Alpha/Beta	Gross Alpha	6.16E-15	6.76E-15	9.84E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267806	SLAPS LOADOUT	11/07/23	Gross Alpha/Beta	Gross Beta	1.47E-14	1.52E-14	2.44E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267807	SLAPS LOADOUT	11/07/23	Gross Alpha/Beta	Gross Alpha	1.09E-14	8.28E-15	9.84E-15	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA267807	SLAPS LOADOUT	11/07/23	Gross Alpha/Beta	Gross Beta	5.52E-14	1.92E-14	2.44E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267808	SLAPS LOADOUT	11/08/23	Gross Alpha/Beta	Gross Alpha	2.46E-16	4.18E-15	9.84E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air

Table C-4. SLAPS Perimeter Air Data Results for CY 2023 (Continued)

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
SLA267808	SLAPS LOADOUT	11/08/23	Gross Alpha/Beta	Gross Beta	1.40E-14	1.51E-14	2.44E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267809	SLAPS LOADOUT	11/08/23	Gross Alpha/Beta	Gross Alpha	2.46E-16	4.18E-15	9.84E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267809	SLAPS LOADOUT	11/08/23	Gross Alpha/Beta	Gross Beta	2.30E-14	1.60E-14	2.44E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA267810	SLAPS LOADOUT	11/08/23	Gross Alpha/Beta	Gross Alpha	1.33E-14	8.95E-15	9.84E-15	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA267810	SLAPS LOADOUT	11/08/23	Gross Alpha/Beta	Gross Beta	3.42E-14	1.71E-14	2.44E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA267811	SLAPS LOADOUT	11/08/23	Gross Alpha/Beta	Gross Alpha	1.43E-15	4.80E-15	9.84E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267811	SLAPS LOADOUT	11/08/23	Gross Alpha/Beta	Gross Beta	2.67E-14	1.64E-14	2.44E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA267812	SLAPS LOADOUT	11/09/23	Gross Alpha/Beta	Gross Alpha	6.95E-15	6.75E-15	8.99E-15	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA267812	SLAPS LOADOUT	11/09/23	Gross Alpha/Beta	Gross Beta	4.12E-14	1.71E-14	2.28E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267813	SLAPS LOADOUT	11/09/23	Gross Alpha/Beta	Gross Alpha	9.32E-15	7.55E-15	8.99E-15	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA267813	SLAPS LOADOUT	11/09/23	Gross Alpha/Beta	Gross Beta	3.29E-14	1.63E-14	2.28E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267814	SLAPS LOADOUT	11/09/23	Gross Alpha/Beta	Gross Alpha	9.32E-15	7.55E-15	8.99E-15	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA267814	SLAPS LOADOUT	11/09/23	Gross Alpha/Beta	Gross Beta	3.44E-14	1.64E-14	2.28E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267815	SLAPS LOADOUT	11/09/23	Gross Alpha/Beta	Gross Alpha	2.22E-15	4.79E-15	8.99E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267815	SLAPS LOADOUT	11/09/23	Gross Alpha/Beta	Gross Beta	2.24E-14	1.52E-14	2.28E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA267816	SLAPS LOADOUT	11/13/23	Gross Alpha/Beta	Gross Alpha	5.77E-15	6.32E-15	8.99E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267816	SLAPS LOADOUT	11/13/23	Gross Alpha/Beta	Gross Beta	5.47E-14	1.85E-14	2.28E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267817	SLAPS LOADOUT	11/13/23	Gross Alpha/Beta	Gross Alpha	6.95E-15	6.75E-15	8.99E-15	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA267817	SLAPS LOADOUT	11/13/23	Gross Alpha/Beta	Gross Beta	3.52E-14	1.65E-14	2.28E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267818	SLAPS LOADOUT	11/13/23	Gross Alpha/Beta	Gross Alpha	2.22E-15	4.79E-15	8.99E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267818	SLAPS LOADOUT	11/13/23	Gross Alpha/Beta	Gross Beta	3.74E-14	1.68E-14	2.28E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267819	SLAPS LOADOUT	11/13/23	Gross Alpha/Beta	Gross Alpha	4.58E-15	5.85E-15	8.99E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA267819	SLAPS LOADOUT	11/13/23	Gross Alpha/Beta	Gross Beta	4.19E-14	1.72E-14	2.28E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA267820	SLAPS LOADOUT	11/14/23	Gross Alpha/Beta	Gross Alpha	1.05E-14	7.92E-15	8.99E-15	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA267820	SLAPS LOADOUT	11/14/23	Gross Alpha/Beta	Gross Beta	2.77E-14	1.57E-14	2.28E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA267821	SLAPS LOADOUT	11/14/23	Gross Alpha/Beta	Gross Alpha	9.32E-15	7.55E-15	8.99E-15	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA267821	SLAPS LOADOUT	11/14/23	Gross Alpha/Beta	Gross Beta	3.44E-14	1.64E-14	2.28E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA270505	SLAPS LOADOUT	11/14/23	Gross Alpha/Beta	Gross Alpha	3.40E-15	5.34E-15	8.99E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270505	SLAPS LOADOUT	11/14/23	Gross Alpha/Beta	Gross Beta	3.29E-14	1.63E-14	2.28E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA270506	SLAPS LOADOUT	11/15/23	Gross Alpha/Beta	Gross Alpha	3.40E-15	5.34E-15	8.99E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270506	SLAPS LOADOUT	11/15/23	Gross Alpha/Beta	Gross Beta	-1.25E-16	1.26E-14	2.28E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270507	SLAPS LOADOUT	11/15/23	Gross Alpha/Beta	Gross Alpha	2.22E-15	4.79E-15	8.99E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270507	SLAPS LOADOUT	11/15/23	Gross Alpha/Beta	Gross Beta	4.57E-14	1.76E-14	2.28E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA270508	SLAPS LOADOUT	11/15/23	Gross Alpha/Beta	Gross Alpha	8.13E-15	7.16E-15	8.99E-15	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA270508	SLAPS LOADOUT	11/15/23	Gross Alpha/Beta	Gross Beta	6.52E-14	1.95E-14	2.28E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA270509	SLAPS LOADOUT	11/16/23	Gross Alpha/Beta	Gross Alpha	5.96E-15	6.31E-15	8.76E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270509	SLAPS LOADOUT	11/16/23	Gross Alpha/Beta	Gross Beta	4.65E-14	1.83E-14	2.43E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA270510	SLAPS LOADOUT	11/16/23	Gross Alpha/Beta	Gross Alpha	5.96E-15	6.31E-15	8.76E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270510	SLAPS LOADOUT	11/16/23	Gross Alpha/Beta	Gross Beta	3.97E-14	1.77E-14	2.43E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA270511	SLAPS LOADOUT	11/16/23	Gross Alpha/Beta	Gross Alpha	5.96E-15	6.31E-15	8.76E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air

Table C-4. SLAPS Perimeter Air Data Results for CY 2023 (Continued)

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
SLA270511	SLAPS LOADOUT	11/16/23	Gross Alpha/Beta	Gross Beta	3.15E-14	1.68E-14	2.43E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA270512	SLAPS LOADOUT	11/20/23	Gross Alpha/Beta	Gross Alpha	1.23E-15	4.16E-15	8.76E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270512	SLAPS LOADOUT	11/20/23	Gross Alpha/Beta	Gross Beta	3.97E-14	1.77E-14	2.43E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA270513	SLAPS LOADOUT	11/20/23	Gross Alpha/Beta	Gross Alpha	1.23E-15	4.16E-15	8.76E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270513	SLAPS LOADOUT	11/20/23	Gross Alpha/Beta	Gross Beta	2.40E-14	1.61E-14	2.43E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA270514	SLAPS LOADOUT	11/20/23	Gross Alpha/Beta	Gross Alpha	1.31E-14	8.62E-15	8.76E-15	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA270514	SLAPS LOADOUT	11/20/23	Gross Alpha/Beta	Gross Beta	3.37E-14	1.71E-14	2.43E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA270515	SLAPS LOADOUT	11/21/23	Gross Alpha/Beta	Gross Alpha	4.90E-17	3.41E-15	8.76E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270515	SLAPS LOADOUT	11/21/23	Gross Alpha/Beta	Gross Beta	1.12E-14	1.48E-14	2.43E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270516	SLAPS LOADOUT	11/21/23	Gross Alpha/Beta	Gross Alpha	3.60E-15	5.34E-15	8.76E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270516	SLAPS LOADOUT	11/21/23	Gross Alpha/Beta	Gross Beta	1.27E-14	1.49E-14	2.43E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270517	SLAPS LOADOUT	11/21/23	Gross Alpha/Beta	Gross Alpha	2.42E-15	4.78E-15	8.76E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270517	SLAPS LOADOUT	11/21/23	Gross Alpha/Beta	Gross Beta	7.44E-15	1.44E-14	2.43E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270518	SLAPS LOADOUT	11/22/23	Gross Alpha/Beta	Gross Alpha	2.76E-15	6.20E-15	1.16E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270518	SLAPS LOADOUT	11/22/23	Gross Alpha/Beta	Gross Beta	2.37E-14	1.64E-14	2.48E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA270519	SLAPS LOADOUT	11/22/23	Gross Alpha/Beta	Gross Alpha	2.76E-15	6.20E-15	1.16E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270519	SLAPS LOADOUT	11/22/23	Gross Alpha/Beta	Gross Beta	2.31E-15	1.40E-14	2.48E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270520	SLAPS LOADOUT	11/22/23	Gross Alpha/Beta	Gross Alpha	1.28E-14	9.45E-15	1.16E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA270520	SLAPS LOADOUT	11/22/23	Gross Alpha/Beta	Gross Beta	2.37E-14	1.64E-14	2.48E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA270521	SLAPS LOADOUT	11/27/23	Gross Alpha/Beta	Gross Alpha	7.53E-15	7.75E-15	1.12E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270521	SLAPS LOADOUT	11/27/23	Gross Alpha/Beta	Gross Beta	2.54E-14	1.61E-14	2.40E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA270522	SLAPS LOADOUT	11/27/23	Gross Alpha/Beta	Gross Alpha	2.68E-15	6.02E-15	1.12E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270522	SLAPS LOADOUT	11/27/23	Gross Alpha/Beta	Gross Beta	2.30E-14	1.59E-14	2.40E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA270523	SLAPS LOADOUT	11/27/23	Gross Alpha/Beta	Gross Alpha	2.53E-16	4.94E-15	1.12E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270523	SLAPS LOADOUT	11/27/23	Gross Alpha/Beta	Gross Beta	2.84E-14	1.64E-14	2.40E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA270524	SLAPS LOADOUT	11/28/23	Gross Alpha/Beta	Gross Alpha	1.47E-15	5.51E-15	1.12E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270524	SLAPS LOADOUT	11/28/23	Gross Alpha/Beta	Gross Beta	1.84E-14	1.54E-14	2.40E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA270525	SLAPS LOADOUT	11/28/23	Gross Alpha/Beta	Gross Alpha	7.53E-15	7.75E-15	1.12E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270525	SLAPS LOADOUT	11/28/23	Gross Alpha/Beta	Gross Beta	4.23E-14	1.79E-14	2.40E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA270526	SLAPS LOADOUT	11/28/23	Gross Alpha/Beta	Gross Alpha	-2.17E-15	3.57E-15	1.12E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270526	SLAPS LOADOUT	11/28/23	Gross Alpha/Beta	Gross Beta	1.48E-15	1.35E-14	2.40E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270527	SLAPS LOADOUT	11/29/23	Gross Alpha/Beta	Gross Alpha	1.47E-15	5.51E-15	1.12E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270527	SLAPS LOADOUT	11/29/23	Gross Alpha/Beta	Gross Beta	7.06E-16	1.34E-14	2.40E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270528	SLAPS LOADOUT	11/29/23	Gross Alpha/Beta	Gross Alpha	1.47E-15	5.51E-15	1.12E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270528	SLAPS LOADOUT	11/29/23	Gross Alpha/Beta	Gross Beta	4.31E-14	1.79E-14	2.40E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA270529	SLAPS LOADOUT	11/29/23	Gross Alpha/Beta	Gross Alpha	3.89E-15	6.49E-15	1.12E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270529	SLAPS LOADOUT	11/29/23	Gross Alpha/Beta	Gross Beta	1.77E-14	1.53E-14	2.40E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA270530	SLAPS LOADOUT	11/30/23	Gross Alpha/Beta	Gross Alpha	-7.07E-16	4.30E-15	1.10E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270530	SLAPS LOADOUT	11/30/23	Gross Alpha/Beta	Gross Beta	-3.85E-15	1.25E-14	2.34E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270531	SLAPS LOADOUT	11/30/23	Gross Alpha/Beta	Gross Alpha	8.99E-15	8.12E-15	1.10E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air

Table C-4. SLAPS Perimeter Air Data Results for CY 2023 (Continued)

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
SLA270531	SLAPS LOADOUT	11/30/23	Gross Alpha/Beta	Gross Beta	7.16E-14	2.05E-14	2.34E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA270532	SLAPS LOADOUT	11/30/23	Gross Alpha/Beta	Gross Alpha	-3.13E-15	2.61E-15	1.10E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270532	SLAPS LOADOUT	11/30/23	Gross Alpha/Beta	Gross Beta	-3.08E-15	1.26E-14	2.34E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270533	SLAPS LOADOUT	11/30/23	Gross Alpha/Beta	Gross Alpha	5.05E-16	4.94E-15	1.10E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270533	SLAPS LOADOUT	11/30/23	Gross Alpha/Beta	Gross Beta	7.70E-16	1.31E-14	2.34E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270534	SLAPS LOADOUT	11/30/23	Gross Alpha/Beta	Gross Alpha	2.93E-15	6.02E-15	1.10E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270534	SLAPS LOADOUT	11/30/23	Gross Alpha/Beta	Gross Beta	1.39E-14	1.46E-14	2.34E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270535	SLAPS LOADOUT	11/30/23	Gross Alpha/Beta	Gross Alpha	5.05E-16	4.94E-15	1.10E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270535	SLAPS LOADOUT	11/30/23	Gross Alpha/Beta	Gross Beta	2.31E-14	1.56E-14	2.34E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA270536	SLAPS LOADOUT	12/04/23	Gross Alpha/Beta	Gross Alpha	2.93E-15	6.02E-15	1.10E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270536	SLAPS LOADOUT	12/04/23	Gross Alpha/Beta	Gross Beta	2.85E-14	1.61E-14	2.34E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA270537	SLAPS LOADOUT	12/04/23	Gross Alpha/Beta	Gross Alpha	-1.92E-15	3.56E-15	1.10E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270537	SLAPS LOADOUT	12/04/23	Gross Alpha/Beta	Gross Beta	1.31E-14	1.45E-14	2.34E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270538	SLAPS LOADOUT	12/04/23	Gross Alpha/Beta	Gross Alpha	1.72E-15	5.50E-15	1.10E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270538	SLAPS LOADOUT	12/04/23	Gross Alpha/Beta	Gross Beta	6.16E-15	1.37E-14	2.34E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270539	SLAPS LOADOUT	12/05/23	Gross Alpha/Beta	Gross Alpha	1.72E-15	5.50E-15	1.10E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270539	SLAPS LOADOUT	12/05/23	Gross Alpha/Beta	Gross Beta	3.47E-14	1.68E-14	2.34E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA270540	SLAPS LOADOUT	12/05/23	Gross Alpha/Beta	Gross Alpha	1.14E-14	8.83E-15	1.10E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA270540	SLAPS LOADOUT	12/05/23	Gross Alpha/Beta	Gross Beta	4.62E-14	1.80E-14	2.34E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA270541	SLAPS LOADOUT	12/05/23	Gross Alpha/Beta	Gross Alpha	2.93E-15	6.02E-15	1.10E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270541	SLAPS LOADOUT	12/05/23	Gross Alpha/Beta	Gross Beta	2.08E-14	1.53E-14	2.34E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA270542	SLAPS LOADOUT	12/06/23	Gross Alpha/Beta	Gross Alpha	6.57E-15	7.35E-15	1.10E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270542	SLAPS LOADOUT	12/06/23	Gross Alpha/Beta	Gross Beta	5.31E-14	1.87E-14	2.34E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA270543	SLAPS LOADOUT	12/06/23	Gross Alpha/Beta	Gross Alpha	-7.07E-16	4.30E-15	1.10E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270543	SLAPS LOADOUT	12/06/23	Gross Alpha/Beta	Gross Beta	6.09E-14	1.94E-14	2.34E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA270544	SLAPS LOADOUT	12/06/23	Gross Alpha/Beta	Gross Alpha	5.35E-15	6.93E-15	1.10E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270544	SLAPS LOADOUT	12/06/23	Gross Alpha/Beta	Gross Beta	1.08E-14	1.42E-14	2.34E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270545	SLAPS LOADOUT	12/07/23	Gross Alpha/Beta	Gross Alpha	1.10E-14	7.92E-15	8.33E-15	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA270545	SLAPS LOADOUT	12/07/23	Gross Alpha/Beta	Gross Beta	4.57E-14	1.76E-14	2.28E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA270546	SLAPS LOADOUT	12/07/23	Gross Alpha/Beta	Gross Alpha	7.49E-15	6.75E-15	8.33E-15	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA270546	SLAPS LOADOUT	12/07/23	Gross Alpha/Beta	Gross Beta	6.15E-14	1.91E-14	2.28E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA270547	SLAPS LOADOUT	12/07/23	Gross Alpha/Beta	Gross Alpha	3.94E-15	5.34E-15	8.33E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270547	SLAPS LOADOUT	12/07/23	Gross Alpha/Beta	Gross Beta	4.27E-14	1.73E-14	2.28E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA270548	SLAPS LOADOUT	12/08/23	Gross Alpha/Beta	Gross Alpha	5.13E-15	5.84E-15	8.33E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270548	SLAPS LOADOUT	12/08/23	Gross Alpha/Beta	Gross Beta	4.27E-14	1.73E-14	2.28E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA270549	SLAPS LOADOUT	12/08/23	Gross Alpha/Beta	Gross Alpha	3.94E-15	5.34E-15	8.33E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270549	SLAPS LOADOUT	12/08/23	Gross Alpha/Beta	Gross Beta	4.04E-14	1.71E-14	2.28E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA270550	SLAPS LOADOUT	12/08/23	Gross Alpha/Beta	Gross Alpha	6.31E-15	6.31E-15	8.33E-15	µCi/mL	U		SLAPS Loadout (General Area)-Perimeter Air
SLA270550	SLAPS LOADOUT	12/08/23	Gross Alpha/Beta	Gross Beta	3.67E-14	1.67E-14	2.28E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA270551	SLAPS LOADOUT	12/11/23	Gross Alpha/Beta	Gross Alpha	-7.89E-16	2.45E-15	8.33E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air

Table C-4. SLAPS Perimeter Air Data Results for CY 2023 (Continued)

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
SLA270551	SLAPS LOADOUT	12/11/23	Gross Alpha/Beta	Gross Beta	-1.60E-15	1.25E-14	2.28E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270552	SLAPS LOADOUT	12/11/23	Gross Alpha/Beta	Gross Alpha	3.94E-16	3.40E-15	8.33E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270552	SLAPS LOADOUT	12/11/23	Gross Alpha/Beta	Gross Beta	8.16E-15	1.36E-14	2.28E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270553	SLAPS LOADOUT	12/11/23	Gross Alpha/Beta	Gross Alpha	-1.97E-15	6.41E-16	8.33E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270553	SLAPS LOADOUT	12/11/23	Gross Alpha/Beta	Gross Beta	-8.44E-16	1.26E-14	2.28E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270554	SLAPS LOADOUT	12/11/23	Gross Alpha/Beta	Gross Alpha	-7.89E-16	2.45E-15	8.33E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270554	SLAPS LOADOUT	12/11/23	Gross Alpha/Beta	Gross Beta	2.77E-14	1.57E-14	2.28E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA270555	SLAPS LOADOUT	12/11/23	Gross Alpha/Beta	Gross Alpha	3.94E-16	3.40E-15	8.33E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270555	SLAPS LOADOUT	12/11/23	Gross Alpha/Beta	Gross Beta	6.57E-16	1.27E-14	2.28E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270556	SLAPS LOADOUT	12/11/23	Gross Alpha/Beta	Gross Alpha	3.94E-16	3.40E-15	8.33E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270556	SLAPS LOADOUT	12/11/23	Gross Alpha/Beta	Gross Beta	2.92E-14	1.59E-14	2.28E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA270557	SLAPS LOADOUT	12/12/23	Gross Alpha/Beta	Gross Alpha	1.58E-15	4.15E-15	8.33E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270557	SLAPS LOADOUT	12/12/23	Gross Alpha/Beta	Gross Beta	2.84E-14	1.58E-14	2.28E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA270558	SLAPS LOADOUT	12/12/23	Gross Alpha/Beta	Gross Alpha	1.58E-15	4.15E-15	8.33E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270558	SLAPS LOADOUT	12/12/23	Gross Alpha/Beta	Gross Beta	3.67E-14	1.67E-14	2.28E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA270559	SLAPS LOADOUT	12/12/23	Gross Alpha/Beta	Gross Alpha	5.13E-15	5.84E-15	8.33E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270559	SLAPS LOADOUT	12/12/23	Gross Alpha/Beta	Gross Beta	3.14E-14	1.61E-14	2.28E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA270560	SLAPS LOADOUT	12/13/23	Gross Alpha/Beta	Gross Alpha	-1.97E-15	6.41E-16	8.33E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270560	SLAPS LOADOUT	12/13/23	Gross Alpha/Beta	Gross Beta	3.07E-14	1.61E-14	2.28E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA270561	SLAPS LOADOUT	12/13/23	Gross Alpha/Beta	Gross Alpha	1.58E-15	4.15E-15	8.33E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270561	SLAPS LOADOUT	12/13/23	Gross Alpha/Beta	Gross Beta	1.79E-14	1.47E-14	2.28E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA270562	SLAPS LOADOUT	12/13/23	Gross Alpha/Beta	Gross Alpha	2.76E-15	4.78E-15	8.33E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270562	SLAPS LOADOUT	12/13/23	Gross Alpha/Beta	Gross Beta	4.65E-14	1.77E-14	2.28E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA270563	SLAPS LOADOUT	12/14/23	Gross Alpha/Beta	Gross Alpha	4.87E-15	6.50E-15	1.02E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270563	SLAPS LOADOUT	12/14/23	Gross Alpha/Beta	Gross Beta	3.01E-14	1.42E-14	1.86E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA270564	SLAPS LOADOUT	12/14/23	Gross Alpha/Beta	Gross Alpha	3.56E-15	5.94E-15	1.02E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270564	SLAPS LOADOUT	12/14/23	Gross Alpha/Beta	Gross Beta	3.74E-14	1.51E-14	1.86E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA270565	SLAPS LOADOUT	12/14/23	Gross Alpha/Beta	Gross Alpha	-1.70E-15	2.75E-15	1.02E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270565	SLAPS LOADOUT	12/14/23	Gross Alpha/Beta	Gross Beta	2.77E-14	1.39E-14	1.86E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA270566	SLAPS LOADOUT	12/15/23	Gross Alpha/Beta	Gross Alpha	3.56E-15	5.94E-15	1.02E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270566	SLAPS LOADOUT	12/15/23	Gross Alpha/Beta	Gross Beta	3.98E-14	1.54E-14	1.86E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA270567	SLAPS LOADOUT	12/15/23	Gross Alpha/Beta	Gross Alpha	-1.70E-15	2.75E-15	1.02E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270567	SLAPS LOADOUT	12/15/23	Gross Alpha/Beta	Gross Beta	5.26E-14	1.69E-14	1.86E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA270568	SLAPS LOADOUT	12/15/23	Gross Alpha/Beta	Gross Alpha	-3.83E-16	3.80E-15	1.02E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270568	SLAPS LOADOUT	12/15/23	Gross Alpha/Beta	Gross Beta	4.62E-14	1.61E-14	1.86E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA270569	SLAPS LOADOUT	12/18/23	Gross Alpha/Beta	Gross Alpha	9.30E-16	4.62E-15	1.02E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270569	SLAPS LOADOUT	12/18/23	Gross Alpha/Beta	Gross Beta	6.11E-15	1.09E-14	1.86E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270570	SLAPS LOADOUT	12/18/23	Gross Alpha/Beta	Gross Alpha	9.30E-16	4.62E-15	1.02E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270570	SLAPS LOADOUT	12/18/23	Gross Alpha/Beta	Gross Beta	2.90E-15	1.05E-14	1.86E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270571	SLAPS LOADOUT	12/18/23	Gross Alpha/Beta	Gross Alpha	-3.01E-15	8.43E-16	1.02E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air

Table C-4. SLAPS Perimeter Air Data Results for CY 2023 (Continued)

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
SLA270571	SLAPS LOADOUT	12/18/23	Gross Alpha/Beta	Gross Beta	1.81E-14	1.27E-14	1.86E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA270572	SLAPS LOADOUT	12/19/23	Gross Alpha/Beta	Gross Alpha	-1.70E-15	2.75E-15	1.02E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270572	SLAPS LOADOUT	12/19/23	Gross Alpha/Beta	Gross Beta	1.97E-14	1.29E-14	1.86E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA270573	SLAPS LOADOUT	12/19/23	Gross Alpha/Beta	Gross Alpha	-3.83E-16	3.80E-15	1.02E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270573	SLAPS LOADOUT	12/19/23	Gross Alpha/Beta	Gross Beta	1.57E-14	1.23E-14	1.86E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA270574	SLAPS LOADOUT	12/19/23	Gross Alpha/Beta	Gross Alpha	7.50E-15	7.50E-15	1.02E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA270574	SLAPS LOADOUT	12/19/23	Gross Alpha/Beta	Gross Beta	3.33E-14	1.46E-14	1.86E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA270575	SLAPS LOADOUT	12/19/23	Gross Alpha/Beta	Gross Alpha	6.18E-15	7.01E-15	1.02E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270575	SLAPS LOADOUT	12/19/23	Gross Alpha/Beta	Gross Beta	1.49E-14	1.22E-14	1.86E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA270576	SLAPS LOADOUT	12/19/23	Gross Alpha/Beta	Gross Alpha	3.56E-15	5.94E-15	1.02E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270576	SLAPS LOADOUT	12/19/23	Gross Alpha/Beta	Gross Beta	2.29E-14	1.33E-14	1.86E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA270577	SLAPS LOADOUT	12/19/23	Gross Alpha/Beta	Gross Alpha	-1.70E-15	2.75E-15	1.02E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270577	SLAPS LOADOUT	12/19/23	Gross Alpha/Beta	Gross Beta	2.61E-14	1.37E-14	1.86E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA270578	SLAPS LOADOUT	12/20/23	Gross Alpha/Beta	Gross Alpha	9.30E-16	4.62E-15	1.02E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270578	SLAPS LOADOUT	12/20/23	Gross Alpha/Beta	Gross Beta	2.13E-14	1.31E-14	1.86E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA270579	SLAPS LOADOUT	12/20/23	Gross Alpha/Beta	Gross Alpha	3.56E-15	5.94E-15	1.02E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270579	SLAPS LOADOUT	12/20/23	Gross Alpha/Beta	Gross Beta	1.97E-14	1.29E-14	1.86E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA270580	SLAPS LOADOUT	12/20/23	Gross Alpha/Beta	Gross Alpha	3.56E-15	5.94E-15	1.02E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270580	SLAPS LOADOUT	12/20/23	Gross Alpha/Beta	Gross Beta	2.29E-14	1.33E-14	1.86E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA270581	SLAPS LOADOUT	12/21/23	Gross Alpha/Beta	Gross Alpha	2.22E-15	4.79E-15	8.99E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270581	SLAPS LOADOUT	12/21/23	Gross Alpha/Beta	Gross Beta	1.01E-14	1.37E-14	2.26E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270582	SLAPS LOADOUT	12/21/23	Gross Alpha/Beta	Gross Alpha	1.04E-15	4.16E-15	8.99E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270582	SLAPS LOADOUT	12/21/23	Gross Alpha/Beta	Gross Beta	6.27E-14	1.92E-14	2.26E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA270583	SLAPS LOADOUT	12/21/23	Gross Alpha/Beta	Gross Alpha	1.04E-15	4.16E-15	8.99E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270583	SLAPS LOADOUT	12/21/23	Gross Alpha/Beta	Gross Beta	3.71E-14	1.66E-14	2.26E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA270584	SLAPS LOADOUT	12/26/23	Gross Alpha/Beta	Gross Alpha	1.04E-15	4.16E-15	8.99E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270584	SLAPS LOADOUT	12/26/23	Gross Alpha/Beta	Gross Beta	1.31E-14	1.40E-14	2.26E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270585	SLAPS LOADOUT	12/26/23	Gross Alpha/Beta	Gross Alpha	-1.48E-16	3.42E-15	8.99E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270585	SLAPS LOADOUT	12/26/23	Gross Alpha/Beta	Gross Beta	2.36E-14	1.52E-14	2.26E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA270586	SLAPS LOADOUT	12/26/23	Gross Alpha/Beta	Gross Alpha	1.04E-15	4.16E-15	8.99E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270586	SLAPS LOADOUT	12/26/23	Gross Alpha/Beta	Gross Beta	2.36E-14	1.52E-14	2.26E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA270587	SLAPS LOADOUT	12/26/23	Gross Alpha/Beta	Gross Alpha	2.22E-15	4.79E-15	8.99E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270587	SLAPS LOADOUT	12/26/23	Gross Alpha/Beta	Gross Beta	1.16E-14	1.39E-14	2.26E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270588	SLAPS LOADOUT	12/26/23	Gross Alpha/Beta	Gross Alpha	2.22E-15	4.79E-15	8.99E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270588	SLAPS LOADOUT	12/26/23	Gross Alpha/Beta	Gross Beta	1.16E-14	1.39E-14	2.26E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270589	SLAPS LOADOUT	12/26/23	Gross Alpha/Beta	Gross Alpha	1.04E-15	4.16E-15	8.99E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270589	SLAPS LOADOUT	12/26/23	Gross Alpha/Beta	Gross Beta	2.81E-14	1.57E-14	2.26E-14	µCi/mL	J	T04, T20	SLAPS Loadout (General Area)-Perimeter Air
SLA270590	SLAPS LOADOUT	12/27/23	Gross Alpha/Beta	Gross Alpha	1.04E-15	4.16E-15	8.99E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270590	SLAPS LOADOUT	12/27/23	Gross Alpha/Beta	Gross Beta	1.31E-14	1.40E-14	2.26E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270591	SLAPS LOADOUT	12/27/23	Gross Alpha/Beta	Gross Alpha	2.22E-15	4.79E-15	8.99E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air

Table C-4. SLAPS Perimeter Air Data Results for CY 2023 (Continued)

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
SLA270591	SLAPS LOADOUT	12/27/23	Gross Alpha/Beta	Gross Beta	9.35E-15	1.36E-14	2.26E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270592	SLAPS LOADOUT	12/27/23	Gross Alpha/Beta	Gross Alpha	-1.48E-16	3.42E-15	8.99E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270592	SLAPS LOADOUT	12/27/23	Gross Alpha/Beta	Gross Beta	2.21E-14	1.50E-14	2.26E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA270593	SLAPS LOADOUT	12/28/23	Gross Alpha/Beta	Gross Alpha	2.86E-15	4.78E-15	8.20E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270593	SLAPS LOADOUT	12/28/23	Gross Alpha/Beta	Gross Beta	1.63E-14	1.49E-14	2.36E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA270594	SLAPS LOADOUT	12/28/23	Gross Alpha/Beta	Gross Alpha	6.41E-15	6.31E-15	8.20E-15	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA270594	SLAPS LOADOUT	12/28/23	Gross Alpha/Beta	Gross Beta	3.96E-14	1.73E-14	2.36E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SLA270595	SLAPS LOADOUT	12/28/23	Gross Alpha/Beta	Gross Alpha	2.86E-15	4.78E-15	8.20E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270595	SLAPS LOADOUT	12/28/23	Gross Alpha/Beta	Gross Beta	5.82E-15	1.38E-14	2.36E-14	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270596	SLAPS LOADOUT	12/30/23	Gross Alpha/Beta	Gross Alpha	1.68E-15	4.15E-15	8.20E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270596	SLAPS LOADOUT	12/30/23	Gross Alpha/Beta	Gross Beta	1.93E-14	1.52E-14	2.36E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA270597	SLAPS LOADOUT	12/30/23	Gross Alpha/Beta	Gross Alpha	2.86E-15	4.78E-15	8.20E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270597	SLAPS LOADOUT	12/30/23	Gross Alpha/Beta	Gross Beta	1.63E-14	1.49E-14	2.36E-14	µCi/mL	UJ	T04, T05	SLAPS Loadout (General Area)-Perimeter Air
SLA270598	SLAPS LOADOUT	12/30/23	Gross Alpha/Beta	Gross Alpha	4.04E-15	5.33E-15	8.20E-15	µCi/mL	UJ	T06	SLAPS Loadout (General Area)-Perimeter Air
SLA270598	SLAPS LOADOUT	12/30/23	Gross Alpha/Beta	Gross Beta	5.09E-14	1.84E-14	2.36E-14	µCi/mL	=		SLAPS Loadout (General Area)-Perimeter Air
SVP265246	VP-56	01/05/23	Gross Alpha/Beta	Gross Alpha	7.15E-15	8.57E-15	1.27E-14	µCi/mL	UJ	T06	VP-56 (General Area)-Perimeter Air
SVP265246	VP-56	01/05/23	Gross Alpha/Beta	Gross Beta	3.39E-14	1.93E-14	2.69E-14	µCi/mL	J	T04, T20	VP-56 (General Area)-Perimeter Air
SVP265247	VP-56	01/11/23	Gross Alpha/Beta	Gross Alpha	-1.02E-14	3.13E-15	3.97E-14	µCi/mL	UJ	T06	VP-56 (General Area)-Perimeter Air
SVP265247	VP-56	01/11/23	Gross Alpha/Beta	Gross Beta	4.92E-14	5.27E-14	8.43E-14	µCi/mL	UJ	T06	VP-56 (General Area)-Perimeter Air
SVP265248	VP-56	01/11/23	Gross Alpha/Beta	Gross Alpha	1.11E-14	2.10E-14	3.80E-14	µCi/mL	UJ	T06	VP-56 (General Area)-Perimeter Air
SVP265248	VP-56	01/11/23	Gross Alpha/Beta	Gross Beta	7.44E-14	5.42E-14	8.08E-14	µCi/mL	UJ	T04, T05	VP-56 (General Area)-Perimeter Air
SVP265249	VP-56	01/31/23	Gross Alpha/Beta	Gross Alpha	1.73E-15	5.41E-15	1.13E-14	µCi/mL	UJ	T06	VP-56 (General Area)-Perimeter Air
SVP265249	VP-56	01/31/23	Gross Alpha/Beta	Gross Beta	2.20E-14	1.61E-14	2.39E-14	µCi/mL	UJ	T04, T05	VP-56 (General Area)-Perimeter Air
SVP265460	VP-56	05/04/23	Gross Alpha/Beta	Gross Alpha	3.22E-16	4.55E-15	1.07E-14	µCi/mL	UJ	T06	VP-56 (General Area)-Perimeter Air
SVP265460	VP-56	05/04/23	Gross Alpha/Beta	Gross Beta	2.71E-14	1.65E-14	2.42E-14	µCi/mL	J	T04, T20	VP-56 (General Area)-Perimeter Air
SVP265461	VP-56	05/04/23	Gross Alpha/Beta	Gross Alpha	5.47E-15	6.88E-15	1.07E-14	µCi/mL	UJ	T06	VP-56 (General Area)-Perimeter Air
SVP265461	VP-56	05/04/23	Gross Alpha/Beta	Gross Beta	3.12E-14	1.69E-14	2.42E-14	µCi/mL	J	T04, T20	VP-56 (General Area)-Perimeter Air
SVP266642	VP-56	05/08/23	Gross Alpha/Beta	Gross Alpha	8.37E-15	1.28E-14	2.13E-14	µCi/mL	UJ	T06	VP-56 (General Area)-Perimeter Air
SVP266642	VP-56	05/08/23	Gross Alpha/Beta	Gross Beta	1.98E-14	2.91E-14	4.84E-14	µCi/mL	UJ	T06	VP-56 (General Area)-Perimeter Air
SVP266643	VP-56	05/08/23	Gross Alpha/Beta	Gross Alpha	8.37E-15	1.28E-14	2.13E-14	µCi/mL	UJ	T06	VP-56 (General Area)-Perimeter Air
SVP266643	VP-56	05/08/23	Gross Alpha/Beta	Gross Beta	1.81E-14	2.89E-14	4.84E-14	µCi/mL	UJ	T06	VP-56 (General Area)-Perimeter Air

VQs:

= - Indicates that the data met all QA/QC requirements, and that the parameter has been positively identified and the associated concentration value is accurate.

J - Indicates that the parameter was positively identified; the associated numerical value is the approximate concentration of the parameter in the sample.

UJ - Indicates that the parameter was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

Validation Reason Code:

T04 - Radionuclide Quantitation: Professional judgment was used to qualify the data.

T05 - Analytical result is less than the associated MDA, but greater than the counting uncertainty.

T06 - Radionuclide Quantitation: Analytical result is less than both the associated counting uncertainty and MDA.

T20 - Radionuclide Quantitation: Analytical result is greater than the associated MDA, with uncertainty 50 to 100 percent of the result.

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APPENDIX D

STORMWATER, WASTEWATER, AND EXCAVATION WATER DATA

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Table D-1. NPDES Analytical Data for CY 2023

Sample Name	Station Name	Collection Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code
SVP234126	NPDES Outfall 002	03/03/23	EPA 160.5	SS	0.00		0.1	mL/L/hr	U	
SVP234126	NPDES Outfall 002	03/03/23	ML-024	pH	8.2		0	No Units	J	A03
SVP234126	NPDES Outfall 002	03/03/23	ML-005	Th-228	0.21	0.29	0.55	pCi/L	UJ	T06
SVP234126	NPDES Outfall 002	03/03/23	ML-005	Th-230	1.75	0.73	0.50	pCi/L	J	F01
SVP234126	NPDES Outfall 002	03/03/23	ML-005	Th-232	0.21	0.28	0.51	pCi/L	UJ	T06
SVP234126	NPDES Outfall 002	03/03/23	ML-006	Ra-226	0.15	0.26	0.58	pCi/L	UJ	T06
SVP234126	NPDES Outfall 002	03/03/23	ML-015	U-234	0.18	0.25	0.4	pCi/L	UJ	T06
SVP234126	NPDES Outfall 002	03/03/23	ML-015	U-235	-0.02	0.2	0.5	pCi/L	UJ	T06
SVP234126	NPDES Outfall 002	03/03/23	ML-015	U-238	0.12	0.20	0.4	pCi/L	UJ	T06
SVP234126	NPDES Outfall 002	03/03/23	ML-018	Gross Alpha	1.43	6.52	11.3	pCi/L	UJ	T06
SVP234126	NPDES Outfall 002	03/03/23	ML-018	Gross Beta	9.40	7.59	12.20	pCi/L	UJ	T04, T05
SVP234126	NPDES Outfall 002	03/03/23	ML-003	Ac-227	-3.97	6.72	11.1	pCi/L	UJ	T04, T06
SVP234126	NPDES Outfall 002	03/03/23	ML-003	Pa-231	-6.7	25.00	42.2	pCi/L	UJ	T04, T06
SVP234127	CWC-386, CWC-387, CWC-388	09/27/23	EPA 160.5	SS	0.10		0.10	mL/L/hr	U	
SVP234127	CWC-386, CWC-387, CWC-388	09/27/23	ML-024	pH	7.19		0.10	No Units	J	A03
SVP234127	CWC-386, CWC-387, CWC-388	09/27/23	ML-005	Th-228	0.82	0.53	0.55	pCi/L	J	T04, T20
SVP234127	CWC-386, CWC-387, CWC-388	09/27/23	ML-005	Th-230	0.90	0.55	0.55	pCi/L	J	F01, T04, T20
SVP234127	CWC-386, CWC-387, CWC-388	09/27/23	ML-005	Th-232	0.30	0.34	0.55	pCi/L	UJ	T06
SVP234127	CWC-386, CWC-387, CWC-388	09/27/23	ML-006	Ra-226	0.1	0.2	0.5	pCi/L	UJ	T06
SVP234127	CWC-386, CWC-387, CWC-388	09/27/23	ML-015	U-234	0.34	0.39	0.63	pCi/L	UJ	T06
SVP234127	CWC-386, CWC-387, CWC-388	09/27/23	ML-015	U-235	-0.05	0.24	0.71	pCi/L	UJ	T06
SVP234127	CWC-386, CWC-387, CWC-388	09/27/23	ML-015	U-238	0.26	0.34	0.63	pCi/L	UJ	T06
SVP234127	CWC-386, CWC-387, CWC-388	09/27/23	ML-018	Gross Alpha	-3.40	5.60	10.50	pCi/L	UJ	T06
SVP234127	CWC-386, CWC-387, CWC-388	09/27/23	ML-018	Gross Beta	2.27	7.70	13.00	pCi/L	UJ	T06
SVP234127	CWC-386, CWC-387, CWC-388	09/27/23	ML-003	Ac-227	3.63	8.5	15.2	pCi/L	UJ	T04, T06
SVP234127	CWC-386, CWC-387, CWC-388	09/27/23	ML-003	Pa-231	24.3	29.7	53.8	pCi/L	UJ	T04, T06
SVP234128	CWC-386, CWC-387, CWC-388	12/08/23	EPA 160.5	SS	0		0.1	mL/L/hr	U	
SVP234128	CWC-386, CWC-387, CWC-388	12/08/23	ML-024	pH	7.51		0.1	No Units	J	A03
SVP234128	CWC-386, CWC-387, CWC-388	12/08/23	ML-005	Th-228	0.408	0.353	0.471	pCi/L	UJ	T04, T05

Table D-1. NPDES Analytical Data for CY 2023 (Continued)

Sample Name	Station Name	Collection Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code
SVP234128	CWC-386, CWC-387, CWC-388	12/08/23	ML-005	Th-230	0.311	0.296	0.347	pCi/L	UJ	T04, T05
SVP234128	CWC-386, CWC-387, CWC-388	12/08/23	ML-005	Th-232	0	0.185	0.48	pCi/L	UJ	T06
SVP234128	CWC-386, CWC-387, CWC-388	12/08/23	ML-006	Ra-226	-0.0443	0.198	0.598	pCi/L	UJ	T06
SVP234128	CWC-386, CWC-387, CWC-388	12/08/23	ML-015	U-234	0.457	0.377	0.516	pCi/L	UJ	T04, T05
SVP234128	CWC-386, CWC-387, CWC-388	12/08/23	ML-015	U-235	0	0.228	0.592	pCi/L	UJ	T06
SVP234128	CWC-386, CWC-387, CWC-388	12/08/23	ML-015	U-238	0.585	0.415	0.478	pCi/L	J	T04, T20
SVP234128	CWC-386, CWC-387, CWC-388	12/08/23	ML-018	Gross Alpha	3.25	6.1	10.3	pCi/L	UJ	T06
SVP234128	CWC-386, CWC-387, CWC-388	12/08/23	ML-018	Gross Beta	4.63	7.39	12.3	pCi/L	UJ	T06
SVP234128	CWC-386, CWC-387, CWC-388	12/08/23	ML-003	Ac-227	-9.48	20.1	33.2	pCi/L	UJ	T04, T06
SVP234128	CWC-386, CWC-387, CWC-388	12/08/23	ML-003	Pa-231	5.76	76	128	pCi/L	UJ	T04, T06
SVP234129	CWC-386, CWC-387, CWC-388	12/11/23	SW846 6020	Arsenic	2.1		1.6	ug/L	=	
SVP234129	CWC-386, CWC-387, CWC-388	12/11/23	SW846 6020	Cadmium	0.18		0.06	ug/L	=	
SVP234129	CWC-386, CWC-387, CWC-388	12/11/23	SW846 6020	Chromium	8.1		1.3	ug/L	=	
SVP234129	CWC-386, CWC-387, CWC-388	12/11/23	EPA 1664	Oil and Grease	1.4		1.4	mg/L	U	
SVP234129	CWC-386, CWC-387, CWC-388	12/11/23	EPA 1664	TRPH	1.4		1.4	mg/L	UJ	P02
SVP234129	CWC-386, CWC-387, CWC-388	12/11/23	SW846 8082	Aroclor-1016	0.1		0.1	ug/L	U	
SVP234129	CWC-386, CWC-387, CWC-388	12/11/23	SW846 8082	Aroclor-1221	0.1		0.1	ug/L	U	
SVP234129	CWC-386, CWC-387, CWC-388	12/11/23	SW846 8082	Aroclor-1232	0.1		0.1	ug/L	U	
SVP234129	CWC-386, CWC-387, CWC-388	12/11/23	SW846 8082	Aroclor-1242	0.1		0.1	ug/L	U	
SVP234129	CWC-386, CWC-387, CWC-388	12/11/23	SW846 8082	Aroclor-1248	0.1		0.1	ug/L	U	
SVP234129	CWC-386, CWC-387, CWC-388	12/11/23	SW846 8082	Aroclor-1254	0.078		0.078	ug/L	U	
SVP234129	CWC-386, CWC-387, CWC-388	12/11/23	SW846 8082	Aroclor-1260	0.078		0.078	ug/L	U	
SVP234129	CWC-386, CWC-387, CWC-388	12/11/23	EPA 160.5	SS	0.01		0.1	mL/L/hr	U	
SVP234129	CWC-386, CWC-387, CWC-388	12/11/23	ML-024	pH	7.56		0.1	No Units	J	A03
SVP234129	CWC-386, CWC-387, CWC-388	12/11/23	ML-005	Th-228	0.445	0.446	0.808	pCi/L	UJ	T06
SVP234129	CWC-386, CWC-387, CWC-388	12/11/23	ML-005	Th-230	0.713	0.48	0.525	pCi/L	J	T04, T20
SVP234129	CWC-386, CWC-387, CWC-388	12/11/23	ML-005	Th-232	0.142	0.247	0.524	pCi/L	UJ	T06
SVP234129	CWC-386, CWC-387, CWC-388	12/11/23	ML-006	Ra-226	0.394	0.402	0.59	pCi/L	UJ	T06
SVP234129	CWC-386, CWC-387, CWC-388	12/11/23	ML-015	U-234	0.675	0.445	0.368	pCi/L	J	T04, T20
SVP234129	CWC-386, CWC-387, CWC-388	12/11/23	ML-015	U-235	0.0641	0.176	0.454	pCi/L	UJ	T06
SVP234129	CWC-386, CWC-387, CWC-388	12/11/23	ML-015	U-238	0.276	0.31	0.508	pCi/L	UJ	T06

Table D-1. NPDES Analytical Data for CY 2023 (Continued)

Sample Name	Station Name	Collection Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code
SVP234129	CWC-386, CWC-387, CWC-388	12/11/23	ML-018	Gross Alpha	2.69	6.04	10.3	pCi/L	UJ	T06
SVP234129	CWC-386, CWC-387, CWC-388	12/11/23	ML-018	Gross Beta	3.93	7.36	12.3	pCi/L	UJ	T06
SVP234129	CWC-386, CWC-387, CWC-388	12/11/23	ML-003	Ac-227	2.86	6.65	11.8	pCi/L	UJ	T04, T06
SVP234130	CWC-386, CWC-387, CWC-388	12/11/23	ML-003	Pa-231	-10.7	25.7	42.6	pCi/L	UJ	T04, T06
SVP234130	CWC-386, CWC-387, CWC-388	12/12/23	EPA 160.5	SS	0		0.1	mL/L/hr	U	
SVP234130	CWC-386, CWC-387, CWC-388	12/12/23	ML-024	pH	7.54		0.1	No Units	J	A03
SVP234130	CWC-386, CWC-387, CWC-388	12/12/23	ML-005	Th-228	0.611	0.439	0.537	pCi/L	J	T04, T20
SVP234130	CWC-386, CWC-387, CWC-388	12/12/23	ML-005	Th-230	0.679	0.456	0.5	pCi/L	J	T04, T20
SVP234130	CWC-386, CWC-387, CWC-388	12/12/23	ML-005	Th-232	0.0169	0.148	0.489	pCi/L	UJ	T06
SVP234130	CWC-386, CWC-387, CWC-388	12/12/23	ML-006	Ra-226	0.215	0.372	0.791	pCi/L	UJ	T06
SVP234130	CWC-386, CWC-387, CWC-388	12/12/23	ML-015	U-234	0.923	0.487	0.38	pCi/L	J	T04, T20
SVP234130	CWC-386, CWC-387, CWC-388	12/12/23	ML-015	U-235	-0.0184	0.152	0.39	pCi/L	UJ	T06
SVP234130	CWC-386, CWC-387, CWC-388	12/12/23	ML-015	U-238	0.208	0.242	0.379	pCi/L	UJ	T06
SVP234130	CWC-386, CWC-387, CWC-388	12/12/23	ML-018	Gross Alpha	2.97	6.07	10.3	pCi/L	UJ	T06
SVP234130	CWC-386, CWC-387, CWC-388	12/12/23	ML-018	Gross Beta	8.31	7.59	12.3	pCi/L	UJ	T04, T05
SVP234130	CWC-386, CWC-387, CWC-388	12/12/23	ML-003	Ac-227	-1.06	6.37	10.9	pCi/L	UJ	T04, T06
SVP234131	CWC-386, CWC-387, CWC-388	12/12/23	ML-003	Pa-231	-9.33	25.7	43	pCi/L	UJ	T04, T06
SVP234131	CWC-386, CWC-387, CWC-388	12/13/23	EPA 160.5	SS	0		0.1	mL/L/hr	U	
SVP234131	CWC-386, CWC-387, CWC-388	12/13/23	ML-024	pH	7.82		0.1	No Units	J	A03
SVP234131	CWC-386, CWC-387, CWC-388	12/13/23	ML-005	Th-228	0.131	0.208	0.419	pCi/L	UJ	T06
SVP234131	CWC-386, CWC-387, CWC-388	12/13/23	ML-005	Th-230	0.45	0.333	0.309	pCi/L	J	T04, T20
SVP234131	CWC-386, CWC-387, CWC-388	12/13/23	ML-005	Th-232	0.116	0.201	0.427	pCi/L	UJ	T06
SVP234131	CWC-386, CWC-387, CWC-388	12/13/23	ML-006	Ra-226	0.27	0.36	0.663	pCi/L	UJ	T06
SVP234131	CWC-386, CWC-387, CWC-388	12/13/23	ML-015	U-234	0.714	0.434	0.438	pCi/L	J	T04, T20
SVP234131	CWC-386, CWC-387, CWC-388	12/13/23	ML-015	U-235	0.147	0.255	0.54	pCi/L	UJ	T06
SVP234131	CWC-386, CWC-387, CWC-388	12/13/23	ML-015	U-238	0.844	0.469	0.427	pCi/L	J	T04, T20
SVP234131	CWC-386, CWC-387, CWC-388	12/13/23	ML-018	Gross Alpha	1.84	5.96	10.3	pCi/L	UJ	T06
SVP234131	CWC-386, CWC-387, CWC-388	12/13/23	ML-018	Gross Beta	6.03	7.47	12.3	pCi/L	UJ	T06
SVP234132	CWC-386, CWC-387, CWC-388	12/13/23	ML-003	Ac-227	3.6	7.94	14.1	pCi/L	UJ	T04, T06
SVP234131	CWC-386, CWC-387, CWC-388	12/13/23	ML-003	Pa-231	3.58	27	46.7	pCi/L	UJ	T04, T06

Table D-1. NPDES Analytical Data for CY 2023 (Continued)

Sample Name	Station Name	Collection Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code
SVP234132	CWC-386, CWC-387, CWC-388	12/14/23	EPA 160.5	SS	0		0.1	mL/L/hr	U	
SVP234132	CWC-386, CWC-387, CWC-388	12/14/23	ML-024	pH	7.72		0.1	No Units	J	A03
SVP234132	CWC-386, CWC-387, CWC-388	12/14/23	ML-005	Th-228	0.0846	0.165	0.36	pCi/L	UJ	T06
SVP234132	CWC-386, CWC-387, CWC-388	12/14/23	ML-005	Th-230	0.551	0.363	0.3	pCi/L	J	T04, T20
SVP234132	CWC-386, CWC-387, CWC-388	12/14/23	ML-005	Th-232	0	0.159	0.415	pCi/L	UJ	T06
SVP234132	CWC-386, CWC-387, CWC-388	12/14/23	ML-006	Ra-226	0.118	0.236	0.53	pCi/L	UJ	T06
SVP234132	CWC-386, CWC-387, CWC-388	12/14/23	ML-015	U-234	0.949	0.508	0.342	pCi/L	J	T04, T20
SVP234132	CWC-386, CWC-387, CWC-388	12/14/23	ML-015	U-235	0	0.224	0.584	pCi/L	UJ	T06
SVP234132	CWC-386, CWC-387, CWC-388	12/14/23	ML-015	U-238	0.432	0.343	0.34	pCi/L	J	T04, T20
SVP234132	CWC-386, CWC-387, CWC-388	12/14/23	ML-018	Gross Alpha	3.25	6.1	10.3	pCi/L	UJ	T06
SVP234132	CWC-386, CWC-387, CWC-388	12/14/23	ML-018	Gross Beta	4.46	7.38	12.3	pCi/L	UJ	T06
SVP234132	CWC-386, CWC-387, CWC-388	12/14/23	ML-003	Ac-227	1.79	7.99	13.9	pCi/L	UJ	T04, T06
SVP234132	CWC-386, CWC-387, CWC-388	12/14/23	ML-003	Pa-231	-5.69	29.6	49.9	pCi/L	UJ	T04, T06
SVP234133	CWC-386, CWC-387, CWC-388	12/15/23	EPA 160.5	SS	0.01		0.1	mL/L/hr	U	
SVP234133	CWC-386, CWC-387, CWC-388	12/15/23	ML-024	pH	7.48		0.1	No Units	J	A03
SVP234133	CWC-386, CWC-387, CWC-388	12/15/23	ML-005	Th-228	0.489	0.439	0.683	pCi/L	UJ	T04, T05
SVP234133	CWC-386, CWC-387, CWC-388	12/15/23	ML-005	Th-230	0.885	0.533	0.4	pCi/L	J	T04, T20
SVP234133	CWC-386, CWC-387, CWC-388	12/15/23	ML-005	Th-232	0.0752	0.213	0.554	pCi/L	UJ	T06
SVP234133	CWC-386, CWC-387, CWC-388	12/15/23	ML-006	Ra-226	0.451	0.41	0.552	pCi/L	UJ	T04, T05
SVP234133	CWC-386, CWC-387, CWC-388	12/15/23	ML-015	U-234	0.697	0.427	0.387	pCi/L	J	T04, T20
SVP234133	CWC-386, CWC-387, CWC-388	12/15/23	ML-015	U-235	0.224	0.3	0.55	pCi/L	UJ	T06
SVP234133	CWC-386, CWC-387, CWC-388	12/15/23	ML-015	U-238	0.603	0.404	0.444	pCi/L	J	T04, T20
SVP234133	CWC-386, CWC-387, CWC-388	12/15/23	ML-018	Gross Alpha	0.991	5.88	10.3	pCi/L	UJ	T06
SVP234133	CWC-386, CWC-387, CWC-388	12/15/23	ML-018	Gross Beta	5.68	7.45	12.3	pCi/L	UJ	T06
SVP234133	CWC-386, CWC-387, CWC-388	12/15/23	ML-003	Ac-227	5.07	7.88	14.3	pCi/L	UJ	T04, T06
SVP234133	CWC-386, CWC-387, CWC-388	12/15/23	ML-003	Pa-231	1.92	30.2	52	pCi/L	UJ	T04, T06
SVP234134	CWC-386, CWC-387, CWC-388	12/15/23	EPA 160.5	SS	0		0.1	mL/L/hr	U	
SVP234134	CWC-386, CWC-387, CWC-388	12/15/23	ML-024	pH	7.6		0.1	No Units	J	A03
SVP234134	CWC-386, CWC-387, CWC-388	12/15/23	ML-005	Th-228	0.523	0.402	0.517	pCi/L	J	T04, T20
SVP234134	CWC-386, CWC-387, CWC-388	12/15/23	ML-005	Th-230	0.704	0.442	0.348	pCi/L	J	T04, T20

Table D-1. NPDES Analytical Data for CY 2023 (Continued)

Sample Name	Station Name	Collection Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code
SVP234134	CWC-386, CWC-387, CWC-388	12/15/23	ML-005	Th-232	0.049	0.135	0.347	pCi/L	UJ	T06
SVP234134	CWC-386, CWC-387, CWC-388	12/15/23	ML-006	Ra-226	0.268	0.367	0.741	pCi/L	UJ	T06
SVP234134	CWC-386, CWC-387, CWC-388	12/15/23	ML-015	U-234	0.762	0.457	0.344	pCi/L	J	T04, T20
SVP234134	CWC-386, CWC-387, CWC-388	12/15/23	ML-015	U-235	0.14	0.23	0.425	pCi/L	UJ	T06
SVP234134	CWC-386, CWC-387, CWC-388	12/15/23	ML-015	U-238	0.694	0.435	0.343	pCi/L	J	T04, T20
SVP234134	CWC-386, CWC-387, CWC-388	12/15/23	ML-018	Gross Alpha	8.92	6.63	10.3	pCi/L	UJ	T04, T05
SVP234134	CWC-386, CWC-387, CWC-388	12/15/23	ML-018	Gross Beta	-0.262	7.15	12.3	pCi/L	UJ	T06
SVP234134	CWC-386, CWC-387, CWC-388	12/15/23	ML-003	Ac-227	3.63	8.51	14.9	pCi/L	UJ	T04, T06
SVP234134	CWC-386, CWC-387, CWC-388	12/15/23	ML-003	Pa-231	36.4	29.2	53.1	pCi/L	UJ	T04, T05
SVP234135	CWC-386, CWC-387, CWC-388	12/18/23	EPA 160.5	SS	0		0.1	mL/L/hr	U	
SVP234135	CWC-386, CWC-387, CWC-388	12/18/23	ML-024	pH	7.54		0.1	No Units	J	A03
SVP234135	CWC-386, CWC-387, CWC-388	12/18/23	ML-005	Th-228	0.828	0.578	0.502	pCi/L	J	T04, T20
SVP234135	CWC-386, CWC-387, CWC-388	12/18/23	ML-005	Th-230	1.04	0.668	0.697	pCi/L	J	F01, T04, T20
SVP234135	CWC-386, CWC-387, CWC-388	12/18/23	ML-005	Th-232	0.189	0.328	0.696	pCi/L	UJ	T06
SVP234135	CWC-386, CWC-387, CWC-388	12/18/23	ML-006	Ra-226	0.311	0.383	0.781	pCi/L	UJ	T06
SVP234135	CWC-386, CWC-387, CWC-388	12/18/23	ML-015	U-234	0.0587	0.161	0.416	pCi/L	UJ	T06
SVP234135	CWC-386, CWC-387, CWC-388	12/18/23	ML-015	U-235	0.193	0.335	0.711	pCi/L	UJ	T06
SVP234135	CWC-386, CWC-387, CWC-388	12/18/23	ML-015	U-238	0.292	0.316	0.414	pCi/L	UJ	T06
SVP234135	CWC-386, CWC-387, CWC-388	12/18/23	ML-018	Gross Alpha	-1	6.16	11.1	pCi/L	UJ	T06
SVP234135	CWC-386, CWC-387, CWC-388	12/18/23	ML-018	Gross Beta	-0.94	7.23	12.4	pCi/L	UJ	T06
SVP234135	CWC-386, CWC-387, CWC-388	12/18/23	ML-003	Ac-227	6.35	7.88	14.2	pCi/L	UJ	T04, T06
SVP234135	CWC-386, CWC-387, CWC-388	12/18/23	ML-003	Pa-231	-5.75	29.8	50.2	pCi/L	UJ	T04, T06
SVP234136	CWC-386, CWC-387, CWC-388	12/19/23	EPA 160.5	SS	0		0.1	mL/L/hr	U	
SVP234136	CWC-386, CWC-387, CWC-388	12/19/23	ML-024	pH	7.73		0.1	No Units	J	A03
SVP234136	CWC-386, CWC-387, CWC-388	12/19/23	ML-005	Th-228	0.41	0.462	0.755	pCi/L	UJ	T06
SVP234136	CWC-386, CWC-387, CWC-388	12/19/23	ML-005	Th-230	0.822	0.625	0.756	pCi/L	J	F01, T04, T20
SVP234136	CWC-386, CWC-387, CWC-388	12/19/23	ML-005	Th-232	-0.0256	0.211	0.544	pCi/L	UJ	T06
SVP234136	CWC-386, CWC-387, CWC-388	12/19/23	ML-006	Ra-226	0.186	0.324	0.721	pCi/L	UJ	T06
SVP234136	CWC-386, CWC-387, CWC-388	12/19/23	ML-015	U-234	0.517	0.469	0.6	pCi/L	UJ	T04, T05
SVP234136	CWC-386, CWC-387, CWC-388	12/19/23	ML-015	U-235	0	0.328	0.853	pCi/L	UJ	T06

Table D-1. NPDES Analytical Data for CY 2023 (Continued)

Sample Name	Station Name	Collection Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code
SVP234136	CWC-386, CWC-387, CWC-388	12/19/23	ML-015	U-238	0.561	0.499	0.689	pCi/L	UJ	T04, T05
SVP234136	CWC-386, CWC-387, CWC-388	12/19/23	ML-018	Gross Alpha	2.72	6.5	11.1	pCi/L	UJ	T06
SVP234136	CWC-386, CWC-387, CWC-388	12/19/23	ML-018	Gross Beta	0.769	7.31	12.4	pCi/L	UJ	T06
SVP234136	CWC-386, CWC-387, CWC-388	12/19/23	ML-003	Ac-227	5.72	7.84	14.1	pCi/L	UJ	T04, T06
SVP234136	CWC-386, CWC-387, CWC-388	12/19/23	ML-003	Pa-231	11.8	30.1	52.5	pCi/L	UJ	T04, T06
SVP234137	CWC-386, CWC-387, CWC-388	12/20/23	EPA 160.5	SS	0		0.1	mL/L/hr	U	
SVP234137	CWC-386, CWC-387, CWC-388	12/20/23	ML-024	pH	7.59		0.1	No Units	J	A03
SVP234137	CWC-386, CWC-387, CWC-388	12/20/23	ML-005	Th-228	0.513	0.457	0.63	pCi/L	UJ	T04, T05
SVP234137	CWC-386, CWC-387, CWC-388	12/20/23	ML-005	Th-230	1.11	0.654	0.631	pCi/L	J	F01, T04, T20
SVP234137	CWC-386, CWC-387, CWC-388	12/20/23	ML-005	Th-232	0.15	0.246	0.454	pCi/L	UJ	T06
SVP234137	CWC-386, CWC-387, CWC-388	12/20/23	ML-006	Ra-226	0.73	0.467	0.468	pCi/L	J	T04, T20
SVP234137	CWC-386, CWC-387, CWC-388	12/20/23	ML-015	U-234	0.229	0.293	0.442	pCi/L	UJ	T06
SVP234137	CWC-386, CWC-387, CWC-388	12/20/23	ML-015	U-235	-0.0257	0.212	0.546	pCi/L	UJ	T06
SVP234137	CWC-386, CWC-387, CWC-388	12/20/23	ML-015	U-238	0.56	0.445	0.441	pCi/L	J	T04, T20
SVP234137	CWC-386, CWC-387, CWC-388	12/20/23	ML-018	Gross Alpha	-1.29	6.14	11.1	pCi/L	UJ	T06
SVP234137	CWC-386, CWC-387, CWC-388	12/20/23	ML-018	Gross Beta	2.48	7.39	12.4	pCi/L	UJ	T06
SVP234137	CWC-386, CWC-387, CWC-388	12/20/23	ML-003	Ac-227	-0.223	8.54	14.6	pCi/L	UJ	T04, T06
SVP234137	CWC-386, CWC-387, CWC-388	12/20/23	ML-003	Pa-231	1.35	30.2	51.4	pCi/L	UJ	T04, T06
SVP234138	CWC-386, CWC-387, CWC-388	12/21/23	ML-005	Th-228	0.154	0.301	0.657	pCi/L	UJ	T06
SVP234138	CWC-386, CWC-387, CWC-388	12/21/23	ML-005	Th-230	1.31	0.762	0.547	pCi/L	J	F01, T04, T20
SVP234138	CWC-386, CWC-387, CWC-388	12/21/23	ML-005	Th-232	0.206	0.357	0.757	pCi/L	UJ	T06
SVP234138	CWC-386, CWC-387, CWC-388	12/21/23	ML-006	Ra-226	-0.107	0.215	0.839	pCi/L	UJ	T06
SVP234138	CWC-386, CWC-387, CWC-388	12/21/23	ML-015	U-234	0.241	0.308	0.466	pCi/L	UJ	T06
SVP234138	CWC-386, CWC-387, CWC-388	12/21/23	ML-015	U-235	0.0812	0.223	0.575	pCi/L	UJ	T06
SVP234138	CWC-386, CWC-387, CWC-388	12/21/23	ML-015	U-238	0.153	0.252	0.464	pCi/L	UJ	T06

Table D-1. NPDES Analytical Data for CY 2023 (Continued)

Sample Name	Station Name	Collection Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code
SVP234138	CWC-386, CWC-387, CWC-388	12/21/23	ML-018	Gross Alpha	-4.73	5.82	11.1	pCi/L	UJ	T06
SVP234138	CWC-386, CWC-387, CWC-388	12/21/23	ML-018	Gross Beta	5.73	7.55	12.4	pCi/L	UJ	T06
SVP234138	CWC-386, CWC-387, CWC-388	12/21/23	ML-003	Ac-227	-12.9	23.6	39.1	pCi/L	UJ	T04, T06
SVP234138	CWC-386, CWC-387, CWC-388	12/21/23	ML-003	Pa-231	2.16	89.8	153	pCi/L	UJ	T04, T06
SVP234139	CWC-386, CWC-387, CWC-388	12/21/23	EPA 160.5	SS	0		0.1	mL/L/hr	U	
SVP234139	CWC-386, CWC-387, CWC-388	12/21/23	ML-024	pH	7.65		0.1	No Units	J	A03
SVP234139	CWC-386, CWC-387, CWC-388	12/21/23	ML-005	Th-228	0.426	0.407	0.476	pCi/L	UJ	T04, T05
SVP234139	CWC-386, CWC-387, CWC-388	12/21/23	ML-005	Th-230	1.08	0.66	0.661	pCi/L	J	F01, T04, T20
SVP234139	CWC-386, CWC-387, CWC-388	12/21/23	ML-005	Th-232	0.179	0.311	0.66	pCi/L	UJ	T06
SVP234139	CWC-386, CWC-387, CWC-388	12/21/23	ML-006	Ra-226	0	0.215	0.56	pCi/L	UJ	T06
SVP234139	CWC-386, CWC-387, CWC-388	12/21/23	ML-015	U-234	0.538	0.428	0.423	pCi/L	J	T04, T20
SVP234139	CWC-386, CWC-387, CWC-388	12/21/23	ML-015	U-235	-0.0492	0.209	0.628	pCi/L	UJ	T06
SVP234139	CWC-386, CWC-387, CWC-388	12/21/23	ML-015	U-238	0.496	0.429	0.573	pCi/L	UJ	T04, T05
SVP234139	CWC-386, CWC-387, CWC-388	12/21/23	ML-018	Gross Alpha	-2.15	6.06	11.1	pCi/L	UJ	T06
SVP234139	CWC-386, CWC-387, CWC-388	12/21/23	ML-018	Gross Beta	2.82	7.41	12.4	pCi/L	UJ	T06
SVP234139	CWC-386, CWC-387, CWC-388	12/21/23	ML-003	Ac-227	-3.72	7.89	13.2	pCi/L	UJ	T04, T06
SVP234139	CWC-386, CWC-387, CWC-388	12/21/23	ML-003	Pa-231	32.8	29.8	53.8	pCi/L	UJ	T04, T05
SVP234140	CWC-386, CWC-387, CWC-388	12/27/23	EPA 160.5	SS	0		0.1	mL/L/hr	U	
SVP234140	CWC-386, CWC-387, CWC-388	12/27/23	ML-024	pH	7.66		0.1	No Units	J	A03
SVP234140	CWC-386, CWC-387, CWC-388	12/27/23	ML-005	Th-228	0.363	0.379	0.663	pCi/L	UJ	T06
SVP234140	CWC-386, CWC-387, CWC-388	12/27/23	ML-005	Th-230	1.33	0.639	0.5	pCi/L	J	F01
SVP234140	CWC-386, CWC-387, CWC-388	12/27/23	ML-005	Th-232	0.0691	0.196	0.509	pCi/L	UJ	T06
SVP234140	CWC-386, CWC-387, CWC-388	12/27/23	ML-006	Ra-226	0.0325	0.173	0.535	pCi/L	UJ	T06
SVP234140	CWC-386, CWC-387, CWC-388	12/27/23	ML-015	U-234	-0.195	0.235	0.931	pCi/L	UJ	T06
SVP234140	CWC-386, CWC-387, CWC-388	12/27/23	ML-015	U-235	-0.0801	0.196	0.806	pCi/L	UJ	T06
SVP234140	CWC-386, CWC-387, CWC-388	12/27/23	ML-015	U-238	0.0647	0.317	0.848	pCi/L	UJ	T06
SVP234140	CWC-386, CWC-387, CWC-388	12/27/23	ML-018	Gross Alpha	-1.53	6.03	11	pCi/L	UJ	T06
SVP234140	CWC-386, CWC-387, CWC-388	12/27/23	ML-018	Gross Beta	-1.08	7.17	12.4	pCi/L	UJ	T06
SVP234140	CWC-386, CWC-387, CWC-388	12/27/23	ML-003	Ac-227	3.79	6.71	12.1	pCi/L	UJ	T04, T06
SVP234140	CWC-386, CWC-387, CWC-388	12/27/23	ML-003	Pa-231	5.34	26.9	46.6	pCi/L	UJ	T04, T06

Table D-1. NPDES Analytical Data for CY 2023 (Continued)

Sample Name	Station Name	Collection Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code
SVP234141	CWC-386, CWC-387, CWC-388	12/28/23	EPA 160.5	SS	0		0.1	mL/L/hr	U	
SVP234141	CWC-386, CWC-387, CWC-388	12/28/23	ML-024	pH	7.55		0.1	No Units	J	A03
SVP234141	CWC-386, CWC-387, CWC-388	12/28/23	ML-005	Th-228	0.199	0.371	0.859	pCi/L	UJ	T06
SVP234141	CWC-386, CWC-387, CWC-388	12/28/23	ML-005	Th-230	0.674	0.532	0.946	pCi/L	UJ	T04, T05
SVP234141	CWC-386, CWC-387, CWC-388	12/28/23	ML-005	Th-232	-0.153	0.157	0.668	pCi/L	UJ	T06
SVP234141	CWC-386, CWC-387, CWC-388	12/28/23	ML-006	Ra-226	0.0732	0.207	0.538	pCi/L	UJ	T06
SVP234141	CWC-386, CWC-387, CWC-388	12/28/23	ML-015	U-234	0.23	0.249	0.326	pCi/L	UJ	T06
SVP234141	CWC-386, CWC-387, CWC-388	12/28/23	ML-015	U-235	0	0.214	0.558	pCi/L	UJ	T06
SVP234141	CWC-386, CWC-387, CWC-388	12/28/23	ML-015	U-238	0.229	0.247	0.325	pCi/L	UJ	T06
SVP234141	CWC-386, CWC-387, CWC-388	12/28/23	ML-018	Gross Alpha	-0.612	6.12	11	pCi/L	UJ	T06
SVP234141	CWC-386, CWC-387, CWC-388	12/28/23	ML-018	Gross Beta	3.23	7.4	12.4	pCi/L	UJ	T06
SVP234141	CWC-386, CWC-387, CWC-388	12/28/23	ML-003	Ac-227	0.891	8.25	14.3	pCi/L	UJ	T04, T06
SVP234141	CWC-386, CWC-387, CWC-388	12/28/23	ML-003	Pa-231	-4	29.8	50.3	pCi/L	UJ	T04, T06
SVP234142	CWC-386, CWC-387, CWC-388	12/30/23	EPA 160.5	SS	0		0.1	mL/L/hr	U	
SVP234142	CWC-386, CWC-387, CWC-388	12/30/23	ML-024	pH	7.99		0.1	No Units	J	A03
SVP234142	CWC-386, CWC-387, CWC-388	12/30/23	ML-005	Th-228	0.71	0.527	0.486	pCi/L	J	T04, T20
SVP234142	CWC-386, CWC-387, CWC-388	12/30/23	ML-005	Th-230	1.26	0.704	0.487	pCi/L	J	T04, T20
SVP234142	CWC-386, CWC-387, CWC-388	12/30/23	ML-005	Th-232	0.0687	0.189	0.486	pCi/L	UJ	T06
SVP234142	CWC-386, CWC-387, CWC-388	12/30/23	ML-006	Ra-226	0.0663	0.265	0.713	pCi/L	UJ	T06
SVP234142	CWC-386, CWC-387, CWC-388	12/30/23	ML-015	U-234	0.499	0.414	0.491	pCi/L	J	T04, T20
SVP234142	CWC-386, CWC-387, CWC-388	12/30/23	ML-015	U-235	0.0948	0.268	0.698	pCi/L	UJ	T06
SVP234142	CWC-386, CWC-387, CWC-388	12/30/23	ML-015	U-238	0.459	0.408	0.563	pCi/L	UJ	T04, T05
SVP234142	CWC-386, CWC-387, CWC-388	12/30/23	ML-018	Gross Alpha	-1.22	6.55	11.8	pCi/L	UJ	T06
SVP234142	CWC-386, CWC-387, CWC-388	12/30/23	ML-018	Gross Beta	-10.9	7.04	13	pCi/L	UJ	T06

Table D-1. NPDES Analytical Data for CY 2023 (Continued)

Sample Name	Station Name	Collection Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code
SVP234142	CWC-386, CWC-387, CWC-388	12/30/23	ML-003	Ac-227	3.63	7.03	12.6	pCi/L	UJ	T04, T06
SVP234142	CWC-386, CWC-387, CWC-388	12/30/23	ML-003	Pa-231	-6.49	27	44.9	pCi/L	UJ	T04, T06

VQs:

= - Indicates that the data met all QA/QC requirements, and that the parameter has been positively identified and the associated concentration value is accurate.

J - Indicates that the parameter was positively identified; the associated numerical value is the approximate concentration of the parameter in the sample.

U - Indicates that the data met all QA/QC requirements, and that the parameter was analyzed for but was not detected above the reported sample quantitation limit.

UJ - Indicates that the parameter was not detected above the reported sample quantitation limit and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample. However, the reported quantitation limit is approximate.

Validation Reason Codes:

A03 - Analysis holding times were exceeded.

F01 - Blanks: Sample data were qualified as a result of the method blank.

P01 - LCS recovery was above upper control limit.

T04 - Radionuclide Quantitation: Professional judgment was used to qualify the data.

T05 - Radionuclide Quantitation: Analytical result is less than the associated MDA, but greater than the counting uncertainty.

T06 - Radionuclide Quantitation: Analytical result is less than both the associated counting uncertainty and MDA.

T20 - Radionuclide Quantitation: Analytical result is greater than the associated MDA, with uncertainty 50 percent to 100 percent of the result.

Table D-2. Rainfall Data for CY 2023
First Quarter

Date	Rainfall (inches)	Outfall	Outfall VP-56, VP-57, VP-58, Pershall Road, and I-270	Date	Rainfall (inches)	Outfall	Outfall VP-56, VP-57, VP-58, Pershall Road, and I-270	Date	Rainfall (inches)	Outfall	Outfall VP-56, VP-57, VP-58, Pershall Road, and I-270
2023	24-Hour Total	002[a]	Un-Named[b,c]	2023	24-Hour Total	002[a]	Un-Named[b,c]	2023	24-Hour Total	002[a]	Un-Named[b,c]
1-Jan				1-Feb				1-Mar			
2-Jan	0.01			2-Feb				2-Mar			
3-Jan	0.96			3-Feb				3-Mar	0.53	0.28	
4-Jan				4-Feb				4-Mar	1.19		
5-Jan				5-Feb				5-Mar			
6-Jan				6-Feb				6-Mar			
7-Jan				7-Feb				7-Mar			
8-Jan				8-Feb	0.01			8-Mar	0.11		
9-Jan				9-Feb	0.95			9-Mar	0.04		
10-Jan				10-Feb				10-Mar	0.09		
11-Jan				11-Feb				11-Mar	0.14		
12-Jan	0.02			12-Feb				12-Mar	0.18		
13-Jan	0.03			13-Feb				13-Mar	0.01		
14-Jan				14-Feb				14-Mar			
15-Jan				15-Feb	0.21			15-Mar			
16-Jan	0.01			16-Feb	0.28			16-Mar			
17-Jan	0.04			17-Feb	0.02			17-Mar	0.31		
18-Jan				18-Feb				18-Mar			
19-Jan	0.61			19-Feb				19-Mar			
20-Jan				20-Feb	0.02			20-Mar			
21-Jan				21-Feb				21-Mar			
22-Jan				22-Feb				22-Mar	0.04		
23-Jan				23-Feb	0.37			23-Mar			
24-Jan				24-Feb				24-Mar	1.68		
25-Jan	0.34			25-Feb	0.08			25-Mar	0.43		
26-Jan	0.11			26-Feb				26-Mar	0.01		
27-Jan				27-Feb	0.20			27-Mar	0.21		
28-Jan				28-Feb	0.01			28-Mar			
29-Jan								29-Mar	0.05		
30-Jan	0.07							30-Mar			
31-Jan	0.01							31-Mar	0.06		
Monthly Total	**2.21**			**Monthly Total**	**2.15**			**Monthly Total**	**5.08**	**0.28**	

[a] Per a USACE email dated April 19, 2018, sampling at Outfall 002 has been increased to once per month.

[b] Un-Named moving outfall is an outfall sampled during pumping activities or from a rain event producing a measurable flow offsite.

[c] Remediation work started at the Un-Named Outfall VP-56, VP-57, VP-58, Pershall Road, and I-270 on June 16, 2021.

Notes:

Flow measurements for the outfalls are reported in MGD. All blank spaces represent zero flow.

Rainfall data are obtained from the www.wunderground.com site (Weather Underground, Inc. 2023).

Table D-2. Rainfall Data for CY 2023 (Continued)
Second Quarter

Date	Rainfall (inches)	Outfall	Outfall VP-56, VP-57, VP-58, Pershall Road, and I-270	Date	Rainfall (inches)	Outfall	Outfall VP-56, VP-57, VP-58, Pershall Road, and I-270	Date	Rainfall (inches)	Outfall	Outfall VP-56, VP-57, VP-58, Pershall Road, and I-270
2023	24-Hour Total	002[a]	Un-Named[b,c]	2023	24-Hour Total	002[a]	Un-Named[b,c]	2023	24-Hour Total	002[a]	Un-Named[b,c]
1-Apr	0.10			1-May				1-Jun			
2-Apr				2-May				2-Jun	0.08		
3-Apr				3-May				3-Jun			
4-Apr				4-May				4-Jun			
5-Apr				5-May				5-Jun	0.10		
6-Apr	0.70			6-May				6-Jun			
7-Apr				7-May				7-Jun			
8-Apr				8-May	0.53			8-Jun	0.20		
9-Apr				9-May				9-Jun			
10-Apr				10-May	0.01			10-Jun			
11-Apr				11-May				11-Jun	0.43		
12-Apr				12-May	0.13			12-Jun	0.68		
13-Apr				13-May				13-Jun			
14-Apr				14-May	0.62			14-Jun			
15-Apr				15-May	0.11			15-Jun			
16-Apr	1.75			16-May	0.18			16-Jun			
17-Apr				17-May	0.03			17-Jun			
18-Apr				18-May				18-Jun			
19-Apr				19-May				19-Jun	1.53		
20-Apr				20-May				20-Jun			
21-Apr	0.06			21-May				21-Jun			
22-Apr				22-May				22-Jun			
23-Apr				23-May				23-Jun			
24-Apr				24-May				24-Jun			
25-Apr				25-May				25-Jun			
26-Apr				26-May				26-Jun			
27-Apr				27-May				27-Jun			
28-Apr	0.04			28-May				28-Jun			
29-Apr				29-May				29-Jun			
30-Apr	0.02			30-May				30-Jun			
				31-May							
Monthly Total	**2.67**			**Monthly Total**	**1.61**			**Monthly Total**	**3.02**		

[a] Per a USACE email dated April 19, 2018, sampling at Outfall 002 has been increased to once per month.

[b] Un-Named moving outfall is an outfall sampled during pumping activities or from a rain event producing a measurable flow offsite.

[c] Remediation work started at the Un-Named Outfall VP-56, VP-57, VP-58, Pershall Road, and I-270 on June 16, 2021.

Notes:

Flow measurements for the outfalls are reported in MGD. All blank spaces represent zero flow.

Rainfall data are obtained from the www.wunderground.com site (Weather Underground, Inc. 2023).

Table D-2. Rainfall Data for CY 2023 (Continued)
Third Quarter

Date	Rainfall (inches)	Outfall	Outfall CWC-386, CWC-387, and CWC-388	Date	Rainfall (inches)	Outfall	Outfall CWC-386, CWC-387, and CWC-388	Date	Rainfall (inches)	Outfall	Outfall CWC-386, CWC-387, and CWC-388
2023	24-Hour Total	002[a]	Un-Named[b,c]	2023	24-Hour Total	002[a]	Un-Named[b,c]	2023	24-Hour Total	002[a]	Un-Named[b,c]
1-Jul	0.18			1-Aug				1-Sep			
2-Jul	1.54			2-Aug	0.32			2-Sep			
3-Jul	0.03			3-Aug	0.51			3-Sep			
4-Jul				4-Aug	0.16			4-Sep			
5-Jul				5-Aug	0.99			5-Sep	0.25		
6-Jul				6-Aug				6-Sep			
7-Jul				7-Aug	0.10			7-Sep			
8-Jul	0.06			8-Aug	0.01			8-Sep	0.20		
9-Jul				9-Aug				9-Sep			
10-Jul				10-Aug	0.02			10-Sep			
11-Jul				11-Aug				11-Sep			
12-Jul				12-Aug	0.34			12-Sep	0.07		
13-Jul	0.98			13-Aug				13-Sep			
14-Jul				14-Aug	0.57			14-Sep			
15-Jul	1.03			15-Aug	0.03			15-Sep			
16-Jul	0.10			16-Aug				16-Sep			
17-Jul	0.03			17-Aug				17-Sep			
18-Jul				18-Aug	0.03			18-Sep			
19-Jul				19-Aug				19-Sep			
20-Jul				20-Aug				20-Sep			
21-Jul	0.54			21-Aug				21-Sep	0.03		
22-Jul				22-Aug				22-Sep	0.33		
23-Jul	0.02			23-Aug				23-Sep			
24-Jul				24-Aug				24-Sep			
25-Jul				25-Aug				25-Sep			
26-Jul				26-Aug				26-Sep			
27-Jul	0.01			27-Aug	0.52			27-Sep	1.99		0.18
28-Jul				28-Aug				28-Sep			
29-Jul				29-Aug				29-Sep			
30-Jul	0.29			30-Aug				30-Sep			
31-Jul				31-Aug							
Monthly Total	**4.81**			**Monthly Total**	**3.60**			**Monthly Total**	**2.87**		**0.18**

[a] Per a USACE email dated April 19, 2018, sampling at Outfall 002 has been increased to once per month.

[b] Un-Named moving outfall is an outfall sampled during pumping activities or from a rain event producing a measurable flow offsite.

[c] Remediation work started at Un-Named Outfall CWC-386, CWC-387, and CWC-388 (Northwest Bank of CWC) on July 24, 2023.

Notes:

Flow measurements for the outfalls are reported in MGD. All blank spaces represent zero flow.

Rainfall data are obtained from the www.wunderground.com site (Weather Underground, Inc. 2023).

Table D-2. Rainfall Data for CY 2023 (Continued)
Fourth Quarter

Date	Rainfall (inches)	Outfall	Outfall CWC-386, CWC-387, and CWC-388	Date	Rainfall (inches)	Outfall	Outfall CWC-386, CWC-387, and CWC-388	Date	Rainfall (inches)	Outfall	Outfall CWC-386, CWC-387, and CWC-388
2023	24-Hour Total	002[a]	Un-Named[b,c]	2023	24-Hour Total	002[a]	Un-Named[b,c]	2023	24-Hour Total	002[a]	Un-Named[b,c,d]
1-Oct				1-Nov				1-Dec	0.50		
2-Oct				2-Nov				2-Dec	0.09		
3-Oct				3-Nov				3-Dec	0.13		
4-Oct				4-Nov				4-Dec	0.29		
5-Oct	0.23			5-Nov				5-Dec	0.08		
6-Oct	0.38			6-Nov				6-Dec			
7-Oct				7-Nov				7-Dec			
8-Oct				8-Nov				8-Dec			2.10
9-Oct				9-Nov				9-Dec	0.01		
10-Oct				10-Nov				10-Dec			
11-Oct	0.01			11-Nov				11-Dec			2.10
12-Oct	0.05			12-Nov				12-Dec			2.10
13-Oct				13-Nov				13-Dec			2.10
14-Oct	0.14			14-Nov				14-Dec			2.10
15-Oct	0.01			15-Nov				15-Dec			2.10
16-Oct				16-Nov				16-Dec	0.13		
17-Oct				17-Nov	0.01			17-Dec	0.19		
18-Oct				18-Nov				18-Dec			2.10
19-Oct				19-Nov				19-Dec			2.10
20-Oct				20-Nov				20-Dec			2.10
21-Oct				21-Nov	0.50			21-Dec			2.10
22-Oct				22-Nov				22-Dec			
23-Oct				23-Nov				23-Dec	0.19		
24-Oct				24-Nov				24-Dec			
25-Oct	0.01			25-Nov				25-Dec	0.09		
26-Oct	0.27			26-Nov	0.05			26-Dec	0.37		
27-Oct				27-Nov	0.13			27-Dec			2.10
28-Oct	0.03			28-Nov				28-Dec	0.43		2.10
29-Oct	0.72			29-Nov				29-Dec	0.05		
30-Oct	0.36			30-Nov				30-Dec	0.02		2.10
31-Oct								31-Dec			
Monthly Total	**2.21**			**Monthly Total**	**0.69**			**Monthly Total**	**2.57**		**27.30**

[a] Per a USACE email dated April 19, 2018, sampling at Outfall 002 has been increased to once per month.

[b] Un-Named moving outfall is an outfall sampled during pumping activities or from a rain event producing a measurable flow offsite.

[c] Remediation work started at Un-Named Outfall CWC-386, CWC-387, and CWC-388 (Northwest Bank of CWC) on July 24, 2023.

[d] Pumping activities in CWC started on December 8, 2023.

Notes:

Flow measurements for the outfalls are reported in MGD. All blank spaces represent zero flow.

Rainfall data are obtained from the www.wunderground.com site (Weather Underground, Inc. 2023).

Table D-3. Self-Monitoring Report for Excavation Water Discharge During CY 2023 First Quarter

Parameter	Batch Number	Date of Discharge	Batch Results[a]		Amount Discharged (Gallons)	Total Activity per Discharge (Ci)[b]	MSD Discharge Limit		SOR
Gross Alpha (raw water)	SLAPS-372	01/10/23 (Pershall Road, I-270, VP-56, VP-57, VP-58)	<10.7	pCi/L	13,500	2.7E-07	3,000	pCi/L	0.00
Gross Beta			<13	pCi/L		3.3E-07	NA		
Th-228			<0.8	pCi/L		2.0E-08	2,000	pCi/L	
Th-230			1.9	pCi/L		9.7E-08	1,000	pCi/L	
Uranium (Isotopic U)[c]			1.15	pCi/L		5.9E-08	3,000	pCi/L	
Ra-226[d]			<0.5	pCi/L		1.3E-08	10	pCi/L	
Ra-228[e,f]			<0.8	pCi/L		2.0E-08	30	pCi/L	
Barium			[i]	mg/L			10	mg/L	
Lead			[i]	mg/L			0.4	mg/L	
Selenium[g]			[i]	mg/L			0.2	mg/L[g]	
BOD[h]				mg/L			-		
COD[h]				mg/L			-		
Gross Alpha (TSS filtrate)			<10.7	pCi/L			-		
TSS			54.0	mg/L			-		
Gross Alpha (raw water)	SLAPS-373	01/10/23 - 01/11/23 (SLAPS VP Ballfields)	16	pCi/L	193,883	1.2E-05	3,000	pCi/L	0.01
Gross Beta			<11.7	pCi/L		4.3E-06	NA		
Th-228			<0.4	pCi/L		1.6E-07	2,000	pCi/L	
Th-230			8.2	pCi/L		6.0E-06	1,000	pCi/L	
Uranium (Isotopic U)[c]			9.8	pCi/L		7.2E-06	3,000	pCi/L	
Ra-226[d]			<0.8	pCi/L		2.9E-07	10	pCi/L	
Ra-228[e,f]			<0.4	pCi/L		1.6E-07	30	pCi/L	
Barium			[i]	mg/L			10	mg/L	
Lead			[i]	mg/L			0.4	mg/L	
Selenium[g]			[i]	mg/L			0.2	mg/L[g]	
BOD[h]				mg/L			-		
COD[h]				mg/L			-		
Gross Alpha (TSS filtrate)			12.2	pCi/L			-		
TSS			18.7	mg/L			-		

Table D-3. Self-Monitoring Report for Excavation Water Discharge During CY 2023 First Quarter (Continued)

Parameter	Batch Number	Date of Discharge	Batch Results[a]		Amount Discharged (Gallons)	Total Activity per Discharge (Ci)[b]	MSD Discharge Limit		SOR
Gross Alpha (raw water)	SLAPS-374	02/02/23 - 02/21/23 (Pershall Road, I-270, VP-56, VP-57, VP-58)	<11.3	pCi/L	56,700	1.2E-06	3,000	pCi/L	0.00
Gross Beta			<12.2	pCi/L		1.3E-06	NA		
Th-228			<1	pCi/L		1.1E-07	2,000	pCi/L	
Th-230			1.1	pCi/L		2.3E-07	1,000	pCi/L	
Uranium (Isotopic U)[c]			2.7	pCi/L		5.8E-07	3,000	pCi/L	
Ra-226[d]			<0.7	pCi/L		7.9E-08	10	pCi/L	
Ra-228[e,f]			<1	pCi/L		1.1E-07	30	pCi/L	
Barium			[i]	mg/L			10	mg/L	
Lead			[i]	mg/L			0.4	mg/L	
Selenium[g]			[i]	mg/L			0.2	mg/L[g]	
BOD[h]				mg/L			-		
COD[h]				mg/L			-		
Gross Alpha (TSS filtrate)			<11.3	pCi/L			-		
TSS			44.8	mg/L			-		
Gross Alpha (raw water)	SLAPS-375	02/27/23 - 02/28/23 (SLAPS VP Ballfields)	22.5	pCi/L	199,022	1.7E-05	3,000	pCi/L	0.02
Gross Beta			13.6	pCi/L		1.0E-05	NA		
Th-228			<0.9	pCi/L		3.5E-07	2,000	pCi/L	
Th-230			17.0	pCi/L		1.3E-05	1,000	pCi/L	
Uranium (Isotopic U)[c]			4.65	pCi/L		3.5E-06	3,000	pCi/L	
Ra-226[d]			1.8	pCi/L		1.4E-06	10	pCi/L	
Ra-228[e,f]			<0.9	pCi/L		3.5E-07	30	pCi/L	
Barium			[i]	mg/L			10	mg/L	
Lead			[i]	mg/L			0.4	mg/L	
Selenium[g]			[i]	mg/L			0.2	mg/L[g]	
BOD[h]				mg/L			-		
COD[h]				mg/L			-		
Gross Alpha (TSS filtrate)			12.9	pCi/L			-		
TSS			30.3	mg/L			-		

Table D-3. Self-Monitoring Report for Excavation Water Discharge During CY 2023 First Quarter (Continued)

Parameter	Batch Number	Date of Discharge	Batch Results[a]		Amount Discharged (Gallons)	Total Activity per Discharge (Ci)[b]	MSD Discharge Limit		SOR
Gross Alpha (raw water)	SLAPS-376	03/01/23 - 03/30/23 (SLAPS VP Ballfields)	31.9	pCi/L	383,902	4.6E-05	3,000	pCi/L	0.03
Gross Beta			18.2	pCi/L		2.7E-05	NA		
Th-228			<0.7	pCi/L		9.6E-07	2,000	pCi/L	
Th-230			22.3	pCi/L		3.2E-05	1,000	pCi/L	
Uranium (Isotopic U)[c]			4.94	pCi/L		7.2E-06	3,000	pCi/L	
Ra-226[d]			1.2	pCi/L		1.8E-06	10	pCi/L	
Ra-228[e,f]			<0.7	pCi/L		9.6E-07	30	pCi/L	
Barium			[i]	mg/L			10	mg/L	
Lead			[i]	mg/L			0.4	mg/L	
Selenium[g]			[i]	mg/L			0.2	mg/L[g]	
BOD[h]				mg/L			-		
COD[h]				mg/L			-		
Gross Alpha (TSS filtrate)			13.5	pCi/L			-		
TSS			36.6	mg/L			-		

Table D-3. Self-Monitoring Report for Excavation Water Discharge During CY 2023 First Quarter (Continued)

Parameter	Batch Number	Date of Discharge	Batch Results[a]		Amount Discharged (Gallons)	Total Activity per Discharge (Ci)[b]	MSD Discharge Limit		SOR
Gross Alpha (raw water)	SLAPS-377	03/02/23 - 03/20/23 (Pershall Road, I-270, VP-56, VP-57, VP-58)	<11.3	pCi/L	135,370	5.8E-06	3,000	pCi/L	0.01
Gross Beta			<12.5	pCi/L		6.4E-06	NA		
Th-228			<1	pCi/L		5.0E-07	2,000	pCi/L	
Th-230			<0.8	pCi/L		4.3E-07	1,000	pCi/L	
Uranium (Isotopic U)[c]			5.27	pCi/L		2.7E-06	3,000	pCi/L	
Ra-226[d]			1.0	pCi/L		5.3E-07	10	pCi/L	
Ra-228[e,f]			<1	pCi/L		5.0E-07	30	pCi/L	
Barium			[i]	mg/L			10	mg/L	
Lead			[i]	mg/L			0.4	mg/L	
Selenium[g]			[i]	mg/L			0.2	mg/L[g]	
BOD[h]				mg/L			-		
COD[h]				mg/L			-		
Gross Alpha (TSS filtrate)			<11.3	pCi/L			-		
TSS			20.6	mg/L			-		

Total Activity Discharged in First Quarter of CY 2023 (Ci)

Th-228	2.1E-06
Th-230	5.2E-05
Uranium (Isotopic U)[c]	2.1E-05
Ra-226	1.7E-06
Ra-228[e]	2.1E-06

Total Activity Discharged through 03/31/23 (Ci)

Th-228	2.1E-06
Th-230	5.2E-05
Uranium (Isotopic U)[c]	2.1E-05
Ra-226	1.7E-06
Ra-228[e]	2.1E-06

Total Volume Discharged in First Quarter of CY 2023 (gallons)

Gallons	982,377

Total Volume Discharged through 03/31/23 (gallons)

Gallons	982,377

[a] Non-detect sample results are converted to half the DL for total activity until March 2023. After that, non-detect sample results are converted to the DL for total activity.

[b] The weighted average was used to calculate the total activity.

[c] Total U (KPA) is unavailable and sum of isotopic results are being substituted.

[d] 10 *CFR* 20 limit is 600 pCi/L for Ra-226.

[e] Ra-228 assumed to be in equilibrium with Th-228.

[f] 10 *CFR* 20 limit is 600 pCi/L for Ra-228.

[g] The limit for selenium can be a daily total mass of 76 g, with a concentration not to exceed 0.90 mg/L.

[h] MSD surcharges apply for BOD concentration greater than 300 mg/L and COD concentration greater than 600 mg/L.

[i] Analysis for metals is not required per the MSD letter dated May 24, 2012 (MSD 2012).

Notes:

- No data/No limit

BOD - biological oxygen demand

COD - chemical oxygen demand

NA - not applicable

SOR - sum of ratios (unitless)

TSS - total suspended solid(s)

Table D-3. Self-Monitoring Report for Excavation Water Discharge During CY 2023 Second Quarter

Parameter	Batch Number	Date of Discharge	Batch Results[a]		Amount Discharged (Gallons)	Total Activity per Discharge (Ci)[b]	MSD Discharge Limit		SOR
Gross Alpha (raw water)	SLAPS-378	04/03/23 - 04/24/23 (SLAPS VP Ballfields)	<11.9	pCi/L	412,401	1.9E-05	3,000	pCi/L	0.01
Gross Beta			<12.7	pCi/L		2.0E-05	NA		
Th-228			<1	pCi/L		1.5E-06	2,000	pCi/L	
Th-230			3.6	pCi/L		5.7E-06	1,000	pCi/L	
Uranium (Isotopic Uranium)[c]			3.1	pCi/L		4.8E-06	3,000	pCi/L	
Ra-226[d]			<1.2	pCi/L		2.0E-06	10	pCi/L	
Ra-228[e,f]			<1	pCi/L		1.5E-06	30	pCi/L	
Barium			[i]	mg/L			10	mg/L	
Lead			[i]	mg/L			0.4	mg/L	
Selenium[g]			[i]	mg/L			0.2	mg/L[g]	
BOD[h]				mg/L			-		
COD[h]				mg/L			-		
Gross Alpha (TSS filtrate)			<11.9	pCi/L			-		
TSS			26.2	mg/L			-		
Gross Alpha (raw water)	SLAPS-379	04/03/23 (Pershall Road, I-270, VP-56, VP-57, VP-58)	<10.8	pCi/L	11,676	4.8E-07	3,000	pCi/L	0.00
Gross Beta			<12.7	pCi/L		5.6E-07	NA		
Th-228			<0.5	pCi/L		2.3E-08	2,000	pCi/L	
Th-230			0.9	pCi/L		4.0E-08	1,000	pCi/L	
Uranium (Isotopic Uranium)[c]			4.55	pCi/L		2.0E-07	3,000	pCi/L	
Ra-226[d]			0.5	pCi/L		2.4E-08	10	pCi/L	
Ra-228[e,f]			<0.5	pCi/L		2.3E-08	30	pCi/L	
Barium			[i]	mg/L			10	mg/L	
Lead			[i]	mg/L			0.4	mg/L	
Selenium[g]			[i]	mg/L			0.2	mg/L[g]	
BOD[h]				mg/L			-		
COD[h]				mg/L			-		
Gross Alpha (TSS filtrate)			<10.8	pCi/L			-		
TSS			<4.2	mg/L			-		

Table D-3. Self-Monitoring Report for Excavation Water Discharge During CY 2023 Second Quarter (Continued)

Parameter	Batch Number	Date of Discharge	Batch Results[a]		Amount Discharged (Gallons)	Total Activity per Discharge (Ci)[b]	MSD Discharge Limit		SOR
Gross Alpha (raw water)	SLAPS-380	05/15/23 (SLAPS VP Ballfields)	<11.1	pCi/L	88,405	3.7E-06	3,000	pCi/L	0.01
Gross Beta			<12.4	pCi/L		4.1E-06	NA		
Th-228			<0.5	pCi/L		1.6E-07	2,000	pCi/L	
Th-230			8.8	pCi/L		3.0E-06	1,000	pCi/L	
Uranium (Isotopic U)[c]			2.36	pCi/L		7.9E-07	3,000	pCi/L	
Ra-226[d]			<1	pCi/L		3.4E-07	10	pCi/L	
Ra-228[e,f]			<0.5	pCi/L		1.6E-07	30	pCi/L	
Barium			[i]	mg/L			10	mg/L	
Lead			[i]	mg/L			0.4	mg/L	
Selenium[g]			[i]	mg/L			0.2	mg/L[g]	
BOD[h]				mg/L			-		
COD[h]				mg/L			-		
Gross Alpha (TSS filtrate)			<11.1	pCi/L			-		
TSS			56.8	mg/L			-		

Total Activity Discharged in Second Quarter of CY 2023 (Ci)	
Th-228	1.7E-06
Th-230	8.7E-06
Uranium (Isotopic U)[c]	5.8E-06
Ra-226	2.3E-06
Ra-228[e]	1.7E-06

Total Activity Discharged through 06/30/23 (Ci)	
Th-228	3.8E-06
Th-230	6.1E-05
Uranium (Isotopic U)[c]	2.7E-05
Ra-226	4.1E-06
Ra-228[e]	3.8E-06

Total Volume Discharged in Second Quarter of CY 2023 (gallons)	
Gallons	512,482

Total Volume Discharged through 06/30/23 (gallons)	
Gallons	1,494,859

[a] Non-detect sample results are converted to the DL for total activity.

[b] The weighted average was used to calculate the total activity.

[c] Total U (KPA) is unavailable and sum of isotopic results are being substituted.

[d] 10 *CFR* 20 limit is 600 pCi/L for Ra-226.

[e] Ra-228 assumed to be in equilibrium with Th-228.

[f] 10 *CFR* 20 limit is 600 pCi/L for Ra-228.

[g] The limit for selenium can be a daily total mass of 76 g, with a concentration not to exceed 0.90 mg/L.

[h] MSD surcharges apply for BOD concentration greater than 300 mg/L and COD concentration greater than 600 mg/L.

[i] Analysis for metals is not required per the MSD letter dated May 24, 2012 (MSD 2012).

Notes:

- No data/No limit

BOD - biological oxygen demand

COD - chemical oxygen demand

NA - not applicable

SOR - sum of ratios (unitless)

TSS - total suspended solid(s)

Table D-3. Self-Monitoring Report for Excavation Water Discharge During CY 2023 Third Quarter

Parameter	Batch Number	Date of Discharge	Batch Results[a]		Amount Discharged (Gallons)	Total Activity per Discharge (Ci)[b]	MSD Discharge Limit		SOR
Gross Alpha (raw water)	SLAPS-381	07/10/23 - 07/11/23 (SLAPS VP Ballfields)	12.0	pCi/L	148,731	6.8E-06	3,000	pCi/L	0.01
Gross Beta			12.1	pCi/L		6.8E-06	NA		
Th-228			<0.7	pCi/L		4.2E-07	2,000	pCi/L	
Th-230			4.9	pCi/L		2.8E-06	1,000	pCi/L	
Uranium (Isotopic U)[c]			2.07	pCi/L		1.2E-06	3,000	pCi/L	
Ra-226[d]			0.7	pCi/L		4.1E-07	10	pCi/L	
Ra-228[e,f]			<0.7	pCi/L		4.2E-07	30	pCi/L	
Barium			[i]	mg/L			10	mg/L	
Lead			[i]	mg/L			0.4	mg/L	
Selenium[g]			[i]	mg/L			0.2	mg/L[g]	
BOD[h]				mg/L			-		
COD[h]				mg/L			-		
Gross Alpha (TSS filtrate)			12.0	pCi/L			-		
TSS			60.6	mg/L			-		

Table D-3. Self-Monitoring Report for Excavation Water Discharge During CY 2023 Third Quarter (Continued)

Parameter	Batch Number	Date of Discharge	Batch Results[a]		Amount Discharged (Gallons)	Total Activity per Discharge (Ci)[b]	MSD Discharge Limit		SOR
Gross Alpha (raw water)	SLAPS-382	08/14/23 - 08/15/23 (SLAPS VP Ballfields)	12.4	pCi/L	141,397	6.6E-06	3,000	pCi/L	0.01
Gross Beta			14.87	pCi/L		8.0E-06	NA		
Th-228			<0.6	pCi/L		3.0E-07	2,000	pCi/L	
Th-230			7.5	pCi/L		4.0E-06	1,000	pCi/L	
Uranium (Isotopic U)[c]			2.69	pCi/L		1.4E-06	3,000	pCi/L	
Ra-226[d]			0.9	pCi/L		4.7E-07	10	pCi/L	
Ra-228[e,f]			<0.6	pCi/L		3.0E-07	30	pCi/L	
Barium			[i]	mg/L			10	mg/L	
Lead			[i]	mg/L			0.4	mg/L	
Selenium[g]			[i]	mg/L			0.2	mg/L[g]	
BOD[h]				mg/L			-		
COD[h]				mg/L			-		
Gross Alpha (TSS filtrate)			10.9	pCi/L			-		
TSS			82.6	mg/L			-		

Total Activity Discharged in Third Quarter of CY 2023 (Ci)	
Th-228	7.2E-07
Th-230	6.8E-06
Uranium (Isotopic U)[c]	2.6E-06
Ra-226	8.8E-07
Ra-228[d]	7.2E-07

Total Activity Discharged through 09/30/23 (Ci)	
Th-228	4.5E-06
Th-230	6.7E-05
Uranium (Isotopic U)[c]	3.0E-05
Ra-226	4.9E-06
Ra-228[d]	4.5E-06

Total Volume Discharged in Third Quarter of CY 2023 (gallons)	
Gallons	290,128

Total Volume Discharged through 09/30/23 (gallons)	
Gallons	1,784,987

[a] Non-detect sample results are converted to the DL for total activity.

[b] The weighted average was used to calculate the total activity.

[c] Total U (KPA) is unavailable and sum of isotopic results are being substituted.

[d] 10 *CFR* 20 limit is 600 pCi/L for Ra-226.

[e] Ra-228 assumed to be in equilibrium with Th-228.

[f] 10 *CFR* 20 limit is 600 pCi/L for Ra-228.

[g] The limit for selenium can be a daily total mass of 76 g, with a concentration not to exceed 0.90 mg/L.

[h] MSD surcharges apply for BOD concentration greater than 300 mg/L and COD concentration greater than 600 mg/L.

[i] Analysis for metals is not required per the MSD letter dated May 24, 2012 (MSD 2012).

Notes:

- No data/No limit

BOD - biological oxygen demand

COD - chemical oxygen demand

NA - Not applicable

SOR - sum of ratios (unitless)

TSS - total suspended solid(s)

Table D-3. Self-Monitoring Report for Excavation Water Discharge During CY 2023 Fourth Quarter

Parameter	Batch Number	Date of Discharge	Batch Results[a]		Amount Discharged (Gallons)	Total Activity per Discharge (Ci)[b]	MSD Discharge Limit		SOR
Gross Alpha (raw water)	SLAPS-383	10/09/23 (MSD CWC Phase A)	<10.3	pCi/L	100	3.9E-09	3,000	pCi/L	0.00
Gross Beta			<12.6	pCi/L		4.8E-09	NA		
Th-228			<0.4	pCi/L		1.6E-10	2,000	pCi/L	
Th-230			<0.5	pCi/L		1.8E-10	1,000	pCi/L	
Uranium (Isotopic U)[c]			1.62	pCi/L		6.1E-10	3,000	pCi/L	
Ra-226[d]			<0.6	pCi/L		2.3E-10	10	pCi/L	
Ra-228[e,f]			<0.4	pCi/L		1.6E-10	30	pCi/L	
Barium			[i]	mg/L			10	mg/L	
Lead			[i]	mg/L			0.4	mg/L	
Selenium[g]			[i]	mg/L			0.2	mg/L[g]	
BOD[h]				mg/L			-		
COD[h]				mg/L			-		
Gross Alpha (TSS filtrate)			<10.3	pCi/L			-		
TSS			7.8	mg/L			-		
Gross Alpha (raw water)	SLAPS-384	10/09/23 (MSD CWC Phase A)	<10.3	pCi/L	200	7.8E-09	3,000	pCi/L	0.00
Gross Beta			<12.6	pCi/L		9.5E-09	NA		
Th-228			<0.6	pCi/L		4.2E-10	2,000	pCi/L	
Th-230			0.9	pCi/L		6.9E-10	1,000	pCi/L	
Uranium (Isotopic U)[c]			2.51	pCi/L		1.9E-09	3,000	pCi/L	
Ra-226[d]			<0.8	pCi/L		6.3E-10	10	pCi/L	
Ra-228[e,f]			<0.6	pCi/L		4.2E-10	30	pCi/L	
Barium			[i]	mg/L			10	mg/L	
Lead			[i]	mg/L			0.4	mg/L	
Selenium[g]			[i]	mg/L			0.2	mg/L[g]	
BOD[h]				mg/L			-		
COD[h]				mg/L			-		
Gross Alpha (TSS filtrate)			<10.3	pCi/L			-		
TSS			6.4	mg/L			-		

Table D-3. Self-Monitoring Report for Excavation Water Discharge During CY 2023 Fourth Quarter (Continued)

Parameter	Batch Number	Date of Discharge	Batch Results[a]		Amount Discharged (Gallons)	Total Activity per Discharge (Ci)[b]	MSD Discharge Limit		SOR
Gross Alpha (raw water)	SLAPS-385	10/09/23 (MSD CWC Phase A)	<10.5	pCi/L	16,590	6.6E-07	3,000	pCi/L	0.00
Gross Beta			<13	pCi/L		8.2E-07	NA		
Th-228			<0.8	pCi/L		4.8E-08	2,000	pCi/L	
Th-230			1.6	pCi/L		1.0E-07	1,000	pCi/L	
Uranium (Isotopic U)[c]			1.86	pCi/L		1.2E-07	3,000	pCi/L	
Ra-226[d]			<0.6	pCi/L		3.7E-08	10	pCi/L	
Ra-228[e,f]			<0.8	pCi/L		4.8E-08	30	pCi/L	
Barium			[i]	mg/L			10	mg/L	
Lead			[i]	mg/L			0.4	mg/L	
Selenium[g]			[i]	mg/L			0.2	mg/L[g]	
BOD[h]				mg/L			-		
COD[h]				mg/L			-		
Gross Alpha (TSS filtrate)			<10.5	pCi/L			-		
TSS			10.4	mg/L			-		
Gross Alpha (raw water)	SLAPS-386	11/02/23 (MSD CWC Phase A)	<11.3	pCi/L	20,100	8.6E-07	3,000	pCi/L	0.00
Gross Beta			<13.1	pCi/L		1.0E-06	NA		
Th-228			<0.6	pCi/L		4.2E-08	2,000	pCi/L	
Th-230			1.1	pCi/L		8.3E-08	1,000	pCi/L	
Uranium (Isotopic U)[c]			2.97	pCi/L		2.3E-07	3,000	pCi/L	
Ra-226[d]			<0.7	pCi/L		5.0E-08	10	pCi/L	
Ra-228[e,f]			<0.6	pCi/L		4.2E-08	30	pCi/L	
Barium			[i]	mg/L			10	mg/L	
Lead			[i]	mg/L			0.4	mg/L	
Selenium[g]			[i]	mg/L			0.2	mg/L[g]	
BOD[h]				mg/L			-		
COD[h]				mg/L			-		
Gross Alpha (TSS filtrate)			<11.3	pCi/L			-		
TSS			71.2	mg/L			-		

Table D-3. Self-Monitoring Report for Excavation Water Discharge During CY 2023 Fourth Quarter (Continued)

Parameter	Batch Number	Date of Discharge	Batch Results[a]		Amount Discharged (Gallons)	Total Activity per Discharge (Ci)[b]	MSD Discharge Limit		SOR
Gross Alpha (raw water)	SLAPS-387	11/06/23 - 11/07/23 (SLAPS VP Ballfields)	<11.3	pCi/L	154,484	6.6E-06	3,000	pCi/L	0.00
Gross Beta			<13.1	pCi/L		7.7E-06	NA		
Th-228			<0.6	pCi/L		3.8E-07	2,000	pCi/L	
Th-230			1.2	pCi/L		7.0E-07	1,000	pCi/L	
Uranium (Isotopic U)[c]			2.23	pCi/L		1.3E-06	3,000	pCi/L	
Ra-226[d]			<0.5	pCi/L		3.1E-07	10	pCi/L	
Ra-228[e,f]			<0.6	pCi/L		3.8E-07	30	pCi/L	
Barium			[i]	mg/L			10	mg/L	
Lead			[i]	mg/L			0.4	mg/L	
Selenium[g]			[i]	mg/L			0.2	mg/L[g]	
BOD[h]				mg/L			-		
COD[h]				mg/L			-		
Gross Alpha (TSS filtrate)			<11.3	pCi/L			-		
TSS			36.1	mg/L			-		

Total Activity Discharged in Fourth Quarter of CY 2023 (Ci)		Total Activity Discharged through 12/31/23 (Ci)	
Th-228	4.7E-07	**Th-228**	5.0E-06
Th-230	8.8E-07	**Th-230**	6.8E-05
Uranium (KPA)	1.6E-06	**Uranium (KPA)**	3.1E-05
Ra-226	4.0E-07	**Ra-226**	5.3E-06
Ra-228[b]	4.7E-07	**Ra-228[b]**	5.0E-06

Total Volume Discharged in Fourth Quarter of CY 2023 (gallons)		Total Volume Discharged through 12/31/23 (gallons)	
Gallons	191,474	**Gallons**	1,976,461

[a] Non-detect sample results are converted to half the DL for total activity.

[b] The weighted average was used to calculate the total activity.

[c] Total U (KPA) is unavailable and sum of isotopic results are being substituted.

[d] 10 *CFR* 20 limit is 600 pCi/L for Ra-226.

[e] Ra-228 assumed to be in equilibrium with Th-228.

[f] 10 *CFR* 20 limit is 600 pCi/L for Ra-228.

[g] The limit for selenium can be a daily total mass of 76 g, with a concentration not to exceed 0.90 mg/L.

[h] MSD surcharges apply for BOD concentration greater than 300 mg/L and COD concentration greater than 600 mg/L.

[i] Analysis for metals is not required per the MSD letter dated May 24, 2012 (MSD 2012).

Notes:

- No data/No limit
BOD - biological oxygen demand
COD - chemical oxygen demand
NA - Not applicable
SOR - sum of ratios (unitless)
TSS - total suspended solid(s)

ATTACHMENT D-1

PN02 ANNUAL SAMPLING FREQUENCY SCHEDULE EMAIL, DATED APRIL 19, 2018

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From: Skoba, Gwenan
To: Daniel Carey (MDNR)
Cc: Dave Evans; Viehweg, William H. (USACE)
Subject: FW: Update regarding SLAPS Outfall 002
Date: Thursday, April 19, 2018 3:00:00 PM

Hello Dan,
Sorry for the late notice, USACE has restarted remediation at the Ballfields (SLAPS Outfall 002). We have resumed the sampling per the NPDES permit equivalent.
Please let Dave know if you have any questions.
Thank you!
Gwenan

Gwenan Skoba, MBA, CHMM
Principal Regulatory Specialist
HGL
110 James S. McDonnell Blvd
Hazelwood, MO 63042

-----Original Message-----
From: Skoba, Gwenan
Sent: Thursday, February 08, 2018 12:06 PM
To: Daniel Carey (MDNR)
Cc: Dave Evans; Viehweg, William H. (USACE)
Subject: RE: Update regarding SLAPS Outfall 002

Hi Dan,
For your records, USACE has temporarily stopped working at the Ballfields (SLAPS Outfall 002). Ballfields SU-12A & 12B were just confirmed.
We will notify MDNR when remediation resumes.
Thank you!
Gwenan

Gwenan Skoba, MBA, CHMM
Principal Regulatory Specialist
HGL
110 James S. McDonnell Blvd
Hazelwood, MO 63042

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APPENDIX E

COLDWATER CREEK SURFACE WATER AND SEDIMENT DATA

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Table E-1. CWC Surface Water Data for CY 2023

Sample Name	Station Name	Collection Date	Method	Analyte	Result	DL	Error	Units	VQ	Validation Reason Code
CWC266245	CWC002	04/04/23	Metals	Antimony	2		2	µg/L	U	
CWC266245	CWC002	04/04/23	Metals	Arsenic	2.8		1.6	µg/L	=	
CWC266245	CWC002	04/04/23	Metals	Barium	110		0.69	µg/L	=	
CWC266245	CWC002	04/04/23	Metals	Cadmium	0.2		0.2	µg/L	U	E01, E08
CWC266245	CWC002	04/04/23	Metals	Chromium	4		4	µg/L	U	
CWC266245	CWC002	04/04/23	Metals	Molybdenum	7		2	µg/L	=	
CWC266245	CWC002	04/04/23	Metals	Nickel	2		2	µg/L	U	
CWC266245	CWC002	04/04/23	Metals	Selenium	2		2	µg/L	U	
CWC266245	CWC002	04/04/23	Metals	Thallium	0.13		0.13	µg/L	U	
CWC266245	CWC002	04/04/23	Metals	Vanadium	4		4	µg/L	U	
CWC266245	CWC002	04/04/23	Alpha Spectroscopy	Th-228	0.861	0.53	0.478	pCi/L	J	T04, T20
CWC266245	CWC002	04/04/23	Alpha Spectroscopy	Th-230	1.85	0.778	0.398	pCi/L	J	F01
CWC266245	CWC002	04/04/23	Alpha Spectroscopy	Th-232	0	0.212	0.551	pCi/L	UJ	T06
CWC266245	CWC002	04/04/23	Alpha Spectroscopy	Ra-226	0.0478	0.515	1.41	pCi/L	UJ	T06
CWC266245	CWC002	04/04/23	Alpha Spectroscopy	U-234	0.8	0.51	0.535	pCi/L	J	T04, T20
CWC266245	CWC002	04/04/23	Alpha Spectroscopy	U-235	0.157	0.258	0.476	pCi/L	UJ	T06
CWC266245	CWC002	04/04/23	Alpha Spectroscopy	U-238	0.434	0.386	0.533	pCi/L	UJ	T04, T05
CWC266247	CWC003	04/04/23	Metals	Antimony	2		2	µg/L	U	
CWC266247	CWC003	04/04/23	Metals	Arsenic	2.8		1.6	µg/L	=	
CWC266247	CWC003	04/04/23	Metals	Barium	110		0.69	µg/L	=	
CWC266247	CWC003	04/04/23	Metals	Cadmium	0.2		0.2	µg/L	U	E01, E08
CWC266247	CWC003	04/04/23	Metals	Chromium	4		4	µg/L	U	
CWC266247	CWC003	04/04/23	Metals	Molybdenum	6.5		2	µg/L	=	
CWC266247	CWC003	04/04/23	Metals	Nickel	2		2	µg/L	U	
CWC266247	CWC003	04/04/23	Metals	Selenium	2		2	µg/L	U	
CWC266247	CWC003	04/04/23	Metals	Thallium	0.13		0.13	µg/L	U	
CWC266247	CWC003	04/04/23	Metals	Vanadium	4		4	µg/L	U	
CWC266247	CWC003	04/04/23	Alpha Spectroscopy	Th-228	0.672	0.478	0.549	pCi/L	J	T04, T20
CWC266247	CWC003	04/04/23	Alpha Spectroscopy	Th-230	1.85	0.776	0.397	pCi/L	J	F01
CWC266247	CWC003	04/04/23	Alpha Spectroscopy	Th-232	0.149	0.259	0.549	pCi/L	UJ	T06
CWC266247	CWC003	04/04/23	Alpha Spectroscopy	Ra-226	0.0375	0.248	0.725	pCi/L	UJ	T06
CWC266247	CWC003	04/04/23	Alpha Spectroscopy	U-234	0.929	0.567	0.57	pCi/L	J	T04, T20
CWC266247	CWC003	04/04/23	Alpha Spectroscopy	U-235	0.0955	0.27	0.703	pCi/L	UJ	T06

Table E-1. CWC Surface Water Data for CY 2023 (Continued)

Sample Name	Station Name	Collection Date	Method	Analyte	Result	DL	Error	Units	VQ	Validation Reason Code
CWC266247	CWC003	04/04/23	Alpha Spectroscopy	U-238	1	0.587	0.568	pCi/L	J	T04, T20
CWC266249	CWC004	04/04/23	Metals	Antimony	2		2	µg/L	U	
CWC266249	CWC004	04/04/23	Metals	Arsenic	2.2		1.6	µg/L	=	
CWC266249	CWC004	04/04/23	Metals	Barium	120		0.69	µg/L	=	
CWC266249	CWC004	04/04/23	Metals	Cadmium	0.2		0.2	µg/L	U	E01, E08
CWC266249	CWC004	04/04/23	Metals	Chromium	4		4	µg/L	U	
CWC266249	CWC004	04/04/23	Metals	Molybdenum	6.7		2	µg/L	=	
CWC266249	CWC004	04/04/23	Metals	Nickel	2		2	µg/L	=	
CWC266249	CWC004	04/04/23	Metals	Selenium	2		2	µg/L	U	
CWC266249	CWC004	04/04/23	Metals	Thallium	0.13		0.13	µg/L	U	
CWC266249	CWC004	04/04/23	Metals	Vanadium	4		4	µg/L	U	
CWC266249	CWC004	04/04/23	Alpha Spectroscopy	Th-228	0.62	0.515	0.609	pCi/L	J	T04, T20
CWC266249	CWC004	04/04/23	Alpha Spectroscopy	Th-230	1.72	0.858	0.703	pCi/L	J	F01
CWC266249	CWC004	04/04/23	Alpha Spectroscopy	Th-232	-0.0238	0.196	0.506	pCi/L	UJ	T06
CWC266249	CWC004	04/04/23	Alpha Spectroscopy	Ra-226	0.0884	0.586	1.71	pCi/L	UJ	T06
CWC266249	CWC004	04/04/23	Alpha Spectroscopy	U-234	0.958	0.539	0.504	pCi/L	J	T04, T20
CWC266249	CWC004	04/04/23	Alpha Spectroscopy	U-235	0.0422	0.179	0.539	pCi/L	UJ	T06
CWC266249	CWC004	04/04/23	Alpha Spectroscopy	U-238	0.749	0.478	0.501	pCi/L	J	T04, T20
CWC266251	CWC005	04/04/23	Metals	Antimony	2		2	µg/L	U	
CWC266251	CWC005	04/04/23	Metals	Arsenic	2.3		1.6	µg/L	=	
CWC266251	CWC005	04/04/23	Metals	Barium	120		0.69	µg/L	=	
CWC266251	CWC005	04/04/23	Metals	Cadmium	0.2		0.2	µg/L	U	E01, E08
CWC266251	CWC005	04/04/23	Metals	Chromium	4		4	µg/L	U	
CWC266251	CWC005	04/04/23	Metals	Molybdenum	6.9		2	µg/L	=	
CWC266251	CWC005	04/04/23	Metals	Nickel	2		2	µg/L	U	
CWC266251	CWC005	04/04/23	Metals	Selenium	2.4		2	µg/L	=	
CWC266251	CWC005	04/04/23	Metals	Thallium	0.13		0.13	µg/L	U	
CWC266251	CWC005	04/04/23	Metals	Vanadium	4		4	µg/L	U	
CWC266251	CWC005	04/04/23	Alpha Spectroscopy	Th-228	0.328	0.354	0.464	pCi/L	UJ	T06
CWC266251	CWC005	04/04/23	Alpha Spectroscopy	Th-230	0.875	0.59	0.644	pCi/L	J	F01, T04, T20
CWC266251	CWC005	04/04/23	Alpha Spectroscopy	Th-232	0.175	0.303	0.643	pCi/L	UJ	T06
CWC266251	CWC005	04/04/23	Alpha Spectroscopy	Ra-226	-0.097	0.238	0.815	pCi/L	UJ	T06
CWC266251	CWC005	04/04/23	Alpha Spectroscopy	U-234	0.698	0.445	0.467	pCi/L	J	T04, T20
CWC266251	CWC005	04/04/23	Alpha Spectroscopy	U-235	-0.0196	0.161	0.416	pCi/L	UJ	T06

Table E-1. CWC Surface Water Data for CY 2023 (Continued)

Sample Name	Station Name	Collection Date	Method	Analyte	Result	DL	Error	Units	VQ	Validation Reason Code
CWC266251	CWC005	04/04/23	Alpha Spectroscopy	U-238	0.616	0.405	0.335	pCi/L	J	T04, T20
CWC266253	CWC006	04/03/23	Metals	Antimony	2		2	µg/L	U	
CWC266253	CWC006	04/03/23	Metals	Arsenic	1.9		1.6	µg/L	=	
CWC266253	CWC006	04/03/23	Metals	Barium	110		0.69	µg/L	=	
CWC266253	CWC006	04/03/23	Metals	Cadmium	0.2		0.2	µg/L	U	E01, E08
CWC266253	CWC006	04/03/23	Metals	Chromium	4		4	µg/L	U	
CWC266253	CWC006	04/03/23	Metals	Molybdenum	6.5		2	µg/L	=	
CWC266253	CWC006	04/03/23	Metals	Nickel	2.4		2	µg/L	=	
CWC266253	CWC006	04/03/23	Metals	Selenium	2		2	µg/L	U	
CWC266253	CWC006	04/03/23	Metals	Thallium	0.13		0.13	µg/L	U	
CWC266253	CWC006	04/03/23	Metals	Vanadium	4		4	µg/L	U	
CWC266253	CWC006	04/03/23	Alpha Spectroscopy	Th-228	0.617	0.468	0.567	pCi/L	J	T04, T20
CWC266253	CWC006	04/03/23	Alpha Spectroscopy	Th-230	0.772	0.519	0.568	pCi/L	J	F01, T04, T20
CWC266253	CWC006	04/03/23	Alpha Spectroscopy	Th-232	0.308	0.346	0.567	pCi/L	UJ	T06
CWC266253	CWC006	04/03/23	Alpha Spectroscopy	Ra-226	0.163	0.327	0.734	pCi/L	UJ	T06
CWC266253	CWC006	04/03/23	Alpha Spectroscopy	U-234	1.28	0.635	0.525	pCi/L	=	
CWC266253	CWC006	04/03/23	Alpha Spectroscopy	U-235	-0.022	0.181	0.467	pCi/L	UJ	T06
CWC266253	CWC006	04/03/23	Alpha Spectroscopy	U-238	0.852	0.524	0.561	pCi/L	J	T04, T20
CWC266255	CWC007	04/03/23	Metals	Antimony	2		2	µg/L	U	
CWC266255	CWC007	04/03/23	Metals	Arsenic	2.1		1.6	µg/L	=	
CWC266255	CWC007	04/03/23	Metals	Barium	120		0.69	µg/L	=	
CWC266255	CWC007	04/03/23	Metals	Cadmium	0.2		0.2	µg/L	U	E01, E08
CWC266255	CWC007	04/03/23	Metals	Chromium	4		4	µg/L	U	
CWC266255	CWC007	04/03/23	Metals	Molybdenum	7.2		2	µg/L	=	
CWC266255	CWC007	04/03/23	Metals	Nickel	2		2	µg/L	U	
CWC266255	CWC007	04/03/23	Metals	Selenium	2.9		2	µg/L	=	
CWC266255	CWC007	04/03/23	Metals	Thallium	0.13		0.13	µg/L	U	
CWC266255	CWC007	04/03/23	Metals	Vanadium	4		4	µg/L	U	
CWC266255	CWC007	04/03/23	Alpha Spectroscopy	Th-228	0.247	0.331	0.607	pCi/L	UJ	T06
CWC266255	CWC007	04/03/23	Alpha Spectroscopy	Th-230	1.32	0.697	0.607	pCi/L	J	F01, T04, T20
CWC266255	CWC007	04/03/23	Alpha Spectroscopy	Th-232	0.144	0.237	0.437	pCi/L	UJ	T06
CWC266255	CWC007	04/03/23	Alpha Spectroscopy	Ra-226	0.252	0.563	1.36	pCi/L	UJ	T06
CWC266255	CWC007	04/03/23	Alpha Spectroscopy	U-234	1	0.642	0.671	pCi/L	J	T04, T20
CWC266255	CWC007	04/03/23	Alpha Spectroscopy	U-235	0.309	0.395	0.597	pCi/L	UJ	T06

Table E-1. CWC Surface Water Data for CY 2023 (Continued)

Sample Name	Station Name	Collection Date	Method	Analyte	Result	DL	Error	Units	VQ	Validation Reason Code
CWC266255	CWC007	04/03/23	Alpha Spectroscopy	U-238	0.885	0.585	0.482	pCi/L	J	T04, T20
CWC266257	CWC008	04/03/23	Metals	Antimony	2		2	µg/L	U	
CWC266257	CWC008	04/03/23	Metals	Arsenic	1.7		1.6	µg/L	=	
CWC266257	CWC008	04/03/23	Metals	Barium	110		0.69	µg/L	=	
CWC266257	CWC008	04/03/23	Metals	Cadmium	0.2		0.2	µg/L	U	E01, E08
CWC266257	CWC008	04/03/23	Metals	Chromium	4		4	µg/L	U	
CWC266257	CWC008	04/03/23	Metals	Molybdenum	6.4		2	µg/L	=	
CWC266257	CWC008	04/03/23	Metals	Nickel	2		2	µg/L	U	
CWC266257	CWC008	04/03/23	Metals	Selenium	2		2	µg/L	U	
CWC266257	CWC008	04/03/23	Metals	Thallium	0.13		0.13	µg/L	U	
CWC266257	CWC008	04/03/23	Metals	Vanadium	4		4	µg/L	U	
CWC266257	CWC008	04/03/23	Alpha Spectroscopy	Th-228	0.634	0.518	0.667	pCi/L	UJ	T04, T05
CWC266257	CWC008	04/03/23	Alpha Spectroscopy	Th-230	0.522	0.451	0.482	pCi/L	J	F01, T04, T20
CWC266257	CWC008	04/03/23	Alpha Spectroscopy	Th-232	0	0.256	0.666	pCi/L	UJ	T06
CWC266257	CWC008	04/03/23	Alpha Spectroscopy	Ra-226	0.385	0.453	0.741	pCi/L	UJ	T06
CWC266257	CWC008	04/03/23	Alpha Spectroscopy	U-234	0.644	0.448	0.391	pCi/L	J	T04, T20
CWC266257	CWC008	04/03/23	Alpha Spectroscopy	U-235	-0.114	0.208	0.774	pCi/L	UJ	T06
CWC266257	CWC008	04/03/23	Alpha Spectroscopy	U-238	0.77	0.495	0.468	pCi/L	J	T04, T20
CWC266259	CWC009	04/03/23	Metals	Antimony	2		2	µg/L	U	
CWC266259	CWC009	04/03/23	Metals	Arsenic	1.8		1.6	µg/L	=	
CWC266259	CWC009	04/03/23	Metals	Barium	95		0.69	µg/L	=	
CWC266259	CWC009	04/03/23	Metals	Cadmium	0.2		0.2	µg/L	U	E01, E08
CWC266259	CWC009	04/03/23	Metals	Chromium	4		4	µg/L	U	
CWC266259	CWC009	04/03/23	Metals	Molybdenum	5.7		2	µg/L	=	
CWC266259	CWC009	04/03/23	Metals	Nickel	2		2	µg/L	U	
CWC266259	CWC009	04/03/23	Metals	Selenium	2		2	µg/L	U	
CWC266259	CWC009	04/03/23	Metals	Thallium	0.13		0.13	µg/L	U	
CWC266259	CWC009	04/03/23	Metals	Vanadium	4		4	µg/L	U	
CWC266259	CWC009	04/03/23	Alpha Spectroscopy	Th-228	0.404	0.409	0.573	pCi/L	UJ	T06
CWC266259	CWC009	04/03/23	Alpha Spectroscopy	Th-230	1.35	0.736	0.661	pCi/L	J	F01, T04, T20
CWC266259	CWC009	04/03/23	Alpha Spectroscopy	Th-232	0.247	0.315	0.476	pCi/L	UJ	T06
CWC266259	CWC009	04/03/23	Alpha Spectroscopy	Ra-226	0.0457	0.205	0.616	pCi/L	UJ	T06
CWC266259	CWC009	04/03/23	Alpha Spectroscopy	U-234	0.77	0.469	0.472	pCi/L	J	T04, T20
CWC266259	CWC009	04/03/23	Alpha Spectroscopy	U-235	0	0.224	0.582	pCi/L	UJ	T06

Table E-1. CWC Surface Water Data for CY 2023 (Continued)

Sample Name	Station Name	Collection Date	Method	Analyte	Result	DL	Error	Units	VQ	Validation Reason Code
CWC266259	CWC009	04/03/23	Alpha Spectroscopy	U-238	0.319	0.315	0.47	pCi/L	UJ	T04, T05
CWC266261	CWC010	04/03/23	Metals	Antimony	2		2	µg/L	U	
CWC266261	CWC010	04/03/23	Metals	Arsenic	1.6		1.6	µg/L	U	
CWC266261	CWC010	04/03/23	Metals	Barium	81		0.69	µg/L	=	
CWC266261	CWC010	04/03/23	Metals	Cadmium	0.2		0.2	µg/L	U	E01, E08
CWC266261	CWC010	04/03/23	Metals	Chromium	4		4	µg/L	U	
CWC266261	CWC010	04/03/23	Metals	Molybdenum	2.9		2	µg/L	=	
CWC266261	CWC010	04/03/23	Metals	Nickel	2		2	µg/L	U	
CWC266261	CWC010	04/03/23	Metals	Selenium	2		2	µg/L	U	
CWC266261	CWC010	04/03/23	Metals	Thallium	0.13		0.13	µg/L	U	
CWC266261	CWC010	04/03/23	Metals	Vanadium	4		4	µg/L	U	
CWC266261	CWC010	04/03/23	Alpha Spectroscopy	Th-228	0.113	0.221	0.483	pCi/L	UJ	T06
CWC266261	CWC010	04/03/23	Alpha Spectroscopy	Th-230	0.832	0.533	0.557	pCi/L	J	F01, T04, T20
CWC266261	CWC010	04/03/23	Alpha Spectroscopy	Th-232	0.0567	0.156	0.401	pCi/L	UJ	T06
CWC266261	CWC010	04/03/23	Alpha Spectroscopy	Ra-226	0.0489	0.219	0.659	pCi/L	UJ	T06
CWC266261	CWC010	04/03/23	Alpha Spectroscopy	U-234	0.538	0.398	0.369	pCi/L	J	T04, T20
CWC266261	CWC010	04/03/23	Alpha Spectroscopy	U-235	-0.0428	0.182	0.547	pCi/L	UJ	T06
CWC266261	CWC010	04/03/23	Alpha Spectroscopy	U-238	0.328	0.313	0.367	pCi/L	UJ	T04, T05
CWC266263	CWC011	04/03/23	Metals	Antimony	2		2	µg/L	U	
CWC266263	CWC011	04/03/23	Metals	Arsenic	1.6		1.6	µg/L	U	
CWC266263	CWC011	04/03/23	Metals	Barium	74		0.69	µg/L	=	
CWC266263	CWC011	04/03/23	Metals	Cadmium	0.2		0.2	µg/L	U	E01, E08
CWC266263	CWC011	04/03/23	Metals	Chromium	4		4	µg/L	U	
CWC266263	CWC011	04/03/23	Metals	Molybdenum	2.9		2	µg/L	=	
CWC266263	CWC011	04/03/23	Metals	Nickel	2		2	µg/L	U	
CWC266263	CWC011	04/03/23	Metals	Selenium	2		2	µg/L	U	
CWC266263	CWC011	04/03/23	Metals	Thallium	0.13		0.13	µg/L	U	
CWC266263	CWC011	04/03/23	Metals	Vanadium	4		4	µg/L	U	
CWC266263	CWC011	04/03/23	Alpha Spectroscopy	Th-228	0.136	0.224	0.412	pCi/L	UJ	T06
CWC266263	CWC011	04/03/23	Alpha Spectroscopy	Th-230	0.622	0.472	0.572	pCi/L	J	F01, T04, T20
CWC266263	CWC011	04/03/23	Alpha Spectroscopy	Th-232	0.0776	0.22	0.571	pCi/L	UJ	T06
CWC266263	CWC011	04/03/23	Alpha Spectroscopy	Ra-226	-0.0462	0.245	0.896	pCi/L	UJ	T06
CWC266263	CWC011	04/03/23	Alpha Spectroscopy	U-234	0.483	0.4	0.475	pCi/L	J	T04, T20
CWC266263	CWC011	04/03/23	Alpha Spectroscopy	U-235	0	0.259	0.675	pCi/L	UJ	T06

Table E-1. CWC Surface Water Data for CY 2023 (Continued)

Sample Name	Station Name	Collection Date	Method	Analyte	Result	DL	Error	Units	VQ	Validation Reason Code
CWC266263	CWC011	04/03/23	Alpha Spectroscopy	U-238	0.37	0.364	0.545	pCi/L	UJ	T04, T05
CWC269687	CWC002	10/09/23	Metals	Antimony	0.38		0.29	µg/L	=	
CWC269687	CWC002	10/09/23	Metals	Arsenic	3.2		1.6	µg/L	=	
CWC269687	CWC002	10/09/23	Metals	Barium	88		0.69	µg/L	=	
CWC269687	CWC002	10/09/23	Metals	Cadmium	0.06		0.06	µg/L	U	E01
CWC269687	CWC002	10/09/23	Metals	Chromium	1.3		1.3	µg/L	=	
CWC269687	CWC002	10/09/23	Metals	Molybdenum	10		2	µg/L	=	
CWC269687	CWC002	10/09/23	Metals	Nickel	2		0.89	µg/L	J	F01
CWC269687	CWC002	10/09/23	Metals	Selenium	1.2		0.67	µg/L	=	
CWC269687	CWC002	10/09/23	Metals	Thallium	0.38		0.38	µg/L	U	
CWC269687	CWC002	10/09/23	Metals	Vanadium	4		4	µg/L	U	
CWC269687	CWC002	10/09/23	Alpha Spectroscopy	Th-228	0.469	0.382	0.493	pCi/L	UJ	T04, T05
CWC269687	CWC002	10/09/23	Alpha Spectroscopy	Th-230	0.872	0.51	0.494	pCi/L	J	F01, T04, T20
CWC269687	CWC002	10/09/23	Alpha Spectroscopy	Th-232	0.067	0.19	0.493	pCi/L	UJ	T06
CWC269687	CWC002	10/09/23	Alpha Spectroscopy	Ra-226	0.0333	0.319	0.89	pCi/L	UJ	T06
CWC269687	CWC002	10/09/23	Alpha Spectroscopy	U-234	0.158	0.259	0.478	pCi/L	UJ	T06
CWC269687	CWC002	10/09/23	Alpha Spectroscopy	U-235	0.0833	0.229	0.59	pCi/L	UJ	T06
CWC269687	CWC002	10/09/23	Alpha Spectroscopy	U-238	0.336	0.363	0.476	pCi/L	UJ	T06
CWC269689	CWC003	10/09/23	Metals	Antimony	0.42		0.29	µg/L	=	
CWC269689	CWC003	10/09/23	Metals	Arsenic	3.2		1.6	µg/L	=	
CWC269689	CWC003	10/09/23	Metals	Barium	92		0.69	µg/L	=	
CWC269689	CWC003	10/09/23	Metals	Cadmium	0.06		0.06	µg/L	U	E01
CWC269689	CWC003	10/09/23	Metals	Chromium	1.5		1.3	µg/L	=	
CWC269689	CWC003	10/09/23	Metals	Molybdenum	10		2	µg/L	=	
CWC269689	CWC003	10/09/23	Metals	Nickel	2		0.89	µg/L	J	F01
CWC269689	CWC003	10/09/23	Metals	Selenium	1.3		0.67	µg/L	=	
CWC269689	CWC003	10/09/23	Metals	Thallium	0.38		0.38	µg/L	U	
CWC269689	CWC003	10/09/23	Metals	Vanadium	4		4	µg/L	U	
CWC269689	CWC003	10/09/23	Alpha Spectroscopy	Th-228	0.11	0.271	0.668	pCi/L	UJ	T06
CWC269689	CWC003	10/09/23	Alpha Spectroscopy	Th-230	0.516	0.421	0.542	pCi/L	UJ	T04, T05
CWC269689	CWC003	10/09/23	Alpha Spectroscopy	Th-232	-0.0552	0.16	0.53	pCi/L	UJ	T06
CWC269689	CWC003	10/09/23	Alpha Spectroscopy	Ra-226	0.158	0.228	0.426	pCi/L	UJ	T06
CWC269689	CWC003	10/09/23	Alpha Spectroscopy	U-234	1.14	0.666	0.643	pCi/L	J	T04, T20
CWC269689	CWC003	10/09/23	Alpha Spectroscopy	U-235	0	0.305	0.793	pCi/L	UJ	T06

Table E-1. CWC Surface Water Data for CY 2023 (Continued)

Sample Name	Station Name	Collection Date	Method	Analyte	Result	DL	Error	Units	VQ	Validation Reason Code
CWC269689	CWC003	10/09/23	Alpha Spectroscopy	U-238	0.326	0.353	0.462	pCi/L	UJ	T06
CWC269691	CWC004	10/09/23	Metals	Antimony	0.42		0.29	µg/L	=	
CWC269691	CWC004	10/09/23	Metals	Arsenic	3.1		1.6	µg/L	=	
CWC269691	CWC004	10/09/23	Metals	Barium	100		0.69	µg/L	=	
CWC269691	CWC004	10/09/23	Metals	Cadmium	0.06		0.06	µg/L	U	E01
CWC269691	CWC004	10/09/23	Metals	Chromium	1.4		1.3	µg/L	=	
CWC269691	CWC004	10/09/23	Metals	Molybdenum	11		2	µg/L	=	
CWC269691	CWC004	10/09/23	Metals	Nickel	2.1		0.89	µg/L	J	F01
CWC269691	CWC004	10/09/23	Metals	Selenium	1.6		0.67	µg/L	=	
CWC269691	CWC004	10/09/23	Metals	Thallium	0.38		0.38	µg/L	U	
CWC269691	CWC004	10/09/23	Metals	Vanadium	4		4	µg/L	U	
CWC269691	CWC004	10/09/23	Alpha Spectroscopy	Th-228	0.185	0.317	0.706	pCi/L	UJ	T06
CWC269691	CWC004	10/09/23	Alpha Spectroscopy	Th-230	0.571	0.411	0.429	pCi/L	J	F01, T04, T20
CWC269691	CWC004	10/09/23	Alpha Spectroscopy	Th-232	0.268	0.301	0.494	pCi/L	UJ	T06
CWC269691	CWC004	10/09/23	Alpha Spectroscopy	Ra-226	0.385	0.352	0.539	pCi/L	UJ	T04, T05
CWC269691	CWC004	10/09/23	Alpha Spectroscopy	U-234	0.721	0.519	0.542	pCi/L	J	T04, T20
CWC269691	CWC004	10/09/23	Alpha Spectroscopy	U-235	0	0.296	0.77	pCi/L	UJ	T06
CWC269691	CWC004	10/09/23	Alpha Spectroscopy	U-238	0.507	0.45	0.622	pCi/L	UJ	T04, T05
CWC269693	CWC005	10/09/23	Metals	Antimony	0.41		0.29	µg/L	=	
CWC269693	CWC005	10/09/23	Metals	Arsenic	2.8		1.6	µg/L	=	
CWC269693	CWC005	10/09/23	Metals	Barium	100		0.69	µg/L	=	
CWC269693	CWC005	10/09/23	Metals	Cadmium	0.06		0.06	µg/L	U	E01
CWC269693	CWC005	10/09/23	Metals	Chromium	1.4		1.3	µg/L	=	
CWC269693	CWC005	10/09/23	Metals	Molybdenum	11		2	µg/L	=	
CWC269693	CWC005	10/09/23	Metals	Nickel	3		0.89	µg/L	J	F01
CWC269693	CWC005	10/09/23	Metals	Selenium	1.7		0.67	µg/L	=	
CWC269693	CWC005	10/09/23	Metals	Thallium	0.38		0.38	µg/L	U	
CWC269693	CWC005	10/09/23	Metals	Vanadium	4		4	µg/L	U	
CWC269693	CWC005	10/09/23	Alpha Spectroscopy	Th-228	0.846	0.592	0.74	pCi/L	J	T04, T20
CWC269693	CWC005	10/09/23	Alpha Spectroscopy	Th-230	0.608	0.497	0.639	pCi/L	UJ	T04, T05
CWC269693	CWC005	10/09/23	Alpha Spectroscopy	Th-232	0.173	0.301	0.638	pCi/L	UJ	T06
CWC269693	CWC005	10/09/23	Alpha Spectroscopy	Ra-226	-0.142	0.224	0.891	pCi/L	UJ	T06
CWC269693	CWC005	10/09/23	Alpha Spectroscopy	U-234	0.57	0.472	0.56	pCi/L	J	T04, T20
CWC269693	CWC005	10/09/23	Alpha Spectroscopy	U-235	0	0.306	0.796	pCi/L	UJ	T06

Table E-1. CWC Surface Water Data for CY 2023 (Continued)

Sample Name	Station Name	Collection Date	Method	Analyte	Result	DL	Error	Units	VQ	Validation Reason Code
CWC269693	CWC005	10/09/23	Alpha Spectroscopy	U-238	0.415	0.395	0.463	pCi/L	UJ	T04, T05
CWC269695	CWC006	10/09/23	Metals	Antimony	0.66		0.29	µg/L	=	
CWC269695	CWC006	10/09/23	Metals	Arsenic	2.5		1.6	µg/L	=	
CWC269695	CWC006	10/09/23	Metals	Barium	98		0.69	µg/L	=	
CWC269695	CWC006	10/09/23	Metals	Cadmium	0.06		0.06	µg/L	U	E01
CWC269695	CWC006	10/09/23	Metals	Chromium	1.4		1.3	µg/L	=	
CWC269695	CWC006	10/09/23	Metals	Molybdenum	11		2	µg/L	=	
CWC269695	CWC006	10/09/23	Metals	Nickel	2.3		0.89	µg/L	J	F01
CWC269695	CWC006	10/09/23	Metals	Selenium	1.8		0.67	µg/L	=	
CWC269695	CWC006	10/09/23	Metals	Thallium	0.38		0.38	µg/L	U	
CWC269695	CWC006	10/09/23	Metals	Vanadium	4		4	µg/L	U	
CWC269695	CWC006	10/09/23	Alpha Spectroscopy	Th-228	0.121	0.296	0.731	pCi/L	UJ	T06
CWC269695	CWC006	10/09/23	Alpha Spectroscopy	Th-230	0.968	0.592	0.594	pCi/L	J	F01, T04, T20
CWC269695	CWC006	10/09/23	Alpha Spectroscopy	Th-232	0	0.228	0.593	pCi/L	UJ	T06
CWC269695	CWC006	10/09/23	Alpha Spectroscopy	Ra-226	-0.0597	0.224	0.751	pCi/L	UJ	T06
CWC269695	CWC006	10/09/23	Alpha Spectroscopy	U-234	0.225	0.287	0.434	pCi/L	UJ	T06
CWC269695	CWC006	10/09/23	Alpha Spectroscopy	U-235	0	0.285	0.741	pCi/L	UJ	T06
CWC269695	CWC006	10/09/23	Alpha Spectroscopy	U-238	0.325	0.365	0.598	pCi/L	UJ	T06
CWC269697	CWC007	10/04/23	Metals	Antimony	0.51		0.29	µg/L	=	
CWC269697	CWC007	10/04/23	Metals	Arsenic	3		1.6	µg/L	=	
CWC269697	CWC007	10/04/23	Metals	Barium	110		0.69	µg/L	=	
CWC269697	CWC007	10/04/23	Metals	Cadmium	0.06		0.06	µg/L	U	E01
CWC269697	CWC007	10/04/23	Metals	Chromium	1.6		1.3	µg/L	=	
CWC269697	CWC007	10/04/23	Metals	Molybdenum	13		2	µg/L	=	
CWC269697	CWC007	10/04/23	Metals	Nickel	2.9		0.89	µg/L	J	F01
CWC269697	CWC007	10/04/23	Metals	Selenium	1.3		0.67	µg/L	=	
CWC269697	CWC007	10/04/23	Metals	Thallium	0.38		0.38	µg/L	U	
CWC269697	CWC007	10/04/23	Metals	Vanadium	4		4	µg/L	U	
CWC269697	CWC007	10/04/23	Alpha Spectroscopy	Th-228	0.413	0.394	0.461	pCi/L	UJ	T04, T05
CWC269697	CWC007	10/04/23	Alpha Spectroscopy	Th-230	0.783	0.558	0.64	pCi/L	J	F01, T04, T20
CWC269697	CWC007	10/04/23	Alpha Spectroscopy	Th-232	0.239	0.305	0.461	pCi/L	UJ	T06
CWC269697	CWC007	10/04/23	Alpha Spectroscopy	Ra-226	-0.0726	0.272	0.913	pCi/L	UJ	T06
CWC269697	CWC007	10/04/23	Alpha Spectroscopy	U-234	0.575	0.477	0.565	pCi/L	J	T04, T20
CWC269697	CWC007	10/04/23	Alpha Spectroscopy	U-235	0.0819	0.225	0.579	pCi/L	UJ	T06

Table E-1. CWC Surface Water Data for CY 2023 (Continued)

Sample Name	Station Name	Collection Date	Method	Analyte	Result	DL	Error	Units	VQ	Validation Reason Code
CWC269697	CWC007	10/04/23	Alpha Spectroscopy	U-238	0.969	0.62	0.648	pCi/L	J	T04, T20
CWC269699	CWC008	10/04/23	Metals	Antimony	0.49		0.29	µg/L	=	
CWC269699	CWC008	10/04/23	Metals	Arsenic	2.9		1.6	µg/L	=	
CWC269699	CWC008	10/04/23	Metals	Barium	110		0.69	µg/L	=	
CWC269699	CWC008	10/04/23	Metals	Cadmium	0.06		0.06	µg/L	U	E01
CWC269699	CWC008	10/04/23	Metals	Chromium	1.3		1.3	µg/L	U	
CWC269699	CWC008	10/04/23	Metals	Molybdenum	9.1		2	µg/L	=	
CWC269699	CWC008	10/04/23	Metals	Nickel	2.3		0.89	µg/L	J	F01
CWC269699	CWC008	10/04/23	Metals	Selenium	1.3		0.67	µg/L	=	
CWC269699	CWC008	10/04/23	Metals	Thallium	0.38		0.38	µg/L	U	
CWC269699	CWC008	10/04/23	Metals	Vanadium	4		4	µg/L	U	
CWC269699	CWC008	10/04/23	Alpha Spectroscopy	Th-228	0.308	0.346	0.567	pCi/L	UJ	T06
CWC269699	CWC008	10/04/23	Alpha Spectroscopy	Th-230	1	0.588	0.568	pCi/L	J	F01, T04, T20
CWC269699	CWC008	10/04/23	Alpha Spectroscopy	Th-232	0	0.218	0.567	pCi/L	UJ	T06
CWC269699	CWC008	10/04/23	Alpha Spectroscopy	Ra-226	0.278	0.326	0.585	pCi/L	UJ	T06
CWC269699	CWC008	10/04/23	Alpha Spectroscopy	U-234	0.478	0.472	0.704	pCi/L	UJ	T04, T05
CWC269699	CWC008	10/04/23	Alpha Spectroscopy	U-235	0.118	0.334	0.868	pCi/L	UJ	T06
CWC269699	CWC008	10/04/23	Alpha Spectroscopy	U-238	0.667	0.544	0.701	pCi/L	UJ	T04, T05
CWC269701	CWC009	10/04/23	Metals	Antimony	0.57		0.29	µg/L	=	
CWC269701	CWC009	10/04/23	Metals	Arsenic	2.9		1.6	µg/L	=	
CWC269701	CWC009	10/04/23	Metals	Barium	110		0.69	µg/L	=	
CWC269701	CWC009	10/04/23	Metals	Cadmium	0.06		0.06	µg/L	U	E01
CWC269701	CWC009	10/04/23	Metals	Chromium	1.3		1.3	µg/L	U	
CWC269701	CWC009	10/04/23	Metals	Molybdenum	11		2	µg/L	=	
CWC269701	CWC009	10/04/23	Metals	Nickel	2.3		0.89	µg/L	J	F01
CWC269701	CWC009	10/04/23	Metals	Selenium	1.2		0.67	µg/L	=	
CWC269701	CWC009	10/04/23	Metals	Thallium	0.38		0.38	µg/L	U	
CWC269701	CWC009	10/04/23	Metals	Vanadium	4		4	µg/L	U	
CWC269701	CWC009	10/04/23	Alpha Spectroscopy	Th-228	0.353	0.446	0.782	pCi/L	UJ	T06
CWC269701	CWC009	10/04/23	Alpha Spectroscopy	Th-230	0.543	0.537	0.799	pCi/L	UJ	T04, T05
CWC269701	CWC009	10/04/23	Alpha Spectroscopy	Th-232	0.0542	0.23	0.692	pCi/L	UJ	T06
CWC269701	CWC009	10/04/23	Alpha Spectroscopy	Ra-226	0.237	0.325	0.656	pCi/L	UJ	T06
CWC269701	CWC009	10/04/23	Alpha Spectroscopy	U-234	0.392	0.387	0.577	pCi/L	UJ	T04, T05
CWC269701	CWC009	10/04/23	Alpha Spectroscopy	U-235	-0.0242	0.2	0.514	pCi/L	UJ	T06

Table E-1. CWC Surface Water Data for CY 2023 (Continued)

Sample Name	Station Name	Collection Date	Method	Analyte	Result	DL	Error	Units	VQ	Validation Reason Code
CWC269701	CWC009	10/04/23	Alpha Spectroscopy	U-238	0.371	0.354	0.415	pCi/L	UJ	T04, T05
CWC269703	CWC010	10/04/23	Metals	Antimony	0.57		0.29	µg/L	=	
CWC269703	CWC010	10/04/23	Metals	Arsenic	2.7		1.6	µg/L	=	
CWC269703	CWC010	10/04/23	Metals	Barium	85		0.69	µg/L	=	
CWC269703	CWC010	10/04/23	Metals	Cadmium	0.11		0.06	µg/L	J	E01
CWC269703	CWC010	10/04/23	Metals	Chromium	1.3		1.3	µg/L	U	
CWC269703	CWC010	10/04/23	Metals	Molybdenum	9.8		2	µg/L	=	
CWC269703	CWC010	10/04/23	Metals	Nickel	2.3		0.89	µg/L	J	F01
CWC269703	CWC010	10/04/23	Metals	Selenium	1.5		0.67	µg/L	=	
CWC269703	CWC010	10/04/23	Metals	Thallium	0.38		0.38	µg/L	U	
CWC269703	CWC010	10/04/23	Metals	Vanadium	4		4	µg/L	U	
CWC269703	CWC010	10/04/23	Alpha Spectroscopy	Th-228	1.01	0.655	0.616	pCi/L	J	T04, T20
CWC269703	CWC010	10/04/23	Alpha Spectroscopy	Th-230	1.13	0.684	0.512	pCi/L	J	F01, T04, T20
CWC269703	CWC010	10/04/23	Alpha Spectroscopy	Th-232	0.0723	0.199	0.512	pCi/L	UJ	T06
CWC269703	CWC010	10/04/23	Alpha Spectroscopy	Ra-226	-0.148	0.178	0.694	pCi/L	UJ	T06
CWC269703	CWC010	10/04/23	Alpha Spectroscopy	U-234	0.697	0.569	0.733	pCi/L	UJ	T04, T05
CWC269703	CWC010	10/04/23	Alpha Spectroscopy	U-235	0	0.347	0.904	pCi/L	UJ	T06
CWC269703	CWC010	10/04/23	Alpha Spectroscopy	U-238	0.174	0.286	0.526	pCi/L	UJ	T06
CWC269705	CWC011	10/04/23	Metals	Antimony	0.58		0.29	µg/L	=	
CWC269705	CWC011	10/04/23	Metals	Arsenic	2.7		1.6	µg/L	=	
CWC269705	CWC011	10/04/23	Metals	Barium	73		0.69	µg/L	=	
CWC269705	CWC011	10/04/23	Metals	Cadmium	0.06		0.06	µg/L	U	E01
CWC269705	CWC011	10/04/23	Metals	Chromium	1.3		1.3	µg/L	U	
CWC269705	CWC011	10/04/23	Metals	Molybdenum	7.7		2	µg/L	=	
CWC269705	CWC011	10/04/23	Metals	Nickel	2.2		0.89	µg/L	J	F01
CWC269705	CWC011	10/04/23	Metals	Selenium	1.4		0.67	µg/L	=	
CWC269705	CWC011	10/04/23	Metals	Thallium	0.38		0.38	µg/L	U	
CWC269705	CWC011	10/04/23	Metals	Vanadium	4		4	µg/L	U	
CWC269705	CWC011	10/04/23	Alpha Spectroscopy	Th-228	0.382	0.429	0.702	pCi/L	UJ	T06
CWC269705	CWC011	10/04/23	Alpha Spectroscopy	Th-230	0.454	0.433	0.507	pCi/L	UJ	T04, T05
CWC269705	CWC011	10/04/23	Alpha Spectroscopy	Th-232	0.0953	0.27	0.702	pCi/L	UJ	T06
CWC269705	CWC011	10/04/23	Alpha Spectroscopy	Ra-226	0.362	0.33	0.444	pCi/L	UJ	T04, T05
CWC269705	CWC011	10/04/23	Alpha Spectroscopy	U-234	0.913	0.614	0.672	pCi/L	J	T04, T20

Table E-1. CWC Surface Water Data for CY 2023 (Continued)

Sample Name	Station Name	Collection Date	Method	Analyte	Result	DL	Error	Units	VQ	Validation Reason Code
CWC269705	CWC011	10/04/23	Alpha Spectroscopy	U-235	0.113	0.319	0.829	pCi/L	UJ	T06
CWC269705	CWC011	10/04/23	Alpha Spectroscopy	U-238	0.159	0.262	0.483	pCi/L	UJ	T06

VQs:

= - Indicates that the data met all QA/QC requirements, and that the parameter has been positively identified and the associated concentration value is accurate.

J - Indicates that the parameter was positively identified; the associated numerical value is the approximate concentration of the parameter in the sample.

U - Indicates that the data met all QA/QC requirements, and that the parameter was analyzed for but was not detected above the reported sample quantitation limit.

UJ - Indicates that the parameter was not detected above the reported sample quantitation limit and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample. However, the reported quantitation limit is approximate.

Validation Reason Codes:

E01 - Interference check sample recovery was outside the control limit.

E08 - Professional judgment was used to qualify the data.

F01 - Blanks: Sample data were qualified as a result of the method blank.

T04 - Radionuclide Quantitation: Professional judgment was used to qualify the data.

T05 - Radionuclide Quantitation: Analytical result is less than the associated MDA, but greater than the counting uncertainty.

T06 - Radionuclide Quantitation: Analytical result is less than both the associated counting uncertainty and MDA.

T20 - Radionuclide Quantitation: Analytical result is greater than the associated MDA, with uncertainty 50 percent to 100 percent of the result.

Table E-2. CWC Sediment Data for CY 2023

Sample Name	Station Name	Collection Date	Method	Analyte	Result	DL	Error	Units	VQ	Validation Reason Code
CWC266246	CWC002	04/04/23	Metals	Antimony	0.37	0.08		mg/kg	=	
CWC266246	CWC002	04/04/23	Metals	Arsenic	4.1	0.12		mg/kg	=	
CWC266246	CWC002	04/04/23	Metals	Barium	200	0.18		mg/kg	J	H01, H04
CWC266246	CWC002	04/04/23	Metals	Cadmium	0.43	0.019		mg/kg	J	E01, E08
CWC266246	CWC002	04/04/23	Metals	Chromium	40	0.56		mg/kg	J	H02
CWC266246	CWC002	04/04/23	Metals	Molybdenum	2	0.16		mg/kg	=	
CWC266246	CWC002	04/04/23	Metals	Nickel	11	0.18		mg/kg	=	
CWC266246	CWC002	04/04/23	Metals	Selenium	1	0.24		mg/kg	=	
CWC266246	CWC002	04/04/23	Metals	Thallium	0.078	0.029		mg/kg	=	
CWC266246	CWC002	04/04/23	Metals	Vanadium	12	0.5		mg/kg	=	
CWC266246	CWC002	04/04/23	Gamma Spectroscopy	Ac-227	0.113	0.212	0.118	pCi/g	UJ	T04, T06
CWC266246	CWC002	04/04/23	Gamma Spectroscopy	Pa-231	0.0382	0.75	0.439	pCi/g	UJ	T04, T06
CWC266246	CWC002	04/04/23	Gamma Spectroscopy	Ra-226	0.841	0.0486	0.215	pCi/g	=	
CWC266246	CWC002	04/04/23	Gamma Spectroscopy	Ra-228	0.34	0.0418	0.0508	pCi/g	=	
CWC266246	CWC002	04/04/23	Gamma Spectroscopy	Am-241	0.00138	0.0378	0.0226	pCi/g	UJ	T04, T06
CWC266246	CWC002	04/04/23	Gamma Spectroscopy	Cs-137	0.000277	0.0203	0.012	pCi/g	UJ	T04, T06
CWC266246	CWC002	04/04/23	Gamma Spectroscopy	K-40	9.81	0.179	1.3	pCi/g	=	
CWC266246	CWC002	04/04/23	Alpha Spectroscopy	Th-228	0.496	0.192	0.242	pCi/g	J	F01
CWC266246	CWC002	04/04/23	Alpha Spectroscopy	Th-230	1.49	0.192	0.442	pCi/g	J	F01
CWC266246	CWC002	04/04/23	Alpha Spectroscopy	Th-232	0.391	0.192	0.215	pCi/g	J	T04, T20
CWC266246	CWC002	04/04/23	Gamma Spectroscopy	U-235	0.00322	0.241	0.143	pCi/g	UJ	T04, T06
CWC266246	CWC002	04/04/23	Gamma Spectroscopy	U-238	0.637	0.261	0.125	pCi/g	=	
CWC266248	CWC003	04/04/23	Metals	Antimony	0.25	0.086		mg/kg	=	
CWC266248	CWC003	04/04/23	Metals	Arsenic	4.7	0.13		mg/kg	=	
CWC266248	CWC003	04/04/23	Metals	Barium	98	0.2		mg/kg	=	
CWC266248	CWC003	04/04/23	Metals	Cadmium	0.25	0.021		mg/kg	J	E01, E08
CWC266248	CWC003	04/04/23	Metals	Chromium	11	0.63		mg/kg	=	
CWC266248	CWC003	04/04/23	Metals	Molybdenum	0.28	0.18		mg/kg	=	
CWC266248	CWC003	04/04/23	Metals	Nickel	12	0.2		mg/kg	=	
CWC266248	CWC003	04/04/23	Metals	Selenium	3.2	0.27		mg/kg	=	
CWC266248	CWC003	04/04/23	Metals	Thallium	0.16	0.032		mg/kg	=	
CWC266248	CWC003	04/04/23	Metals	Vanadium	17	0.56		mg/kg	=	
CWC266248	CWC003	04/04/23	Gamma Spectroscopy	Ac-227	-0.0494	0.209	0.125	pCi/g	UJ	T04, T06

Table E-2. CWC Sediment Data for CY 2023 (Continued)

Sample Name	Station Name	Collection Date	Method	Analyte	Result	DL	Error	Units	VQ	Validation Reason Code
CWC266248	CWC003	04/04/23	Gamma Spectroscopy	Pa-231	0.154	0.752	0.437	pCi/g	UJ	T04, T06
CWC266248	CWC003	04/04/23	Gamma Spectroscopy	Ra-226	0.809	0.0498	0.205	pCi/g	=	
CWC266248	CWC003	04/04/23	Gamma Spectroscopy	Ra-228	0.52	0.0475	0.0701	pCi/g	=	
CWC266248	CWC003	04/04/23	Gamma Spectroscopy	Am-241	0.0037	0.0391	0.0234	pCi/g	UJ	T04, T06
CWC266248	CWC003	04/04/23	Gamma Spectroscopy	Cs-137	-0.00586	0.0176	0.0109	pCi/g	UJ	T04, T06
CWC266248	CWC003	04/04/23	Gamma Spectroscopy	K-40	11.2	0.186	1.47	pCi/g	=	
CWC266248	CWC003	04/04/23	Alpha Spectroscopy	Th-228	0.834	0.139	0.308	pCi/g	J	F01
CWC266248	CWC003	04/04/23	Alpha Spectroscopy	Th-230	1.41	0.118	0.415	pCi/g	J	F01
CWC266248	CWC003	04/04/23	Alpha Spectroscopy	Th-232	0.619	0.182	0.264	pCi/g	=	
CWC266248	CWC003	04/04/23	Gamma Spectroscopy	U-235	-0.0271	0.242	0.145	pCi/g	UJ	T04, T06
CWC266248	CWC003	04/04/23	Gamma Spectroscopy	U-238	0.841	0.279	0.148	pCi/g	=	
CWC266250	CWC004	04/04/23	Metals	Antimony	0.44	0.077		mg/kg	=	
CWC266250	CWC004	04/04/23	Metals	Arsenic	3.9	0.12		mg/kg	=	
CWC266250	CWC004	04/04/23	Metals	Barium	110	0.18		mg/kg	=	
CWC266250	CWC004	04/04/23	Metals	Cadmium	0.42	0.019		mg/kg	J	E01, E08
CWC266250	CWC004	04/04/23	Metals	Chromium	15	0.58		mg/kg	=	
CWC266250	CWC004	04/04/23	Metals	Molybdenum	0.71	0.17		mg/kg	=	
CWC266250	CWC004	04/04/23	Metals	Nickel	12	0.19		mg/kg	=	
CWC266250	CWC004	04/04/23	Metals	Selenium	0.87	0.24		mg/kg	=	
CWC266250	CWC004	04/04/23	Metals	Thallium	0.11	0.03		mg/kg	=	
CWC266250	CWC004	04/04/23	Metals	Vanadium	16	0.51		mg/kg	=	
CWC266250	CWC004	04/04/23	Gamma Spectroscopy	Ac-227	-0.1	0.189	0.116	pCi/g	UJ	T04, T06
CWC266250	CWC004	04/04/23	Gamma Spectroscopy	Pa-231	-0.311	0.766	0.47	pCi/g	UJ	T04, T06
CWC266250	CWC004	04/04/23	Gamma Spectroscopy	Ra-226	0.967	0.048	0.242	pCi/g	=	
CWC266250	CWC004	04/04/23	Gamma Spectroscopy	Ra-228	0.572	0.0526	0.0798	pCi/g	=	
CWC266250	CWC004	04/04/23	Gamma Spectroscopy	Am-241	-0.00952	0.0395	0.0241	pCi/g	UJ	T04, T06
CWC266250	CWC004	04/04/23	Gamma Spectroscopy	Cs-137	-0.00337	0.0201	0.012	pCi/g	UJ	T04, T06
CWC266250	CWC004	04/04/23	Gamma Spectroscopy	K-40	11.1	0.198	1.46	pCi/g	=	
CWC266250	CWC004	04/04/23	Alpha Spectroscopy	Th-228	0.871	0.154	0.314	pCi/g	J	F01
CWC266250	CWC004	04/04/23	Alpha Spectroscopy	Th-230	7.53	0.138	1.27	pCi/g	=	
CWC266250	CWC004	04/04/23	Alpha Spectroscopy	Th-232	0.809	0.18	0.303	pCi/g	=	
CWC266250	CWC004	04/04/23	Gamma Spectroscopy	U-235	0.106	0.256	0.15	pCi/g	UJ	T04, T06
CWC266250	CWC004	04/04/23	Gamma Spectroscopy	U-238	1.01	0.287	0.169	pCi/g	=	

Table E-2. CWC Sediment Data for CY 2023 (Continued)

Sample Name	Station Name	Collection Date	Method	Analyte	Result	DL	Error	Units	VQ	Validation Reason Code
CWC266252	CWC005	04/04/23	Metals	Antimony	1.4	0.097		mg/kg	=	
CWC266252	CWC005	04/04/23	Metals	Arsenic	6.7	0.15		mg/kg	=	
CWC266252	CWC005	04/04/23	Metals	Barium	160	0.23		mg/kg	=	
CWC266252	CWC005	04/04/23	Metals	Cadmium	0.7	0.025		mg/kg	J	E01, E08
CWC266252	CWC005	04/04/23	Metals	Chromium	23	0.74		mg/kg	=	
CWC266252	CWC005	04/04/23	Metals	Molybdenum	1.5	0.22		mg/kg	=	
CWC266252	CWC005	04/04/23	Metals	Nickel	18	0.24		mg/kg	=	
CWC266252	CWC005	04/04/23	Metals	Selenium	1.6	0.31		mg/kg	=	
CWC266252	CWC005	04/04/23	Metals	Thallium	0.19	0.038		mg/kg	=	
CWC266252	CWC005	04/04/23	Metals	Vanadium	23	0.66		mg/kg	=	
CWC266252	CWC005	04/04/23	Gamma Spectroscopy	Ac-227	0.222	0.774	0.428	pCi/g	UJ	T04, T06
CWC266252	CWC005	04/04/23	Gamma Spectroscopy	Pa-231	-1.07	2.67	1.63	pCi/g	UJ	T04, T06
CWC266252	CWC005	04/04/23	Gamma Spectroscopy	Ra-226	0.906	0.156	0.286	pCi/g	=	
CWC266252	CWC005	04/04/23	Gamma Spectroscopy	Ra-228	0.721	0.145	0.128	pCi/g	=	
CWC266252	CWC005	04/04/23	Gamma Spectroscopy	Am-241	-0.00157	0.135	0.0799	pCi/g	UJ	T04, T06
CWC266252	CWC005	04/04/23	Gamma Spectroscopy	Cs-137	-0.0105	0.0626	0.0366	pCi/g	UJ	T04, T06
CWC266252	CWC005	04/04/23	Gamma Spectroscopy	K-40	11.8	0.739	1.91	pCi/g	=	
CWC266252	CWC005	04/04/23	Alpha Spectroscopy	Th-228	0.581	0.177	0.261	pCi/g	J	F01
CWC266252	CWC005	04/04/23	Alpha Spectroscopy	Th-230	8.26	0.192	1.4	pCi/g	=	
CWC266252	CWC005	04/04/23	Alpha Spectroscopy	Th-232	0.884	0.191	0.328	pCi/g	=	
CWC266252	CWC005	04/04/23	Gamma Spectroscopy	U-235	0.207	0.855	0.495	pCi/g	UJ	T04, T06
CWC266252	CWC005	04/04/23	Gamma Spectroscopy	U-238	0.5	0.778	0.399	pCi/g	UJ	T04, T05
CWC266254	CWC006	04/03/23	Metals	Antimony	0.31	0.091		mg/kg	=	
CWC266254	CWC006	04/03/23	Metals	Arsenic	3.2	0.13		mg/kg	=	
CWC266254	CWC006	04/03/23	Metals	Barium	130	0.2		mg/kg	=	
CWC266254	CWC006	04/03/23	Metals	Cadmium	0.27	0.021		mg/kg	J	E01, E08
CWC266254	CWC006	04/03/23	Metals	Chromium	14	0.64		mg/kg	=	
CWC266254	CWC006	04/03/23	Metals	Molybdenum	0.21	0.19		mg/kg	=	
CWC266254	CWC006	04/03/23	Metals	Nickel	13	0.21		mg/kg	=	
CWC266254	CWC006	04/03/23	Metals	Selenium	0.87	0.27		mg/kg	=	
CWC266254	CWC006	04/03/23	Metals	Thallium	0.16	0.033		mg/kg	=	
CWC266254	CWC006	04/03/23	Metals	Vanadium	19	0.57		mg/kg	=	
CWC266254	CWC006	04/03/23	Gamma Spectroscopy	Ac-227	0.052	0.218	0.126	pCi/g	UJ	T04, T06

Table E-2. CWC Sediment Data for CY 2023 (Continued)

Sample Name	Station Name	Collection Date	Method	Analyte	Result	DL	Error	Units	VQ	Validation Reason Code
CWC266254	CWC006	04/03/23	Gamma Spectroscopy	Pa-231	0.0168	0.789	0.467	pCi/g	UJ	T04, T06
CWC266254	CWC006	04/03/23	Gamma Spectroscopy	Ra-226	0.867	0.0522	0.226	pCi/g	=	
CWC266254	CWC006	04/03/23	Gamma Spectroscopy	Ra-228	0.742	0.0521	0.0918	pCi/g	=	
CWC266254	CWC006	04/03/23	Gamma Spectroscopy	Am-241	-0.0119	0.043	0.0263	pCi/g	UJ	T04, T06
CWC266254	CWC006	04/03/23	Gamma Spectroscopy	Cs-137	-0.00967	0.0199	0.0127	pCi/g	UJ	T04, T06
CWC266254	CWC006	04/03/23	Gamma Spectroscopy	K-40	15.1	0.192	1.94	pCi/g	=	
CWC266254	CWC006	04/03/23	Alpha Spectroscopy	Th-228	1.18	0.173	0.367	pCi/g	J	F01
CWC266254	CWC006	04/03/23	Alpha Spectroscopy	Th-230	1.74	0.112	0.459	pCi/g	J	F01
CWC266254	CWC006	04/03/23	Alpha Spectroscopy	Th-232	0.891	0.112	0.311	pCi/g	=	
CWC266254	CWC006	04/03/23	Gamma Spectroscopy	U-235	0.0361	0.266	0.158	pCi/g	UJ	T04, T06
CWC266254	CWC006	04/03/23	Gamma Spectroscopy	U-238	1.19	0.301	0.192	pCi/g	=	
CWC266256	CWC007	04/03/23	Metals	Antimony	0.58	0.098		mg/kg	=	
CWC266256	CWC007	04/03/23	Metals	Arsenic	4	0.12		mg/kg	=	
CWC266256	CWC007	04/03/23	Metals	Barium	92	0.19		mg/kg	=	
CWC266256	CWC007	04/03/23	Metals	Cadmium	0.41	0.02		mg/kg	J	E01, E08
CWC266256	CWC007	04/03/23	Metals	Chromium	14	0.61		mg/kg	=	
CWC266256	CWC007	04/03/23	Metals	Molybdenum	0.94	0.18		mg/kg	=	
CWC266256	CWC007	04/03/23	Metals	Nickel	11	0.2		mg/kg	=	
CWC266256	CWC007	04/03/23	Metals	Selenium	1.1	0.26		mg/kg	=	
CWC266256	CWC007	04/03/23	Metals	Thallium	0.12	0.031		mg/kg	=	
CWC266256	CWC007	04/03/23	Metals	Vanadium	17	0.54		mg/kg	=	
CWC266256	CWC007	04/03/23	Gamma Spectroscopy	Ac-227	-0.0616	0.183	0.112	pCi/g	UJ	T04, T06
CWC266256	CWC007	04/03/23	Gamma Spectroscopy	Pa-231	0.151	0.708	0.41	pCi/g	UJ	T04, T06
CWC266256	CWC007	04/03/23	Gamma Spectroscopy	Ra-226	0.941	0.0417	0.235	pCi/g	=	
CWC266256	CWC007	04/03/23	Gamma Spectroscopy	Ra-228	0.321	0.0376	0.045	pCi/g	=	
CWC266256	CWC007	04/03/23	Gamma Spectroscopy	Am-241	-0.0031	0.0332	0.0201	pCi/g	UJ	T04, T06
CWC266256	CWC007	04/03/23	Gamma Spectroscopy	Cs-137	0.000524	0.0175	0.0103	pCi/g	UJ	T04, T06
CWC266256	CWC007	04/03/23	Gamma Spectroscopy	K-40	5.69	0.168	0.787	pCi/g	=	
CWC266256	CWC007	04/03/23	Alpha Spectroscopy	Th-228	0.719	0.192	0.316	pCi/g	J	F01
CWC266256	CWC007	04/03/23	Alpha Spectroscopy	Th-230	2.38	0.172	0.631	pCi/g	J	F01
CWC266256	CWC007	04/03/23	Alpha Spectroscopy	Th-232	0.607	0.146	0.286	pCi/g	=	
CWC266256	CWC007	04/03/23	Gamma Spectroscopy	U-235	0.104	0.22	0.128	pCi/g	UJ	T04, T06
CWC266256	CWC007	04/03/23	Gamma Spectroscopy	U-238	0.457	0.239	0.102	pCi/g	=	

Table E-2. CWC Sediment Data for CY 2023 (Continued)

Sample Name	Station Name	Collection Date	Method	Analyte	Result	DL	Error	Units	VQ	Validation Reason Code
CWC266258	CWC008	04/03/23	Metals	Antimony	0.83	0.086		mg/kg	=	
CWC266258	CWC008	04/03/23	Metals	Arsenic	5.2	0.13		mg/kg	=	
CWC266258	CWC008	04/03/23	Metals	Barium	330	0.19		mg/kg	=	
CWC266258	CWC008	04/03/23	Metals	Cadmium	0.8	0.021		mg/kg	J	E01, E08
CWC266258	CWC008	04/03/23	Metals	Chromium	20	0.62		mg/kg	=	
CWC266258	CWC008	04/03/23	Metals	Molybdenum	1.2	0.18		mg/kg	=	
CWC266258	CWC008	04/03/23	Metals	Nickel	27	0.2		mg/kg	=	
CWC266258	CWC008	04/03/23	Metals	Selenium	1.3	0.26		mg/kg	=	
CWC266258	CWC008	04/03/23	Metals	Thallium	0.2	0.032		mg/kg	=	
CWC266258	CWC008	04/03/23	Metals	Vanadium	23	0.55		mg/kg	=	
CWC266258	CWC008	04/03/23	Gamma Spectroscopy	Ac-227	-0.00407	0.229	0.135	pCi/g	UJ	T04, T06
CWC266258	CWC008	04/03/23	Gamma Spectroscopy	Pa-231	0.218	0.88	0.515	pCi/g	UJ	T04, T06
CWC266258	CWC008	04/03/23	Gamma Spectroscopy	Ra-226	0.979	0.0561	0.253	pCi/g	=	
CWC266258	CWC008	04/03/23	Gamma Spectroscopy	Ra-228	0.79	0.056	0.0971	pCi/g	=	
CWC266258	CWC008	04/03/23	Gamma Spectroscopy	Am-241	0.034	0.0461	0.0269	pCi/g	UJ	T04, T05
CWC266258	CWC008	04/03/23	Gamma Spectroscopy	Cs-137	0.000246	0.022	0.0128	pCi/g	UJ	T04, T06
CWC266258	CWC008	04/03/23	Gamma Spectroscopy	K-40	13.3	0.218	1.74	pCi/g	=	
CWC266258	CWC008	04/03/23	Alpha Spectroscopy	Th-228	1.07	0.175	0.348	pCi/g	J	F01
CWC266258	CWC008	04/03/23	Alpha Spectroscopy	Th-230	2.11	0.175	0.52	pCi/g	J	F01
CWC266258	CWC008	04/03/23	Alpha Spectroscopy	Th-232	1.18	0.113	0.365	pCi/g	=	
CWC266258	CWC008	04/03/23	Gamma Spectroscopy	U-235	0.103	0.282	0.166	pCi/g	UJ	T04, T06
CWC266258	CWC008	04/03/23	Gamma Spectroscopy	U-238	1.15	0.315	0.191	pCi/g	=	
CWC266260	CWC009	04/03/23	Metals	Antimony	0.79	0.085		mg/kg	=	
CWC266260	CWC009	04/03/23	Metals	Arsenic	5.8	0.12		mg/kg	=	
CWC266260	CWC009	04/03/23	Metals	Barium	150	0.19		mg/kg	=	
CWC266260	CWC009	04/03/23	Metals	Cadmium	0.54	0.02		mg/kg	J	E01, E08
CWC266260	CWC009	04/03/23	Metals	Chromium	22	0.6		mg/kg	=	
CWC266260	CWC009	04/03/23	Metals	Molybdenum	0.54	0.18		mg/kg	=	
CWC266260	CWC009	04/03/23	Metals	Nickel	16	0.19		mg/kg	=	
CWC266260	CWC009	04/03/23	Metals	Selenium	1.3	0.26		mg/kg	=	
CWC266260	CWC009	04/03/23	Metals	Thallium	0.18	0.031		mg/kg	=	
CWC266260	CWC009	04/03/23	Metals	Vanadium	22	0.54		mg/kg	=	
CWC266260	CWC009	04/03/23	Gamma Spectroscopy	Ac-227	0.0277	0.21	0.123	pCi/g	UJ	T04, T06

Table E-2. CWC Sediment Data for CY 2023 (Continued)

Sample Name	Station Name	Collection Date	Method	Analyte	Result	DL	Error	Units	VQ	Validation Reason Code
CWC266260	CWC009	04/03/23	Gamma Spectroscopy	Pa-231	-0.213	0.76	0.461	pCi/g	UJ	T04, T06
CWC266260	CWC009	04/03/23	Gamma Spectroscopy	Ra-226	0.991	0.0491	0.247	pCi/g	=	
CWC266260	CWC009	04/03/23	Gamma Spectroscopy	Ra-228	0.74	0.0491	0.0895	pCi/g	=	
CWC266260	CWC009	04/03/23	Gamma Spectroscopy	Am-241	-0.00925	0.0424	0.0258	pCi/g	UJ	T04, T06
CWC266260	CWC009	04/03/23	Gamma Spectroscopy	Cs-137	0.00642	0.0216	0.0124	pCi/g	UJ	T04, T06
CWC266260	CWC009	04/03/23	Gamma Spectroscopy	K-40	13.2	0.201	1.71	pCi/g	=	
CWC266260	CWC009	04/03/23	Alpha Spectroscopy	Th-228	1.13	0.125	0.375	pCi/g	J	F01
CWC266260	CWC009	04/03/23	Alpha Spectroscopy	Th-230	2.89	0.194	0.672	pCi/g	=	
CWC266260	CWC009	04/03/23	Alpha Spectroscopy	Th-232	0.731	0.125	0.294	pCi/g	=	
CWC266260	CWC009	04/03/23	Gamma Spectroscopy	U-235	0.0365	0.258	0.153	pCi/g	UJ	T04, T06
CWC266260	CWC009	04/03/23	Gamma Spectroscopy	U-238	0.945	0.294	0.168	pCi/g	=	
CWC266262	CWC010	04/03/23	Metals	Antimony	0.92	0.084		mg/kg	=	
CWC266262	CWC010	04/03/23	Metals	Arsenic	8.3	0.13		mg/kg	=	
CWC266262	CWC010	04/03/23	Metals	Barium	150	0.2		mg/kg	=	
CWC266262	CWC010	04/03/23	Metals	Cadmium	0.64	0.021		mg/kg	J	E01, E08
CWC266262	CWC010	04/03/23	Metals	Chromium	25	0.64		mg/kg	=	
CWC266262	CWC010	04/03/23	Metals	Molybdenum	0.62	0.19		mg/kg	=	
CWC266262	CWC010	04/03/23	Metals	Nickel	17	0.21		mg/kg	=	
CWC266262	CWC010	04/03/23	Metals	Selenium	0.99	0.27		mg/kg	=	
CWC266262	CWC010	04/03/23	Metals	Thallium	0.15	0.033		mg/kg	=	
CWC266262	CWC010	04/03/23	Metals	Vanadium	19	0.57		mg/kg	=	
CWC266262	CWC010	04/03/23	Gamma Spectroscopy	Ac-227	0.0799	0.11	0.0401	pCi/g	UJ	T04, T05
CWC266262	CWC010	04/03/23	Gamma Spectroscopy	Pa-231	-0.174	0.853	0.513	pCi/g	UJ	T04, T06
CWC266262	CWC010	04/03/23	Gamma Spectroscopy	Ra-226	1.09	0.053	0.272	pCi/g	=	
CWC266262	CWC010	04/03/23	Gamma Spectroscopy	Ra-228	0.621	0.0524	0.0778	pCi/g	=	
CWC266262	CWC010	04/03/23	Gamma Spectroscopy	Am-241	0.00499	0.0442	0.0265	pCi/g	UJ	T04, T06
CWC266262	CWC010	04/03/23	Gamma Spectroscopy	Cs-137	0.0116	0.0138	0.00885	pCi/g	UJ	T04, T05
CWC266262	CWC010	04/03/23	Gamma Spectroscopy	K-40	12.2	0.185	1.59	pCi/g	=	
CWC266262	CWC010	04/03/23	Alpha Spectroscopy	Th-228	0.748	0.172	0.284	pCi/g	J	F01
CWC266262	CWC010	04/03/23	Alpha Spectroscopy	Th-230	3.14	0.172	0.67	pCi/g	=	
CWC266262	CWC010	04/03/23	Alpha Spectroscopy	Th-232	0.467	0.172	0.222	pCi/g	=	
CWC266262	CWC010	04/03/23	Gamma Spectroscopy	U-235	-0.104	0.267	0.164	pCi/g	UJ	T04, T06
CWC266262	CWC010	04/03/23	Gamma Spectroscopy	U-238	0.743	0.297	0.142	pCi/g	=	

Table E-2. CWC Sediment Data for CY 2023 (Continued)

Sample Name	Station Name	Collection Date	Method	Analyte	Result	DL	Error	Units	VQ	Validation Reason Code
CWC266264	CWC011	04/03/23	Metals	Antimony	0.61	0.074		mg/kg	=	
CWC266264	CWC011	04/03/23	Metals	Arsenic	7.5	0.11		mg/kg	=	
CWC266264	CWC011	04/03/23	Metals	Barium	170	0.17		mg/kg	=	
CWC266264	CWC011	04/03/23	Metals	Cadmium	0.65	0.018		mg/kg	J	E01, E08
CWC266264	CWC011	04/03/23	Metals	Chromium	35	0.55		mg/kg	=	
CWC266264	CWC011	04/03/23	Metals	Molybdenum	0.3	0.16		mg/kg	=	
CWC266264	CWC011	04/03/23	Metals	Nickel	18	0.18		mg/kg	=	
CWC266264	CWC011	04/03/23	Metals	Selenium	1	0.23		mg/kg	=	
CWC266264	CWC011	04/03/23	Metals	Thallium	0.16	0.028		mg/kg	=	
CWC266264	CWC011	04/03/23	Metals	Vanadium	23	0.49		mg/kg	=	
CWC266264	CWC011	04/03/23	Gamma Spectroscopy	Ac-227	0.25	0.119	0.058	pCi/g	=	
CWC266264	CWC011	04/03/23	Gamma Spectroscopy	Pa-231	-0.188	0.906	0.549	pCi/g	UJ	T04, T06
CWC266264	CWC011	04/03/23	Gamma Spectroscopy	Ra-226	1.56	0.0573	0.386	pCi/g	=	
CWC266264	CWC011	04/03/23	Gamma Spectroscopy	Ra-228	0.848	0.0556	0.108	pCi/g	=	
CWC266264	CWC011	04/03/23	Gamma Spectroscopy	Am-241	0.00741	0.0507	0.0304	pCi/g	UJ	T04, T06
CWC266264	CWC011	04/03/23	Gamma Spectroscopy	Cs-137	0.0573	0.0175	0.0355	pCi/g	J	T04, T20
CWC266264	CWC011	04/03/23	Gamma Spectroscopy	K-40	14.9	0.218	1.91	pCi/g	=	
CWC266264	CWC011	04/03/23	Alpha Spectroscopy	Th-228	1.65	0.113	0.447	pCi/g	=	
CWC266264	CWC011	04/03/23	Alpha Spectroscopy	Th-230	17	0.113	2.47	pCi/g	=	
CWC266264	CWC011	04/03/23	Alpha Spectroscopy	Th-232	1.21	0.174	0.373	pCi/g	=	
CWC266264	CWC011	04/03/23	Gamma Spectroscopy	U-235	0.219	0.303	0.179	pCi/g	UJ	T04, T05
CWC266264	CWC011	04/03/23	Gamma Spectroscopy	U-238	0.944	0.346	0.169	pCi/g	=	
CWC269688	CWC002	10/09/23	Metals	Antimony	0.13	0.069		mg/kg	=	
CWC269688	CWC002	10/09/23	Metals	Arsenic	2.8	0.13		mg/kg	=	
CWC269688	CWC002	10/09/23	Metals	Barium	100	0.15		mg/kg	=	
CWC269688	CWC002	10/09/23	Metals	Cadmium	0.3	0.016		mg/kg	=	
CWC269688	CWC002	10/09/23	Metals	Chromium	8.7	0.31		mg/kg	=	
CWC269688	CWC002	10/09/23	Metals	Molybdenum	0.73	0.14		mg/kg	=	
CWC269688	CWC002	10/09/23	Metals	Nickel	4.2	0.15		mg/kg	=	
CWC269688	CWC002	10/09/23	Metals	Selenium	0.79	0.2		mg/kg	=	
CWC269688	CWC002	10/09/23	Metals	Thallium	0.052	0.024		mg/kg	=	
CWC269688	CWC002	10/09/23	Metals	Vanadium	7.7	0.43		mg/kg	=	
CWC269688	CWC002	10/09/23	Gamma Spectroscopy	Ac-227	-0.0707	0.177	0.108	pCi/g	UJ	T04, T06

Table E-2. CWC Sediment Data for CY 2023 (Continued)

Sample Name	Station Name	Collection Date	Method	Analyte	Result	DL	Error	Units	VQ	Validation Reason Code
CWC269688	CWC002	10/09/23	Gamma Spectroscopy	Pa-231	-0.171	0.668	0.402	pCi/g	UJ	T04, T06
CWC269688	CWC002	10/09/23	Gamma Spectroscopy	Ra-226	0.869	0.0401	0.221	pCi/g	=	
CWC269688	CWC002	10/09/23	Gamma Spectroscopy	Ra-228	0.396	0.0406	0.053	pCi/g	=	
CWC269688	CWC002	10/09/23	Gamma Spectroscopy	Am-241	0.00985	0.0374	0.0222	pCi/g	UJ	T04, T06
CWC269688	CWC002	10/09/23	Gamma Spectroscopy	Cs-137	-0.00613	0.0151	0.0093	pCi/g	UJ	T04, T06
CWC269688	CWC002	10/09/23	Gamma Spectroscopy	K-40	10.4	0.17	1.36	pCi/g	=	
CWC269688	CWC002	10/09/23	Alpha Spectroscopy	Th-228	0.584	0.15	0.259	pCi/g	=	
CWC269688	CWC002	10/09/23	Alpha Spectroscopy	Th-230	0.929	0.19	0.335	pCi/g	=	
CWC269688	CWC002	10/09/23	Alpha Spectroscopy	Th-232	0.326	0.15	0.191	pCi/g	J	T04, T20
CWC269688	CWC002	10/09/23	Gamma Spectroscopy	U-235	0.0733	0.243	0.143	pCi/g	UJ	T04, T06
CWC269688	CWC002	10/09/23	Gamma Spectroscopy	U-238	0.515	0.247	0.104	pCi/g	=	
CWC269690	CWC003	10/09/23	Metals	Antimony	1.1	0.11		mg/kg	=	
CWC269690	CWC003	10/09/23	Metals	Arsenic	6.6	0.22		mg/kg	=	
CWC269690	CWC003	10/09/23	Metals	Barium	150	0.26		mg/kg	=	
CWC269690	CWC003	10/09/23	Metals	Cadmium	0.69	0.027		mg/kg	=	
CWC269690	CWC003	10/09/23	Metals	Chromium	30	0.53		mg/kg	=	
CWC269690	CWC003	10/09/23	Metals	Molybdenum	1.2	0.24		mg/kg	=	
CWC269690	CWC003	10/09/23	Metals	Nickel	19	0.26		mg/kg	=	
CWC269690	CWC003	10/09/23	Metals	Selenium	1.8	0.35		mg/kg	=	
CWC269690	CWC003	10/09/23	Metals	Thallium	0.2	0.042		mg/kg	=	
CWC269690	CWC003	10/09/23	Metals	Vanadium	25	0.73		mg/kg	=	
CWC269690	CWC003	10/09/23	Gamma Spectroscopy	Ac-227	-0.171	0.332	0.205	pCi/g	UJ	T04, T06
CWC269690	CWC003	10/09/23	Gamma Spectroscopy	Pa-231	0.655	1.42	0.811	pCi/g	UJ	T04, T06
CWC269690	CWC003	10/09/23	Gamma Spectroscopy	Ra-226	1.11	0.0759	0.296	pCi/g	=	
CWC269690	CWC003	10/09/23	Gamma Spectroscopy	Ra-228	0.723	0.0779	0.103	pCi/g	=	
CWC269690	CWC003	10/09/23	Gamma Spectroscopy	Am-241	-0.00315	0.0575	0.0344	pCi/g	UJ	T04, T06
CWC269690	CWC003	10/09/23	Gamma Spectroscopy	Cs-137	0.00295	0.0332	0.0204	pCi/g	UJ	T04, T06
CWC269690	CWC003	10/09/23	Gamma Spectroscopy	K-40	12.4	0.339	1.71	pCi/g	=	
CWC269690	CWC003	10/09/23	Alpha Spectroscopy	Th-228	0.744	0.177	0.287	pCi/g	=	
CWC269690	CWC003	10/09/23	Alpha Spectroscopy	Th-230	2.91	0.177	0.641	pCi/g	=	
CWC269690	CWC003	10/09/23	Alpha Spectroscopy	Th-232	0.432	0.176	0.216	pCi/g	=	
CWC269690	CWC003	10/09/23	Gamma Spectroscopy	U-235	0.173	0.445	0.258	pCi/g	UJ	T04, T06
CWC269690	CWC003	10/09/23	Gamma Spectroscopy	U-238	0.912	0.404	0.178	pCi/g	=	

Table E-2. CWC Sediment Data for CY 2023 (Continued)

Sample Name	Station Name	Collection Date	Method	Analyte	Result	DL	Error	Units	VQ	Validation Reason Code
CWC269692	CWC004	10/09/23	Metals	Antimony	0.3	0.078		mg/kg	=	
CWC269692	CWC004	10/09/23	Metals	Arsenic	6.7	0.14		mg/kg	=	
CWC269692	CWC004	10/09/23	Metals	Barium	140	0.16		mg/kg	=	
CWC269692	CWC004	10/09/23	Metals	Cadmium	0.3	0.018		mg/kg	=	
CWC269692	CWC004	10/09/23	Metals	Chromium	11	0.34		mg/kg	=	
CWC269692	CWC004	10/09/23	Metals	Molybdenum	0.33	0.15		mg/kg	=	
CWC269692	CWC004	10/09/23	Metals	Nickel	14	0.17		mg/kg	=	
CWC269692	CWC004	10/09/23	Metals	Selenium	1.1	0.22		mg/kg	=	
CWC269692	CWC004	10/09/23	Metals	Thallium	0.14	0.027		mg/kg	=	
CWC269692	CWC004	10/09/23	Metals	Vanadium	19	0.47		mg/kg	=	
CWC269692	CWC004	10/09/23	Gamma Spectroscopy	Ac-227	0.0103	0.248	0.146	pCi/g	UJ	T04, T06
CWC269692	CWC004	10/09/23	Gamma Spectroscopy	Pa-231	0.217	0.927	0.54	pCi/g	UJ	T04, T06
CWC269692	CWC004	10/09/23	Gamma Spectroscopy	Ra-226	1.16	0.0539	0.292	pCi/g	=	
CWC269692	CWC004	10/09/23	Gamma Spectroscopy	Ra-228	0.892	0.0589	0.106	pCi/g	=	
CWC269692	CWC004	10/09/23	Gamma Spectroscopy	Am-241	0.000468	0.0486	0.0293	pCi/g	UJ	T04, T06
CWC269692	CWC004	10/09/23	Gamma Spectroscopy	Cs-137	-0.000591	0.0226	0.0133	pCi/g	UJ	T04, T06
CWC269692	CWC004	10/09/23	Gamma Spectroscopy	K-40	14.8	0.198	1.91	pCi/g	=	
CWC269692	CWC004	10/09/23	Alpha Spectroscopy	Th-228	1.47	0.201	0.446	pCi/g	=	
CWC269692	CWC004	10/09/23	Alpha Spectroscopy	Th-230	2.07	0.159	0.544	pCi/g	=	
CWC269692	CWC004	10/09/23	Alpha Spectroscopy	Th-232	1.17	0.201	0.391	pCi/g	=	
CWC269692	CWC004	10/09/23	Gamma Spectroscopy	U-235	0.0535	0.311	0.185	pCi/g	UJ	T04, T06
CWC269692	CWC004	10/09/23	Gamma Spectroscopy	U-238	1.1	0.351	0.187	pCi/g	=	
CWC269694	CWC005	10/09/23	Metals	Antimony	0.78	0.11		mg/kg	=	
CWC269694	CWC005	10/09/23	Metals	Arsenic	4.4	0.22		mg/kg	=	
CWC269694	CWC005	10/09/23	Metals	Barium	110	0.26		mg/kg	=	
CWC269694	CWC005	10/09/23	Metals	Cadmium	0.5	0.027		mg/kg	=	
CWC269694	CWC005	10/09/23	Metals	Chromium	16	0.53		mg/kg	=	
CWC269694	CWC005	10/09/23	Metals	Molybdenum	0.82	0.24		mg/kg	=	
CWC269694	CWC005	10/09/23	Metals	Nickel	14	0.27		mg/kg	=	
CWC269694	CWC005	10/09/23	Metals	Selenium	1.4	0.35		mg/kg	=	
CWC269694	CWC005	10/09/23	Metals	Thallium	0.15	0.042		mg/kg	=	
CWC269694	CWC005	10/09/23	Metals	Vanadium	18	0.73		mg/kg	=	
CWC269694	CWC005	10/09/23	Gamma Spectroscopy	Ac-227	0.0454	0.363	0.208	pCi/g	UJ	T04, T06

Table E-2. CWC Sediment Data for CY 2023 (Continued)

Sample Name	Station Name	Collection Date	Method	Analyte	Result	DL	Error	Units	VQ	Validation Reason Code
CWC269694	CWC005	10/09/23	Gamma Spectroscopy	Pa-231	-0.295	1.26	0.755	pCi/g	UJ	T04, T06
CWC269694	CWC005	10/09/23	Gamma Spectroscopy	Ra-226	0.997	0.0759	0.269	pCi/g	=	
CWC269694	CWC005	10/09/23	Gamma Spectroscopy	Ra-228	0.598	0.0766	0.0877	pCi/g	=	
CWC269694	CWC005	10/09/23	Gamma Spectroscopy	Am-241	-0.00257	0.0553	0.0331	pCi/g	UJ	T04, T06
CWC269694	CWC005	10/09/23	Gamma Spectroscopy	Cs-137	0.00288	0.0321	0.0182	pCi/g	UJ	T04, T06
CWC269694	CWC005	10/09/23	Gamma Spectroscopy	K-40	12.5	0.337	1.73	pCi/g	=	
CWC269694	CWC005	10/09/23	Alpha Spectroscopy	Th-228	1.18	0.223	0.415	pCi/g	=	
CWC269694	CWC005	10/09/23	Alpha Spectroscopy	Th-230	2.03	0.224	0.569	pCi/g	=	
CWC269694	CWC005	10/09/23	Alpha Spectroscopy	Th-232	1.2	0.176	0.416	pCi/g	=	
CWC269694	CWC005	10/09/23	Gamma Spectroscopy	U-235	0.186	0.448	0.259	pCi/g	UJ	T04, T06
CWC269694	CWC005	10/09/23	Gamma Spectroscopy	U-238	0.896	0.428	0.178	pCi/g	=	
CWC269696	CWC006	10/09/23	Metals	Antimony	0.61	0.073		mg/kg	=	
CWC269696	CWC006	10/09/23	Metals	Arsenic	2.5	0.17		mg/kg	=	
CWC269696	CWC006	10/09/23	Metals	Barium	110	0.19		mg/kg	=	
CWC269696	CWC006	10/09/23	Metals	Cadmium	0.26	0.021		mg/kg	=	
CWC269696	CWC006	10/09/23	Metals	Chromium	16	0.4		mg/kg	=	
CWC269696	CWC006	10/09/23	Metals	Molybdenum	0.33	0.18		mg/kg	=	
CWC269696	CWC006	10/09/23	Metals	Nickel	13	0.2		mg/kg	=	
CWC269696	CWC006	10/09/23	Metals	Selenium	1.3	0.26		mg/kg	=	
CWC269696	CWC006	10/09/23	Metals	Thallium	0.14	0.032		mg/kg	=	
CWC269696	CWC006	10/09/23	Metals	Vanadium	19	0.55		mg/kg	=	
CWC269696	CWC006	10/09/23	Gamma Spectroscopy	Ac-227	-0.132	0.328	0.2	pCi/g	UJ	T04, T06
CWC269696	CWC006	10/09/23	Gamma Spectroscopy	Pa-231	-0.0431	1.29	0.755	pCi/g	UJ	T04, T06
CWC269696	CWC006	10/09/23	Gamma Spectroscopy	Ra-226	1.1	0.0834	0.293	pCi/g	=	
CWC269696	CWC006	10/09/23	Gamma Spectroscopy	Ra-228	0.88	0.0835	0.115	pCi/g	=	
CWC269696	CWC006	10/09/23	Gamma Spectroscopy	Am-241	-0.00134	0.058	0.0346	pCi/g	UJ	T04, T06
CWC269696	CWC006	10/09/23	Gamma Spectroscopy	Cs-137	0.00463	0.0357	0.0204	pCi/g	UJ	T04, T06
CWC269696	CWC006	10/09/23	Gamma Spectroscopy	K-40	15.3	0.349	2.07	pCi/g	=	
CWC269696	CWC006	10/09/23	Alpha Spectroscopy	Th-228	1.01	0.178	0.34	pCi/g	=	
CWC269696	CWC006	10/09/23	Alpha Spectroscopy	Th-230	3.82	0.178	0.767	pCi/g	=	
CWC269696	CWC006	10/09/23	Alpha Spectroscopy	Th-232	1.04	0.178	0.344	pCi/g	=	
CWC269696	CWC006	10/09/23	Gamma Spectroscopy	U-235	-0.189	0.403	0.25	pCi/g	UJ	T04, T06
CWC269696	CWC006	10/09/23	Gamma Spectroscopy	U-238	0.911	0.433	0.186	pCi/g	=	

Table E-2. CWC Sediment Data for CY 2023 (Continued)

Sample Name	Station Name	Collection Date	Method	Analyte	Result	DL	Error	Units	VQ	Validation Reason Code
CWC269698	CWC007	10/04/23	Metals	Antimony	0.96	0.092		mg/kg	=	
CWC269698	CWC007	10/04/23	Metals	Arsenic	4.1	0.15		mg/kg	=	
CWC269698	CWC007	10/04/23	Metals	Barium	91	0.18		mg/kg	=	
CWC269698	CWC007	10/04/23	Metals	Cadmium	0.74	0.019		mg/kg	=	
CWC269698	CWC007	10/04/23	Metals	Chromium	21	0.37		mg/kg	=	
CWC269698	CWC007	10/04/23	Metals	Molybdenum	0.85	0.17		mg/kg	=	
CWC269698	CWC007	10/04/23	Metals	Nickel	14	0.19		mg/kg	=	
CWC269698	CWC007	10/04/23	Metals	Selenium	1.7	0.24		mg/kg	=	
CWC269698	CWC007	10/04/23	Metals	Thallium	0.14	0.029		mg/kg	=	
CWC269698	CWC007	10/04/23	Metals	Vanadium	18	0.51		mg/kg	=	
CWC269698	CWC007	10/04/23	Gamma Spectroscopy	Ac-227	0.072	0.361	0.206	pCi/g	UJ	T04, T06
CWC269698	CWC007	10/04/23	Gamma Spectroscopy	Pa-231	-0.147	1.25	0.738	pCi/g	UJ	T04, T06
CWC269698	CWC007	10/04/23	Gamma Spectroscopy	Ra-226	1.01	0.0822	0.278	pCi/g	=	
CWC269698	CWC007	10/04/23	Gamma Spectroscopy	Ra-228	0.652	0.071	0.0974	pCi/g	=	
CWC269698	CWC007	10/04/23	Gamma Spectroscopy	Am-241	-0.0238	0.055	0.0338	pCi/g	UJ	T04, T06
CWC269698	CWC007	10/04/23	Gamma Spectroscopy	Cs-137	0.0316	0.0358	0.0183	pCi/g	UJ	T04, T05
CWC269698	CWC007	10/04/23	Gamma Spectroscopy	K-40	12.2	0.338	1.69	pCi/g	=	
CWC269698	CWC007	10/04/23	Alpha Spectroscopy	Th-228	0.678	0.172	0.269	pCi/g	=	
CWC269698	CWC007	10/04/23	Alpha Spectroscopy	Th-230	3	0.172	0.643	pCi/g	=	
CWC269698	CWC007	10/04/23	Alpha Spectroscopy	Th-232	0.538	0.172	0.238	pCi/g	=	
CWC269698	CWC007	10/04/23	Gamma Spectroscopy	U-235	0.0243	0.414	0.244	pCi/g	UJ	T04, T06
CWC269698	CWC007	10/04/23	Gamma Spectroscopy	U-238	0.861	0.395	0.172	pCi/g	=	
CWC269700	CWC008	10/04/23	Metals	Antimony	0.44	0.079		mg/kg	=	
CWC269700	CWC008	10/04/23	Metals	Arsenic	3.7	0.18		mg/kg	=	
CWC269700	CWC008	10/04/23	Metals	Barium	98	0.21		mg/kg	=	
CWC269700	CWC008	10/04/23	Metals	Cadmium	0.42	0.022		mg/kg	=	
CWC269700	CWC008	10/04/23	Metals	Chromium	24	0.43		mg/kg	=	
CWC269700	CWC008	10/04/23	Metals	Molybdenum	0.52	0.19		mg/kg	=	
CWC269700	CWC008	10/04/23	Metals	Nickel	13	0.22		mg/kg	=	
CWC269700	CWC008	10/04/23	Metals	Selenium	1.4	0.28		mg/kg	=	
CWC269700	CWC008	10/04/23	Metals	Thallium	0.13	0.034		mg/kg	=	
CWC269700	CWC008	10/04/23	Metals	Vanadium	18	0.59		mg/kg	=	
CWC269700	CWC008	10/04/23	Gamma Spectroscopy	Ac-227	0.0425	0.36	0.207	pCi/g	UJ	T04, T06

Table E-2. CWC Sediment Data for CY 2023 (Continued)

Sample Name	Station Name	Collection Date	Method	Analyte	Result	DL	Error	Units	VQ	Validation Reason Code
CWC269700	CWC008	10/04/23	Gamma Spectroscopy	Pa-231	0.198	1.35	0.777	pCi/g	UJ	T04, T06
CWC269700	CWC008	10/04/23	Gamma Spectroscopy	Ra-226	1.11	0.0812	0.297	pCi/g	=	
CWC269700	CWC008	10/04/23	Gamma Spectroscopy	Ra-228	0.804	0.0788	0.119	pCi/g	=	
CWC269700	CWC008	10/04/23	Gamma Spectroscopy	Am-241	-0.0213	0.0586	0.036	pCi/g	UJ	T04, T06
CWC269700	CWC008	10/04/23	Gamma Spectroscopy	Cs-137	-0.00223	0.0331	0.0194	pCi/g	UJ	T04, T06
CWC269700	CWC008	10/04/23	Gamma Spectroscopy	K-40	14	0.328	1.9	pCi/g	=	
CWC269700	CWC008	10/04/23	Alpha Spectroscopy	Th-228	1.16	0.164	0.352	pCi/g	=	
CWC269700	CWC008	10/04/23	Alpha Spectroscopy	Th-230	2.21	0.164	0.516	pCi/g	=	
CWC269700	CWC008	10/04/23	Alpha Spectroscopy	Th-232	0.868	0.164	0.3	pCi/g	=	
CWC269700	CWC008	10/04/23	Gamma Spectroscopy	U-235	-0.137	0.398	0.243	pCi/g	UJ	T04, T06
CWC269700	CWC008	10/04/23	Gamma Spectroscopy	U-238	0.923	0.666	0.399	pCi/g	UJ	T04
CWC269702	CWC009	10/04/23	Metals	Antimony	0.49	0.086		mg/kg	=	
CWC269702	CWC009	10/04/23	Metals	Arsenic	3.2	0.16		mg/kg	=	
CWC269702	CWC009	10/04/23	Metals	Barium	120	0.19		mg/kg	=	
CWC269702	CWC009	10/04/23	Metals	Cadmium	0.18	0.02		mg/kg	=	
CWC269702	CWC009	10/04/23	Metals	Chromium	16	0.39		mg/kg	=	
CWC269702	CWC009	10/04/23	Metals	Molybdenum	0.19	0.18		mg/kg	=	
CWC269702	CWC009	10/04/23	Metals	Nickel	14	0.2		mg/kg	=	
CWC269702	CWC009	10/04/23	Metals	Selenium	1.5	0.26		mg/kg	=	
CWC269702	CWC009	10/04/23	Metals	Thallium	0.16	0.031		mg/kg	=	
CWC269702	CWC009	10/04/23	Metals	Vanadium	20	0.54		mg/kg	=	
CWC269702	CWC009	10/04/23	Gamma Spectroscopy	Ac-227	0.0786	0.258	0.149	pCi/g	UJ	T04, T06
CWC269702	CWC009	10/04/23	Gamma Spectroscopy	Pa-231	0.00264	0.866	0.513	pCi/g	UJ	T04, T06
CWC269702	CWC009	10/04/23	Gamma Spectroscopy	Ra-226	1.33	0.0527	0.332	pCi/g	=	
CWC269702	CWC009	10/04/23	Gamma Spectroscopy	Ra-228	0.983	0.0561	0.116	pCi/g	=	
CWC269702	CWC009	10/04/23	Gamma Spectroscopy	Am-241	0.00322	0.0488	0.0294	pCi/g	UJ	T04, T06
CWC269702	CWC009	10/04/23	Gamma Spectroscopy	Cs-137	-0.0125	0.0214	0.0137	pCi/g	UJ	T04, T06
CWC269702	CWC009	10/04/23	Gamma Spectroscopy	K-40	16.5	0.207	2.12	pCi/g	=	
CWC269702	CWC009	10/04/23	Alpha Spectroscopy	Th-228	1.79	0.212	0.513	pCi/g	=	
CWC269702	CWC009	10/04/23	Alpha Spectroscopy	Th-230	3.24	0.213	0.743	pCi/g	=	
CWC269702	CWC009	10/04/23	Alpha Spectroscopy	Th-232	1.14	0.168	0.394	pCi/g	=	
CWC269702	CWC009	10/04/23	Gamma Spectroscopy	U-235	0.0873	0.318	0.188	pCi/g	UJ	T04, T06
CWC269702	CWC009	10/04/23	Gamma Spectroscopy	U-238	1.17	0.341	0.197	pCi/g	=	

Table E-2. CWC Sediment Data for CY 2023 (Continued)

Sample Name	Station Name	Collection Date	Method	Analyte	Result	DL	Error	Units	VQ	Validation Reason Code
CWC269704	CWC010	10/04/23	Metals	Antimony	0.6	0.094		mg/kg	=	
CWC269704	CWC010	10/04/23	Metals	Arsenic	7.3	0.16		mg/kg	=	
CWC269704	CWC010	10/04/23	Metals	Barium	160	0.19		mg/kg	=	
CWC269704	CWC010	10/04/23	Metals	Cadmium	0.94	0.02		mg/kg	=	
CWC269704	CWC010	10/04/23	Metals	Chromium	30	0.39		mg/kg	=	
CWC269704	CWC010	10/04/23	Metals	Molybdenum	0.71	0.18		mg/kg	=	
CWC269704	CWC010	10/04/23	Metals	Nickel	18	0.2		mg/kg	=	
CWC269704	CWC010	10/04/23	Metals	Selenium	1.6	0.26		mg/kg	=	
CWC269704	CWC010	10/04/23	Metals	Thallium	0.15	0.031		mg/kg	=	
CWC269704	CWC010	10/04/23	Metals	Vanadium	25	0.54		mg/kg	=	
CWC269704	CWC010	10/04/23	Gamma Spectroscopy	Ac-227	0.0119	0.252	0.148	pCi/g	UJ	T04, T06
CWC269704	CWC010	10/04/23	Gamma Spectroscopy	Pa-231	0.224	0.932	0.54	pCi/g	UJ	T04, T06
CWC269704	CWC010	10/04/23	Gamma Spectroscopy	Ra-226	1.21	0.0554	0.306	pCi/g	=	
CWC269704	CWC010	10/04/23	Gamma Spectroscopy	Ra-228	0.622	0.0508	0.0852	pCi/g	=	
CWC269704	CWC010	10/04/23	Gamma Spectroscopy	Am-241	-0.00964	0.0474	0.0288	pCi/g	UJ	T04, T06
CWC269704	CWC010	10/04/23	Gamma Spectroscopy	Cs-137	-0.00307	0.0241	0.0143	pCi/g	UJ	T04, T06
CWC269704	CWC010	10/04/23	Gamma Spectroscopy	K-40	12.1	0.211	1.59	pCi/g	=	
CWC269704	CWC010	10/04/23	Alpha Spectroscopy	Th-228	1.33	0.2	0.42	pCi/g	=	
CWC269704	CWC010	10/04/23	Alpha Spectroscopy	Th-230	3.87	0.201	0.813	pCi/g	=	
CWC269704	CWC010	10/04/23	Alpha Spectroscopy	Th-232	0.789	0.2	0.314	pCi/g	=	
CWC269704	CWC010	10/04/23	Gamma Spectroscopy	U-235	0.0319	0.32	0.19	pCi/g	UJ	T04, T06
CWC269704	CWC010	10/04/23	Gamma Spectroscopy	U-238	0.878	0.34	0.163	pCi/g	=	
CWC269706	CWC011	10/04/23	Metals	Antimony	0.37	0.079		mg/kg	=	
CWC269706	CWC011	10/04/23	Metals	Arsenic	5.6	0.16		mg/kg	=	
CWC269706	CWC011	10/04/23	Metals	Barium	140	0.18		mg/kg	=	
CWC269706	CWC011	10/04/23	Metals	Cadmium	0.56	0.02		mg/kg	=	
CWC269706	CWC011	10/04/23	Metals	Chromium	21	0.38		mg/kg	=	
CWC269706	CWC011	10/04/23	Metals	Molybdenum	0.46	0.17		mg/kg	=	
CWC269706	CWC011	10/04/23	Metals	Nickel	17	0.19		mg/kg	=	
CWC269706	CWC011	10/04/23	Metals	Selenium	1.3	0.25		mg/kg	=	
CWC269706	CWC011	10/04/23	Metals	Thallium	0.16	0.03		mg/kg	=	
CWC269706	CWC011	10/04/23	Metals	Vanadium	19	0.53		mg/kg	=	
CWC269706	CWC011	10/04/23	Gamma Spectroscopy	Ac-227	0.207	0.309	0.175	pCi/g	UJ	T04, T05

Table E-2. CWC Sediment Data for CY 2023 (Continued)

Sample Name	Station Name	Collection Date	Method	Analyte	Result	DL	Error	Units	VQ	Validation Reason Code
CWC269706	CWC011	10/04/23	Gamma Spectroscopy	Pa-231	-0.222	1.06	0.638	pCi/g	UJ	T04, T06
CWC269706	CWC011	10/04/23	Gamma Spectroscopy	Ra-226	2.06	0.069	0.506	pCi/g	=	
CWC269706	CWC011	10/04/23	Gamma Spectroscopy	Ra-228	0.959	0.0606	0.115	pCi/g	=	
CWC269706	CWC011	10/04/23	Gamma Spectroscopy	Am-241	-0.0157	0.0568	0.0347	pCi/g	UJ	T04, T06
CWC269706	CWC011	10/04/23	Gamma Spectroscopy	Cs-137	0.0642	0.0204	0.0127	pCi/g	=	
CWC269706	CWC011	10/04/23	Gamma Spectroscopy	K-40	15.2	0.249	1.98	pCi/g	=	
CWC269706	CWC011	10/04/23	Alpha Spectroscopy	Th-228	1.43	0.164	0.445	pCi/g	=	
CWC269706	CWC011	10/04/23	Alpha Spectroscopy	Th-230	17.5	0.201	2.66	pCi/g	=	
CWC269706	CWC011	10/04/23	Alpha Spectroscopy	Th-232	1.72	0.208	0.497	pCi/g	J	Q02
CWC269706	CWC011	10/04/23	Gamma Spectroscopy	U-235	0.209	0.364	0.215	pCi/g	UJ	T04, T06
CWC269706	CWC011	10/04/23	Gamma Spectroscopy	U-238	1.25	0.408	0.209	pCi/g	=	

VQs

= - Indicates that the data met all QA/QC requirements, and that the parameter has been positively identified and the associated concentration value is accurate.

J - Indicates that the parameter was positively identified; the associated numerical value is the approximate concentration of the parameter in the sample.

U - Indicates that the data met all QA/QC requirements, and that the parameter was analyzed for but was not detected above the reported sample quantitation limit.

UJ - Indicates that the parameter was not detected above the reported sample quantitation limit and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample. However, the reported quantitation limit is approximate.

Validation Reason Codes:

E01 - Interference check sample recovery was outside the control limit.

E08 - Professional judgment was used to qualify the data.

F01 - Blanks: Sample data were qualified as a result of the method blank.

H01 - Matrix spike/matrix spike duplicate recovery was above the upper control limit.

H02 - Matrix spike/matrix spike duplicate recovery was below the lower control limit.

H04 - Matrix spike/matrix spike duplicate pairs exceed the RPD limit.

Q02 - Radiological field duplicate NAD was outside the control limit.

T04 - Radionuclide Quantitation: Professional judgment was used to qualify the data.

T05 - Radionuclide Quantitation: Analytical result is less than the associated MDA, but greater than the counting uncertainty.

T06 - Radionuclide Quantitation: Analytical result is less than both the associated counting uncertainty and MDA.

T20 - Radionuclide Quantitation: Analytical result is greater than the associated MDA, with uncertainty 50 percent to 100 percent of the result.

Table E-3. CWC Daily Surface Water Data for CY 2023

Sample Name	Station Name	Collection Date	Method	Analyte	Result	DL	Error	Units	VQ	Validation Reason Code
CWC267908	CWCHSD	07/24/23	Metals	Antimony	2		2	µg/L	U	
CWC267908	CWCHSD	07/24/23	Metals	Arsenic	3.1		1.6	µg/L	=	
CWC267908	CWCHSD	07/24/23	Metals	Barium	100		0.69	µg/L	=	
CWC267908	CWCHSD	07/24/23	Metals	Cadmium	0.2		0.2	µg/L	U	
CWC267908	CWCHSD	07/24/23	Metals	Chromium	4		4	µg/L	U	
CWC267908	CWCHSD	07/24/23	Metals	Molybdenum	9.6		2	µg/L	=	
CWC267908	CWCHSD	07/24/23	Metals	Nickel	2.3		2	µg/L	=	
CWC267908	CWCHSD	07/24/23	Metals	Selenium	2		2	µg/L	U	
CWC267908	CWCHSD	07/24/23	Metals	Thallium	0.13		0.13	µg/L	U	
CWC267908	CWCHSD	07/24/23	Metals	Vanadium	4		4	µg/L	U	
CWC267908	CWCHSD	07/24/23	Alpha Spectroscopy	Th-228	0.629	0.514	0.662	pCi/L	UJ	T04, T05
CWC267908	CWCHSD	07/24/23	Alpha Spectroscopy	Th-230	0.54	0.48	0.662	pCi/L	UJ	T04, T05
CWC267908	CWCHSD	07/24/23	Alpha Spectroscopy	Th-232	0.0898	0.254	0.661	pCi/L	UJ	T06
CWC267908	CWCHSD	07/24/23	Alpha Spectroscopy	Ra-226	0.281	0.314	0.517	pCi/L	UJ	T06
CWC267908	CWCHSD	07/24/23	Alpha Spectroscopy	U-234	0.401	0.382	0.551	pCi/L	UJ	T04, T05
CWC267908	CWCHSD	07/24/23	Alpha Spectroscopy	U-235	0	0.266	0.693	pCi/L	UJ	T06
CWC267908	CWCHSD	07/24/23	Alpha Spectroscopy	U-238	0.684	0.486	0.56	pCi/L	J	T04, T20
CWC267909	CWCHSD	07/25/23	Metals	Antimony	2		2	µg/L	U	
CWC267909	CWCHSD	07/25/23	Metals	Arsenic	3.4		1.6	µg/L	=	
CWC267909	CWCHSD	07/25/23	Metals	Barium	120		0.69	µg/L	=	
CWC267909	CWCHSD	07/25/23	Metals	Cadmium	0.2		0.2	µg/L	U	
CWC267909	CWCHSD	07/25/23	Metals	Chromium	4		4	µg/L	U	
CWC267909	CWCHSD	07/25/23	Metals	Molybdenum	9		2	µg/L	=	
CWC267909	CWCHSD	07/25/23	Metals	Nickel	2.6		2	µg/L	=	
CWC267909	CWCHSD	07/25/23	Metals	Selenium	2		2	µg/L	U	
CWC267909	CWCHSD	07/25/23	Metals	Thallium	0.13		0.13	µg/L	U	
CWC267909	CWCHSD	07/25/23	Metals	Vanadium	4		4	µg/L	U	
CWC267909	CWCHSD	07/25/23	Alpha Spectroscopy	Th-228	0.424	0.405	0.474	pCi/L	UJ	T04, T05
CWC267909	CWCHSD	07/25/23	Alpha Spectroscopy	Th-230	0.626	0.511	0.659	pCi/L	UJ	T04, T05
CWC267909	CWCHSD	07/25/23	Alpha Spectroscopy	Th-232	0.156	0.257	0.474	pCi/L	UJ	T06
CWC267909	CWCHSD	07/25/23	Alpha Spectroscopy	Ra-226	0.579	0.435	0.533	pCi/L	J	T04, T20
CWC267909	CWCHSD	07/25/23	Alpha Spectroscopy	U-234	0.547	0.38	0.332	pCi/L	J	T04, T20
CWC267909	CWCHSD	07/25/23	Alpha Spectroscopy	U-235	0	0.218	0.568	pCi/L	UJ	T06

Table E-3. CWC Daily Surface Water Data for CY 2023 (Continued)

Sample Name	Station Name	Collection Date	Method	Analyte	Result	DL	Error	Units	VQ	Validation Reason Code
CWC267909	CWCHSD	07/25/23	Alpha Spectroscopy	U-238	0.311	0.313	0.492	pCi/L	UJ	T06
CWC267910	CWCHSD	07/26/23	Metals	Antimony	2		2	µg/L	U	
CWC267910	CWCHSD	07/26/23	Metals	Arsenic	3.1		1.6	µg/L	=	
CWC267910	CWCHSD	07/26/23	Metals	Barium	90		0.69	µg/L	=	
CWC267910	CWCHSD	07/26/23	Metals	Cadmium	0.2		0.2	µg/L	U	
CWC267910	CWCHSD	07/26/23	Metals	Chromium	4		4	µg/L	U	
CWC267910	CWCHSD	07/26/23	Metals	Molybdenum	5.5		2	µg/L	=	
CWC267910	CWCHSD	07/26/23	Metals	Nickel	2.5		2	µg/L	=	
CWC267910	CWCHSD	07/26/23	Metals	Selenium	2		2	µg/L	U	
CWC267910	CWCHSD	07/26/23	Metals	Thallium	0.13		0.13	µg/L	U	
CWC267910	CWCHSD	07/26/23	Metals	Vanadium	4.1		4	µg/L	=	
CWC267910	CWCHSD	07/26/23	Alpha Spectroscopy	Th-228	0.538	0.407	0.495	pCi/L	J	F01, T04, T20
CWC267910	CWCHSD	07/26/23	Alpha Spectroscopy	Th-230	0.522	0.386	0.357	pCi/L	J	F01, T04, T20
CWC267910	CWCHSD	07/26/23	Alpha Spectroscopy	Th-232	-0.0168	0.138	0.357	pCi/L	UJ	T06
CWC267910	CWCHSD	07/26/23	Alpha Spectroscopy	Ra-226	0.293	0.328	0.539	pCi/L	UJ	T06
CWC267910	CWCHSD	07/26/23	Alpha Spectroscopy	U-234	0.356	0.307	0.329	pCi/L	J	T04, T20
CWC267910	CWCHSD	07/26/23	Alpha Spectroscopy	U-235	0.0382	0.162	0.488	pCi/L	UJ	T06
CWC267910	CWCHSD	07/26/23	Alpha Spectroscopy	U-238	0.355	0.306	0.328	pCi/L	J	T04, T20
CWC267911	CWCHSD	07/27/23	Metals	Antimony	2		2	µg/L	U	
CWC267911	CWCHSD	07/27/23	Metals	Arsenic	3.4		1.6	µg/L	=	
CWC267911	CWCHSD	07/27/23	Metals	Barium	94		0.69	µg/L	=	
CWC267911	CWCHSD	07/27/23	Metals	Cadmium	0.2		0.2	µg/L	U	
CWC267911	CWCHSD	07/27/23	Metals	Chromium	4		4	µg/L	U	
CWC267911	CWCHSD	07/27/23	Metals	Molybdenum	5.7		2	µg/L	=	
CWC267911	CWCHSD	07/27/23	Metals	Nickel	2.4		2	µg/L	=	
CWC267911	CWCHSD	07/27/23	Metals	Selenium	2		2	µg/L	U	
CWC267911	CWCHSD	07/27/23	Metals	Thallium	0.13		0.13	µg/L	U	
CWC267911	CWCHSD	07/27/23	Metals	Vanadium	4		4	µg/L	U	
CWC267911	CWCHSD	07/27/23	Alpha Spectroscopy	Th-228	0.0857	0.243	0.631	pCi/L	UJ	T06
CWC267911	CWCHSD	07/27/23	Alpha Spectroscopy	Th-230	0.257	0.403	0.863	pCi/L	UJ	T06
CWC267911	CWCHSD	07/27/23	Alpha Spectroscopy	Th-232	-0.0428	0.182	0.547	pCi/L	UJ	T06
CWC267911	CWCHSD	07/27/23	Alpha Spectroscopy	Ra-226	0.705	0.479	0.593	pCi/L	J	T04, T20
CWC267911	CWCHSD	07/27/23	Alpha Spectroscopy	U-234	0.601	0.445	0.412	pCi/L	J	T04, T20
CWC267911	CWCHSD	07/27/23	Alpha Spectroscopy	U-235	-0.0478	0.203	0.611	pCi/L	UJ	T06

Table E-3. CWC Daily Surface Water Data for CY 2023 (Continued)

Sample Name	Station Name	Collection Date	Method	Analyte	Result	DL	Error	Units	VQ	Validation Reason Code
CWC267911	CWCHSD	07/27/23	Alpha Spectroscopy	U-238	0.0579	0.159	0.41	pCi/L	UJ	T06
CWC267912	CWCHSD	07/31/23	Metals	Antimony	2		2	µg/L	U	
CWC267912	CWCHSD	07/31/23	Metals	Arsenic	2.8		1.6	µg/L	=	
CWC267912	CWCHSD	07/31/23	Metals	Barium	52		0.69	µg/L	=	
CWC267912	CWCHSD	07/31/23	Metals	Cadmium	0.2		0.2	µg/L	U	
CWC267912	CWCHSD	07/31/23	Metals	Chromium	4		4	µg/L	U	
CWC267912	CWCHSD	07/31/23	Metals	Molybdenum	4		2	µg/L	=	
CWC267912	CWCHSD	07/31/23	Metals	Nickel	2		2	µg/L	=	
CWC267912	CWCHSD	07/31/23	Metals	Selenium	2		2	µg/L	U	
CWC267912	CWCHSD	07/31/23	Metals	Thallium	0.13		0.13	µg/L	U	
CWC267912	CWCHSD	07/31/23	Metals	Vanadium	4		4	µg/L	U	
CWC267912	CWCHSD	07/31/23	Alpha Spectroscopy	Th-228	0.764	0.514	0.562	pCi/L	J	F01, T04, T20
CWC267912	CWCHSD	07/31/23	Alpha Spectroscopy	Th-230	0.497	0.412	0.488	pCi/L	J	F01, T04, T20
CWC267912	CWCHSD	07/31/23	Alpha Spectroscopy	Th-232	-0.0191	0.157	0.405	pCi/L	UJ	T06
CWC267912	CWCHSD	07/31/23	Alpha Spectroscopy	Ra-226	0.24	0.328	0.663	pCi/L	UJ	T06
CWC267912	CWCHSD	07/31/23	Alpha Spectroscopy	U-234	0.214	0.286	0.524	pCi/L	UJ	T06
CWC267912	CWCHSD	07/31/23	Alpha Spectroscopy	U-235	-0.0219	0.181	0.466	pCi/L	UJ	T06
CWC267912	CWCHSD	07/31/23	Alpha Spectroscopy	U-238	0.0709	0.201	0.522	pCi/L	UJ	T06
CWC267913	CWCHSD	08/01/23	Metals	Antimony	2		2	µg/L	U	
CWC267913	CWCHSD	08/01/23	Metals	Arsenic	3		1.6	µg/L	=	
CWC267913	CWCHSD	08/01/23	Metals	Barium	61		0.69	µg/L	=	
CWC267913	CWCHSD	08/01/23	Metals	Cadmium	0.2		0.2	µg/L	U	
CWC267913	CWCHSD	08/01/23	Metals	Chromium	4		4	µg/L	U	
CWC267913	CWCHSD	08/01/23	Metals	Molybdenum	4.4		2	µg/L	=	
CWC267913	CWCHSD	08/01/23	Metals	Nickel	2.1		2	µg/L	=	
CWC267913	CWCHSD	08/01/23	Metals	Selenium	2		2	µg/L	U	
CWC267913	CWCHSD	08/01/23	Metals	Thallium	0.13		0.13	µg/L	U	
CWC267913	CWCHSD	08/01/23	Metals	Vanadium	4		4	µg/L	U	
CWC267913	CWCHSD	08/01/23	Alpha Spectroscopy	Th-228	0.394	0.399	0.559	pCi/L	UJ	T06
CWC267913	CWCHSD	08/01/23	Alpha Spectroscopy	Th-230	0.789	0.562	0.645	pCi/L	J	F01, T04, T20
CWC267913	CWCHSD	08/01/23	Alpha Spectroscopy	Th-232	0	0.248	0.644	pCi/L	UJ	T06
CWC267913	CWCHSD	08/01/23	Alpha Spectroscopy	Ra-226	0.232	0.357	0.776	pCi/L	UJ	T06
CWC267913	CWCHSD	08/01/23	Alpha Spectroscopy	U-234	0.189	0.242	0.365	pCi/L	UJ	T06
CWC267913	CWCHSD	08/01/23	Alpha Spectroscopy	U-235	0.17	0.295	0.625	pCi/L	UJ	T06

Table E-3. CWC Daily Surface Water Data for CY 2023 (Continued)

Sample Name	Station Name	Collection Date	Method	Analyte	Result	DL	Error	Units	VQ	Validation Reason Code
CWC267913	CWCHSD	08/01/23	Alpha Spectroscopy	U-238	0.206	0.275	0.504	pCi/L	UJ	T06
CWC267914	CWCHSD	08/03/23	Metals	Antimony	2		2	µg/L	U	
CWC267914	CWCHSD	08/03/23	Metals	Arsenic	2		1.6	µg/L	=	
CWC267914	CWCHSD	08/03/23	Metals	Barium	47		0.69	µg/L	=	
CWC267914	CWCHSD	08/03/23	Metals	Cadmium	0.2		0.2	µg/L	=	
CWC267914	CWCHSD	08/03/23	Metals	Chromium	4		4	µg/L	U	
CWC267914	CWCHSD	08/03/23	Metals	Molybdenum	5.5		2	µg/L	=	
CWC267914	CWCHSD	08/03/23	Metals	Nickel	2		2	µg/L	=	
CWC267914	CWCHSD	08/03/23	Metals	Selenium	2		2	µg/L	U	
CWC267914	CWCHSD	08/03/23	Metals	Thallium	0.13		0.13	µg/L	U	
CWC267914	CWCHSD	08/03/23	Metals	Vanadium	4		4	µg/L	U	
CWC267914	CWCHSD	08/03/23	Alpha Spectroscopy	Th-228	0.531	0.433	0.558	pCi/L	UJ	T04, T05
CWC267914	CWCHSD	08/03/23	Alpha Spectroscopy	Th-230	0.684	0.486	0.559	pCi/L	J	F01, T04, T20
CWC267914	CWCHSD	08/03/23	Alpha Spectroscopy	Th-232	0.0569	0.156	0.403	pCi/L	UJ	T06
CWC267914	CWCHSD	08/03/23	Alpha Spectroscopy	Ra-226	0.617	0.476	0.738	pCi/L	UJ	T04, T05
CWC267914	CWCHSD	08/03/23	Alpha Spectroscopy	U-234	0.158	0.274	0.581	pCi/L	UJ	T06
CWC267914	CWCHSD	08/03/23	Alpha Spectroscopy	U-235	0.0974	0.276	0.717	pCi/L	UJ	T06
CWC267914	CWCHSD	08/03/23	Alpha Spectroscopy	U-238	0.0786	0.223	0.579	pCi/L	UJ	T06
CWC267915	CWCHSD	08/07/23	Metals	Antimony	2		2	µg/L	U	
CWC267915	CWCHSD	08/07/23	Metals	Arsenic	1.9		1.6	µg/L	=	
CWC267915	CWCHSD	08/07/23	Metals	Barium	57		0.69	µg/L	=	
CWC267915	CWCHSD	08/07/23	Metals	Cadmium	0.2		0.2	µg/L	U	E01, E08
CWC267915	CWCHSD	08/07/23	Metals	Chromium	4		4	µg/L	U	
CWC267915	CWCHSD	08/07/23	Metals	Molybdenum	6.8		2	µg/L	=	
CWC267915	CWCHSD	08/07/23	Metals	Nickel	2		2	µg/L	U	
CWC267915	CWCHSD	08/07/23	Metals	Selenium	2		2	µg/L	U	
CWC267915	CWCHSD	08/07/23	Metals	Thallium	0.13		0.13	µg/L	U	
CWC267915	CWCHSD	08/07/23	Metals	Vanadium	4		4	µg/L	U	
CWC267915	CWCHSD	08/07/23	Alpha Spectroscopy	Th-228	0.48	0.391	0.504	pCi/L	UJ	T04, T05
CWC267915	CWCHSD	08/07/23	Alpha Spectroscopy	Th-230	0.412	0.366	0.505	pCi/L	UJ	T04, T05
CWC267915	CWCHSD	08/07/23	Alpha Spectroscopy	Th-232	0.12	0.197	0.364	pCi/L	UJ	T06
CWC267915	CWCHSD	08/07/23	Alpha Spectroscopy	Ra-226	0.0304	0.251	0.712	pCi/L	UJ	T06
CWC267915	CWCHSD	08/07/23	Alpha Spectroscopy	U-234	0.379	0.344	0.441	pCi/L	UJ	T04, T05
CWC267915	CWCHSD	08/07/23	Alpha Spectroscopy	U-235	0	0.241	0.626	pCi/L	UJ	T06

Table E-3. CWC Daily Surface Water Data for CY 2023 (Continued)

Sample Name	Station Name	Collection Date	Method	Analyte	Result	DL	Error	Units	VQ	Validation Reason Code
CWC267915	CWCHSD	08/07/23	Alpha Spectroscopy	U-238	0.343	0.338	0.506	pCi/L	UJ	T04, T05
CWC267916	CWCHSD	08/08/23	Metals	Antimony	2		2	µg/L	U	
CWC267916	CWCHSD	08/08/23	Metals	Arsenic	2.6		1.6	µg/L	=	
CWC267916	CWCHSD	08/08/23	Metals	Barium	86		0.69	µg/L	=	
CWC267916	CWCHSD	08/08/23	Metals	Cadmium	0.2		0.2	µg/L	U	E01, E08
CWC267916	CWCHSD	08/08/23	Metals	Chromium	4		4	µg/L	U	
CWC267916	CWCHSD	08/08/23	Metals	Molybdenum	8.7		2	µg/L	=	
CWC267916	CWCHSD	08/08/23	Metals	Nickel	2		2	µg/L	U	
CWC267916	CWCHSD	08/08/23	Metals	Selenium	2		2	µg/L	U	
CWC267916	CWCHSD	08/08/23	Metals	Thallium	0.13		0.13	µg/L	U	
CWC267916	CWCHSD	08/08/23	Metals	Vanadium	4		4	µg/L	U	
CWC267916	CWCHSD	08/08/23	Alpha Spectroscopy	Th-228	0.126	0.346	0.889	pCi/L	UJ	T06
CWC267916	CWCHSD	08/08/23	Alpha Spectroscopy	Th-230	0.964	0.838	0.89	pCi/L	J	F01, T04, T20
CWC267916	CWCHSD	08/08/23	Alpha Spectroscopy	Th-232	0.167	0.474	1.23	pCi/L	UJ	T06
CWC267916	CWCHSD	08/08/23	Alpha Spectroscopy	Ra-226	0	0.225	0.699	pCi/L	UJ	T06
CWC267916	CWCHSD	08/08/23	Alpha Spectroscopy	U-234	0.287	0.291	0.408	pCi/L	UJ	T06
CWC267916	CWCHSD	08/08/23	Alpha Spectroscopy	U-235	0	0.223	0.58	pCi/L	UJ	T06
CWC267916	CWCHSD	08/08/23	Alpha Spectroscopy	U-238	0.382	0.339	0.468	pCi/L	UJ	T04, T05
CWC267917	CWCHSD	08/09/23	Metals	Antimony	2		2	µg/L	U	
CWC267917	CWCHSD	08/09/23	Metals	Arsenic	2.6		1.6	µg/L	=	
CWC267917	CWCHSD	08/09/23	Metals	Barium	89		0.69	µg/L	=	
CWC267917	CWCHSD	08/09/23	Metals	Cadmium	0.2		0.2	µg/L	U	E01, E08
CWC267917	CWCHSD	08/09/23	Metals	Chromium	4		4	µg/L	U	
CWC267917	CWCHSD	08/09/23	Metals	Molybdenum	7.4		2	µg/L	=	
CWC267917	CWCHSD	08/09/23	Metals	Nickel	2		2	µg/L	U	
CWC267917	CWCHSD	08/09/23	Metals	Selenium	2		2	µg/L	U	
CWC267917	CWCHSD	08/09/23	Metals	Thallium	0.13		0.13	µg/L	U	
CWC267917	CWCHSD	08/09/23	Metals	Vanadium	4		4	µg/L	U	
CWC267917	CWCHSD	08/09/23	Alpha Spectroscopy	Th-228	0.686	0.547	0.54	pCi/L	J	F01, T04, T20
CWC267917	CWCHSD	08/09/23	Alpha Spectroscopy	Th-230	0.611	0.544	0.749	pCi/L	UJ	T04, T05
CWC267917	CWCHSD	08/09/23	Alpha Spectroscopy	Th-232	0.0762	0.21	0.54	pCi/L	UJ	T06
CWC267917	CWCHSD	08/09/23	Alpha Spectroscopy	Ra-226	0.159	0.23	0.429	pCi/L	UJ	T06
CWC267917	CWCHSD	08/09/23	Alpha Spectroscopy	U-234	0.19	0.243	0.367	pCi/L	UJ	T06
CWC267917	CWCHSD	08/09/23	Alpha Spectroscopy	U-235	0	0.241	0.627	pCi/L	UJ	T06

Table E-3. CWC Daily Surface Water Data for CY 2023 (Continued)

Sample Name	Station Name	Collection Date	Method	Analyte	Result	DL	Error	Units	VQ	Validation Reason Code
CWC267917	CWCHSD	08/09/23	Alpha Spectroscopy	U-238	0.447	0.37	0.439	pCi/L	J	T04, T20
CWC267918	CWCHSD	08/10/23	Metals	Antimony	2		2	µg/L	U	
CWC267918	CWCHSD	08/10/23	Metals	Arsenic	2.5		1.6	µg/L	=	
CWC267918	CWCHSD	08/10/23	Metals	Barium	81		0.69	µg/L	=	
CWC267918	CWCHSD	08/10/23	Metals	Cadmium	0.2		0.2	µg/L	U	E01, E08
CWC267918	CWCHSD	08/10/23	Metals	Chromium	4		4	µg/L	U	
CWC267918	CWCHSD	08/10/23	Metals	Molybdenum	7.3		2	µg/L	=	
CWC267918	CWCHSD	08/10/23	Metals	Nickel	2		2	µg/L	U	
CWC267918	CWCHSD	08/10/23	Metals	Selenium	2		2	µg/L	U	
CWC267918	CWCHSD	08/10/23	Metals	Thallium	0.13		0.13	µg/L	U	
CWC267918	CWCHSD	08/10/23	Metals	Vanadium	4		4	µg/L	U	
CWC267918	CWCHSD	08/10/23	Alpha Spectroscopy	Th-228	0.71	0.495	0.431	pCi/L	J	F01, T04, T20
CWC267918	CWCHSD	08/10/23	Alpha Spectroscopy	Th-230	0.731	0.521	0.598	pCi/L	J	F01, T04, T20
CWC267918	CWCHSD	08/10/23	Alpha Spectroscopy	Th-232	0.0608	0.167	0.431	pCi/L	UJ	T06
CWC267918	CWCHSD	08/10/23	Alpha Spectroscopy	Ra-226	-0.295	0.276	1.14	pCi/L	UJ	T06
CWC267918	CWCHSD	08/10/23	Alpha Spectroscopy	U-234	0.468	0.372	0.465	pCi/L	J	T04, T20
CWC267918	CWCHSD	08/10/23	Alpha Spectroscopy	U-235	-0.0597	0.174	0.574	pCi/L	UJ	T06
CWC267918	CWCHSD	08/10/23	Alpha Spectroscopy	U-238	0.177	0.225	0.341	pCi/L	UJ	T06
CWC267919	CWCHSD	08/14/23	Metals	Antimony	2		2	µg/L	U	
CWC267919	CWCHSD	08/14/23	Metals	Arsenic	2.2		1.6	µg/L	=	
CWC267919	CWCHSD	08/14/23	Metals	Barium	55		0.69	µg/L	=	
CWC267919	CWCHSD	08/14/23	Metals	Cadmium	0.2		0.2	µg/L	U	
CWC267919	CWCHSD	08/14/23	Metals	Chromium	4.3		4	µg/L	=	
CWC267919	CWCHSD	08/14/23	Metals	Molybdenum	2.2		2	µg/L	=	
CWC267919	CWCHSD	08/14/23	Metals	Nickel	3.6		2	µg/L	=	
CWC267919	CWCHSD	08/14/23	Metals	Selenium	2		2	µg/L	U	
CWC267919	CWCHSD	08/14/23	Metals	Thallium	0.13		0.13	µg/L	U	
CWC267919	CWCHSD	08/14/23	Metals	Vanadium	8.8		4	µg/L	=	
CWC267919	CWCHSD	08/14/23	Alpha Spectroscopy	Th-228	0.211	0.367	0.777	pCi/L	UJ	T06
CWC267919	CWCHSD	08/14/23	Alpha Spectroscopy	Th-230	1.24	0.75	0.561	pCi/L	J	F01, T04, T20
CWC267919	CWCHSD	08/14/23	Alpha Spectroscopy	Th-232	0.316	0.424	0.776	pCi/L	UJ	T06
CWC267919	CWCHSD	08/14/23	Alpha Spectroscopy	Ra-226	0.101	0.321	0.852	pCi/L	UJ	T06
CWC267919	CWCHSD	08/14/23	Alpha Spectroscopy	U-234	0.147	0.255	0.541	pCi/L	UJ	T06
CWC267919	CWCHSD	08/14/23	Alpha Spectroscopy	U-235	0.182	0.315	0.668	pCi/L	UJ	T06

Table E-3. CWC Daily Surface Water Data for CY 2023 (Continued)

Sample Name	Station Name	Collection Date	Method	Analyte	Result	DL	Error	Units	VQ	Validation Reason Code
CWC267919	CWCHSD	08/14/23	Alpha Spectroscopy	U-238	0	0.207	0.539	pCi/L	UJ	T06
CWC267920	CWCHSD	08/15/23	Metals	Antimony	2		2	µg/L	U	
CWC267920	CWCHSD	08/15/23	Metals	Arsenic	2.6		1.6	µg/L	=	
CWC267920	CWCHSD	08/15/23	Metals	Barium	52		0.69	µg/L	=	
CWC267920	CWCHSD	08/15/23	Metals	Cadmium	0.2		0.2	µg/L	U	
CWC267920	CWCHSD	08/15/23	Metals	Chromium	4		4	µg/L	U	
CWC267920	CWCHSD	08/15/23	Metals	Molybdenum	3.2		2	µg/L	=	
CWC267920	CWCHSD	08/15/23	Metals	Nickel	2		2	µg/L	U	
CWC267920	CWCHSD	08/15/23	Metals	Selenium	2		2	µg/L	U	
CWC267920	CWCHSD	08/15/23	Metals	Thallium	0.13		0.13	µg/L	U	
CWC267920	CWCHSD	08/15/23	Metals	Vanadium	4		4	µg/L	U	
CWC267920	CWCHSD	08/15/23	Alpha Spectroscopy	Th-228	0.268	0.29	0.38	pCi/L	UJ	T06
CWC267920	CWCHSD	08/15/23	Alpha Spectroscopy	Th-230	1	0.565	0.527	pCi/L	J	F01, T04, T20
CWC267920	CWCHSD	08/15/23	Alpha Spectroscopy	Th-232	0.0715	0.202	0.526	pCi/L	UJ	T06
CWC267920	CWCHSD	08/15/23	Alpha Spectroscopy	Ra-226	-0.189	0.268	1.02	pCi/L	UJ	T06
CWC267920	CWCHSD	08/15/23	Alpha Spectroscopy	U-234	0.0772	0.218	0.568	pCi/L	UJ	T06
CWC267920	CWCHSD	08/15/23	Alpha Spectroscopy	U-235	-0.0238	0.196	0.505	pCi/L	UJ	T06
CWC267920	CWCHSD	08/15/23	Alpha Spectroscopy	U-238	0	0.217	0.565	pCi/L	UJ	T06
CWC267921	CWCHSD	08/16/23	Metals	Antimony	2		2	µg/L	U	
CWC267921	CWCHSD	08/16/23	Metals	Arsenic	2.3		1.6	µg/L	=	
CWC267921	CWCHSD	08/16/23	Metals	Barium	59		0.69	µg/L	=	
CWC267921	CWCHSD	08/16/23	Metals	Cadmium	0.2		0.2	µg/L	U	
CWC267921	CWCHSD	08/16/23	Metals	Chromium	4		4	µg/L	U	
CWC267921	CWCHSD	08/16/23	Metals	Molybdenum	5.2		2	µg/L	=	
CWC267921	CWCHSD	08/16/23	Metals	Nickel	2		2	µg/L	U	
CWC267921	CWCHSD	08/16/23	Metals	Selenium	2		2	µg/L	U	
CWC267921	CWCHSD	08/16/23	Metals	Thallium	0.13		0.13	µg/L	U	
CWC267921	CWCHSD	08/16/23	Metals	Vanadium	4		4	µg/L	U	
CWC267921	CWCHSD	08/16/23	Alpha Spectroscopy	Th-228	0.212	0.283	0.519	pCi/L	UJ	T06
CWC267921	CWCHSD	08/16/23	Alpha Spectroscopy	Th-230	0.547	0.405	0.375	pCi/L	J	F01, T04, T20
CWC267921	CWCHSD	08/16/23	Alpha Spectroscopy	Th-232	0.0705	0.199	0.519	pCi/L	UJ	T06
CWC267921	CWCHSD	08/16/23	Alpha Spectroscopy	Ra-226	0.339	0.489	0.914	pCi/L	UJ	T06
CWC267921	CWCHSD	08/16/23	Alpha Spectroscopy	U-234	0.657	0.498	0.604	pCi/L	J	T04, T20
CWC267921	CWCHSD	08/16/23	Alpha Spectroscopy	U-235	0.203	0.352	0.746	pCi/L	UJ	T06

Table E-3. CWC Daily Surface Water Data for CY 2023 (Continued)

Sample Name	Station Name	Collection Date	Method	Analyte	Result	DL	Error	Units	VQ	Validation Reason Code
CWC267921	CWCHSD	08/16/23	Alpha Spectroscopy	U-238	0.0818	0.231	0.602	pCi/L	UJ	T06
CWC267922	CWCHSD	08/17/23	Metals	Antimony	2		2	µg/L	U	
CWC267922	CWCHSD	08/17/23	Metals	Arsenic	2.4		1.6	µg/L	=	
CWC267922	CWCHSD	08/17/23	Metals	Barium	70		0.69	µg/L	=	
CWC267922	CWCHSD	08/17/23	Metals	Cadmium	0.2		0.2	µg/L	U	
CWC267922	CWCHSD	08/17/23	Metals	Chromium	4		4	µg/L	U	
CWC267922	CWCHSD	08/17/23	Metals	Molybdenum	7		2	µg/L	=	
CWC267922	CWCHSD	08/17/23	Metals	Nickel	2		2	µg/L	U	
CWC267922	CWCHSD	08/17/23	Metals	Selenium	2		2	µg/L	U	
CWC267922	CWCHSD	08/17/23	Metals	Thallium	0.13		0.13	µg/L	U	
CWC267922	CWCHSD	08/17/23	Metals	Vanadium	4		4	µg/L	U	
CWC267922	CWCHSD	08/17/23	Alpha Spectroscopy	Th-228	0.642	0.524	0.675	pCi/L	UJ	T04, T05
CWC267922	CWCHSD	08/17/23	Alpha Spectroscopy	Th-230	0.551	0.49	0.676	pCi/L	UJ	T04, T05
CWC267922	CWCHSD	08/17/23	Alpha Spectroscopy	Th-232	0.0916	0.259	0.674	pCi/L	UJ	T06
CWC267922	CWCHSD	08/17/23	Alpha Spectroscopy	Ra-226	0.0532	0.238	0.717	pCi/L	UJ	T06
CWC267922	CWCHSD	08/17/23	Alpha Spectroscopy	U-234	0.584	0.52	0.717	pCi/L	UJ	T04, T05
CWC267922	CWCHSD	08/17/23	Alpha Spectroscopy	U-235	0	0.34	0.884	pCi/L	UJ	T06
CWC267922	CWCHSD	08/17/23	Alpha Spectroscopy	U-238	0.388	0.436	0.714	pCi/L	UJ	T06
CWC267923	CWCHSD	08/21/23	Metals	Antimony	2		2	µg/L	U	
CWC267923	CWCHSD	08/21/23	Metals	Arsenic	2.7		1.6	µg/L	=	
CWC267923	CWCHSD	08/21/23	Metals	Barium	100		0.69	µg/L	=	
CWC267923	CWCHSD	08/21/23	Metals	Cadmium	0.2		0.2	µg/L	U	
CWC267923	CWCHSD	08/21/23	Metals	Chromium	4		4	µg/L	U	
CWC267923	CWCHSD	08/21/23	Metals	Molybdenum	6		2	µg/L	=	
CWC267923	CWCHSD	08/21/23	Metals	Nickel	2		2	µg/L	=	
CWC267923	CWCHSD	08/21/23	Metals	Selenium	2		2	µg/L	U	
CWC267923	CWCHSD	08/21/23	Metals	Thallium	0.13		0.13	µg/L	U	
CWC267923	CWCHSD	08/21/23	Metals	Vanadium	4		4	µg/L	U	
CWC267923	CWCHSD	08/21/23	Alpha Spectroscopy	Th-228	0.295	0.332	0.543	pCi/L	UJ	T06
CWC267923	CWCHSD	08/21/23	Alpha Spectroscopy	Th-230	0.813	0.52	0.544	pCi/L	J	F01, T04, T20
CWC267923	CWCHSD	08/21/23	Alpha Spectroscopy	Th-232	0.148	0.256	0.543	pCi/L	UJ	T06
CWC267923	CWCHSD	08/21/23	Alpha Spectroscopy	Ra-226	-0.106	0.3	1.14	pCi/L	UJ	T06
CWC267923	CWCHSD	08/21/23	Alpha Spectroscopy	U-234	0.626	0.51	0.658	pCi/L	UJ	T04, T05
CWC267923	CWCHSD	08/21/23	Alpha Spectroscopy	U-235	-0.0827	0.24	0.795	pCi/L	UJ	T06

Table E-3. CWC Daily Surface Water Data for CY 2023 (Continued)

Sample Name	Station Name	Collection Date	Method	Analyte	Result	DL	Error	Units	VQ	Validation Reason Code
CWC267923	CWCHSD	08/21/23	Alpha Spectroscopy	U-238	0.69	0.511	0.472	pCi/L	J	T04, T20
CWC267924	CWCHSD	08/22/23	Metals	Antimony	2		2	µg/L	U	
CWC267924	CWCHSD	08/22/23	Metals	Arsenic	3		1.6	µg/L	=	
CWC267924	CWCHSD	08/22/23	Metals	Barium	100		0.69	µg/L	=	
CWC267924	CWCHSD	08/22/23	Metals	Cadmium	0.2		0.2	µg/L	U	
CWC267924	CWCHSD	08/22/23	Metals	Chromium	4		4	µg/L	U	
CWC267924	CWCHSD	08/22/23	Metals	Molybdenum	5.8		2	µg/L	=	
CWC267924	CWCHSD	08/22/23	Metals	Nickel	2		2	µg/L	U	
CWC267924	CWCHSD	08/22/23	Metals	Selenium	2		2	µg/L	U	
CWC267924	CWCHSD	08/22/23	Metals	Thallium	0.13		0.13	µg/L	U	
CWC267924	CWCHSD	08/22/23	Metals	Vanadium	4		4	µg/L	U	
CWC267924	CWCHSD	08/22/23	Alpha Spectroscopy	Th-228	0.28	0.314	0.515	pCi/L	UJ	T06
CWC267924	CWCHSD	08/22/23	Alpha Spectroscopy	Th-230	1.05	0.572	0.515	pCi/L	J	F01, T04, T20
CWC267924	CWCHSD	08/22/23	Alpha Spectroscopy	Th-232	0.0524	0.144	0.371	pCi/L	UJ	T06
CWC267924	CWCHSD	08/22/23	Alpha Spectroscopy	Ra-226	0.0481	0.215	0.649	pCi/L	UJ	T06
CWC267924	CWCHSD	08/22/23	Alpha Spectroscopy	U-234	0.476	0.47	0.701	pCi/L	UJ	T04, T05
CWC267924	CWCHSD	08/22/23	Alpha Spectroscopy	U-235	0.117	0.332	0.865	pCi/L	UJ	T06
CWC267924	CWCHSD	08/22/23	Alpha Spectroscopy	U-238	0.569	0.506	0.698	pCi/L	UJ	T04, T05
CWC267925	CWCHSD	08/23/23	Metals	Antimony	2		2	µg/L	U	
CWC267925	CWCHSD	08/23/23	Metals	Arsenic	3.1		1.6	µg/L	=	
CWC267925	CWCHSD	08/23/23	Metals	Barium	110		0.69	µg/L	=	
CWC267925	CWCHSD	08/23/23	Metals	Cadmium	0.2		0.2	µg/L	U	
CWC267925	CWCHSD	08/23/23	Metals	Chromium	4		4	µg/L	U	
CWC267925	CWCHSD	08/23/23	Metals	Molybdenum	5.4		2	µg/L	=	
CWC267925	CWCHSD	08/23/23	Metals	Nickel	2		2	µg/L	=	
CWC267925	CWCHSD	08/23/23	Metals	Selenium	2		2	µg/L	U	
CWC267925	CWCHSD	08/23/23	Metals	Thallium	0.13		0.13	µg/L	U	
CWC267925	CWCHSD	08/23/23	Metals	Vanadium	4		4	µg/L	U	
CWC267925	CWCHSD	08/23/23	Alpha Spectroscopy	Th-228	0.25	0.435	0.921	pCi/L	UJ	T06
CWC267925	CWCHSD	08/23/23	Alpha Spectroscopy	Th-230	0.564	0.572	0.8	pCi/L	UJ	T06
CWC267925	CWCHSD	08/23/23	Alpha Spectroscopy	Th-232	-0.0313	0.258	0.664	pCi/L	UJ	T06
CWC267925	CWCHSD	08/23/23	Alpha Spectroscopy	Ra-226	0.0785	0.222	0.578	pCi/L	UJ	T06
CWC267925	CWCHSD	08/23/23	Alpha Spectroscopy	U-234	0.763	0.503	0.415	pCi/L	J	T04, T20
CWC267925	CWCHSD	08/23/23	Alpha Spectroscopy	U-235	-0.0241	0.199	0.512	pCi/L	UJ	T06

Table E-3. CWC Daily Surface Water Data for CY 2023 (Continued)

Sample Name	Station Name	Collection Date	Method	Analyte	Result	DL	Error	Units	VQ	Validation Reason Code
CWC267925	CWCHSD	08/23/23	Alpha Spectroscopy	U-238	0.526	0.418	0.414	pCi/L	J	T04, T20
CWC267926	CWCHSD	08/24/23	Metals	Antimony	2		2	µg/L	U	
CWC267926	CWCHSD	08/24/23	Metals	Arsenic	3.4		1.6	µg/L	=	
CWC267926	CWCHSD	08/24/23	Metals	Barium	100		0.69	µg/L	=	
CWC267926	CWCHSD	08/24/23	Metals	Cadmium	0.2		0.2	µg/L	U	
CWC267926	CWCHSD	08/24/23	Metals	Chromium	4		4	µg/L	U	
CWC267926	CWCHSD	08/24/23	Metals	Molybdenum	5.5		2	µg/L	=	
CWC267926	CWCHSD	08/24/23	Metals	Nickel	2.1		2	µg/L	=	
CWC267926	CWCHSD	08/24/23	Metals	Selenium	2		2	µg/L	U	
CWC267926	CWCHSD	08/24/23	Metals	Thallium	0.13		0.13	µg/L	U	
CWC267926	CWCHSD	08/24/23	Metals	Vanadium	4.1		4	µg/L	=	
CWC267926	CWCHSD	08/24/23	Alpha Spectroscopy	Th-228	0.335	0.337	0.53	pCi/L	UJ	T06
CWC267926	CWCHSD	08/24/23	Alpha Spectroscopy	Th-230	0.805	0.492	0.494	pCi/L	J	F01, T04, T20
CWC267926	CWCHSD	08/24/23	Alpha Spectroscopy	Th-232	0.201	0.269	0.493	pCi/L	UJ	T06
CWC267926	CWCHSD	08/24/23	Alpha Spectroscopy	Ra-226	0.0948	0.268	0.698	pCi/L	UJ	T06
CWC267926	CWCHSD	08/24/23	Alpha Spectroscopy	U-234	0.455	0.461	0.646	pCi/L	UJ	T06
CWC267926	CWCHSD	08/24/23	Alpha Spectroscopy	U-235	0.125	0.353	0.919	pCi/L	UJ	T06
CWC267926	CWCHSD	08/24/23	Alpha Spectroscopy	U-238	0.378	0.408	0.535	pCi/L	UJ	T06
CWC267927	CWCHSD	08/28/23	Metals	Antimony	0.81		0.29	µg/L	=	
CWC267927	CWCHSD	08/28/23	Metals	Arsenic	2.2		1.6	µg/L	=	
CWC267927	CWCHSD	08/28/23	Metals	Barium	54		0.69	µg/L	=	
CWC267927	CWCHSD	08/28/23	Metals	Cadmium	0.06		0.06	µg/L	U	
CWC267927	CWCHSD	08/28/23	Metals	Chromium	1.6		1.3	µg/L	=	
CWC267927	CWCHSD	08/28/23	Metals	Molybdenum	4.9		2	µg/L	=	
CWC267927	CWCHSD	08/28/23	Metals	Nickel	2		0.89	µg/L	=	
CWC267927	CWCHSD	08/28/23	Metals	Selenium	0.67		0.67	µg/L	U	
CWC267927	CWCHSD	08/28/23	Metals	Thallium	0.38		0.38	µg/L	U	
CWC267927	CWCHSD	08/28/23	Metals	Vanadium	4		4	µg/L	U	
CWC267927	CWCHSD	08/28/23	Alpha Spectroscopy	Th-228	0.574	0.517	0.74	pCi/L	UJ	T04, T05
CWC267927	CWCHSD	08/28/23	Alpha Spectroscopy	Th-230	0.655	0.514	0.456	pCi/L	J	F01, T04, T20
CWC267927	CWCHSD	08/28/23	Alpha Spectroscopy	Th-232	-0.0319	0.197	0.536	pCi/L	UJ	T06
CWC267927	CWCHSD	08/28/23	Alpha Spectroscopy	Ra-226	-0.0642	0.182	0.691	pCi/L	UJ	T06
CWC267927	CWCHSD	08/28/23	Alpha Spectroscopy	U-234	0.144	0.237	0.437	pCi/L	UJ	T06
CWC267927	CWCHSD	08/28/23	Alpha Spectroscopy	U-235	0.102	0.288	0.748	pCi/L	UJ	T06

Table E-3. CWC Daily Surface Water Data for CY 2023 (Continued)

Sample Name	Station Name	Collection Date	Method	Analyte	Result	DL	Error	Units	VQ	Validation Reason Code
CWC267927	CWCHSD	08/28/23	Alpha Spectroscopy	U-238	0.082	0.232	0.604	pCi/L	UJ	T06
CWC267928	CWCHSD	08/29/23	Metals	Antimony	0.88		0.29	µg/L	=	
CWC267928	CWCHSD	08/29/23	Metals	Arsenic	2.6		1.6	µg/L	=	
CWC267928	CWCHSD	08/29/23	Metals	Barium	59		0.69	µg/L	=	
CWC267928	CWCHSD	08/29/23	Metals	Cadmium	0.06		0.06	µg/L	U	
CWC267928	CWCHSD	08/29/23	Metals	Chromium	1.3		1.3	µg/L	U	
CWC267928	CWCHSD	08/29/23	Metals	Molybdenum	6.1		2	µg/L	=	
CWC267928	CWCHSD	08/29/23	Metals	Nickel	1.8		0.89	µg/L	J	F01
CWC267928	CWCHSD	08/29/23	Metals	Selenium	0.82		0.67	µg/L	=	
CWC267928	CWCHSD	08/29/23	Metals	Thallium	0.38		0.38	µg/L	U	
CWC267928	CWCHSD	08/29/23	Metals	Vanadium	4		4	µg/L	U	
CWC267928	CWCHSD	08/29/23	Alpha Spectroscopy	Th-228	1.03	0.728	0.667	pCi/L	J	T04, T20
CWC267928	CWCHSD	08/29/23	Alpha Spectroscopy	Th-230	0.893	0.687	0.745	pCi/L	J	F01, T04, T20
CWC267928	CWCHSD	08/29/23	Alpha Spectroscopy	Th-232	0.238	0.413	0.875	pCi/L	UJ	T06
CWC267928	CWCHSD	08/29/23	Alpha Spectroscopy	Ra-226	0.112	0.29	0.725	pCi/L	UJ	T06
CWC267928	CWCHSD	08/29/23	Alpha Spectroscopy	U-234	0.307	0.332	0.435	pCi/L	UJ	T06
CWC267928	CWCHSD	08/29/23	Alpha Spectroscopy	U-235	0.101	0.286	0.744	pCi/L	UJ	T06
CWC267928	CWCHSD	08/29/23	Alpha Spectroscopy	U-238	0.0612	0.168	0.433	pCi/L	UJ	T06
CWC267929	CWCHSD	08/30/23	Metals	Antimony	0.94		0.29	µg/L	=	
CWC267929	CWCHSD	08/30/23	Metals	Arsenic	2.8		1.6	µg/L	=	
CWC267929	CWCHSD	08/30/23	Metals	Barium	69		0.69	µg/L	=	
CWC267929	CWCHSD	08/30/23	Metals	Cadmium	0.06		0.06	µg/L	J	F01
CWC267929	CWCHSD	08/30/23	Metals	Chromium	1.4		1.3	µg/L	J	F01
CWC267929	CWCHSD	08/30/23	Metals	Molybdenum	8.4		2	µg/L	=	
CWC267929	CWCHSD	08/30/23	Metals	Nickel	2.2		0.89	µg/L	J	F01
CWC267929	CWCHSD	08/30/23	Metals	Selenium	0.67		0.67	µg/L	U	
CWC267929	CWCHSD	08/30/23	Metals	Thallium	0.38		0.38	µg/L	U	
CWC267929	CWCHSD	08/30/23	Metals	Vanadium	4		4	µg/L	U	
CWC267929	CWCHSD	08/30/23	Alpha Spectroscopy	Th-228	0.852	0.668	0.885	pCi/L	UJ	T04, T05
CWC267929	CWCHSD	08/30/23	Alpha Spectroscopy	Th-230	0.526	0.493	0.518	pCi/L	J	F01, T04, T20
CWC267929	CWCHSD	08/30/23	Alpha Spectroscopy	Th-232	0.217	0.378	0.8	pCi/L	UJ	T06
CWC267929	CWCHSD	08/30/23	Alpha Spectroscopy	Ra-226	0.252	0.346	0.698	pCi/L	UJ	T06
CWC267929	CWCHSD	08/30/23	Alpha Spectroscopy	U-234	0.15	0.247	0.455	pCi/L	UJ	T06
CWC267929	CWCHSD	08/30/23	Alpha Spectroscopy	U-235	-0.0264	0.218	0.561	pCi/L	UJ	T06

Table E-3. CWC Daily Surface Water Data for CY 2023 (Continued)

Sample Name	Station Name	Collection Date	Method	Analyte	Result	DL	Error	Units	VQ	Validation Reason Code
CWC267929	CWCHSD	08/30/23	Alpha Spectroscopy	U-238	0.235	0.3	0.453	pCi/L	UJ	T06
CWC267930	CWCHSD	08/31/23	Metals	Antimony	0.84		0.29	µg/L	=	
CWC267930	CWCHSD	08/31/23	Metals	Arsenic	3.2		1.6	µg/L	=	
CWC267930	CWCHSD	08/31/23	Metals	Barium	78		0.69	µg/L	=	
CWC267930	CWCHSD	08/31/23	Metals	Cadmium	0.16		0.06	µg/L	J	F01
CWC267930	CWCHSD	08/31/23	Metals	Chromium	1.3		1.3	µg/L	U	
CWC267930	CWCHSD	08/31/23	Metals	Molybdenum	7.8		2	µg/L	=	
CWC267930	CWCHSD	08/31/23	Metals	Nickel	2.2		0.89	µg/L	J	F01
CWC267930	CWCHSD	08/31/23	Metals	Selenium	1.3		0.67	µg/L	=	
CWC267930	CWCHSD	08/31/23	Metals	Thallium	0.38		0.38	µg/L	U	
CWC267930	CWCHSD	08/31/23	Metals	Vanadium	4		4	µg/L	U	
CWC267930	CWCHSD	08/31/23	Alpha Spectroscopy	Th-228	0.322	0.498	1.03	pCi/L	UJ	T06
CWC267930	CWCHSD	08/31/23	Alpha Spectroscopy	Th-230	1.69	0.963	0.89	pCi/L	J	F01, T04, T20
CWC267930	CWCHSD	08/31/23	Alpha Spectroscopy	Th-232	0	0.341	0.888	pCi/L	UJ	T06
CWC267930	CWCHSD	08/31/23	Alpha Spectroscopy	Ra-226	0.0919	0.291	0.772	pCi/L	UJ	T06
CWC267930	CWCHSD	08/31/23	Alpha Spectroscopy	U-234	0.303	0.353	0.552	pCi/L	UJ	T06
CWC267930	CWCHSD	08/31/23	Alpha Spectroscopy	U-235	0.08	0.22	0.566	pCi/L	UJ	T06
CWC267930	CWCHSD	08/31/23	Alpha Spectroscopy	U-238	0.151	0.248	0.457	pCi/L	UJ	T06
CWC267931	CWCHSD	09/05/23	Metals	Antimony	0.63		0.29	µg/L	=	
CWC267931	CWCHSD	09/05/23	Metals	Arsenic	3		1.6	µg/L	=	
CWC267931	CWCHSD	09/05/23	Metals	Barium	100		0.69	µg/L	=	
CWC267931	CWCHSD	09/05/23	Metals	Cadmium	0.06		0.06	µg/L	U	
CWC267931	CWCHSD	09/05/23	Metals	Chromium	1.3		1.3	µg/L	U	
CWC267931	CWCHSD	09/05/23	Metals	Molybdenum	7.4		2	µg/L	=	
CWC267931	CWCHSD	09/05/23	Metals	Nickel	2.1		0.89	µg/L	=	
CWC267931	CWCHSD	09/05/23	Metals	Selenium	0.67		0.67	µg/L	U	
CWC267931	CWCHSD	09/05/23	Metals	Thallium	0.38		0.38	µg/L	U	
CWC267931	CWCHSD	09/05/23	Metals	Vanadium	4		4	µg/L	U	
CWC267931	CWCHSD	09/05/23	Alpha Spectroscopy	Th-228	0.165	0.285	0.557	pCi/L	UJ	T06
CWC267931	CWCHSD	09/05/23	Alpha Spectroscopy	Th-230	0.364	0.403	0.558	pCi/L	UJ	T06
CWC267931	CWCHSD	09/05/23	Alpha Spectroscopy	Th-232	0.0827	0.201	0.472	pCi/L	UJ	T06
CWC267931	CWCHSD	09/05/23	Alpha Spectroscopy	Ra-226	-0.0373	0.325	0.996	pCi/L	UJ	T06
CWC267931	CWCHSD	09/05/23	Alpha Spectroscopy	U-234	0.567	0.429	0.522	pCi/L	J	T04, T20
CWC267931	CWCHSD	09/05/23	Alpha Spectroscopy	U-235	0.175	0.303	0.644	pCi/L	UJ	T06

Table E-3. CWC Daily Surface Water Data for CY 2023 (Continued)

Sample Name	Station Name	Collection Date	Method	Analyte	Result	DL	Error	Units	VQ	Validation Reason Code
CWC267931	CWCHSD	09/05/23	Alpha Spectroscopy	U-238	0.0529	0.146	0.375	pCi/L	UJ	T06
CWC269555	CWCHSD	09/06/23	Metals	Antimony	0.72		0.29	µg/L	=	
CWC269555	CWCHSD	09/06/23	Metals	Arsenic	2.8		1.6	µg/L	=	
CWC269555	CWCHSD	09/06/23	Metals	Barium	100		0.69	µg/L	=	
CWC269555	CWCHSD	09/06/23	Metals	Cadmium	0.06		0.06	µg/L	U	
CWC269555	CWCHSD	09/06/23	Metals	Chromium	1.3		1.3	µg/L	U	
CWC269555	CWCHSD	09/06/23	Metals	Molybdenum	7.1		2	µg/L	=	
CWC269555	CWCHSD	09/06/23	Metals	Nickel	2.1		0.89	µg/L	=	
CWC269555	CWCHSD	09/06/23	Metals	Selenium	0.67		0.67	µg/L	U	
CWC269555	CWCHSD	09/06/23	Metals	Thallium	0.38		0.38	µg/L	U	
CWC269555	CWCHSD	09/06/23	Metals	Vanadium	4		4	µg/L	U	
CWC269555	CWCHSD	09/06/23	Alpha Spectroscopy	Th-228	0.312	0.482	1.02	pCi/L	UJ	T06
CWC269555	CWCHSD	09/06/23	Alpha Spectroscopy	Th-230	0.816	0.599	0.496	pCi/L	J	F01, T04, T20
CWC269555	CWCHSD	09/06/23	Alpha Spectroscopy	Th-232	-0.0173	0.211	0.495	pCi/L	UJ	T06
CWC269555	CWCHSD	09/06/23	Alpha Spectroscopy	Ra-226	0.339	0.4	0.653	pCi/L	UJ	T06
CWC269555	CWCHSD	09/06/23	Alpha Spectroscopy	U-234	0.4	0.345	0.369	pCi/L	J	T04, T20
CWC269555	CWCHSD	09/06/23	Alpha Spectroscopy	U-235	0	0.243	0.631	pCi/L	UJ	T06
CWC269555	CWCHSD	09/06/23	Alpha Spectroscopy	U-238	0.156	0.248	0.499	pCi/L	UJ	T06
CWC269556	CWCHSD	09/07/23	Metals	Antimony	0.82		0.29	µg/L	=	
CWC269556	CWCHSD	09/07/23	Metals	Arsenic	3.1		1.6	µg/L	=	
CWC269556	CWCHSD	09/07/23	Metals	Barium	110		0.69	µg/L	=	
CWC269556	CWCHSD	09/07/23	Metals	Cadmium	0.06		0.06	µg/L	U	
CWC269556	CWCHSD	09/07/23	Metals	Chromium	1.3		1.3	µg/L	U	
CWC269556	CWCHSD	09/07/23	Metals	Molybdenum	7.2		2	µg/L	=	
CWC269556	CWCHSD	09/07/23	Metals	Nickel	2.4		0.89	µg/L	=	
CWC269556	CWCHSD	09/07/23	Metals	Selenium	0.67		0.67	µg/L	U	
CWC269556	CWCHSD	09/07/23	Metals	Thallium	0.38		0.38	µg/L	U	
CWC269556	CWCHSD	09/07/23	Metals	Vanadium	4		4	µg/L	U	
CWC269556	CWCHSD	09/07/23	Alpha Spectroscopy	Th-228	0.425	0.52	0.869	pCi/L	UJ	T06
CWC269556	CWCHSD	09/07/23	Alpha Spectroscopy	Th-230	0.511	0.575	0.94	pCi/L	UJ	T06
CWC269556	CWCHSD	09/07/23	Alpha Spectroscopy	Th-232	0	0.361	0.938	pCi/L	UJ	T06
CWC269556	CWCHSD	09/07/23	Alpha Spectroscopy	Ra-226	0.114	0.294	0.736	pCi/L	UJ	T06
CWC269556	CWCHSD	09/07/23	Alpha Spectroscopy	U-234	0.609	0.582	0.836	pCi/L	UJ	T04, T05
CWC269556	CWCHSD	09/07/23	Alpha Spectroscopy	U-235	-0.0358	0.295	0.759	pCi/L	UJ	T06

Table E-3. CWC Daily Surface Water Data for CY 2023 (Continued)

Sample Name	Station Name	Collection Date	Method	Analyte	Result	DL	Error	Units	VQ	Validation Reason Code
CWC269556	CWCHSD	09/07/23	Alpha Spectroscopy	U-238	0.635	0.632	1.05	pCi/L	UJ	T04, T05
CWC269557	CWCHSD	09/11/23	Metals	Antimony	0.73		0.29	µg/L	=	
CWC269557	CWCHSD	09/11/23	Metals	Arsenic	3.6		1.6	µg/L	=	
CWC269557	CWCHSD	09/11/23	Metals	Barium	85		0.69	µg/L	=	
CWC269557	CWCHSD	09/11/23	Metals	Cadmium	0.06		0.06	µg/L	U	
CWC269557	CWCHSD	09/11/23	Metals	Chromium	1.3		1.3	µg/L	U	
CWC269557	CWCHSD	09/11/23	Metals	Molybdenum	5.9		2	µg/L	=	
CWC269557	CWCHSD	09/11/23	Metals	Nickel	2.2		0.89	µg/L	=	
CWC269557	CWCHSD	09/11/23	Metals	Selenium	0.67		0.67	µg/L	U	
CWC269557	CWCHSD	09/11/23	Metals	Thallium	0.38		0.38	µg/L	U	
CWC269557	CWCHSD	09/11/23	Metals	Vanadium	5.3		4	µg/L	=	
CWC269557	CWCHSD	09/11/23	Alpha Spectroscopy	Th-228	0.609	0.461	0.56	pCi/L	J	T04, T20
CWC269557	CWCHSD	09/11/23	Alpha Spectroscopy	Th-230	1.35	0.665	0.404	pCi/L	J	F01
CWC269557	CWCHSD	09/11/23	Alpha Spectroscopy	Th-232	-0.057	0.166	0.548	pCi/L	UJ	T06
CWC269557	CWCHSD	09/11/23	Alpha Spectroscopy	Ra-226	0.0927	0.239	0.599	pCi/L	UJ	T06
CWC269557	CWCHSD	09/11/23	Alpha Spectroscopy	U-234	0.408	0.441	0.578	pCi/L	UJ	T06
CWC269557	CWCHSD	09/11/23	Alpha Spectroscopy	U-235	0	0.38	0.988	pCi/L	UJ	T06
CWC269557	CWCHSD	09/11/23	Alpha Spectroscopy	U-238	0.163	0.317	0.692	pCi/L	UJ	T06
CWC269558	CWCHSD	09/12/23	Metals	Antimony	0.4		0.29	µg/L	=	
CWC269558	CWCHSD	09/12/23	Metals	Arsenic	2.8		1.6	µg/L	=	
CWC269558	CWCHSD	09/12/23	Metals	Barium	59		0.69	µg/L	=	
CWC269558	CWCHSD	09/12/23	Metals	Cadmium	0.06		0.06	µg/L	U	
CWC269558	CWCHSD	09/12/23	Metals	Chromium	1.5		1.3	µg/L	=	
CWC269558	CWCHSD	09/12/23	Metals	Molybdenum	3.2		2	µg/L	=	
CWC269558	CWCHSD	09/12/23	Metals	Nickel	1.9		0.89	µg/L	=	
CWC269558	CWCHSD	09/12/23	Metals	Selenium	0.67		0.67	µg/L	U	
CWC269558	CWCHSD	09/12/23	Metals	Thallium	0.38		0.38	µg/L	U	
CWC269558	CWCHSD	09/12/23	Metals	Vanadium	5		4	µg/L	=	
CWC269558	CWCHSD	09/12/23	Alpha Spectroscopy	Th-228	0.407	0.352	0.376	pCi/L	J	T04, T20
CWC269558	CWCHSD	09/12/23	Alpha Spectroscopy	Th-230	1.4	0.653	0.376	pCi/L	J	F01
CWC269558	CWCHSD	09/12/23	Alpha Spectroscopy	Th-232	0.0531	0.146	0.376	pCi/L	UJ	T06
CWC269558	CWCHSD	09/12/23	Alpha Spectroscopy	Ra-226	-0.031	0.164	0.6	pCi/L	UJ	T06
CWC269558	CWCHSD	09/12/23	Alpha Spectroscopy	U-234	0.28	0.358	0.54	pCi/L	UJ	T06
CWC269558	CWCHSD	09/12/23	Alpha Spectroscopy	U-235	-0.0314	0.259	0.666	pCi/L	UJ	T06

Table E-3. CWC Daily Surface Water Data for CY 2023 (Continued)

Sample Name	Station Name	Collection Date	Method	Analyte	Result	DL	Error	Units	VQ	Validation Reason Code
CWC269558	CWCHSD	09/12/23	Alpha Spectroscopy	U-238	0.456	0.462	0.647	pCi/L	UJ	T06
CWC269559	CWCHSD	09/13/23	Metals	Antimony	0.48		0.29	µg/L	=	
CWC269559	CWCHSD	09/13/23	Metals	Arsenic	3.4		1.6	µg/L	=	
CWC269559	CWCHSD	09/13/23	Metals	Barium	81		0.69	µg/L	=	
CWC269559	CWCHSD	09/13/23	Metals	Cadmium	0.06		0.06	µg/L	U	
CWC269559	CWCHSD	09/13/23	Metals	Chromium	1.3		1.3	µg/L	=	
CWC269559	CWCHSD	09/13/23	Metals	Molybdenum	6.2		2	µg/L	=	
CWC269559	CWCHSD	09/13/23	Metals	Nickel	2.3		0.89	µg/L	=	
CWC269559	CWCHSD	09/13/23	Metals	Selenium	0.67		0.67	µg/L	U	
CWC269559	CWCHSD	09/13/23	Metals	Thallium	0.38		0.38	µg/L	U	
CWC269559	CWCHSD	09/13/23	Metals	Vanadium	5.5		4	µg/L	=	
CWC269559	CWCHSD	09/13/23	Alpha Spectroscopy	Th-228	0.539	0.399	0.369	pCi/L	J	T04, T20
CWC269559	CWCHSD	09/13/23	Alpha Spectroscopy	Th-230	0.54	0.4	0.37	pCi/L	J	F01, T04, T20
CWC269559	CWCHSD	09/13/23	Alpha Spectroscopy	Th-232	0	0.197	0.511	pCi/L	UJ	T06
CWC269559	CWCHSD	09/13/23	Alpha Spectroscopy	Ra-226	0.289	0.294	0.432	pCi/L	UJ	T06
CWC269559	CWCHSD	09/13/23	Alpha Spectroscopy	U-234	0.545	0.52	0.609	pCi/L	UJ	T04, T05
CWC269559	CWCHSD	09/13/23	Alpha Spectroscopy	U-235	0	0.4	1.04	pCi/L	UJ	T06
CWC269559	CWCHSD	09/13/23	Alpha Spectroscopy	U-238	0.114	0.323	0.841	pCi/L	UJ	T06
CWC269560	CWCHSD	09/14/23	Metals	Antimony	0.48		0.29	µg/L	=	
CWC269560	CWCHSD	09/14/23	Metals	Arsenic	3.2		1.6	µg/L	=	
CWC269560	CWCHSD	09/14/23	Metals	Barium	96		0.69	µg/L	=	
CWC269560	CWCHSD	09/14/23	Metals	Cadmium	0.06		0.06	µg/L	U	
CWC269560	CWCHSD	09/14/23	Metals	Chromium	1.3		1.3	µg/L	U	
CWC269560	CWCHSD	09/14/23	Metals	Molybdenum	7.1		2	µg/L	=	
CWC269560	CWCHSD	09/14/23	Metals	Nickel	2.1		0.89	µg/L	=	
CWC269560	CWCHSD	09/14/23	Metals	Selenium	0.67		0.67	µg/L	U	
CWC269560	CWCHSD	09/14/23	Metals	Thallium	0.38		0.38	µg/L	U	
CWC269560	CWCHSD	09/14/23	Metals	Vanadium	4.5		4	µg/L	=	
CWC269560	CWCHSD	09/14/23	Alpha Spectroscopy	Th-228	0.41	0.354	0.473	pCi/L	UJ	T04, T05
CWC269560	CWCHSD	09/14/23	Alpha Spectroscopy	Th-230	0.328	0.323	0.483	pCi/L	UJ	T04, T05
CWC269560	CWCHSD	09/14/23	Alpha Spectroscopy	Th-232	0.0655	0.185	0.482	pCi/L	UJ	T06
CWC269560	CWCHSD	09/14/23	Alpha Spectroscopy	Ra-226	0	0.224	0.698	pCi/L	UJ	T06
CWC269560	CWCHSD	09/14/23	Alpha Spectroscopy	U-234	0.455	0.434	0.509	pCi/L	UJ	T04, T05
CWC269560	CWCHSD	09/14/23	Alpha Spectroscopy	U-235	0.0887	0.244	0.628	pCi/L	UJ	T06

Table E-3. CWC Daily Surface Water Data for CY 2023 (Continued)

Sample Name	Station Name	Collection Date	Method	Analyte	Result	DL	Error	Units	VQ	Validation Reason Code
CWC269560	CWCHSD	09/14/23	Alpha Spectroscopy	U-238	0.0954	0.27	0.702	pCi/L	UJ	T06
CWC269561	CWCHSD	09/18/23	Metals	Antimony	0.53		0.29	µg/L	=	
CWC269561	CWCHSD	09/18/23	Metals	Arsenic	3.1		1.6	µg/L	=	
CWC269561	CWCHSD	09/18/23	Metals	Barium	110		0.69	µg/L	=	
CWC269561	CWCHSD	09/18/23	Metals	Cadmium	0.06		0.06	µg/L	U	
CWC269561	CWCHSD	09/18/23	Metals	Chromium	1.3		1.3	µg/L	U	
CWC269561	CWCHSD	09/18/23	Metals	Molybdenum	5.7		2	µg/L	=	
CWC269561	CWCHSD	09/18/23	Metals	Nickel	2.6		0.89	µg/L	=	
CWC269561	CWCHSD	09/18/23	Metals	Selenium	0.8		0.67	µg/L	=	
CWC269561	CWCHSD	09/18/23	Metals	Thallium	0.38		0.38	µg/L	U	
CWC269561	CWCHSD	09/18/23	Metals	Vanadium	4.9		4	µg/L	=	
CWC269561	CWCHSD	09/18/23	Alpha Spectroscopy	Th-228	0.857	0.516	0.387	pCi/L	J	T04, T20
CWC269561	CWCHSD	09/18/23	Alpha Spectroscopy	Th-230	0.585	0.443	0.538	pCi/L	J	F01, T04, T20
CWC269561	CWCHSD	09/18/23	Alpha Spectroscopy	Th-232	0.0729	0.206	0.537	pCi/L	UJ	T06
CWC269561	CWCHSD	09/18/23	Alpha Spectroscopy	Ra-226	0.161	0.232	0.433	pCi/L	UJ	T06
CWC269561	CWCHSD	09/18/23	Alpha Spectroscopy	U-234	0.172	0.283	0.522	pCi/L	UJ	T06
CWC269561	CWCHSD	09/18/23	Alpha Spectroscopy	U-235	-0.0303	0.25	0.644	pCi/L	UJ	T06
CWC269561	CWCHSD	09/18/23	Alpha Spectroscopy	U-238	0.196	0.34	0.721	pCi/L	UJ	T06
CWC269562	CWCHSD	09/19/23	Metals	Antimony	0.67		0.29	µg/L	=	
CWC269562	CWCHSD	09/19/23	Metals	Arsenic	2.9		1.6	µg/L	=	
CWC269562	CWCHSD	09/19/23	Metals	Barium	100		0.69	µg/L	=	
CWC269562	CWCHSD	09/19/23	Metals	Cadmium	0.06		0.06	µg/L	U	
CWC269562	CWCHSD	09/19/23	Metals	Chromium	1.3		1.3	µg/L	U	
CWC269562	CWCHSD	09/19/23	Metals	Molybdenum	5.2		2	µg/L	=	
CWC269562	CWCHSD	09/19/23	Metals	Nickel	1.9		0.89	µg/L	=	
CWC269562	CWCHSD	09/19/23	Metals	Selenium	0.72		0.67	µg/L	=	
CWC269562	CWCHSD	09/19/23	Metals	Thallium	0.38		0.38	µg/L	U	
CWC269562	CWCHSD	09/19/23	Metals	Vanadium	4.3		4	µg/L	=	
CWC269562	CWCHSD	09/19/23	Alpha Spectroscopy	Th-228	0.528	0.47	0.648	pCi/L	UJ	T04, T05
CWC269562	CWCHSD	09/19/23	Alpha Spectroscopy	Th-230	0.661	0.508	0.563	pCi/L	J	F01, T04, T20
CWC269562	CWCHSD	09/19/23	Alpha Spectroscopy	Th-232	0.066	0.182	0.467	pCi/L	UJ	T06
CWC269562	CWCHSD	09/19/23	Alpha Spectroscopy	Ra-226	0.279	0.383	0.773	pCi/L	UJ	T06
CWC269562	CWCHSD	09/19/23	Alpha Spectroscopy	U-234	0.661	0.549	0.65	pCi/L	J	T04, T20
CWC269562	CWCHSD	09/19/23	Alpha Spectroscopy	U-235	0.126	0.355	0.924	pCi/L	UJ	T06

Table E-3. CWC Daily Surface Water Data for CY 2023 (Continued)

Sample Name	Station Name	Collection Date	Method	Analyte	Result	DL	Error	Units	VQ	Validation Reason Code
CWC269562	CWCHSD	09/19/23	Alpha Spectroscopy	U-238	0.101	0.287	0.746	pCi/L	UJ	T06
CWC269563	CWCHSD	09/20/23	Metals	Antimony	0.63		0.29	µg/L	=	
CWC269563	CWCHSD	09/20/23	Metals	Arsenic	3		1.6	µg/L	=	
CWC269563	CWCHSD	09/20/23	Metals	Barium	100		0.69	µg/L	=	
CWC269563	CWCHSD	09/20/23	Metals	Cadmium	0.06		0.06	µg/L	U	
CWC269563	CWCHSD	09/20/23	Metals	Chromium	1.3		1.3	µg/L	U	
CWC269563	CWCHSD	09/20/23	Metals	Molybdenum	5.2		2	µg/L	=	
CWC269563	CWCHSD	09/20/23	Metals	Nickel	2		0.89	µg/L	=	
CWC269563	CWCHSD	09/20/23	Metals	Selenium	0.87		0.67	µg/L	=	
CWC269563	CWCHSD	09/20/23	Metals	Thallium	0.38		0.38	µg/L	U	
CWC269563	CWCHSD	09/20/23	Metals	Vanadium	4.3		4	µg/L	=	
CWC269563	CWCHSD	09/20/23	Alpha Spectroscopy	Th-228	0.398	0.429	0.675	pCi/L	UJ	T06
CWC269563	CWCHSD	09/20/23	Alpha Spectroscopy	Th-230	0.468	0.462	0.689	pCi/L	UJ	T04, T05
CWC269563	CWCHSD	09/20/23	Alpha Spectroscopy	Th-232	0.164	0.269	0.496	pCi/L	UJ	T06
CWC269563	CWCHSD	09/20/23	Alpha Spectroscopy	Ra-226	0.208	0.294	0.582	pCi/L	UJ	T06
CWC269563	CWCHSD	09/20/23	Alpha Spectroscopy	U-234	0.486	0.48	0.716	pCi/L	UJ	T04, T05
CWC269563	CWCHSD	09/20/23	Alpha Spectroscopy	U-235	0	0.339	0.883	pCi/L	UJ	T06
CWC269563	CWCHSD	09/20/23	Alpha Spectroscopy	U-238	0.533	0.483	0.619	pCi/L	UJ	T04, T05
CWC269564	CWCHSD	09/21/23	Metals	Antimony	0.6		0.29	µg/L	=	
CWC269564	CWCHSD	09/21/23	Metals	Arsenic	2.8		1.6	µg/L	=	
CWC269564	CWCHSD	09/21/23	Metals	Barium	91		0.69	µg/L	=	
CWC269564	CWCHSD	09/21/23	Metals	Cadmium	0.06		0.06	µg/L	U	
CWC269564	CWCHSD	09/21/23	Metals	Chromium	1.3		1.3	µg/L	U	
CWC269564	CWCHSD	09/21/23	Metals	Molybdenum	4.6		2	µg/L	=	
CWC269564	CWCHSD	09/21/23	Metals	Nickel	2		0.89	µg/L	=	
CWC269564	CWCHSD	09/21/23	Metals	Selenium	0.67		0.67	µg/L	=	
CWC269564	CWCHSD	09/21/23	Metals	Thallium	0.38		0.38	µg/L	U	
CWC269564	CWCHSD	09/21/23	Metals	Vanadium	5.1		4	µg/L	=	
CWC269564	CWCHSD	09/21/23	Alpha Spectroscopy	Th-228	0.351	0.379	0.497	pCi/L	UJ	T06
CWC269564	CWCHSD	09/21/23	Alpha Spectroscopy	Th-230	0.89	0.605	0.598	pCi/L	J	F01, T04, T20
CWC269564	CWCHSD	09/21/23	Alpha Spectroscopy	Th-232	0.0935	0.265	0.688	pCi/L	UJ	T06
CWC269564	CWCHSD	09/21/23	Alpha Spectroscopy	Ra-226	0.49	0.439	0.766	pCi/L	UJ	T04, T05
CWC269564	CWCHSD	09/21/23	Alpha Spectroscopy	U-234	0.356	0.455	0.687	pCi/L	UJ	T06
CWC269564	CWCHSD	09/21/23	Alpha Spectroscopy	U-235	0	0.451	1.17	pCi/L	UJ	T06

Table E-3. CWC Daily Surface Water Data for CY 2023 (Continued)

Sample Name	Station Name	Collection Date	Method	Analyte	Result	DL	Error	Units	VQ	Validation Reason Code
CWC269564	CWCHSD	09/21/23	Alpha Spectroscopy	U-238	0.483	0.523	0.684	pCi/L	UJ	T06
CWC269565	CWCHSD	09/25/23	Metals	Antimony	0.62		0.29	µg/L	=	
CWC269565	CWCHSD	09/25/23	Metals	Arsenic	3.3		1.6	µg/L	=	
CWC269565	CWCHSD	09/25/23	Metals	Barium	53		0.69	µg/L	=	
CWC269565	CWCHSD	09/25/23	Metals	Cadmium	0.22		0.06	µg/L	J	F01
CWC269565	CWCHSD	09/25/23	Metals	Chromium	1.5		1.3	µg/L	=	
CWC269565	CWCHSD	09/25/23	Metals	Molybdenum	3.6		2	µg/L	=	
CWC269565	CWCHSD	09/25/23	Metals	Nickel	2.9		0.89	µg/L	=	
CWC269565	CWCHSD	09/25/23	Metals	Selenium	0.67		0.67	µg/L	U	
CWC269565	CWCHSD	09/25/23	Metals	Thallium	0.38		0.38	µg/L	U	
CWC269565	CWCHSD	09/25/23	Metals	Vanadium	4		4	µg/L	U	
CWC269565	CWCHSD	09/25/23	Alpha Spectroscopy	Th-228	0.379	0.389	0.568	pCi/L	UJ	T06
CWC269565	CWCHSD	09/25/23	Alpha Spectroscopy	Th-230	0.802	0.587	0.818	pCi/L	UJ	T04, T05
CWC269565	CWCHSD	09/25/23	Alpha Spectroscopy	Th-232	0	0.238	0.62	pCi/L	UJ	T06
CWC269565	CWCHSD	09/25/23	Alpha Spectroscopy	Ra-226	-0.0658	0.294	0.928	pCi/L	UJ	T06
CWC269565	CWCHSD	09/25/23	Alpha Spectroscopy	U-234	0.0903	0.256	0.665	pCi/L	UJ	T06
CWC269565	CWCHSD	09/25/23	Alpha Spectroscopy	U-235	0	0.315	0.82	pCi/L	UJ	T06
CWC269565	CWCHSD	09/25/23	Alpha Spectroscopy	U-238	0	0	0.244	pCi/L	U	
CWC269566	CWCHSD	09/26/23	Metals	Antimony	0.57		0.29	µg/L	=	
CWC269566	CWCHSD	09/26/23	Metals	Arsenic	3.2		1.6	µg/L	=	
CWC269566	CWCHSD	09/26/23	Metals	Barium	58		0.69	µg/L	=	
CWC269566	CWCHSD	09/26/23	Metals	Cadmium	0.094		0.06	µg/L	J	F01
CWC269566	CWCHSD	09/26/23	Metals	Chromium	1.3		1.3	µg/L	U	
CWC269566	CWCHSD	09/26/23	Metals	Molybdenum	3.7		2	µg/L	=	
CWC269566	CWCHSD	09/26/23	Metals	Nickel	2.6		0.89	µg/L	=	
CWC269566	CWCHSD	09/26/23	Metals	Selenium	0.67		0.67	µg/L	U	
CWC269566	CWCHSD	09/26/23	Metals	Thallium	0.38		0.38	µg/L	U	
CWC269566	CWCHSD	09/26/23	Metals	Vanadium	4		4	µg/L	U	
CWC269566	CWCHSD	09/26/23	Alpha Spectroscopy	Th-228	0.48	0.493	0.807	pCi/L	UJ	T06
CWC269566	CWCHSD	09/26/23	Alpha Spectroscopy	Th-230	1.78	0.87	0.647	pCi/L	J	F01
CWC269566	CWCHSD	09/26/23	Alpha Spectroscopy	Th-232	0.144	0.288	0.646	pCi/L	UJ	T06
CWC269566	CWCHSD	09/26/23	Alpha Spectroscopy	Ra-226	0.14	0.242	0.514	pCi/L	UJ	T06
CWC269566	CWCHSD	09/26/23	Alpha Spectroscopy	U-234	0.244	0.327	0.6	pCi/L	UJ	T06
CWC269566	CWCHSD	09/26/23	Alpha Spectroscopy	U-235	0	0.284	0.74	pCi/L	UJ	T06

Table E-3. CWC Daily Surface Water Data for CY 2023 (Continued)

Sample Name	Station Name	Collection Date	Method	Analyte	Result	DL	Error	Units	VQ	Validation Reason Code
CWC269566	CWCHSD	09/26/23	Alpha Spectroscopy	U-238	0.162	0.282	0.597	pCi/L	UJ	T06
CWC269567	CWCHSD	12/05/23	Metals	Antimony	0.58		0.29	µg/L	=	
CWC269567	CWCHSD	12/05/23	Metals	Arsenic	1.6		1.6	µg/L	U	
CWC269567	CWCHSD	12/05/23	Metals	Barium	40		0.69	µg/L	=	
CWC269567	CWCHSD	12/05/23	Metals	Cadmium	0.06		0.06	µg/L	U	
CWC269567	CWCHSD	12/05/23	Metals	Chromium	2.2		1.3	µg/L	=	
CWC269567	CWCHSD	12/05/23	Metals	Molybdenum	4.3		2	µg/L	=	
CWC269567	CWCHSD	12/05/23	Metals	Nickel	2		0.89	µg/L	=	
CWC269567	CWCHSD	12/05/23	Metals	Selenium	0.86		0.67	µg/L	=	
CWC269567	CWCHSD	12/05/23	Metals	Thallium	0.38		0.38	µg/L	U	
CWC269567	CWCHSD	12/05/23	Metals	Vanadium	4		4	µg/L	U	
CWC269567	CWCHSD	12/05/23	Alpha Spectroscopy	Th-228	0.774	0.495	0.518	pCi/L	J	T04, T20
CWC269567	CWCHSD	12/05/23	Alpha Spectroscopy	Th-230	0.493	0.402	0.519	pCi/L	UJ	T04, T05
CWC269567	CWCHSD	12/05/23	Alpha Spectroscopy	Th-232	0.0528	0.145	0.373	pCi/L	UJ	T06
CWC269567	CWCHSD	12/05/23	Alpha Spectroscopy	Ra-226	0	0.183	0.627	pCi/L	UJ	T06
CWC269567	CWCHSD	12/05/23	Alpha Spectroscopy	U-234	2.95	1.16	0.546	pCi/L	=	
CWC269567	CWCHSD	12/05/23	Alpha Spectroscopy	U-235	-0.0317	0.261	0.673	pCi/L	UJ	T06
CWC269567	CWCHSD	12/05/23	Alpha Spectroscopy	U-238	2.71	1.11	0.653	pCi/L	=	
CWC269568	CWCHSD	12/06/23	Metals	Antimony	0.57		0.29	µg/L	=	
CWC269568	CWCHSD	12/06/23	Metals	Arsenic	1.6		1.6	µg/L	=	
CWC269568	CWCHSD	12/06/23	Metals	Barium	55		0.69	µg/L	=	
CWC269568	CWCHSD	12/06/23	Metals	Cadmium	0.06		0.06	µg/L	U	
CWC269568	CWCHSD	12/06/23	Metals	Chromium	2.7		1.3	µg/L	=	
CWC269568	CWCHSD	12/06/23	Metals	Molybdenum	5.9		2	µg/L	=	
CWC269568	CWCHSD	12/06/23	Metals	Nickel	1.9		0.89	µg/L	=	
CWC269568	CWCHSD	12/06/23	Metals	Selenium	1.2		0.67	µg/L	=	
CWC269568	CWCHSD	12/06/23	Metals	Thallium	0.38		0.38	µg/L	U	
CWC269568	CWCHSD	12/06/23	Metals	Vanadium	4		4	µg/L	U	
CWC269568	CWCHSD	12/06/23	Alpha Spectroscopy	Th-228	0.136	0.235	0.499	pCi/L	UJ	T06
CWC269568	CWCHSD	12/06/23	Alpha Spectroscopy	Th-230	0.526	0.39	0.361	pCi/L	J	T04, T20
CWC269568	CWCHSD	12/06/23	Alpha Spectroscopy	Th-232	0.136	0.235	0.499	pCi/L	UJ	T06
CWC269568	CWCHSD	12/06/23	Alpha Spectroscopy	Ra-226	-0.049	0.259	0.95	pCi/L	UJ	T06
CWC269568	CWCHSD	12/06/23	Alpha Spectroscopy	U-234	0.433	0.468	0.613	pCi/L	UJ	T06
CWC269568	CWCHSD	12/06/23	Alpha Spectroscopy	U-235	0	0.403	1.05	pCi/L	UJ	T06

Table E-3. CWC Daily Surface Water Data for CY 2023 (Continued)

Sample Name	Station Name	Collection Date	Method	Analyte	Result	DL	Error	Units	VQ	Validation Reason Code
CWC269568	CWCHSD	12/06/23	Alpha Spectroscopy	U-238	0.431	0.466	0.61	pCi/L	UJ	T06
CWC269569	CWCHSD	12/07/23	Metals	Antimony	0.51		0.29	µg/L	=	
CWC269569	CWCHSD	12/07/23	Metals	Arsenic	1.6		1.6	µg/L	=	
CWC269569	CWCHSD	12/07/23	Metals	Barium	60		0.69	µg/L	=	
CWC269569	CWCHSD	12/07/23	Metals	Cadmium	0.13		0.06	µg/L	=	
CWC269569	CWCHSD	12/07/23	Metals	Chromium	1.5		1.3	µg/L	=	
CWC269569	CWCHSD	12/07/23	Metals	Molybdenum	21		2	µg/L	=	
CWC269569	CWCHSD	12/07/23	Metals	Nickel	1.9		0.89	µg/L	=	
CWC269569	CWCHSD	12/07/23	Metals	Selenium	1.6		0.67	µg/L	=	
CWC269569	CWCHSD	12/07/23	Metals	Thallium	0.38		0.38	µg/L	U	
CWC269569	CWCHSD	12/07/23	Metals	Vanadium	4		4	µg/L	U	
CWC269569	CWCHSD	12/07/23	Alpha Spectroscopy	Th-228	0.811	0.616	0.746	pCi/L	J	T04, T20
CWC269569	CWCHSD	12/07/23	Alpha Spectroscopy	Th-230	0.203	0.353	0.747	pCi/L	UJ	T06
CWC269569	CWCHSD	12/07/23	Alpha Spectroscopy	Th-232	0.101	0.287	0.746	pCi/L	UJ	T06
CWC269569	CWCHSD	12/07/23	Alpha Spectroscopy	Ra-226	0.236	0.315	0.58	pCi/L	UJ	T06
CWC269569	CWCHSD	12/07/23	Alpha Spectroscopy	U-234	-0.0418	0.345	0.887	pCi/L	UJ	T06
CWC269569	CWCHSD	12/07/23	Alpha Spectroscopy	U-235	0.206	0.584	1.52	pCi/L	UJ	T06
CWC269569	CWCHSD	12/07/23	Alpha Spectroscopy	U-238	0.0832	0.353	1.06	pCi/L	UJ	T06
CWC269570	CWCHSD	12/08/23	Alpha Spectroscopy	Th-228	0.774	0.588	0.712	pCi/L	J	T04, T20
CWC269570	CWCHSD	12/08/23	Alpha Spectroscopy	Th-230	1.16	0.712	0.713	pCi/L	J	T04, T20
CWC269570	CWCHSD	12/08/23	Alpha Spectroscopy	Th-232	0.169	0.278	0.513	pCi/L	UJ	T06
CWC269570	CWCHSD	12/08/23	Alpha Spectroscopy	Ra-226	0.196	0.367	0.825	pCi/L	UJ	T06
CWC269570	CWCHSD	12/08/23	Alpha Spectroscopy	U-234	0.527	0.52	0.776	pCi/L	UJ	T04, T05
CWC269570	CWCHSD	12/08/23	Alpha Spectroscopy	U-235	0.0975	0.268	0.69	pCi/L	UJ	T06
CWC269570	CWCHSD	12/08/23	Alpha Spectroscopy	U-238	0.21	0.364	0.772	pCi/L	UJ	T06
CWC269570	CWCHSD	12/08/23	Metals	Antimony	0.47		0.29	µg/L	=	
CWC269570	CWCHSD	12/08/23	Metals	Arsenic	1.6		1.6	µg/L	U	
CWC269570	CWCHSD	12/08/23	Metals	Barium	57		0.69	µg/L	=	
CWC269570	CWCHSD	12/08/23	Metals	Cadmium	0.06		0.06	µg/L	U	E01, E08
CWC269570	CWCHSD	12/08/23	Metals	Chromium	1.9		1.3	µg/L	J	F01
CWC269570	CWCHSD	12/08/23	Metals	Molybdenum	18		2	µg/L	=	
CWC269570	CWCHSD	12/08/23	Metals	Nickel	1.7		0.89	µg/L	J	F01
CWC269570	CWCHSD	12/08/23	Metals	Selenium	1.6		0.67	µg/L	=	
CWC269570	CWCHSD	12/08/23	Metals	Thallium	0.38		0.38	µg/L	U	

Table E-3. CWC Daily Surface Water Data for CY 2023 (Continued)

Sample Name	Station Name	Collection Date	Method	Analyte	Result	DL	Error	Units	VQ	Validation Reason Code
CWC269570	CWCHSD	12/08/23	Metals	Vanadium	4		4	µg/L	U	
CWC269571	CWCHSD	12/11/23	Metals	Antimony	0.42		0.29	µg/L	=	
CWC269571	CWCHSD	12/11/23	Metals	Arsenic	1.8		1.6	µg/L	=	
CWC269571	CWCHSD	12/11/23	Metals	Barium	81		0.69	µg/L	=	
CWC269571	CWCHSD	12/11/23	Metals	Cadmium	0.06		0.06	µg/L	U	E01, E08
CWC269571	CWCHSD	12/11/23	Metals	Chromium	1.6		1.3	µg/L	J	F01
CWC269571	CWCHSD	12/11/23	Metals	Molybdenum	11		2	µg/L	=	
CWC269571	CWCHSD	12/11/23	Metals	Nickel	1.8		0.89	µg/L	J	F01
CWC269571	CWCHSD	12/11/23	Metals	Selenium	1.7		0.67	µg/L	=	
CWC269571	CWCHSD	12/11/23	Metals	Thallium	0.38		0.38	µg/L	U	
CWC269571	CWCHSD	12/11/23	Metals	Vanadium	4		4	µg/L	U	
CWC269571	CWCHSD	12/11/23	Alpha Spectroscopy	Th-228	0.322	0.376	0.588	pCi/L	UJ	T06
CWC269571	CWCHSD	12/11/23	Alpha Spectroscopy	Th-230	0.622	0.496	0.49	pCi/L	J	T04, T20
CWC269571	CWCHSD	12/11/23	Alpha Spectroscopy	Th-232	0.161	0.265	0.489	pCi/L	UJ	T06
CWC269571	CWCHSD	12/11/23	Alpha Spectroscopy	Ra-226	0.475	0.481	0.836	pCi/L	UJ	T06
CWC269571	CWCHSD	12/11/23	Alpha Spectroscopy	U-234	0.815	0.606	0.712	pCi/L	J	T04, T20
CWC269571	CWCHSD	12/11/23	Alpha Spectroscopy	U-235	0.0914	0.251	0.647	pCi/L	UJ	T06
CWC269571	CWCHSD	12/11/23	Alpha Spectroscopy	U-238	0.566	0.489	0.522	pCi/L	J	T04, T20
CWC269572	CWCHSD-A	12/12/23	Metals	Antimony	0.42		0.29	µg/L	=	
CWC269572	CWCHSD-A	12/12/23	Metals	Arsenic	1.7		1.6	µg/L	=	
CWC269572	CWCHSD-A	12/12/23	Metals	Barium	95		0.69	µg/L	=	
CWC269572	CWCHSD-A	12/12/23	Metals	Cadmium	0.06		0.06	µg/L	U	E01, E08
CWC269572	CWCHSD-A	12/12/23	Metals	Chromium	1.8		1.3	µg/L	J	F01
CWC269572	CWCHSD-A	12/12/23	Metals	Molybdenum	10		2	µg/L	=	
CWC269572	CWCHSD-A	12/12/23	Metals	Nickel	2.2		0.89	µg/L	J	F01
CWC269572	CWCHSD-A	12/12/23	Metals	Selenium	1.5		0.67	µg/L	=	
CWC269572	CWCHSD-A	12/12/23	Metals	Thallium	0.38		0.38	µg/L	U	
CWC269572	CWCHSD-A	12/12/23	Metals	Vanadium	4		4	µg/L	U	
CWC269572	CWCHSD-A	12/12/23	Alpha Spectroscopy	Th-228	0.582	0.518	0.714	pCi/L	UJ	T04, T05
CWC269572	CWCHSD-A	12/12/23	Alpha Spectroscopy	Th-230	1.02	0.66	0.62	pCi/L	J	T04, T20
CWC269572	CWCHSD-A	12/12/23	Alpha Spectroscopy	Th-232	0.0727	0.2	0.515	pCi/L	UJ	T06
CWC269572	CWCHSD-A	12/12/23	Alpha Spectroscopy	Ra-226	0.375	0.44	0.788	pCi/L	UJ	T06
CWC269572	CWCHSD-A	12/12/23	Alpha Spectroscopy	U-234	0.636	0.55	0.587	pCi/L	J	T04, T20
CWC269572	CWCHSD-A	12/12/23	Alpha Spectroscopy	U-235	0.136	0.386	1	pCi/L	UJ	T06

Table E-3. CWC Daily Surface Water Data for CY 2023 (Continued)

Sample Name	Station Name	Collection Date	Method	Analyte	Result	DL	Error	Units	VQ	Validation Reason Code
CWC269572	CWCHSD-A	12/12/23	Alpha Spectroscopy	U-238	0.771	0.63	0.811	pCi/L	UJ	T04, T05
CWC269573	CWCHSD-A	12/13/23	Metals	Antimony	0.37		0.29	µg/L	=	
CWC269573	CWCHSD-A	12/13/23	Metals	Arsenic	1.9		1.6	µg/L	=	
CWC269573	CWCHSD-A	12/13/23	Metals	Barium	95		0.69	µg/L	=	
CWC269573	CWCHSD-A	12/13/23	Metals	Cadmium	0.06		0.06	µg/L	U	E01, E08
CWC269573	CWCHSD-A	12/13/23	Metals	Chromium	1.6		1.3	µg/L	J	F01
CWC269573	CWCHSD-A	12/13/23	Metals	Molybdenum	9.2		2	µg/L	=	
CWC269573	CWCHSD-A	12/13/23	Metals	Nickel	2		0.89	µg/L	J	F01
CWC269573	CWCHSD-A	12/13/23	Metals	Selenium	1.4		0.67	µg/L	=	
CWC269573	CWCHSD-A	12/13/23	Metals	Thallium	0.38		0.38	µg/L	U	
CWC269573	CWCHSD-A	12/13/23	Metals	Vanadium	4		4	µg/L	U	
CWC269573	CWCHSD-A	12/13/23	Alpha Spectroscopy	Th-228	0.651	0.58	0.799	pCi/L	UJ	T04, T05
CWC269573	CWCHSD-A	12/13/23	Alpha Spectroscopy	Th-230	0.462	0.498	0.784	pCi/L	UJ	T06
CWC269573	CWCHSD-A	12/13/23	Alpha Spectroscopy	Th-232	0.217	0.377	0.798	pCi/L	UJ	T06
CWC269573	CWCHSD-A	12/13/23	Alpha Spectroscopy	Ra-226	0.0837	0.393	1.05	pCi/L	UJ	T06
CWC269573	CWCHSD-A	12/13/23	Alpha Spectroscopy	U-234	1.26	0.669	0.521	pCi/L	J	T04, T20
CWC269573	CWCHSD-A	12/13/23	Alpha Spectroscopy	U-235	-0.0252	0.207	0.534	pCi/L	UJ	T06
CWC269573	CWCHSD-A	12/13/23	Alpha Spectroscopy	U-238	0.305	0.329	0.431	pCi/L	UJ	T06
CWC269574	CWCHSD-A	12/14/23	Metals	Antimony	0.34		0.29	µg/L	=	
CWC269574	CWCHSD-A	12/14/23	Metals	Arsenic	2		1.6	µg/L	=	
CWC269574	CWCHSD-A	12/14/23	Metals	Barium	110		0.69	µg/L	=	
CWC269574	CWCHSD-A	12/14/23	Metals	Cadmium	0.06		0.06	µg/L	U	E01, E08
CWC269574	CWCHSD-A	12/14/23	Metals	Chromium	1.7		1.3	µg/L	J	F01
CWC269574	CWCHSD-A	12/14/23	Metals	Molybdenum	8.5		2	µg/L	=	
CWC269574	CWCHSD-A	12/14/23	Metals	Nickel	2.2		0.89	µg/L	J	F01
CWC269574	CWCHSD-A	12/14/23	Metals	Selenium	1.5		0.67	µg/L	=	
CWC269574	CWCHSD-A	12/14/23	Metals	Thallium	0.38		0.38	µg/L	U	
CWC269574	CWCHSD-A	12/14/23	Metals	Vanadium	4		4	µg/L	U	
CWC269574	CWCHSD-A	12/14/23	Alpha Spectroscopy	Th-228	0.677	0.54	0.533	pCi/L	J	T04, T20
CWC269574	CWCHSD-A	12/14/23	Alpha Spectroscopy	Th-230	0.452	0.458	0.641	pCi/L	UJ	T06
CWC269574	CWCHSD-A	12/14/23	Alpha Spectroscopy	Th-232	0.201	0.348	0.738	pCi/L	UJ	T06
CWC269574	CWCHSD-A	12/14/23	Alpha Spectroscopy	Ra-226	0	0.389	1.12	pCi/L	UJ	T06
CWC269574	CWCHSD-A	12/14/23	Alpha Spectroscopy	U-234	0.524	0.59	0.964	pCi/L	UJ	T06
CWC269574	CWCHSD-A	12/14/23	Alpha Spectroscopy	U-235	0.283	0.466	0.858	pCi/L	UJ	T06

Table E-3. CWC Daily Surface Water Data for CY 2023 (Continued)

Sample Name	Station Name	Collection Date	Method	Analyte	Result	DL	Error	Units	VQ	Validation Reason Code
CWC269574	CWCHSD-A	12/14/23	Alpha Spectroscopy	U-238	0.489	0.53	0.693	pCi/L	UJ	T06
CWC273161	CWCHSD-A	12/15/23	Metals	Antimony	0.46		0.29	µg/L	=	
CWC273161	CWCHSD-A	12/15/23	Metals	Arsenic	1.9		1.6	µg/L	=	
CWC273161	CWCHSD-A	12/15/23	Metals	Barium	110		0.69	µg/L	=	
CWC273161	CWCHSD-A	12/15/23	Metals	Cadmium	0.23		0.06	µg/L	=	
CWC273161	CWCHSD-A	12/15/23	Metals	Chromium	1.9		1.3	µg/L	J	F01
CWC273161	CWCHSD-A	12/15/23	Metals	Molybdenum	8.3		2	µg/L	=	
CWC273161	CWCHSD-A	12/15/23	Metals	Nickel	2.2		0.89	µg/L	=	
CWC273161	CWCHSD-A	12/15/23	Metals	Selenium	1.2		0.67	µg/L	=	
CWC273161	CWCHSD-A	12/15/23	Metals	Thallium	0.38		0.38	µg/L	U	
CWC273161	CWCHSD-A	12/15/23	Metals	Vanadium	4		4	µg/L	U	
CWC273161	CWCHSD-A	12/15/23	Alpha Spectroscopy	Th-228	0.376	0.407	0.532	pCi/L	UJ	T06
CWC273161	CWCHSD-A	12/15/23	Alpha Spectroscopy	Th-230	0.903	0.644	0.739	pCi/L	J	T04, T20
CWC273161	CWCHSD-A	12/15/23	Alpha Spectroscopy	Th-232	0	0.283	0.737	pCi/L	UJ	T06
CWC273161	CWCHSD-A	12/15/23	Alpha Spectroscopy	Ra-226	-0.0378	0.169	0.509	pCi/L	UJ	T06
CWC273161	CWCHSD-A	12/15/23	Alpha Spectroscopy	U-234	1.14	0.619	0.559	pCi/L	J	T04, T20
CWC273161	CWCHSD-A	12/15/23	Alpha Spectroscopy	U-235	0.187	0.325	0.689	pCi/L	UJ	T06
CWC273161	CWCHSD-A	12/15/23	Alpha Spectroscopy	U-238	0.435	0.375	0.401	pCi/L	J	T04, T20
CWC273162	CWCHSD-A	12/18/23	Metals	Antimony	0.71		0.29	µg/L	=	
CWC273162	CWCHSD-A	12/18/23	Metals	Arsenic	1.7		1.6	µg/L	=	
CWC273162	CWCHSD-A	12/18/23	Metals	Barium	53		0.69	µg/L	=	
CWC273162	CWCHSD-A	12/18/23	Metals	Cadmium	0.072		0.06	µg/L	=	
CWC273162	CWCHSD-A	12/18/23	Metals	Chromium	3.6		1.3	µg/L	J	F01
CWC273162	CWCHSD-A	12/18/23	Metals	Molybdenum	4.5		2	µg/L	=	
CWC273162	CWCHSD-A	12/18/23	Metals	Nickel	2.1		0.89	µg/L	=	
CWC273162	CWCHSD-A	12/18/23	Metals	Selenium	0.73		0.67	µg/L	=	
CWC273162	CWCHSD-A	12/18/23	Metals	Thallium	0.38		0.38	µg/L	U	
CWC273162	CWCHSD-A	12/18/23	Metals	Vanadium	4		4	µg/L	U	
CWC273162	CWCHSD-A	12/18/23	Alpha Spectroscopy	Th-228	0.317	0.303	0.355	pCi/L	UJ	T04, T05
CWC273162	CWCHSD-A	12/18/23	Alpha Spectroscopy	Th-230	0.92	0.512	0.355	pCi/L	J	T04, T20
CWC273162	CWCHSD-A	12/18/23	Alpha Spectroscopy	Th-232	0.0668	0.189	0.492	pCi/L	UJ	T06
CWC273162	CWCHSD-A	12/18/23	Alpha Spectroscopy	Ra-226	0.271	0.318	0.57	pCi/L	UJ	T06
CWC273162	CWCHSD-A	12/18/23	Alpha Spectroscopy	U-234	0.294	0.33	0.542	pCi/L	UJ	T06
CWC273162	CWCHSD-A	12/18/23	Alpha Spectroscopy	U-235	0	0.257	0.668	pCi/L	UJ	T06

Table E-3. CWC Daily Surface Water Data for CY 2023 (Continued)

Sample Name	Station Name	Collection Date	Method	Analyte	Result	DL	Error	Units	VQ	Validation Reason Code
CWC273162	CWCHSD-A	12/18/23	Alpha Spectroscopy	U-238	0.806	0.514	0.539	pCi/L	J	T04, T20
CWC273163	CWCHSD-A	12/19/23	Metals	Antimony	0.61		0.29	µg/L	=	
CWC273163	CWCHSD-A	12/19/23	Metals	Arsenic	1.6		1.6	µg/L	U	
CWC273163	CWCHSD-A	12/19/23	Metals	Barium	53		0.69	µg/L	=	
CWC273163	CWCHSD-A	12/19/23	Metals	Cadmium	0.06		0.06	µg/L	U	
CWC273163	CWCHSD-A	12/19/23	Metals	Chromium	2		1.3	µg/L	J	F01
CWC273163	CWCHSD-A	12/19/23	Metals	Molybdenum	5.1		2	µg/L	=	
CWC273163	CWCHSD-A	12/19/23	Metals	Nickel	1.8		0.89	µg/L	=	
CWC273163	CWCHSD-A	12/19/23	Metals	Selenium	0.88		0.67	µg/L	=	
CWC273163	CWCHSD-A	12/19/23	Metals	Thallium	0.38		0.38	µg/L	U	
CWC273163	CWCHSD-A	12/19/23	Metals	Vanadium	4		4	µg/L	U	
CWC273163	CWCHSD-A	12/19/23	Alpha Spectroscopy	Th-228	0.359	0.342	0.401	pCi/L	UJ	T04, T05
CWC273163	CWCHSD-A	12/19/23	Alpha Spectroscopy	Th-230	0.605	0.459	0.557	pCi/L	J	T04, T20
CWC273163	CWCHSD-A	12/19/23	Alpha Spectroscopy	Th-232	0.0566	0.156	0.401	pCi/L	UJ	T06
CWC273163	CWCHSD-A	12/19/23	Alpha Spectroscopy	Ra-226	0.297	0.348	0.624	pCi/L	UJ	T06
CWC273163	CWCHSD-A	12/19/23	Alpha Spectroscopy	U-234	0.469	0.36	0.4	pCi/L	J	T04, T20
CWC273163	CWCHSD-A	12/19/23	Alpha Spectroscopy	U-235	-0.0386	0.164	0.493	pCi/L	UJ	T06
CWC273163	CWCHSD-A	12/19/23	Alpha Spectroscopy	U-238	0.561	0.398	0.459	pCi/L	J	T04, T20
CWC273164	CWCHSD-A	12/20/23	Metals	Antimony	0.74		0.29	µg/L	=	
CWC273164	CWCHSD-A	12/20/23	Metals	Arsenic	1.6		1.6	µg/L	=	
CWC273164	CWCHSD-A	12/20/23	Metals	Barium	53		0.69	µg/L	=	
CWC273164	CWCHSD-A	12/20/23	Metals	Cadmium	0.06		0.06	µg/L	U	
CWC273164	CWCHSD-A	12/20/23	Metals	Chromium	2		1.3	µg/L	J	F01
CWC273164	CWCHSD-A	12/20/23	Metals	Molybdenum	5.1		2	µg/L	=	
CWC273164	CWCHSD-A	12/20/23	Metals	Nickel	1.6		0.89	µg/L	=	
CWC273164	CWCHSD-A	12/20/23	Metals	Selenium	0.78		0.67	µg/L	=	
CWC273164	CWCHSD-A	12/20/23	Metals	Thallium	0.38		0.38	µg/L	U	
CWC273164	CWCHSD-A	12/20/23	Metals	Vanadium	4		4	µg/L	U	
CWC273164	CWCHSD-A	12/20/23	Alpha Spectroscopy	Th-228	0.124	0.35	0.909	pCi/L	UJ	T06
CWC273164	CWCHSD-A	12/20/23	Alpha Spectroscopy	Th-230	1.21	0.801	0.657	pCi/L	J	T04, T20
CWC273164	CWCHSD-A	12/20/23	Alpha Spectroscopy	Th-232	0.123	0.35	0.909	pCi/L	UJ	T06
CWC273164	CWCHSD-A	12/20/23	Alpha Spectroscopy	Ra-226	0.138	0.258	0.579	pCi/L	UJ	T06
CWC273164	CWCHSD-A	12/20/23	Alpha Spectroscopy	U-234	0.183	0.234	0.353	pCi/L	UJ	T06
CWC273164	CWCHSD-A	12/20/23	Alpha Spectroscopy	U-235	0.123	0.24	0.524	pCi/L	UJ	T06

Table E-3. CWC Daily Surface Water Data for CY 2023 (Continued)

Sample Name	Station Name	Collection Date	Method	Analyte	Result	DL	Error	Units	VQ	Validation Reason Code
CWC273164	CWCHSD-A	12/20/23	Alpha Spectroscopy	U-238	0.315	0.3	0.352	pCi/L	UJ	T04, T05
CWC273165	CWCHSD-A	12/21/23	Metals	Antimony	0.66		0.29	µg/L	=	
CWC273165	CWCHSD-A	12/21/23	Metals	Arsenic	1.6		1.6	µg/L	=	
CWC273165	CWCHSD-A	12/21/23	Metals	Barium	59		0.69	µg/L	=	
CWC273165	CWCHSD-A	12/21/23	Metals	Cadmium	0.06		0.06	µg/L	U	
CWC273165	CWCHSD-A	12/21/23	Metals	Chromium	1.9		1.3	µg/L	J	F01
CWC273165	CWCHSD-A	12/21/23	Metals	Molybdenum	5.8		2	µg/L	=	
CWC273165	CWCHSD-A	12/21/23	Metals	Nickel	1.6		0.89	µg/L	=	
CWC273165	CWCHSD-A	12/21/23	Metals	Selenium	0.72		0.67	µg/L	=	
CWC273165	CWCHSD-A	12/21/23	Metals	Thallium	0.38		0.38	µg/L	U	
CWC273165	CWCHSD-A	12/21/23	Metals	Vanadium	4		4	µg/L	U	
CWC273165	CWCHSD-A	12/21/23	Alpha Spectroscopy	Th-228	0.169	0.293	0.62	pCi/L	UJ	T06
CWC273165	CWCHSD-A	12/21/23	Alpha Spectroscopy	Th-230	0.844	0.568	0.621	pCi/L	J	T04, T20
CWC273165	CWCHSD-A	12/21/23	Alpha Spectroscopy	Th-232	0	0.238	0.62	pCi/L	UJ	T06
CWC273165	CWCHSD-A	12/21/23	Alpha Spectroscopy	Ra-226	0.0722	0.289	0.777	pCi/L	UJ	T06
CWC273165	CWCHSD-A	12/21/23	Alpha Spectroscopy	U-234	0.681	0.484	0.557	pCi/L	J	T04, T20
CWC273165	CWCHSD-A	12/21/23	Alpha Spectroscopy	U-235	0	0.264	0.687	pCi/L	UJ	T06
CWC273165	CWCHSD-A	12/21/23	Alpha Spectroscopy	U-238	0.377	0.371	0.554	pCi/L	UJ	T04, T05
CWC273166	CWCHSD-A	12/26/23	Metals	Antimony	0.81		0.29	µg/L	=	
CWC273166	CWCHSD-A	12/26/23	Metals	Arsenic	1.6		1.6	µg/L	U	
CWC273166	CWCHSD-A	12/26/23	Metals	Barium	36		0.69	µg/L	=	
CWC273166	CWCHSD-A	12/26/23	Metals	Cadmium	0.06		0.06	µg/L	U	E01, E08
CWC273166	CWCHSD-A	12/26/23	Metals	Chromium	2.2		1.3	µg/L	J	F01
CWC273166	CWCHSD-A	12/26/23	Metals	Molybdenum	4.2		2	µg/L	=	
CWC273166	CWCHSD-A	12/26/23	Metals	Nickel	1.6		0.89	µg/L	J	F01
CWC273166	CWCHSD-A	12/26/23	Metals	Selenium	0.81		0.67	µg/L	=	
CWC273166	CWCHSD-A	12/26/23	Metals	Thallium	0.38		0.38	µg/L	U	
CWC273166	CWCHSD-A	12/26/23	Metals	Vanadium	4		4	µg/L	U	
CWC273166	CWCHSD-A	12/26/23	Alpha Spectroscopy	Th-228	0.335	0.468	0.981	pCi/L	UJ	T06
CWC273166	CWCHSD-A	12/26/23	Alpha Spectroscopy	Th-230	0.755	0.538	0.617	pCi/L	J	F01, T04, T20
CWC273166	CWCHSD-A	12/26/23	Alpha Spectroscopy	Th-232	-0.0209	0.173	0.445	pCi/L	UJ	T06
CWC273166	CWCHSD-A	12/26/23	Alpha Spectroscopy	Ra-226	0.15	0.26	0.553	pCi/L	UJ	T06
CWC273166	CWCHSD-A	12/26/23	Alpha Spectroscopy	U-234	0.408	0.362	0.5	pCi/L	UJ	T04, T05
CWC273166	CWCHSD-A	12/26/23	Alpha Spectroscopy	U-235	0.147	0.241	0.445	pCi/L	UJ	T06

Table E-3. CWC Daily Surface Water Data for CY 2023 (Continued)

Sample Name	Station Name	Collection Date	Method	Analyte	Result	DL	Error	Units	VQ	Validation Reason Code
CWC273166	CWCHSD-A	12/26/23	Alpha Spectroscopy	U-238	0.186	0.238	0.359	pCi/L	UJ	T06
CWC273167	CWCHSD-A	12/27/23	Metals	Antimony	0.55		0.29	µg/L	=	
CWC273167	CWCHSD-A	12/27/23	Metals	Arsenic	1.6		1.6	µg/L	U	
CWC273167	CWCHSD-A	12/27/23	Metals	Barium	41		0.69	µg/L	=	
CWC273167	CWCHSD-A	12/27/23	Metals	Cadmium	0.06		0.06	µg/L	U	E01, E08
CWC273167	CWCHSD-A	12/27/23	Metals	Chromium	2.2		1.3	µg/L	J	F01
CWC273167	CWCHSD-A	12/27/23	Metals	Molybdenum	5.2		2	µg/L	=	
CWC273167	CWCHSD-A	12/27/23	Metals	Nickel	2		0.89	µg/L	J	F01
CWC273167	CWCHSD-A	12/27/23	Metals	Selenium	0.69		0.67	µg/L	=	
CWC273167	CWCHSD-A	12/27/23	Metals	Thallium	0.38		0.38	µg/L	U	
CWC273167	CWCHSD-A	12/27/23	Metals	Vanadium	4		4	µg/L	U	
CWC273167	CWCHSD-A	12/27/23	Alpha Spectroscopy	Th-228	0.779	0.661	1.06	pCi/L	UJ	T04, T05
CWC273167	CWCHSD-A	12/27/23	Alpha Spectroscopy	Th-230	1.51	0.827	0.741	pCi/L	J	F01, T04, T20
CWC273167	CWCHSD-A	12/27/23	Alpha Spectroscopy	Th-232	0.176	0.29	0.534	pCi/L	UJ	T06
CWC273167	CWCHSD-A	12/27/23	Alpha Spectroscopy	Ra-226	0.133	0.231	0.491	pCi/L	UJ	T06
CWC273167	CWCHSD-A	12/27/23	Alpha Spectroscopy	U-234	0.409	0.353	0.378	pCi/L	J	T04, T20
CWC273167	CWCHSD-A	12/27/23	Alpha Spectroscopy	U-235	0.22	0.311	0.561	pCi/L	UJ	T06
CWC273167	CWCHSD-A	12/27/23	Alpha Spectroscopy	U-238	0.283	0.318	0.522	pCi/L	UJ	T06
CWC273168	CWCHSD-A	12/28/23	Metals	Antimony	0.54		0.29	µg/L	=	
CWC273168	CWCHSD-A	12/28/23	Metals	Arsenic	1.6		1.6	µg/L	U	
CWC273168	CWCHSD-A	12/28/23	Metals	Barium	40		0.69	µg/L	=	
CWC273168	CWCHSD-A	12/28/23	Metals	Cadmium	0.06		0.06	µg/L	U	E01, E08
CWC273168	CWCHSD-A	12/28/23	Metals	Chromium	2.3		1.3	µg/L	J	F01
CWC273168	CWCHSD-A	12/28/23	Metals	Molybdenum	4.3		2	µg/L	=	
CWC273168	CWCHSD-A	12/28/23	Metals	Nickel	1.4		0.89	µg/L	J	F01
CWC273168	CWCHSD-A	12/28/23	Metals	Selenium	0.94		0.67	µg/L	=	
CWC273168	CWCHSD-A	12/28/23	Metals	Thallium	0.38		0.38	µg/L	U	
CWC273168	CWCHSD-A	12/28/23	Metals	Vanadium	4		4	µg/L	U	
CWC273168	CWCHSD-A	12/28/23	Alpha Spectroscopy	Th-228	0.19	0.362	0.836	pCi/L	UJ	T06
CWC273168	CWCHSD-A	12/28/23	Alpha Spectroscopy	Th-230	0.935	0.531	0.442	pCi/L	J	F01, T04, T20
CWC273168	CWCHSD-A	12/28/23	Alpha Spectroscopy	Th-232	0.138	0.24	0.509	pCi/L	UJ	T06
CWC273168	CWCHSD-A	12/28/23	Alpha Spectroscopy	Ra-226	0.147	0.254	0.54	pCi/L	UJ	T06
CWC273168	CWCHSD-A	12/28/23	Alpha Spectroscopy	U-234	0.25	0.27	0.354	pCi/L	UJ	T06
CWC273168	CWCHSD-A	12/28/23	Alpha Spectroscopy	U-235	0.0823	0.233	0.606	pCi/L	UJ	T06

Table E-3. CWC Daily Surface Water Data for CY 2023 (Continued)

Sample Name	Station Name	Collection Date	Method	Analyte	Result	DL	Error	Units	VQ	Validation Reason Code
CWC273168	CWCHSD-A	12/28/23	Alpha Spectroscopy	U-238	0.1	0.194	0.424	pCi/L	UJ	T06
CWC273169	CWCHSD-A	12/30/23	Metals	Antimony	0.54		0.29	µg/L	=	
CWC273169	CWCHSD-A	12/30/23	Metals	Arsenic	1.6		1.6	µg/L	U	
CWC273169	CWCHSD-A	12/30/23	Metals	Barium	61		0.69	µg/L	=	
CWC273169	CWCHSD-A	12/30/23	Metals	Cadmium	0.06		0.06	µg/L	U	
CWC273169	CWCHSD-A	12/30/23	Metals	Chromium	2.6		1.3	µg/L	J	F01
CWC273169	CWCHSD-A	12/30/23	Metals	Molybdenum	8.6		2	µg/L	=	
CWC273169	CWCHSD-A	12/30/23	Metals	Nickel	1.6		0.89	µg/L	J	F01
CWC273169	CWCHSD-A	12/30/23	Metals	Selenium	1.5		0.67	µg/L	=	
CWC273169	CWCHSD-A	12/30/23	Metals	Thallium	0.38		0.38	µg/L	U	
CWC273169	CWCHSD-A	12/30/23	Metals	Vanadium	4		4	µg/L	U	
CWC273169	CWCHSD-A	12/30/23	Alpha Spectroscopy	Th-228	0.714	0.584	0.751	pCi/L	UJ	T04, T05
CWC273169	CWCHSD-A	12/30/23	Alpha Spectroscopy	Th-230	0.613	0.546	0.752	pCi/L	UJ	T04, T05
CWC273169	CWCHSD-A	12/30/23	Alpha Spectroscopy	Th-232	0.255	0.362	0.651	pCi/L	UJ	T06
CWC273169	CWCHSD-A	12/30/23	Alpha Spectroscopy	Ra-226	0.0325	0.145	0.438	pCi/L	UJ	T06
CWC273169	CWCHSD-A	12/30/23	Alpha Spectroscopy	U-234	0.565	0.434	0.481	pCi/L	J	T04, T20
CWC273169	CWCHSD-A	12/30/23	Alpha Spectroscopy	U-235	0	0.263	0.684	pCi/L	UJ	T06
CWC273169	CWCHSD-A	12/30/23	Alpha Spectroscopy	U-238	0.263	0.306	0.479	pCi/L	UJ	T06

VQs:

= - Indicates that the data met all QA/QC requirements, and that the parameter has been positively identified and the associated concentration value is accurate.

J - Indicates that the parameter was positively identified; the associated numerical value is the approximate concentration of the parameter in the sample.

U - Indicates that the data met all QA/QC requirements, and that the parameter was analyzed for but was not detected above the reported sample quantitation limit.

UJ - Indicates that the parameter was not detected above the reported sample quantitation limit and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample. However, the reported quantitation limit is approximate.

Validation Reason Codes:

E01 - Interference check sample recovery was outside the control limit.

E08 - Professional judgment was used to qualify the data.

F01 - Blanks: Sample data were qualified as a result of the method blank.

T04 - Radionuclide Quantitation: Professional judgment was used to qualify the data.

T05 - Radionuclide Quantitation: Analytical result is less than the associated MDA, but greater than the counting uncertainty.

T06 - Radionuclide Quantitation: Analytical result is less than both the associated counting uncertainty and MDA.

T20 - Radionuclide Quantitation: Analytical result is greater than the associated MDA, with uncertainty 50 percent to 100 percent of the result.

ATTACHMENT E-1

CALENDAR YEAR 2023 FIELD LOGBOOKS FOR COLDWATER CREEK SURFACE WATER AND SEDIMENT MONITORING

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COC#: LEΦ221Φ73-Φ7TA

DATE: 2-21-23

FIELD CREW: Lon Hoover, Nathan Gross

WEATHER: 40° Sunny

WELL ID: B53WΦ65 — SAMPLE ID: SVP26585Φ MW4 only

TOTAL DEPTH: 36.Φ — WELL DIAMETER: NBG 2-21-23 32.5 2"

SCREEN INTERVAL: 30.Φ-35.Φ — MIDDLE OF SCREEN: 32.5

STARTING WATER LEVEL: 15.2Φ — FINAL WATER LEVEL: 1Φ2Φ 6.72 Dbo 2-21-23

EVACUATION METHOD: Bladder Pump

EQUIPMENT SERIAL #'S: WJ-GLΦ11672 Horiba-GLΦ19432

Pump Controller-GLΦ11663

PURGE START TIME: ΦΦ953 — PURGE END TIME: 1Φ11 — TOTAL VOLUME PURGED: 36Φ

SAMPLE START TIME: 1Φ11 — SAMPLE END TIME: 1Φ2Φ

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
ΦΦ953	2Φ	-	6.77	1.9Φ	85.1	6.72	14.02	336	15.72
ΦΦ956	↓	6Φ	6.86	2.Φ2	12.4	3.71	13.98	331	15.87
ΦΦ959		12Φ	6.82	2.Φ5	12Φ	2.84	14.15	331	15.98
1ΦΦ2		18Φ	6.75	2.11	1Φ5	2.39	13.82	332	16.1Φ
1ΦΦ5		24Φ	6.71	2.15	87.7	2.11	13.25	333	16.2Φ
1ΦΦ8		3ΦΦ	6.69	2.17	79.5	2.18	12.85	333	16.31
1Φ11		36Φ	6.68	2.18	71.4	2.18	12.74	333	16.47

NBG 2-21-23

Recorded By: 2-21-23 — QA: 2/22/23

COC#'S: LEΦ4Φ52Φ23-Φ2TA

DATE: 4-3-23

FIELD CREW: Lon Hoover, Nathan Gross & Jared King

WEATHER: Mostly Sunny, 58°F

WELL ID: N/A — SAMPLE ID: CWC266267 CWC266269

TOTAL DEPTH: N/A — WELL DIAMETER: N/A

SCREEN INTERVAL: N/A — MIDDLE OF SCREEN: N/A

STARTING WATER LEVEL: N/A — FINAL WATER LEVEL: N/A

EVACUATION METHOD: N/A

EQUIPMENT SERIAL #'S: Horiba - GLΦ19432

4-3-23

PURGE START TIME: N/A — PURGE END TIME: N/A — TOTAL VOLUME PURGED: N/A

SAMPLE START TIME: Φ91Φ — SAMPLE END TIME: Φ92Φ

CΦ11

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
Φ9ΦΦ	N/A	N/A	6.9Φ	Φ.742	5.6	14.6Φ	13.48	3Φ2	N/A

4-3-23

Recorded By: 4/3/23 — QA: 4/7/23

DATE: 4-3-23

FIELD CREW: ~~See pg. # 69~~ 2# 4373 Lon Hoover, Nathan Gross & Jared King

WEATHER: Mostly Sunny, 58°F

WELL ID: N/A SAMPLE ID: CWC266261 CWC266262

TOTAL DEPTH: N/A WELL DIAMETER: N/A

SCREEN INTERVAL: N/A MIDDLE OF SCREEN: N/A

STARTING WATER LEVEL: N/A FINAL WATER LEVEL: N/A

EVACUATION METHOD: N/A

EQUIPMENT SERIAL #'S: Horiba - GLØ19432

PURGE START TIME: N/A PURGE END TIME: N/A TOTAL VOLUME PURGED: N/A

SAMPLE START TIME: Ø92Ø SAMPLE END TIME: Ø935

CØ1Ø

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
Ø915	N/A	N/A	7.63	Ø.916	13.2	11.78	13.62	243	N/A

4-3-23 LH

Recorded By: Jon S. Hoover 4/3/23 QA: [illegible] 4/7/23

DATE: 4-3-23

FIELD CREW: Lon Hoover, Nathan Gross & Jared King

TH 4.3.23

WEATHER: Mostly Sunny, 58°F

TH 4.3.23

DAILY TASK ACTIVITY:

ØSØØ - Meet at Tech Trailer to load equipment and calibrate equipment. Conduct Tailgate Safety Briefing - Topic: Water Safety.
Ø9ØØ - Arrive at CWCØ11 to collect surface water & sediment samples.
Ø92Ø - Complete sampling of CWCØ11. Move to next location.
Ø915 - Arrive at CWCØ1Ø to collect surface water & sediment samples.
Ø935 - Complete sampling of CWCØ1Ø. Move to next location.
Ø945 - Arrive at CWCØØ9 to collect surface water & sediment samples.
1Ø15 - Complete sampling of CØØ9. Move to next location.
1Ø25 - Arrive at CWCØØ8 to collect surface water & sediment samples.
1Ø5Ø - Complete sampling of CWCØØ8. Move to next location.
1Ø55 - Break for lunch.
12ØØ - Arrive at CØØ7 to collect surface water & sediment samples.
1235 - Complete sampling of CØØ7. Move to next location.
1245 - Arrive at CØØ6 to collect surface water & sediment samples.

Recorded By: Jon S. Hoover 4/3/23 QA: [illegible] 4/7/23

DATE: 4-3-23

FIELD CREW: See pg. #71

TH 4-3-23

WEATHER: See pg. #71

TH 4-3-23

DAILY TASK ACTIVITY:

1320 - Complete sampling of CWC006. Move to Trailer to unload equipment and samples.

4/3/23

ZH

Recorded By: Jm S. Hoffman 4/3/23

QA: [illegible] 4/7/23

LOC#'S - LE0405423-0XTA

11 -

DATE: 4-3-23

FIELD CREW: See pg. #71

WEATHER: See pg. #71

WELL ID: N/A

SAMPLE ID: LWC266259 LWC266260

TOTAL DEPTH: N/A

WELL DIAMETER: N/A

SCREEN INTERVAL: NA

MIDDLE OF SCREEN: N/A

STARTING WATER LEVEL: N/A

FINAL WATER LEVEL: N/A

EVACUATION METHOD: N/A

EQUIPMENT SERIAL #'S: Horiba - GL0019432

PURGE START TIME: N/A

PURGE END TIME: N/A

TOTAL VOLUME PURGED: N/A

SAMPLE START TIME: 0955

SAMPLE END TIME: 1015

C0009

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
0950	N/A	N/A	7.66	1.002	11.3	12.63	13.5	271	N/A

4-3-23

ZH

Recorded By: Jm S. Hoffman 4/3/23

QA: [illegible] 4/7/23

COC#'S: LE04052023-02TA
11

DATE: 4-3-23

FIELD CREW: See pg. #71

WEATHER: See pg. #71

WELL ID: N/A SAMPLE ID: CWC 266257 CWC 266258

TOTAL DEPTH: N/A WELL DIAMETER: N/A

SCREEN INTERVAL: N/A MIDDLE OF SCREEN: N/A

STARTING WATER LEVEL: N/A FINAL WATER LEVEL: N/A

EVACUATION METHOD: N/A

EQUIPMENT SERIAL #'S: Horiba - GLQ19432

PURGE START TIME: N/A PURGE END TIME: N/A TOTAL VOLUME PURGED: N/A

SAMPLE START TIME: 1040 SAMPLE END TIME: 1050

C0008

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1035	N/A	N/A	7.95	1.19	14.3	13.13	13.3	253	N/A

4-3-23 2H

Recorded By: Lon E. Hamm 4/3/23 QA: N/A 4/7/23

COC#'S: LE04052023-02TA
11 —

DATE: 4-3-23

FIELD CREW: See pg. #71

WEATHER: See pg. #71

WELL ID: N/A SAMPLE ID: CWC 266255 CWC 266256

TOTAL DEPTH: N/A WELL DIAMETER: N/A

SCREEN INTERVAL: N/A MIDDLE OF SCREEN: N/A

STARTING WATER LEVEL: N/A FINAL WATER LEVEL: N/A

EVACUATION METHOD: N/A

EQUIPMENT SERIAL #'S: Horiba - GLQ19432

PURGE START TIME: N/A PURGE END TIME: N/A TOTAL VOLUME PURGED: N/A

SAMPLE START TIME: 1225 SAMPLE END TIME: 1235

C0007

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1220	N/A	N/A	7.77	1.25	5.8	14.28	14.56	280	N/A

4-3-23 2H

Recorded By: Lon E. Hamm 4/3/23 QA: N/A 4/7/23

DATE: 4-4-23

FIELD CREW: Lon Hoover, Nathan Gross & Jared King

JH | 4.3.23

WEATHER: Slightly overcast, 65°F

JH | 4.3.23

DAILY TASK ACTIVITY:

0800 - Arrive at Tech Trailer to load equipment & calibrate equipment.
0815 - Arrive at C005 to collect surface water & sediment samples.
0840 - Complete sampling of C005. Move to next location.
0850 - Arrive at C004 to collect surface water & sediment samples.
0915 - Complete sampling of CWC004. Move to next location.
0925 - Arrive at CWC003 to collect surface water & sediment samples.
note: CWC003 is QA/QC location.
1015 - Complete sampling of CWC003. Move to next location.
1025 - Arrive at CWC002 to collect surface water & sediment samples.
1045 - Complete sampling of CWC002. Move to Trailer to off-load equipment and samples.

JH | 4.4.23

Recorded By: Lon Hoover 4/4/23 QA: NAS 4/7/23

DATE:

FIELD CREW:

WEATHER:

DAILY TASK ACTIVITY:

JH 4-4-23

Recorded By: QA:

DATE: 4-3-23

FIELD CREW: See pg. #71

WEATHER: See pg. #71

WELL ID: N/A SAMPLE ID:

TOTAL DEPTH: N/A WELL DIAMETER: N/A

SCREEN INTERVAL: N/A MIDDLE OF SCREEN: N/A

STARTING WATER LEVEL: N/A FINAL WATER LEVEL: N/A

EVACUATION METHOD: N/A

EQUIPMENT SERIAL #'S: Horiba - GLØ19432

PURGE START TIME: N/A PURGE END TIME: N/A TOTAL VOLUME PURGED: N/A

SAMPLE START TIME: 1255 SAMPLE END TIME: 132Ø

CØØ6

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
125Ø	N/A	N/A	7.8Ø	1.23	19.6	14.5Ø	14.88	276	N/A

4.3.23 ZH

Recorded By: Lm S. Hoom 4/3/23 QA: [signature] 4/7/23

COC#'S: LEØ4Ø52Ø23-Ø2TA

"

DATE: 4-4-23

FIELD CREW: See pg. #76

WEATHER: Slightly Overcast, 65°F

WELL ID: N/A SAMPLE ID: CWL 266251 CWL 266252

TOTAL DEPTH: N/A WELL DIAMETER: N/A

SCREEN INTERVAL: N/A MIDDLE OF SCREEN: N/A

STARTING WATER LEVEL: N/A FINAL WATER LEVEL: N/A

EVACUATION METHOD: N/A

EQUIPMENT SERIAL #'S: Horiba - GLØ19432

PURGE START TIME: N/A PURGE END TIME: N/A TOTAL VOLUME PURGED: N/A

SAMPLE START TIME: Ø825 SAMPLE END TIME: Ø84Ø

CØØ5

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
Ø82Ø	N/A	N/A	7.14	1.27	8.3	1Ø.17	14.6Ø	328	N/A

4.4.24 ZH

Recorded By: Lm S. Hoom 4/4/23 QA: [signature] 4/7/23

COC#'s: LE04452423 - 02TA
11 -

DATE: 4-4-23

FIELD CREW: See pg. #76

WEATHER: See pg. #76

WELL ID: N/A SAMPLE ID: CWC 266249 CWC 266250

TOTAL DEPTH: N/A WELL DIAMETER: N/A

SCREEN INTERVAL: N/A MIDDLE OF SCREEN: N/A

STARTING WATER LEVEL: N/A FINAL WATER LEVEL: N/A

EVACUATION METHOD: N/A

EQUIPMENT SERIAL #'S: Horiba - GL019432

PURGE START TIME: N/A PURGE END TIME: N/A TOTAL VOLUME PURGED: N/A

SAMPLE START TIME: 0900 SAMPLE END TIME: 0915

C004

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
0855	N/A	N/A	7.67	1.25	22.8	13.04	14.60	305	N/A

4/4/23

LH

Recorded By: [signature] 4/4/23 QA: [signature] 4/7/23

DATE:

FIELD CREW:

WEATHER:

DAILY TASK ACTIVITY:

LH

4-4-23

Recorded By: QA:

COC#'s: LEΦ4Φ52Φ23 - Φ2TA
" -
" - Φ3TO

DATE: 4.4.23

FIELD CREW: See pg. #76

WEATHER: See pg. #76

WELL ID: N/A SAMPLE ID: CWC 266 247 (-1 ; -2) CWC 266 248 (-1 ; -2)

TOTAL DEPTH: N/A WELL DIAMETER: N/A

SCREEN INTERVAL: N/A MIDDLE OF SCREEN: N/A

STARTING WATER LEVEL: N/A FINAL WATER LEVEL: N/A

EVACUATION METHOD: N/A

EQUIPMENT SERIAL #'S: Horiba - GLΦ19432

PURGE START TIME: N/A PURGE END TIME: N/A TOTAL VOLUME PURGED: N/A

SAMPLE START TIME: Φ94Φ SAMPLE END TIME: 1Φ15

CΦΦ3

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
Φ935	N/A	N/A	8.1Φ	1.15	25.9	12.41	14.77	276	N/A

4.4.23
ZH

Recorded By: Jon S. Horn 4.4.23 QA: [illegible] 4/7/23

COC#'s: LEΦ4Φ52Φ23-Φ2TA
"

DATE: 4.4.23

FIELD CREW: See pg. #76

WEATHER: See pg. #76

WELL ID: N/A SAMPLE ID: CWC 266 245 CWC 266 246

TOTAL DEPTH: N/A WELL DIAMETER: N/A

SCREEN INTERVAL: N/A MIDDLE OF SCREEN: N/A

STARTING WATER LEVEL: N/A FINAL WATER LEVEL: N/A

EVACUATION METHOD: N/A

EQUIPMENT SERIAL #'S: Horiba - GLΦ19432

PURGE START TIME: N/A PURGE END TIME: N/A TOTAL VOLUME PURGED: N/A

SAMPLE START TIME: 1Φ36 SAMPLE END TIME: 1Φ45

CΦΦ2

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1Φ3Φ	N/A	N/A	7.96	1.16	35.6	13.62	14.45	288	N/A

4.4.23
ZH

Recorded By: Jon S. Horn 4/4/23 QA: [illegible] 4/7/23

DATE: 9/7/23

FIELD CREW: Nathan Gross, Jared King
Witness: None.
NAG 9/7/23

WEATHER: 80° Sunny
NAG/9/7/23

DAILY TASK ACTIVITY: 0800 - Met at SLAPS to calibrate and load equipment. Safety topic: Working around trailers.
0840 - Departed for SLOS.
0905 - Arrived at SLOS. Signed in. Drove to DW21 to set up and sample.
0950 - Completed sampling DW21. Returned to SLOS.
1010 - Signed out. Departed for North County.
1030 Arrived at North County. Secured sample and off load equipment.
1100-1130 lunch
1130 Daily log continued in the HSD CWC daily logbook.

NAG 9-7-23

Note: Unable to sample DW14. Water level below pump.

Recorded By: NAG 9/7/23 QA: Lon S. Hoover 9/7/23

DATE: 10/4/23

FIELD CREW: Lon Hoover & Jared King Witness: none
JK 10.4.23

WEATHER: Partly Cloudy, 78°F
JK 10.4.23

DAILY TASK ACTIVITY: 0830 - Meet at SLAPS to calibrate Horiba and load equipment for Semi-annual CWC surface water & sediment sampling.
0915 - Arrive at CWC011 to collect samples.
0940 - Complete sampling of CWC011 and move to next location.
1015 - Arrive at CWC010 to collect samples.
1055 - Complete sampling of CWC010 and move to next location.
1110 - Arrive at CWC009 to collect samples.
1200 - Complete sampling of CWC009 and move to next location.
1225 - Arrive at CWC008 to collect samples.
1300 - Complete sampling of CWC008 and move to next location.
1320 - Arrive at CWC007 to collect samples.
1330 - Complete sampling of CWC007 and move to SLAPS to secure samples and off-load equipment.
JK 10.4.23

Recorded By: Lon S. Hoover 10/4/23 QA: 10-16-23

COC#'S: LE1Φ52Φ23-Φ2TA
" -Φ1ML
" -Φ3TD

DATE: 10/4/23

FIELD CREW: See pg. 91

WEATHER: See pg. 91

WELL ID: N/A SAMPLE ID: CWC2697Φ5 (-1,-2) CWC2697Φ6 (-1,-2)

TOTAL DEPTH: N/A WELL DIAMETER: N/A

SCREEN INTERVAL: N/A MIDDLE OF SCREEN: N/A

STARTING WATER LEVEL: N/A FINAL WATER LEVEL: N/A

EVACUATION METHOD: N/A

EQUIPMENT SERIAL #'S: Horiba = GLW1Φ3199

PURGE START TIME: N/A PURGE END TIME: N/A TOTAL VOLUME PURGED: N/A

SAMPLE START TIME: Φ925 SAMPLE END TIME: Φ94Φ

CWCΦ11

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
Φ92Φ	N/A	N/A	6.94	Φ.538	32.5	3.76	21.51	74Φ	N/A

1ft 10.4.23

Recorded By: Jon S. Thom 10/4/23 QA: 10-16-23

COC#'S: LE1Φ52Φ23-Φ2TA
" -Φ1ML

DATE: 10/4/23

FIELD CREW: See pg. 91

WEATHER: See pg. 91

WELL ID: N/A SAMPLE ID: CWC2697Φ5 CWC2697Φ4

TOTAL DEPTH: N/A WELL DIAMETER: N/A

SCREEN INTERVAL: N/A MIDDLE OF SCREEN: N/A

STARTING WATER LEVEL: N/A FINAL WATER LEVEL: N/A

EVACUATION METHOD: N/A

EQUIPMENT SERIAL #'S: Horiba = GLW1Φ8199

PURGE START TIME: N/A PURGE END TIME: N/A TOTAL VOLUME PURGED: N/A

SAMPLE START TIME: 1Φ4Φ SAMPLE END TIME: 1Φ55

CWCΦ1Φ

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1Φ3Φ	N/A	N/A	7.26	Φ.77Φ	2Φ.5	4.Φ5	21.9Φ	331	N/A

1ft 10.4.23

Recorded By: Jon S. Thom 10/4/23 QA: 10-16-23

COC#'s: LE10052023-02TA
" -01ML

DATE: 10/4/23

FIELD CREW: See pg. 91

WEATHER: See pg. 91

WELL ID: N/A SAMPLE ID: CWC69702 CWC69701

TOTAL DEPTH: N/A WELL DIAMETER: N/A

SCREEN INTERVAL: N/A MIDDLE OF SCREEN: N/A

STARTING WATER LEVEL: N/A FINAL WATER LEVEL: N/A

EVACUATION METHOD: N/A

EQUIPMENT SERIAL #'S: Horiba = GLW10J199

PURGE START TIME: N/A PURGE END TIME: N/A TOTAL VOLUME PURGED: N/A

SAMPLE START TIME: 1130 SAMPLE END TIME: 1200

CWC009

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1115	N/A	N/A	7.45	1.06	41.3	5.68	22.31	322	N/A

AH 10.4.23

Recorded By: Lou E. Hoover 10/4/23 QA: [signature] 10-16-23

DATE: 10/9/23

FIELD CREW: Lou Hoover & David King Witness: none

AH 10.9.23

WEATHER: Partly Sunny, 78°F

AH 10.9.23

DAILY TASK ACTIVITY: AH 10.9.23

0820- Meet at SLAPS to calibrate Horiba and load equipment for CWC semi-annual surface water and sediment sampling.

0855- Arrive at CWC006 to collect samples

0915- Complete sampling at CWC006 and move to next location.

AH 10.9.23

Recorded By: Lou E. Hoover 10/9/23 QA: [signature] 10-16-23

DATE:

FIELD CREW:

WEATHER:

DAILY TASK ACTIVITY:

ZH 10.9.23

Recorded By: QA:

COC#'S: LE10052023 - 02TA
" - 01ML

DATE: 10/4/23

FIELD CREW: See pg. 91

WEATHER: See pg. 91

WELL ID: N/A SAMPLE ID: CWC269699 CWC269700

TOTAL DEPTH: N/A WELL DIAMETER: N/A

SCREEN INTERVAL: N/A MIDDLE OF SCREEN: N/A

STARTING WATER LEVEL: N/A FINAL WATER LEVEL: N/A

EVACUATION METHOD: N/A

EQUIPMENT SERIAL #'S: Horiba = GLW105199

PURGE START TIME: N/A PURGE END TIME: N/A TOTAL VOLUME PURGED: N/A

SAMPLE START TIME: 1235 SAMPLE END TIME: 1300

CWC0008

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1230	N/A	N/A	7.74	1.17	16.7	7.35	22.05	276	N/A

ZH 10.4.23

Recorded By: Jan E. Hamm 10/4/23 QA: 10-16-23

COC#'S: LE1Φ52Φ23-Φ2TA
" -Φ1ML

DATE: 1Φ/4/23

FIELD CREW: See pg. 91

WEATHER: See pg. 91

WELL ID: N/A SAMPLE ID: CWC269697 CWC269698

TOTAL DEPTH: N/A WELL DIAMETER: N/A

SCREEN INTERVAL: N/A MIDDLE OF SCREEN: N/A

STARTING WATER LEVEL: N/A FINAL WATER LEVEL: N/A

EVACUATION METHOD: N/A

EQUIPMENT SERIAL #'S: Horiba = GLW1Φ3199

PURGE START TIME: N/A PURGE END TIME: N/A TOTAL VOLUME PURGED: N/A

SAMPLE START TIME: 1320 SAMPLE END TIME: 133Φ

CWCΦΦ7

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1315	N/A	N/A	7.72	1.19	18.4	5.31	21.96	284	N/A

ZH 10.4.23

Recorded By: Lucy Thomas 1Φ/4/23 QA: [signature] 10-16-23

COC#'S: LE1ΦΦ92Φ23-Φ3TA
" -Φ2ML

DATE: 1Φ/9/23

FIELD CREW: See pg. 95

WEATHER: See pg. 95

WELL ID: N/A SAMPLE ID: CWC269695 CWC269696

TOTAL DEPTH: N/A WELL DIAMETER: N/A

SCREEN INTERVAL: N/A MIDDLE OF SCREEN: N/A

STARTING WATER LEVEL: N/A FINAL WATER LEVEL: N/A

EVACUATION METHOD: N/A

EQUIPMENT SERIAL #'S: Horiba = GLW1Φ3199

PURGE START TIME: N/A PURGE END TIME: N/A TOTAL VOLUME PURGED: N/A

SAMPLE START TIME: ΦΦ91Φ SAMPLE END TIME: ΦΦ915

CWCΦΦ6

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
ΦΦΦΦ	N/A	N/A	6.46	1.Φ6	22.3	7.8Φ	15.55	366	N/A

ZH 1Φ.9.23

Recorded By: Lucy Thomas 1Φ/9/23 QA: [signature] 10-16-23

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Recorded By:_____ QA:_____

DATE: 10/9/23

FIELD CREW: Lou Hoover & Jared King Witness: none

TH 10.9.23

WEATHER: Cloudy, 67°F

TH 10.9.23

DAILY TASK ACTIVITY: 0830 - Meet at SLAPS to calibrate Horiba and load equipment for surface water sampling of CWC.
0930 - Arrive at CWC005 to collect samples.
0945 - Complete sampling of CWC005 and move to next location.
1010 - Arrive at CWC004 to collect samples.
1025 - Complete sampling of CWC004 and move to next location.
1040 - Arrive at CWC003 to collect samples.
1055 - Complete sampling of CWC003 and break for lunch.
1210 - Arrive at CWC002 to collect samples.
1220 - Complete sampling of CWC002 and return to SLAPS to secure samples and off-load equipment.

10-9-23
TH

Recorded By: Lou Hoover 10/9/23 QA: Nadia 1/16/24

DATE:

FIELD CREW:

WEATHER:

DAILY TASK ACTIVITY: 10-9-23 AH

Recorded By: QA:

COC#: LE10092073-02ML
11 -03TA

DATE: 10/9/23

FIELD CREW: See pg. # 1
11

WEATHER:

WELL ID: N/A SAMPLE ID: CWC 269693 CWC 269694

TOTAL DEPTH: N/A WELL DIAMETER: N/A

SCREEN INTERVAL: N/A MIDDLE OF SCREEN: N/A

STARTING WATER LEVEL: N/A FINAL WATER LEVEL: N/A

EVACUATION METHOD: N/A

EQUIPMENT SERIAL #'S: Horiba = GLW 10319 9

PURGE START TIME: N/A PURGE END TIME: N/A TOTAL VOLUME PURGED: N/A

SAMPLE START TIME: 0940 SAMPLE END TIME: 0945

AH 10.9.23 CWC005

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
0935	N/A	N/A	7.37	1.06	18.6	10.81	15.70	294	N/A

AH 10.9.23

Recorded By: Jan E. Hamm 10/9/23 QA: 1/2/24

COC#'S: LE1ΦΦ92ΦZ3-Φ2ML
" -Φ3TA

DATE: 1Φ/9/23

FIELD CREW: See pg. #1

WEATHER: "

WELL ID: N/A SAMPLE ID: CWC269621 CWC267692

TOTAL DEPTH: N/A WELL DIAMETER: N/A

SCREEN INTERVAL: N/A MIDDLE OF SCREEN: N/A

STARTING WATER LEVEL: N/A FINAL WATER LEVEL: N/A

EVACUATION METHOD: N/A

EQUIPMENT SERIAL #'S: Horiba = GLW 1Φ3199

PURGE START TIME: N/A PURGE END TIME: N/A TOTAL VOLUME PURGED: N/A

SAMPLE START TIME: 1Φ2Φ SAMPLE END TIME: 1Φ25

CWCΦΦ4

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1Φ15	N/A	N/A	7.94	1.Φ8	44.6	8.55	15.81	267	N/A

1Φ-9-23 TH

Recorded By: Lee S. Thomm 1Φ/9/23 QA: 1/16/24

COC#'S: LE1ΦΦ92ΦZ3-Φ2ML
" -Φ3TA

DATE: 1Φ/9/23

FIELD CREW: See pg. #1

WEATHER: "

WELL ID: N/A SAMPLE ID: CWC269689 CWC269690

TOTAL DEPTH: N/A WELL DIAMETER: N/A

SCREEN INTERVAL: N/A MIDDLE OF SCREEN: N/A

STARTING WATER LEVEL: N/A FINAL WATER LEVEL: N/A

EVACUATION METHOD: N/A

EQUIPMENT SERIAL #'S: Horiba = GLW 1Φ3199

PURGE START TIME: N/A PURGE END TIME: N/A TOTAL VOLUME PURGED: N/A

SAMPLE START TIME: 1Φ5Φ SAMPLE END TIME: 1Φ55

CWCΦ3

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1Φ45	N/A	N/A	17.71	1.Φ7	45.6	1Φ.57	17.7Φ	263	N/A

TH 1Φ-9-23

Recorded By: Lee S. Thomm 1Φ/9/23 QA: 1/16/24

COC#'s: LE10093013-02ML
" -03STA

DATE: 10/9/13

FIELD CREW: See pg. #1
"

WEATHER:

WELL ID: N/A SAMPLE ID: CWC269687
CWC262688

TOTAL DEPTH: N/A WELL DIAMETER: N/A

SCREEN INTERVAL: N/A MIDDLE OF SCREEN: N/A

STARTING WATER LEVEL: N/A FINAL WATER LEVEL: N/A
N/A

EVACUATION METHOD: N/A

EQUIPMENT SERIAL #'S: Horiba = GLW103129

PURGE START TIME: N/A PURGE END TIME: N/A TOTAL VOLUME PURGED: N/A

SAMPLE START TIME: 1215 SAMPLE END TIME: 1220

CWC002

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1210	N/A	N/A	8.20	1.05	51.2	10.71	18.73	273	N/A

10.9.13
RH

Recorded By: Lee E. Thomas 10/9/13 QA: [illegible] 1/16/14

DATE:

FIELD CREW:

WEATHER:

WELL ID: SAMPLE ID:

TOTAL DEPTH: WELL DIAMETER:

SCREEN INTERVAL: MIDDLE OF SCREEN:

STARTING WATER LEVEL: FINAL WATER LEVEL:

EVACUATION METHOD:

EQUIPMENT SERIAL #'S:

PURGE START TIME: PURGE END TIME: TOTAL VOLUME PURGED:

SAMPLE START TIME: SAMPLE END TIME:

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)

1H 10.26.13

Recorded By: QA:

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Recorded By:_____ QA:_____

TE: 7/24/23

LD CREW: Lou Hoover & Hannah Hutton no witness

1H 7.24.23

ATHER: Partly Cloudy, 91°F

1H 7.24.23

ILY TASK ACTIVITY: 1115 - Arrive at SLAPS to calibrate and load equipment for CWC daily sampling at HSD.
1215 - Arrive at sampling location and taking water quality measurements.
1235 - Take water samples for Rad & metals directly from creek.
1240 - Complete sampling and returning to SLAPS to secure samples and off-load equipment.

7.24.23
1H

Recorded By: 1H S. Hutton QA: 1H King 8-10-23

COC: LEO7272023-09TA
LEO7272023-08ML

DATE: 7/24/23

FIELD CREW: Lon Hoover & Hannah Hutton

WEATHER: Partly Cloudy, 91°F

WELL ID: N/A SAMPLE ID: CWC267908

TOTAL DEPTH: N/A WELL DIAMETER: N/A

SCREEN INTERVAL: N/A MIDDLE OF SCREEN: N/A

STARTING WATER LEVEL: N/A FINAL WATER LEVEL: N/A

EVACUATION METHOD: N/A

EQUIPMENT SERIAL #'S: Horiba = GLW1803199

PURGE START TIME: N/A PURGE END TIME: N/A TOTAL VOLUME PURGED: N/A

SAMPLE START TIME: 1239 SAMPLE END TIME: 1240

CWCHSD

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1230	N/A	N/A	7.50	0.805	39.4	5.39	26.47	248	N/A

7.24.23
LH

Recorded By: [signature] 7/24/23

QA: [signature] 8-10-23

DATE: 7/25/23

FIELD CREW: Lon Hoover, Jared King

LH 7.25.23

WEATHER: Mostly Sunny, 93°F

LH 7.25.23

DAILY TASK ACTIVITY: 1115 - Arrive at SLAPS to calibrate equipment and load for sampling at CWCHSD for Rad & metals (SW).

1150 - Arrive at sampling location and taking water quality measurements.

1210 - Take surface water samples for Rad & Metals directly from Creek.

1224 - Complete sampling. Returning to SLAPS to secure samples and off-load equipment.

7.25.23
LH

Recorded By: [signature] 7/25/23 QA: [signature] 8-10-23

COC: LE0727 2023-07TA
LE0727 2023-06ML

DATE: 7/25/23

FIELD CREW: Lea Hoover ; Jaird King No witness

WEATHER: Mostly Sunny, 93°F

WELL ID: N/A SAMPLE ID: CWC 267909

TOTAL DEPTH: N/A WELL DIAMETER: N/A

SCREEN INTERVAL: N/A MIDDLE OF SCREEN: N/A

STARTING WATER LEVEL: N/A FINAL WATER LEVEL: N/A

EVACUATION METHOD: N/A

EQUIPMENT SERIAL #'S: Horiba = GLW 103199

PURGE START TIME: N/A PURGE END TIME: N/A TOTAL VOLUME PURGED: N/A

SAMPLE START TIME: 1210 SAMPLE END TIME: 1225

CWC 450

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1200	N/A	N/A	7.52	0.930	40.1	5.24	27.71	270	N/A

7.25.23 JK

Recorded By: [signature] 7/25/23 QA: [signature] 8-10-23

DATE: 7/26/23

FIELD CREW: Lea Hoover ; Jaird King No witness

JK 7.26.23

WEATHER: Mostly Cloudy, 95°F

JK 7.26.23

DAILY TASK ACTIVITY: 1100 – Arrive at SLAPS to calibrate instrument & load equipment for surface water sampling of CWC50.
1150 - Arrive at sampling location and preparing to take water quality measurements.
1200 - Take surface water samples directly from creek (lab. & metals).
1210 – Complete sampling. Return to SLAPS to secure samples and off-load equipment.

7.26.23 JK

Recorded By: [signature] 7/26/23 QA: [signature] 8-10-23

COC: LE07272023
LE07272023-04ML

DATE: 7/26/23

FIELD CREW: Lou Hoover ; Jared King No witness

WEATHER: Mostly Cloudy, 95°F

WELL ID: N/A SAMPLE ID: CWC267910

TOTAL DEPTH: N/A WELL DIAMETER: N/A

SCREEN INTERVAL: N/A MIDDLE OF SCREEN: N/A

STARTING WATER LEVEL: N/A FINAL WATER LEVEL: N/A

EVACUATION METHOD: N/A

EQUIPMENT SERIAL #'S: Horiba = GLW103199

PURGE START TIME: N/A PURGE END TIME: N/A TOTAL VOLUME PURGED: N/A

SAMPLE START TIME: 1240 SAMPLE END TIME: 1210

CWC HSD

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC
1155	N/A	N/A	7.45	0.732	50.1	5.40	27.86	272	N/A

7.26.23
ZH

Recorded By: Lou Hoover 7/26/23 QA: [signature] 8-10-23

DATE: 7/27/23

FIELD CREW: Lou Hoover ; Jared King No Witness

ZH | 7.27.23

WEATHER: Mostly Sunny, 90°F

ZH | 7.27.23

DAILY TASK ACTIVITY: ~~0800~~ ZH 7.27.23

1100 - Arrive at SLAFS to calibrate instrument & load sampling equipment for Surface Water Sampling at HSD.

1130 - Arrive at sampling location and preparing to take water quality measurements.

1150 - Take surface water samples for Rad & Metals directly from CWC.

1205 - Complete sampling and return to SLAFS to secure samples and off-load equipment.

7.27.23
ZH

Recorded By: Lou Hoover 7/27/23 QA: [signature] 8-10-23

COC: LE07272023-03TA
LE07272023-02ML

DATE: 7/27/23

FIELD CREW: Lou Hoover, Jared King — No Witness

WEATHER: Mostly Sunny, 90°F

WELL ID: N/A — SAMPLE ID: CWC267911

TOTAL DEPTH: N/A — WELL DIAMETER: N/A

SCREEN INTERVAL: N/A — MIDDLE OF SCREEN: N/A

STARTING WATER LEVEL: N/A — FINAL WATER LEVEL: N/A

EVACUATION METHOD: N/A

EQUIPMENT SERIAL #'S: Horiba = GLW103199

PURGE START TIME: N/A — PURGE END TIME: N/A — TOTAL VOLUME PURGED: N/A

SAMPLE START TIME: 1150 — SAMPLE END TIME: 1205

CWC HSO

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC
1145	N/A	N/A	7.36	0.785	29.5	4.16	28.64	279	N/A

7.27.23
JH

Recorded By: Lou Hoover 7/27/23 QA: J King 8-10-23

DATE: 7-31-23

FIELD CREW: Lou Hoover & Jared King

JH 7-31-23

WEATHER: Overcast, 85°F

JH 7-31-23

DAILY TASK ACTIVITY: 1100 - Arrive at SLAPS to calibrate equipment and load up for sampling of CWC at HSO.

1155 - Arrive at HSO. Get ready for taking water quality measurements.

1205 - Complete water quality measurements.

1210 - Taking surface water samples directly from Creek.

1215 - Complete sampling of CWC and returning to SLAPS to secure samples and off load equipment.

7.31.23
JH

Recorded By: Lou Hoover 7/31/23 QA: J King 8-10-23

COC: LG08032023-04TA
LG08032023-03ML

DATE: 7/31/23

FIELD CREW: Lon Hoover, Jaicd King Witness: Cory Booker

WEATHER: Mostly overcast, 85°F

WELL ID: N/A SAMPLE ID: CWC217912

TOTAL DEPTH: N/A WELL DIAMETER: N/A

SCREEN INTERVAL: N/A MIDDLE OF SCREEN: N/A

STARTING WATER LEVEL: N/A FINAL WATER LEVEL: N/A

EVACUATION METHOD: N/A

EQUIPMENT SERIAL #'S: Horiba = ~~wet~~ GW = 103199

PURGE START TIME: N/A PURGE END TIME: N/A TOTAL VOLUME PURGED: N/A

SAMPLE START TIME: 1210 SAMPLE END TIME: 1215

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1205	N/A	N/A	7.24	0.365	25.6	7.71	26.62	3006	

7-31-23
JH

Recorded By: JME. Hoover 7/31/23 QA: J King 8-10-23

DATE: 8/1/23

FIELD CREW: Lon Hoover ; Jaicd King Witness: none

JH 8.1.23

WEATHER: Partly Sunny, 78°F

JH 8.1.23

DAILY TASK ACTIVITY: 1100 - Arrive at SLAPS to calibrate equipment and load up for CWC HSD sampling of surface water.
1145 - Arrive at HSD and set up to collect water quality measurements.
1155 - Take water quality measurements with Horiba.
1205 - Take water samples directly from creek for Rad.'s metals.
1215 - Complete sampling and return to SLAPS to secure samples and off-load equipment.

8.1.23
JH

Recorded By: JME. Hoover 8/1/23 QA: J King 8-10-23

COC: LE08032023-06TA
LE08032023-05ML

DATE: 8/1/23

FIELD CREW: Lou Hoover & Jared King Witness: none

WEATHER: Partly Sunny, 78°F

WELL ID: N/A SAMPLE ID: CWC 267913

TOTAL DEPTH: N/A WELL DIAMETER: N/A

SCREEN INTERVAL: N/A MIDDLE OF SCREEN: N/A

STARTING WATER LEVEL: N/A FINAL WATER LEVEL: N/A

EVACUATION METHOD: N/A

EQUIPMENT SERIAL #'S: Horiba = GLW 103199

PURGE START TIME: N/A PURGE END TIME: N/A TOTAL VOLUME PURGED: N/A

SAMPLE START TIME: 1205 SAMPLE END TIME: 1215

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1155	N/A	N/A	7.29	0.443	30.9	4.45	25.36	534	N/A

8.1.23
LH

Recorded By: Lou Hoover 8/1/23 QA: Jared King 8-10-23

DATE: 8/3/23

FIELD CREW: Lou Hoover & Jared King Witness: none

LH 8.3.23

WEATHER: Mostly Cloudy, 79°F

LH 8.3.23

DAILY TASK ACTIVITY: 1100 - Arrive at SLAPS to calibrate Horiba and load sampling equipment.

1135 - Arrive at CWC HSD to collect surface water samples for Rad. & metals.

1150 - Preparing to take water quality measurements from creek.

1200 - Taking surface water samples directly from Creek.

1205 - Complete sampling and moving to SLAPS to secure samples and off-load equipment.

8.3.23
LH

Recorded By: Lou Hoover 8/3/23 QA: Jared King 8-10-23

COC: LE08032023-08TA
LG08032023-07MC

DATE: 8/3/23

FIELD CREW: Lon Hoover & Jared King Witness: none

WEATHER: Mostly Cloudy, 79°F

WELL ID: N/A SAMPLE ID: CWC 267914

TOTAL DEPTH: N/A WELL DIAMETER: N/A

SCREEN INTERVAL: N/A MIDDLE OF SCREEN: N/A

STARTING WATER LEVEL: N/A FINAL WATER LEVEL: N/A

EVACUATION METHOD: N/A

EQUIPMENT SERIAL #'S: Horiba = GLW103199

PURGE START TIME: N/A PURGE END TIME: N/A TOTAL VOLUME PURGED: N/A

SAMPLE START TIME: 1200 SAMPLE END TIME: 1205

CWC HSD

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1155	N/A	N/A	7.40	0.373	49.4	5.71	24.66	360	N/A

8.3.23 LH

Recorded By: Lon Hoover 8/3/23 QA: 8-10-23

DATE: 8/7/23

FIELD CREW: Lon Hoover & Jared King Witness: none

LH 8-7-23

WEATHER: Mostly Sunny, 76°F

LH 8-7-23

DAILY TASK ACTIVITY: 1100 – Arrive at SLAFS to calibrate Horiba & load equipment for sampling CWC at HSD (Rad. & Metals).
1150 - Arrive at HSD and setup to collect surface water quality measurements using Horiba.
1155 - Complete collection of water quality measurements.
1210 - Begin sampling surface water of CWC for Rad. & metals.
1220 - Complete sampling of creek and returning to SLAFS to secure samples and off-load equipment.

8.7.23 LH

Recorded By: Lon Hoover 8/7/23 QA: 8-10-23

COC: LE08102023-02 ML
LE08102023-03TA

DATE: 8/7/23

FIELD CREW: Lou Hoover & Jared King Witness: none

WEATHER: Mostly Sunny, 76°F

WELL ID: N/A SAMPLE ID: CWC 267 915

TOTAL DEPTH: N/A WELL DIAMETER: N/A

SCREEN INTERVAL: N/A MIDDLE OF SCREEN: N/A

STARTING WATER LEVEL: N/A FINAL WATER LEVEL: N/A

EVACUATION METHOD: N/A

EQUIPMENT SERIAL #'S: Horiba = 6LW1Φ3199

PURGE START TIME: N/A PURGE END TIME: N/A TOTAL VOLUME PURGED: N/A

SAMPLE START TIME: 12ΙΦ SAMPLE END TIME: 122Φ

CWC HSD

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1152	N/A	N/A	7.38	Φ.428	49.1	5.16	25.19	341	N/A

8.7.23
ZH

Recorded By: Lou Hoover 8/7/23 QA: 8.10.23

DATE: 8/8/23

FIELD CREW: Lou Hoover & Jared King Witness: none

ZH 8.8.23

WEATHER: Mostly Sunny, 80°F

ZH 8.8.23

DAILY TASK ACTIVITY: 11ΦΦ - Arrive at SLAPS to calibrate Horiba & load sampling equipment for surface water samples at CWC HSD (Redox & metals).

1150 - Arrive at HSD and preparing to collect water quality measurements From CWC using Horiba.

1155 - Complete collection of surface water quality measurements.

1205 - Begin sampling surface water for Redox & metals directly from CWC.

1215 - Complete sampling of CWC and returning to SLAPS to secure samples and off-load equipment.

8.8.23
ZH

Recorded By: Lou Hoover 8/8/23 QA: 8.10.23

COC: LC0810 2023-04MC
LE0810 2023-05TA

DATE: 8/8/23

FIELD CREW: Lou Hoover ? Jared King Witness: None

WEATHER: Mostly Sunny, 80°F

WELL ID: N/A SAMPLE ID: CWC267916

TOTAL DEPTH: N/A WELL DIAMETER: N/A

SCREEN INTERVAL: N/A MIDDLE OF SCREEN: N/A

STARTING WATER LEVEL: N/A FINAL WATER LEVEL: N/A

EVACUATION METHOD: N/A

EQUIPMENT SERIAL #'S: Horiba = GLW103199

PURGE START TIME: N/A PURGE END TIME: N/A TOTAL VOLUME PURGED: N/A

SAMPLE START TIME: 1205 SAMPLE END TIME: 1215

CWC HSD

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1052	N/A	N/A	7.33	0.673	31.2	5.75	25.27	361	N/A

8.8.23
KH

Recorded By: Lou S. Hoover 8/9/23 QA: J King 8-10-23

DATE: 8/9/23

FIELD CREW: Lou Hoover ? Jared King Witness: none

KH 8.9.23

WEATHER: Cloudy, Slight drizzle beginning, 77°F

KH 8.9.23

DAILY TASK ACTIVITY: 1005 - Arrive at SLAVS to calibrate & load equipment for surface water sampling at HSD.
1015 - Arrive at HSD and preparing to collect water quality measurements from CWC.
1020 - Complete collection of water quality measurements.
1025 - Collect surface water samples directly from CWC.
1030 - Complete sampling and moving to SLAVS to secure samples and off-load equipment.

8.9.23
KH

Recorded By: Lou S. Hoover 8/9/23 QA: J King 8-10-23

COC: LE0810202B-06ML
LE0810202B-07TA

DATE: 8/9/23

FIELD CREW: Lon Hoover & Jared King Witness: none

WEATHER: Cloudy, slight drizzle, 77°F

WELL ID: N/A SAMPLE ID: CWC267817

TOTAL DEPTH: N/A WELL DIAMETER: N/A

SCREEN INTERVAL: N/A MIDDLE OF SCREEN: N/A

STARTING WATER LEVEL: N/A FINAL WATER LEVEL: N/A

EVACUATION METHOD: N/A

EQUIPMENT SERIAL #'S: Horiba = GLW103199

PURGE START TIME: N/A PURGE END TIME: N/A TOTAL VOLUME PURGED: N/A

SAMPLE START TIME: 1025 SAMPLE END TIME: 1030

CWC HSO

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1017	N/A	N/A	7.31	0.762	37.9	4.62	24.19	375	N/A

8.9.23
JH

Recorded By: Lon Hoover 8/9/23 QA: J King 8-10-23

DATE: 8/10/23

FIELD CREW: Lon Hoover & Jared King Witness: none

JH | 8.10.23

WEATHER: Mostly Sunny, 82°F

JH | 8.10.23

DAILY TASK ACTIVITY: 1100 - Arrive at SLAPS to calibrate Horiba and load up sampling equipment for CWC HSD surface water sampling (And metals).

1145 - Arrive at HSD and preparing to collect water quality measurements with Horiba from CWC.

1155 - Complete water quality measurements.

1200 - Begin taking surface water samples directly from creek.

1210 - Complete sampling of CWCHSD. Returning to SLAPS to secure samples and off-load equipment.

8.10.23
JH

Recorded By: Lon Hoover 8/10/23 QA: J King 8-10-23

COC: LEQ8102023-09ML
LEQ8102023-10TA

DATE: 8/10/23

FIELD CREW: Lea Hoover & Jared King Witness: none

WEATHER: Mostly Sunny, 82°F

WELL ID: N/A SAMPLE ID: CWC267919

TOTAL DEPTH: N/A WELL DIAMETER: N/A

SCREEN INTERVAL: N/A MIDDLE OF SCREEN: N/A

STARTING WATER LEVEL: N/A FINAL WATER LEVEL: N/A

EVACUATION METHOD: N/A

EQUIPMENT SERIAL #'S: Horiba = GLW103199

PURGE START TIME: N/A PURGE END TIME: N/A TOTAL VOLUME PURGED: N/A

SAMPLE START TIME: 1200 SAMPLE END TIME: 1210

CWC HSD

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1147	N/A	N/A	7.34	0.675	46.7	5.50	24.94	348	N/A

8.10.23
ZH

Recorded By: Lea Hoover 8/10/23 QA: JKing 8-10-23

DATE: 8/14/23

FIELD CREW: Lea Hoover & Jared King Witness: none

ZH | 8.14.23

WEATHER: Mostly Cloudy, 76°F

ZH | 8.14.23

DAILY TASK ACTIVITY: 1100 - Meet at SLAPS to calibrate Horiba and load sampling equipment for surface water sampling of CWC at HSD.

1150 - Arrive at HSD and prepare to collect water quality measurements from CWC HSD using Horiba.

1200 - Complete ~~sampling of~~ collection of water quality measurements. ZH 8.14.23

1205 - Collect surface water samples for Rad.'s & metals directly from creek.

1210 - Complete surface water sampling and return to SLAPS to secure samples and off-load equipment.

8.14.23
ZH

Recorded By: Lea Hoover 8/14/23 QA: JKing 8-24-23

cc: LE0817202 3-03TA
LE0817202 3-02ML

DATE: 8/14/23

FIELD CREW: Lou Hoover & Sarah King Witness: None

WEATHER: Mostly Cloudy, ~~76°F~~ 76°F

WELL ID: N/A SAMPLE ID: CWC267919

TOTAL DEPTH: N/A WELL DIAMETER: N/A

SCREEN INTERVAL: N/A MIDDLE OF SCREEN: N/A

STARTING WATER LEVEL: N/A FINAL WATER LEVEL: N/A

EVACUATION METHOD: N/A

EQUIPMENT SERIAL #'S: Horiba = GLW103199

PURGE START TIME: N/A PURGE END TIME: N/A TOTAL VOLUME PURGED: N/A

SAMPLE START TIME: 1205 SAMPLE END TIME: 1210

CWC HSD

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1155	N/A	N/A	7.31	0.214	139	6.41	24.44	327	N/A

8-14-23
LH

Recorded By: Lou Hoover 8/14/23 QA: 8-24-23

DATE: 8/15/23

FIELD CREW: Lou Hoover & Hannah Hutton Witness: Cory Booker

LH 8.15.23

WEATHER: Partly Cloudy. 72°F

LH 8.15.23

DAILY TASK ACTIVITY: 1100 - Arrive at SLAPS to calibrate Horiba and load equipment for surface water samplings of CWC at HSD.

1150 - Arrive at C&C HSD and preparing to collect water quality measurements From CWC using Horiba.

1200 - Complete water quality measurements.

1205 - Collecting samples For Rad. & metals directly from the creek.

1210 - Complete sampling of CWC and returning to SLAPS to secure samples and off-load equipment.

8.15.23
LH

Recorded By: Lou Hoover 8/15/23 QA: 8-24-23

COC: LE08172023-0STA
LE08172023-0UML

DATE: 8/15/23

FIELD CREW: Lou Hoover & Hannah Hutton Witness: Cory Booker

WEATHER: Partly Cloudy, 72°F

WELL ID: N/A SAMPLE ID: CWC267920

TOTAL DEPTH: N/A WELL DIAMETER: N/A

SCREEN INTERVAL: N/A MIDDLE OF SCREEN: N/A

STARTING WATER LEVEL: N/A FINAL WATER LEVEL: N/A

EVACUATION METHOD: N/A

EQUIPMENT SERIAL #'S: Horiba = GLW1Ø3199

PURGE START TIME: N/A PURGE END TIME: N/A TOTAL VOLUME PURGED: N/A

SAMPLE START TIME: 1157 SAMPLE END TIME: 12Ø7

CWC HSD

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1155	N/A	N/A	7.27	Ø.324	43.5	5.96	23.36	394	N/A

8.15.23
LH

Recorded By: Lou E. Hoover 8/15/23 QA: 8-24-23

DATE: 8/16/23

FIELD CREW: Lou Hoover & Nathan Gross Witness: none

LH 8.16.23

WEATHER: Mostly Sunny, 79°F

LH 8.16.23

DAILY TASK ACTIVITY: 11ØØ - Met at SLAPS to calibrate Horiba and load equipment for surface water sampling at CWC HSD.

11:45 - Arrive at CWC HSD and preparing to collect water quality measurements with Horiba.

1152 - Complete water quality measurements.

1155 - Collect surface water samples directly from CWC.

12ØØ - Complete surface water samples and move to SLAPS to secure samples and off-load equipment.

8.16.23
LH

Recorded By: Lou E. Hoover 8/16/23 QA: 8-24-23

COC: LE08172023-07TA
LE08172023-06 ML

DATE: 8/16/23

FIELD CREW: Lou Hoover & Nathan Gross Witness: none

WEATHER: Mostly Sunny, 79°F

WELL ID: N/A SAMPLE ID: CWC267921

TOTAL DEPTH: N/A WELL DIAMETER: N/A

SCREEN INTERVAL: N/A MIDDLE OF SCREEN: N/A

STARTING WATER LEVEL: N/A FINAL WATER LEVEL: N/A

EVACUATION METHOD: N/A N/A

EQUIPMENT SERIAL #'S: Horiba = GLW1Φ3199

PURGE START TIME: N/A PURGE END TIME: N/A TOTAL VOLUME PURGED: N/A

SAMPLE START TIME: 1155 SAMPLE END TIME: 12ΦΦ

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
115Φ	N/A	N/A	7.35	Φ.472	35.8	5.9Φ	22.34	335	N/A

ZH 8.16.23

Recorded By: [signature] 8/16/23 QA: [signature] 8-24-23

DATE: 8/17/23

FIELD CREW: Lou Hoover & Nathan Gross Witness: none

ZH | 8.17.23

WEATHER: Mostly Sunny, 79°F

ZH | 8.17.23

DAILY TASK ACTIVITY: 11ΦΦ- Meet at SLAPS to calibrate Horiba and load equipment for surface water sampling at CWC HSD.

1145- Arrive at CWC HSD and prepare to collect water quality measurements from CWC.

1155- Complete collection of water quality readings.

12ΦΦ- Collect surface water samples directly from creek.

121Φ- Complete sampling of surface water and moving to SLAPS to off-load equipment and secure samples.

ZH 8.17.23

Recorded By: [signature] 8/17/23 QA: [signature] 8-24-23

COC: LE08172023 - 09TA
LE08172023 - 08ML

DATE: 8/17/23

FIELD CREW: Lou Hoover & Nathan Gross Witness: None

WEATHER: Mostly Sunny, 79°F

WELL ID: N/A SAMPLE ID: CWC 267922

TOTAL DEPTH: N/A WELL DIAMETER: N/A

SCREEN INTERVAL: N/A MIDDLE OF SCREEN: N/A

STARTING WATER LEVEL: N/A FINAL WATER LEVEL: N/A

EVACUATION METHOD: N/A

EQUIPMENT SERIAL #'S: Horiba = GLW 103199

PURGE START TIME: N/A PURGE END TIME: N/A TOTAL VOLUME PURGED: N/A

SAMPLE START TIME: 1200 SAMPLE END TIME: 1210

CWC HSD

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1157	N/A	N/A	7.35	0.555	45.6	6.19	23.58	335	N/A

8.17.23
ZH

Recorded By: Lou Hoover 8/17/23 QA: 8-24-23

DATE: 8/21/23

FIELD CREW: Lou Hoover & Jared King Witness: none

ZH 8.21.23

WEATHER: Overcast, 88°F & extreme humidity

ZH 8.21.23

DAILY TASK ACTIVITY: 1100 - Arrive at SLAPS to calibrate Horiba and load sampling equipment for surface water sampling of CWC HSD.

1145 - Arrive at CWC HSD and prepare to collect water quality measurements using Horiba.

1155 - Complete collection of water quality measurements.

1200 - Collecting surface water samples directly from creek for Rad. & metals.

1210 - Complete sampling of creek and move back to SLAPS to secure samples and off-load equipment.

ZH 8.21.23

Recorded By: Lou Hoover 8/21/23 QA: 8-24-23

COC: LE08242023-02ML
LE08242023-03TA

DATE: 8/21/23

FIELD CREW: Lou Hoover & Jared King Witness: None

WEATHER: Overcast, 88°F and extreme humidity

WELL ID: N/A SAMPLE ID: CWC267925

TOTAL DEPTH: N/A WELL DIAMETER: N/A

SCREEN INTERVAL: N/A MIDDLE OF SCREEN: N/A

STARTING WATER LEVEL: N/A FINAL WATER LEVEL: N/A

EVACUATION METHOD: N/A

EQUIPMENT SERIAL #'S: Horiba = GLW103199

PURGE START TIME: N/A PURGE END TIME: N/A TOTAL VOLUME PURGED: N/A

SAMPLE START TIME: 1205 SAMPLE END TIME: 1210

CWC HSD

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1150	N/A	N/A	7.61	0.951	40.6	6.31	29.31	313	N/A

ZH 8.21.23

Recorded By: [signature] 8/21/23 QA: [signature] 8-24-23

DATE: 8/22/23

FIELD CREW: Lou Hoover & Jared King Witness: None

ZH 8.22.23

WEATHER: Mostly Sunny, 95°F Extreme humidity

ZH 8.22.23

DAILY TASK ACTIVITY: 1100 - Meet at SLAPS to calibrate Horiba and load sampling equipment for surface water sampling at CWC HSD.

1145 - Arrive at CWC HSD and prepare to collect water quality measurements from creek with Horiba.

1155 - Complete water quality measurements.

1200 - Initiate sampling of creek for surface water (Rad. & metals) taken directly from creek.

1210 - Complete sampling of CWC HSD and return to SLAPS to secure samples and off-load equipment.

ZH 8.22.23

Recorded By: [signature] 8/22/23 QA: [signature] 8-24-23

COC: LE08242023-04ML
LE08242023-05TA

DATE: 8/22/23

FIELD CREW: Lou Hoover & Jared King Witness: NONE

WEATHER: Mostly Sunny, 95°F and extreme humidity.

WELL ID: N/A SAMPLE ID: CWC267924

TOTAL DEPTH: N/A WELL DIAMETER: N/A

SCREEN INTERVAL: N/A MIDDLE OF SCREEN: N/A

STARTING WATER LEVEL: N/A FINAL WATER LEVEL: N/A

EVACUATION METHOD: N/A

EQUIPMENT SERIAL #'S: Horiba = GLW103199

PURGE START TIME: N/A PURGE END TIME: N/A TOTAL VOLUME PURGED: N/A

SAMPLE START TIME: 1205 SAMPLE END TIME: 1240

CWCHSD

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC
1155	N/A	N/A	7.44	1.91	39.9	5.98	28.35	298	N/A

LH 8.22.23

Recorded By: [signature] 8/22/23 QA: [signature] 8-24-23

DATE: 8/23/23

FIELD CREW: Lou Hoover & Jared King Witness: Cory Booker

~~LH~~ 8.23.23

WEATHER: Mostly Sunny, 93°F Extreme humidity

LH 8.23.23

DAILY TASK ACTIVITY: 1000 - Arrive at SLAPS to calibrate Horiba and load sampling equipment for surface water sampling at CWC HSD.
1045 - Arrive at CWC HSD and prepare to collect water quality measurements using Horiba.
1050 - Complete collection of water quality measurements.
1055 - Initiate surface water sampling.
1115 - Complete surface water sampling at CWC HSD and return to SLAPS to secure samples and off-load equipment.

LH 8.23.23

Recorded By: [signature] 8/23/23 QA: [signature] 8-24-23

LE08242023-01ML
LE08242023-01TA

DATE: 8/23/23

FIELD CREW: Lou Hoover; Jared King Witness: Cory Booker

WEATHER: Mostly Sunny, 93°F Extreme Humidity

WELL ID: N/A SAMPLE ID: CWC267925

TOTAL DEPTH: N/A WELL DIAMETER: N/A

SCREEN INTERVAL: N/A MIDDLE OF SCREEN: N/A

STARTING WATER LEVEL: N/A FINAL WATER LEVEL: N/A

EVACUATION METHOD: N/A

EQUIPMENT SERIAL #'S: Horiba = GLW 103199

PURGE START TIME: N/A PURGE END TIME: N/A TOTAL VOLUME PURGED: N/A

SAMPLE START TIME: 1054 SAMPLE END TIME: 1115

CWC HSD

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1047	N/A	N/A	7.50	1.04	42.4	5.11	28.31	294	N/A

ZH 8.23.23

Recorded By: Lou S. Hoover 8/23/23 QA: 8-24-23

DATE: 8/24/23

FIELD CREW: Lou Hoover; Jared King Witness: none

ZH 8.24.23

WEATHER: Mostly Sunny, 98°F Extreme Humidity

ZH 8.24.23

DAILY TASK ACTIVITY: 1100 - Meet at SLAPS to calibrate Horiba and load equipment for sampling of surface water at CWC HSD.

1145 - Arrive at CWC HSD and prepare to collect water quality measurements.

1155 - Complete sampling of water quality.

1200 - Initiate surface water sampling for Rad.; metals directly from creek.

1210 - Complete sampling of CWC HSD and move to SLAPS to secure samples and off-load equipment.

8.24.23 ZH

Recorded By: Lou S. Hoover 8/24/23 QA: 8-24-23

COC: LE08242023-097A
LE08242023-08ML

DATE: 8/24/23

FIELD CREW: Lou Hoover & Jared King Witness: none

WEATHER: Mostly Sunny, 98°F Extreme humidity

WELL ID: N/A SAMPLE ID: CWC267926

TOTAL DEPTH: N/A WELL DIAMETER: N/A

SCREEN INTERVAL: N/A MIDDLE OF SCREEN: N/A

STARTING WATER LEVEL: N/A FINAL WATER LEVEL: N/A

EVACUATION METHOD: N/A

EQUIPMENT SERIAL #'S: Horiba = GLW1Φ3199

PURGE START TIME: N/A PURGE END TIME: N/A TOTAL VOLUME PURGED: N/A

SAMPLE START TIME: 1205 SAMPLE END TIME: 1210

CWC HSD

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1150	N/A	N/A	7.58	0.494	50.1	6.14	29.43	330	N/A

8.24.23
LH

Recorded By: Lou Hoover 8/24/23 QA: J King 8-24-23

DATE: 8/28/23

FIELD CREW: Lou Hoover & Nathan Gross Witness: none

LH 8.28.23

WEATHER: Cloudy, 80°F

LH 8.28.23

DAILY TASK ACTIVITY: 1130 - Meet at SLAPS to load equipment for surface water sampling at CWC HSD. We will sample for Rad & Metals.

1205 - Arrive at CWC HSD and prepare to collect water quality measurements using Horiba.

1215 - Complete collection of water quality measurements.

1220 - Sample collection directly from creek.

1230 - Complete sampling of creek and moving to SLAPS to secure samples (which include QA/QC samples) and off-load equipment.

8.28.23
LH

Recorded By: Lou Hoover 8/28/23 QA: J King 9-7-23

COC: LE08292023-03TA
LE08292023-02ML

DATE: 8/28/23

FIELD CREW: Lou Hoover & Nathan Gross Witness: none

WEATHER: Cloudy, 80°F

WELL ID: N/A SAMPLE ID: CWCN27927(-1&-2)

TOTAL DEPTH: N/A WELL DIAMETER: N/A

SCREEN INTERVAL: N/A MIDDLE OF SCREEN: N/A

STARTING WATER LEVEL: N/A FINAL WATER LEVEL: N/A

EVACUATION METHOD: N/A

EQUIPMENT SERIAL #'S: Horiba = GLW 103199

PURGE START TIME: N/A PURGE END TIME: N/A TOTAL VOLUME PURGED: N/A

SAMPLE START TIME: 1220 SAMPLE END TIME: 1230

CWC HSD

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1215	N/A	N/A	7.89	0.401	25.5	5.06	24.40	329	N/A

8.28.23 LH

Recorded By: Lou E. Hoover 8/28/23 QA: [signature] 9-7-23

DATE: 8/29/23

FIELD CREW: Lou Hoover & Nathan Gross Witness: none

LH 8.29.23

WEATHER: Mostly Sunny, 73°F

LH 8.29.23

DAILY TASK ACTIVITY: 1100 - Loading equipment for sampling of CWC HSD (surface water for Rad. & Metals).

1145 - Arrive at CWC HSD to begin collecting water quality measurements.

1155 - Complete the collection of water quality measurements.

1205 - Initiate surface water samples collecting directly from creek.

1215 - Complete sampling of creek. Move to SLAPS to secure samples and off-load equipment.

8.29.23 LH

Recorded By: Lou E. Hoover 8/29/23 QA: [signature] 9-7-23

COC: LE08292023-06TA
LE08292023-05ML

DATE: 8/29/23

FIELD CREW: Lou Hoover & Nathan Gross Witness: none

WEATHER: Mostly Sunny, 75°F

WELL ID: N/A SAMPLE ID: CWC267928

TOTAL DEPTH: N/A WELL DIAMETER: N/A

SCREEN INTERVAL: N/A MIDDLE OF SCREEN: N/A

STARTING WATER LEVEL: N/A FINAL WATER LEVEL: N/A

EVACUATION METHOD: N/A

EQUIPMENT SERIAL #'S: Horiba = GLW1Φ3199

PURGE START TIME: N/A PURGE END TIME: N/A TOTAL VOLUME PURGED: N/A

SAMPLE START TIME: 12ΦΦ SAMPLE END TIME: 1215

CWC HSD

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1150	N/A	N/A	7.68	0.491	16.2	5.35	24.28	277	N/A

ZH 8.29.23

Recorded By: Lou Hoover 8/29/23 QA: [signature] 9-7-23

DATE: 8/30/23

FIELD CREW: Lou Hoover & Nathan Gross Witness: Coty Booker

ZH | 8.30.23

WEATHER: Mostly Sunny, 75°F

ZH | 8.30.23

DAILY TASK ACTIVITY:

11:45 - Arrive at CWC HSD to sample surface water for Rad & metals (Horiba has been calibrated for am sampling).

1150 - Taking water quality measurements from creek using Horiba.

1155 - Complete collection of water quality measurements.

12ΦΦ - Initiate sampling of surface water directly from creek.

121Φ - Complete sampling of creek. Move to SLAPS to secure samples and off-load equipment.

8.30.23
ZH

Recorded By: Lou Hoover 8/30/23 QA: [signature] 9-7-23

LE892620223 - 18ML

DATE: 8/30/23

FIELD CREW: Lon Hoover & Nathan Gross Witness: Cory Booker

WEATHER: Mostly Sunny, 75°F

WELL ID: N/A SAMPLE ID: CWC267929

TOTAL DEPTH: N/A WELL DIAMETER: N/A

SCREEN INTERVAL: N/A MIDDLE OF SCREEN: N/A

STARTING WATER LEVEL: N/A FINAL WATER LEVEL: N/A

EVACUATION METHOD: N/A

EQUIPMENT SERIAL #'S: Horiba = GLW103199

PURGE START TIME: N/A PURGE END TIME: N/A TOTAL VOLUME PURGED: N/A

SAMPLE START TIME: 1200 SAMPLE END TIME: 1210

CWC HSD

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1152	N/A	N/A	7.65	44.5	0.563	8.54	24.86	245	N/A

ZH 8.30.23

Recorded By: Lon G. Hoover 8/30/23 QA: J Kirby 9-7-23

DATE: 8/31/23

FIELD CREW: Lon Hoover & Nathan Gross Witness: none

ZH 8.31.23

WEATHER: Mostly Sunny, 75°F

ZH 8.31.23

DAILY TASK ACTIVITY: Arrive at CWC HSD to sample surface water for Rad. & metals. Horiba has been calibrated for gw sampling.

1150 - Collecting water quality measurements using Horiba.

1155 - Sampling surface water directly from creek.

1200 - Complete sampling of creek and moving to SLAPS to secure samples and off-load equipment.

ZH 8.31.23

Recorded By: Lon G. Hoover 8/31/23 QA: J Kirby 9-7-23

COC: LE08312023-03ML
LE08312023-04TA

DATE: 8/31/23

FIELD CREW: Lon Hoover & Nathan Gross Witness: None

WEATHER: Mostly Sunny, 75°F

WELL ID: N/A SAMPLE ID: CWC26793Φ

TOTAL DEPTH: N/A WELL DIAMETER: N/A

SCREEN INTERVAL: N/A MIDDLE OF SCREEN: N/A

STARTING WATER LEVEL: N/A FINAL WATER LEVEL: N/A

EVACUATION METHOD: N/A

EQUIPMENT SERIAL #'S: Horiba = GLW1Φ3199

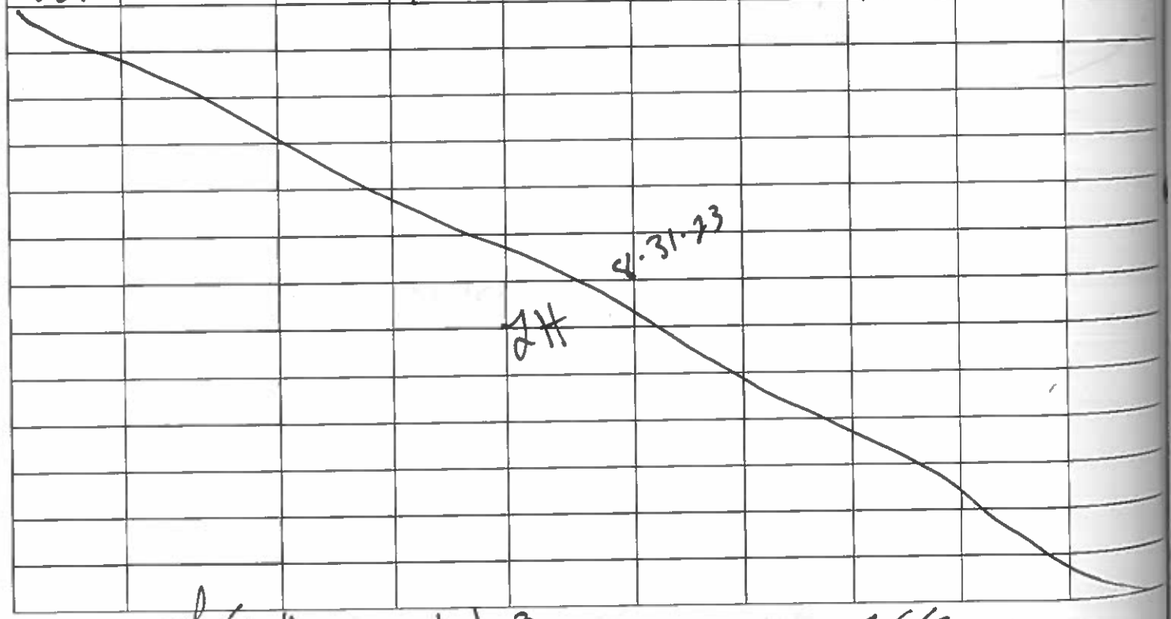
PURGE START TIME: N/A PURGE END TIME: N/A TOTAL VOLUME PURGED: N/A

SAMPLE START TIME: 1155 SAMPLE END TIME: 12ΦΦ

CWC HSD

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
115Φ	N/A	N/A	7.65	Φ.7Φ1	5.7	6.46	22.69	3Φ3	N/A



Recorded By: Lon H. 8/31/23 QA: JKing 9-7-23

DATE: 9-5-23

FIELD CREW: Nathan Gross & Jareed King

Witness: None.

NDG/9-5-23

WEATHER: 9Φ° Cloudy

NDG/9-5-23

DAILY TASK ACTIVITY: 113Φ - Departed SLAPS for HSD to sample CWC.

1145 - Arrived at HSD. Walked to sample location.

12Φ6 - Collected water quality parameters.

12Ø5 - Collected samples

1215 - Returned to van and departed for SLAPS.

123Φ - Arrived at SLAPS to secure samples and off load equipment.

NDG 9-5-23

Recorded By: Nath 9-5-23 QA: JKing 9-7-23

COC: LE09052023-06MC
LE09052023-07TA

DATE: 9/5/23

FIELD CREW: Nathan Gross & Jared King; Witness: None

WEATHER: 84° Cloudy

WELL ID: N/A — SAMPLE ID: CWC267931

TOTAL DEPTH: N/A — WELL DIAMETER: N/A

SCREEN INTERVAL: — MIDDLE OF SCREEN: —

STARTING WATER LEVEL: — FINAL WATER LEVEL: —

EVACUATION METHOD: —

EQUIPMENT SERIAL #'S: Horiba - GLW1034199
NDG 9/5/23

PURGE START TIME: N/A — PURGE END TIME: N/A — TOTAL VOLUME PURGED: N/A

SAMPLE START TIME: 1205 — SAMPLE END TIME: 1210

CWC HSD

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1200	–	–	7.52	0.991	24.5	5.85	25.35	262	N/A

NDG 9-5-23

Recorded By: NDG 9-5-23 QA: JK 9-7-23

DATE: 9/6/23

FIELD CREW: Nathan Gross & Jared King

Witness:

WEATHER: 82° Partly Cloudy

DAILY TASK ACTIVITY: 1130 - Departed for HSD.
1145 Arrived at HSD. Walked to sample location.
1200 - Collected sample. NDG 9-6-23 Water quality parameters.
1205 - Collected sample.
1215 - Returned to the van and departed for SLABS.
1230 - Arrived at SLABS to secure samples and off load equipment.

NDG 9/6/23

Recorded By: NDG 9/6/23 QA: JK 9-7-23

COC: LG090620223-02 MI
LG090620223-03TA

DATE: 9-6-23

FIELD CREW: Nathan Gross, Jared King, Witness: None

WEATHER: 78° Sunny.

WELL ID: N/A | SAMPLE ID: CWC269555

TOTAL DEPTH: | WELL DIAMETER: N/A

SCREEN INTERVAL: | MIDDLE OF SCREEN:

STARTING WATER LEVEL: | FINAL WATER LEVEL:

EVACUATION METHOD:

EQUIPMENT SERIAL #'S: Horiba - GLW10319

PURGE START TIME: N/A | PURGE END TIME: N/A | TOTAL VOLUME PURGED: N/A

SAMPLE START TIME: 1200 | SAMPLE END TIME: 1205

CWC H5D

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1155	N/D	N/A	7.40	1.84	12.5	5.37	25.42	320	N/A

NAG 9-6-23

Recorded By: NAG 9-6-23 QA: JK 9-7-23

DATE: 9-7-23

FIELD CREW: Nathan Gross & Jared King
Witness: None

NAG 9-7-23

WEATHER: 80° Sunny.

NAG 9-7-23

DAILY TASK ACTIVITY: 1130 - Departed for H5D
1145 - Arrived at H5D. Walked to sample site.
1155 - Collected water quality parameters.
1200 - Collected sample at CWC H5D
1205 - Completed sampling and returned to Van.
Departed for SLOPS.
1220 - Arrived at SLOPS to secure and store samples. Completed COCs and sample log survey.

NAG 9-7-23

Recorded By: NAG 9-7-23 QA: JK 9-7-23

COC: LE09022023-05ML
LE09072023-04TA

DATE: 9-7-23

FIELD CREW: Nathan Gross, Jared King, Witness: None.

WEATHER: 73° Sunny

WELL ID: N/A SAMPLE ID: CWC269556

TOTAL DEPTH: WELL DIAMETER: N/A

SCREEN INTERVAL: MIDDLE OF SCREEN:

STARTING WATER LEVEL: FINAL WATER LEVEL:

EVACUATION METHOD:

EQUIPMENT SERIAL #'S: Horiba - GLW103199

NAS/9-7-23

PURGE START TIME: N/A PURGE END TIME: N/A TOTAL VOLUME PURGED: N/A

SAMPLE START TIME: 1200 SAMPLE END TIME: 1205

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1155	-	N/A	7.68	1.06	19.0	6.53	23.41	196	N/A

NAS 9-7-23

Recorded By: 9-7-23 QA: 9-7-23

DATE: 9/11/23

FIELD CREW: Lon Hoover & Jared King. Witness: none

KH 9.11.23

WEATHER: Mostly Cloudy, 79°F

KH 9.11.23

DAILY TASK ACTIVITY: 1100 - Meet at SLAPS to calibrate Horiba and load equipment for surface water sampling at HSD.
1145 - Arrive at HSD and prepare to collect water quality measurements with Horiba.
1155 - Complete collection of water quality measurements and prepare to sample for Rad.; Metals directly from creek.
1200 - Complete sampling and returning to SLAPS to secure samples and off-load equipment.

KH 9.11.23

Recorded By: 9/11/23 QA: 9-26-23

COC: LE09142023-01TA
LE09142023-03ML

DATE: 9/11/23

FIELD CREW: Lea Hoover & Jack King Witness: none

WEATHER: Mostly Cloudy, 79°F

WELL ID: N/A SAMPLE ID: CWC 269557

TOTAL DEPTH: N/A WELL DIAMETER: N/A

SCREEN INTERVAL: N/A MIDDLE OF SCREEN: N/A

STARTING WATER LEVEL: N/A FINAL WATER LEVEL: N/A

EVACUATION METHOD: N/A

EQUIPMENT SERIAL #'S: Horiba = GLW1Φ3199

PURGE START TIME: N/A PURGE END TIME: N/A TOTAL VOLUME PURGED: N/A

SAMPLE START TIME: 12ΦΦ SAMPLE END TIME: 121Φ

CWC HSD

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1158	N/A	N/A	7.43	Φ.873	34.7	6.57	21.56	364	N/A

9.11.23
ZH

Recorded By: [signature] 9/11/23 QA: [signature] 9-26-23

DATE: 9/12/23

FIELD CREW: Lea Hoover & Nathan Gross Witness: none

ZH 9.12.23

WEATHER: Mostly Sunny, 71°F

ZH 9.12.23

DAILY TASK ACTIVITY: 1ΦΦ - Meet at SLAPS to calibrate Horiba and load sampling equipment for surface water sampling at CWC HSD.
1145 - Arrive at CWC HSD.
1155 - Collect water quality measurements using Horiba.
1158 - Complete collection of water quality measurements and prepare to sample directly from stock for Rad & Metals.
12ΦΦ - Complete sampling and move to SLAPS to secure samples and off-load equipment.

9.12.23
ZH

Recorded By: [signature] 9/12/23 QA: [signature] 9-26-23

COC: LE09142023-01ETA
LE09142023-05ML

DATE: 9/12/23

FIELD CREW: Lon Hoover & Nathan Gross Witness: none

WEATHER: Mostly Sunny, 71°F

WELL ID: N/A SAMPLE ID: CWC269558

TOTAL DEPTH: N/A WELL DIAMETER: N/A

SCREEN INTERVAL: N/A MIDDLE OF SCREEN: N/A

STARTING WATER LEVEL: N/A FINAL WATER LEVEL: N/A

EVACUATION METHOD: N/A

EQUIPMENT SERIAL #'S: Horiba = GLW103199

PURGE START TIME: N/A PURGE END TIME: N/A TOTAL VOLUME PURGED: N/A

SAMPLE START TIME: 1158 SAMPLE END TIME: N/A

CWC HSD

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1155	N/A	N/A	7.13	0.528	60.6	7.22	21.39	393	N/A

LH 9.12.23

Recorded By: Lon G. Hoover 9/12/23 QA: J. King 9-26-23

DATE: 9/13/23

FIELD CREW: Lon Hoover & Jared King Witness: none

LH 9.13.23

WEATHER: Mostly Sunny, 76°F

LH 9.13.23

DAILY TASK ACTIVITY: 1100 - Meet at SLAPS to calibrate Horiba and load equipment for surface water sampling at CWC HSD.

1145 - Arrive at CWC HSD and prepare to collect water quality measurements.

1200 - Prepare to collect surface water for Rad. & metals directly from the creek.

1210 - Complete sampling and move to SLAPS to secure samples and off-load equipment.

LH 9.13.23

Recorded By: Lon G. Hoover 9/13/23 QA: J. King 9-26-23

COC: LE09142023-08TA
LE09142523-07MC

DATE: 9/13/23

FIELD CREW: Lou Hoover & Jared King Witness: none

WEATHER: Mostly Sunny, 76°F

WELL ID: N/A SAMPLE ID: QC20559

TOTAL DEPTH: N/A WELL DIAMETER: N/A

SCREEN INTERVAL: N/A MIDDLE OF SCREEN: N/A

STARTING WATER LEVEL: N/A FINAL WATER LEVEL: N/A

EVACUATION METHOD: N/A

EQUIPMENT SERIAL #'S: Horiba = GLW10319 9

PURGE START TIME: N/A PURGE END TIME: N/A TOTAL VOLUME PURGED: N/A

SAMPLE START TIME: 1205 SAMPLE END TIME: 1210

CWC HSD

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1200	N/A	N/A	7.01	0.755	5.7	6.02	20.83	383	N/A

LH 9.13.23

Recorded By: Lou Hoover 9/13/23 QA: J King 9-26-23

DATE: 9/14/23

FIELD CREW: Lou Hoover & Jared King Witness: none

LH 9.14.23

WEATHER: Mostly Sunny, 77°F

LH 9.14.23

DAILY TASK ACTIVITY: 1100 - Meet at SLAPS to calibrate Horiba and load sampling equipment.

1145 - Arrive at CWC HSD to sample surface water for Rad. & metals.

1150 - Prepare to collect water quality measurements.

1155 - Prepare to collect surface water samples directly from creek.

1205 - Complete sampling and move to SLAPS to secure samples and off-load equipment.

LH 9.14.23

Recorded By: Lou Hoover 9/14/23 QA: J King 9-26-23

COC: LE09142023-10TA
LE09142023-09ML

DATE: 9/14/23

FIELD CREW: Lou Hoover & Jared King Witness: none

WEATHER: Mostly Sunny, 77°F

WELL ID: N/A SAMPLE ID: CWC26956Φ

TOTAL DEPTH: N/A WELL DIAMETER: N/A

SCREEN INTERVAL: N/A MIDDLE OF SCREEN: N/A

STARTING WATER LEVEL: N/A FINAL WATER LEVEL: N/A

EVACUATION METHOD: N/A

EQUIPMENT SERIAL #'S: Horiba = 6LW1Φ3199

PURGE START TIME: N/A PURGE END TIME: N/A TOTAL VOLUME PURGED: N/A

SAMPLE START TIME: ~~1155~~ 1ΦΦ SAMPLE END TIME: 12Φ5

ZH 9.14.23

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1155	N/A	N/A	7.24	Φ.969	26.9	5.58	2Φ.44	364	N/A

ZH 9.14.23

Recorded By: [signature] 9/14/23 QA: [signature] 9-26-23

DATE: 9/18/23

FIELD CREW: Lou Hoover & Jared King Witness: none

ZH | 9.18.23

WEATHER: Mostly Sunny, 75°F

ZH | 9.18.23

DAILY TASK ACTIVITY: 11ΦΦ - Meet at SLAPS to calibrate Horiba and load sampling equipment.

1145 - Arrive at CWC HSA to collect surface water samples for lead & metals.

1155 - Complete collection of water quality measurements using Horiba and prepping to sample directly from creek.

12Φ5 - Complete sampling and moving to SLAPS to secure samples and off-load equipment.

ZH 9.18.23

Recorded By: [signature] 9/18/23 QA: [signature] 9-26-23

COC: LE09212023-01ML
LE09212023-02TA

DATE: 9/18/23

FIELD CREW: Lea Hoover & Jared King Witness: None

WEATHER: Mostly Sunny, ~~75°F~~ 75°F
ZH 9.18.23

WELL ID: N/A SAMPLE ID: CWC 269561

TOTAL DEPTH: N/A WELL DIAMETER: N/A

SCREEN INTERVAL: N/A MIDDLE OF SCREEN: N/A

STARTING WATER LEVEL: N/A FINAL WATER LEVEL: N/A

EVACUATION METHOD: N/A

EQUIPMENT SERIAL #'S: Horiba = GWW1Φ7199

PURGE START TIME: N/A PURGE END TIME: N/A TOTAL VOLUME PURGED: N/A

SAMPLE START TIME: 12ΦΦ SAMPLE END TIME: 121Φ

CWC HSD

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
115Φ	N/A	N/A	7.54	1.Φ9	3.5	6.67	19.44	34Φ	N/A

ZH 9.18.23

Recorded By: Lea E. Hoover 9/18/23 QA: J King 9-26-23

DATE: 9/19/23

FIELD CREW: Lea Hoover & Jared King Witness: none

ZH 9.19.23

WEATHER: Mostly Sunny, 79°F

ZH 9-19-23

DAILY TASK ACTIVITY: 1ΦΦ- Meet at SLAPS to calibrate Horiba and load sampling equipment.
1145- Arrive at CWC HSD to collect surface water samples for Rad.'s metals.
1155- Prepare to collect surface water samples directly from creek.
12ΦΦ- Sample creek.
121Φ- Complete sampling of creek and move to SLAPS to secure samples and off-load equipment.

ZH 9.19.23

Recorded By: Lea E. Hoover 9/19/23 QA: J King 9-26-23

COC: LE09212023-03ML
LE09212023-04ITA

DATE: 9/19/23

FIELD CREW: Lou Hoover; Jared King Witness: none

WEATHER: Mostly Sunny, 79°F

WELL ID: N/A SAMPLE ID: CWC269562

TOTAL DEPTH: N/A WELL DIAMETER: N/A

SCREEN INTERVAL: N/A MIDDLE OF SCREEN: N/A

STARTING WATER LEVEL: N/A FINAL WATER LEVEL: N/A

EVACUATION METHOD: N/A

EQUIPMENT SERIAL #'S: Horiba = 6LW1P3199

PURGE START TIME: N/A PURGE END TIME: N/A TOTAL VOLUME PURGED: N/A

SAMPLE START TIME: 1200 SAMPLE END TIME: 1210

CWC HSD

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1155	N/A	N/A	7.07	1.06	4.1	7.10	19.60	358	N/A

LH 9.19.23

Recorded By: Lou Hoover 9/19/23 QA: J. King 9-26-23

DATE: 9/20/23

FIELD CREW: Lou Hoover; Jared King Witness: none

LH | 9.20.23

WEATHER: Overcast, 75°F

LH | 9.20.23

DAILY TASK ACTIVITY: Meet at SLAPS to calibrate Horiba and load equipment for sampling surface water. 1145 - Arrive at CWC HSD and take water quality measurements.

1155 - Prepare to sample surface water directly from creek for Rad. & metals.

1210 - Complete sampling and move to SLAPS to secure sample and off-load equipment.

LH 9.20.23

Recorded By: Lou Hoover 9/20/23 QA: J. King 9-26-23

COC: LE09212023-05ML
LE09212023-06TA

DATE: 9/20/23

FIELD CREW: Lou Hoover & Jared King Witness: none

WEATHER: Overcast, 75°F

WELL ID: N/A SAMPLE ID: CWC269563

TOTAL DEPTH: N/A WELL DIAMETER: N/A

SCREEN INTERVAL: N/A MIDDLE OF SCREEN: N/A

STARTING WATER LEVEL: N/A FINAL WATER LEVEL: N/A

EVACUATION METHOD: N/A

EQUIPMENT SERIAL #'S: Horiba = GLW143199

PURGE START TIME: N/A PURGE END TIME: N/A TOTAL VOLUME PURGED: N/A

SAMPLE START TIME: 1200 SAMPLE END TIME: 1210

CWC HSD

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1155	N/A	N/A	7.28	1.03	33.0	6.42	20.17	379	N/A

ZH 9.20.23

Recorded By: Jon S. Hoover 9/20/23 QA: J King 9-26-23

DATE: 9/21/23

FIELD CREW: Lou Hoover & Jared King Witness: none

ZH | 9.21.23

WEATHER: Mostly Cloudy, 74°F

ZH | 9.21.23

DAILY TASK ACTIVITY: 1030 - Meet at SLAPS to calibrate Horiba and load equipment for surface water sampling at CWC HSD.

1145 - Arrive at CWC HSD and prepare to collect surface water samples for Rad. & metals.

1210 - Complete sampling and move to SLAPS to secure samples and off-load equipment.

ZH 9.21.23

Recorded By: Jon S. Hoover 9/21/23 QA: J King 9-26-23

COC: LG09212023-06IML
LG09212023-09TA

DATE: 9/21/23

FIELD CREW: Lon Hoover & Jaicd King Witness: None

WEATHER: Mostly Cloudy, 74°F

WELL ID: N/A SAMPLE ID: CWC269564

TOTAL DEPTH: N/A WELL DIAMETER: N/A

SCREEN INTERVAL: N/A MIDDLE OF SCREEN: N/A

STARTING WATER LEVEL: N/A FINAL WATER LEVEL: N/A

EVACUATION METHOD: N/A

EQUIPMENT SERIAL #'S: Horiba = GLW1Φ3199

PURGE START TIME: N/A PURGE END TIME: N/A TOTAL VOLUME PURGED: N/A

SAMPLE START TIME: 12ΦΦ SAMPLE END TIME: 121Φ

CWC HSD

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1155	N/A	N/A	7.5Φ	Φ.929	11.4	5.96	24.45	333	N/A

ZH 9.21.23

Recorded By: [signature] 9/21/23 QA: [signature] 9-26-23

DATE: 9/25/23

FIELD CREW: Lon Hoover & Nathan Gross Witness: none

ZH | 9.25.23

WEATHER: Mostly Sunny, 79°F

ZH | 9.25.23

DAILY TASK ACTIVITY: 11ΦΦ - Meet at SLAPS to calibrate Horiba and load equipment for surface water sampling.
1145 - Arrive at CWC HSD and prepare to collect water quality measurements and surface water samples directly from creek.
121Φ - Complete sampling and return to SLAPS to secure samples and off-load equipment.

ZH 9.25.23

Recorded By: [signature] 9/25/23 QA: [signature] 9-26-23

COC: LE09282023-03TA
LE09282023-02ML

DATE: 9/25/23

FIELD CREW: Lon Hoover & Nathan Gross Witness: none

WEATHER: Mostly Sunny, 79°F

WELL ID: N/A SAMPLE ID: CWC 269 515

TOTAL DEPTH: N/A WELL DIAMETER: N/A

SCREEN INTERVAL: N/A MIDDLE OF SCREEN: N/A

STARTING WATER LEVEL: N/A FINAL WATER LEVEL: N/A

EVACUATION METHOD: N/A

EQUIPMENT SERIAL #'S: Horiba = GLW1#3199

PURGE START TIME: N/A PURGE END TIME: N/A TOTAL VOLUME PURGED: N/A

SAMPLE START TIME: 1200 SAMPLE END TIME: 1210

CWC HSD

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1155	N/A	N/A	7.09	0.445	42.1	3.43	22.22	357	N/A

9.25.23

Recorded By: Lon E. Hoover 9/25/23 QA: 9-26-23

DATE: 9/26/23

FIELD CREW: Lon Hoover & David King Witness: none

9.26.23

WEATHER: Mostly Sunny, 79°F

9.26.23

DAILY TASK ACTIVITY: 1100 - Meet at SLAPS to calibrate Horiba and load equipment for surface water sampling at CWC HSD.

1145 - Arrive at CWC HSD and prepare to collect water quality measurements and sample creek directly for Rad. & Metals.

1205 - Complete sampling and move to SLAPS to secure samples and off-load equipment.

9.26.23

Recorded By: Lon E. Hoover 9/26/23 QA: 9-26-23

COC: LE09282023-05TA
LE09282023-04ML

DATE: 9/26/23

FIELD CREW: Lon Hoover; Jared King Witness: none

WEATHER: Mostly Sunny, 79°F

WELL ID: N/A SAMPLE ID: CWC269566

TOTAL DEPTH: N/A WELL DIAMETER: N/A

SCREEN INTERVAL: N/A MIDDLE OF SCREEN: N/A

STARTING WATER LEVEL: N/A FINAL WATER LEVEL: N/A

EVACUATION METHOD: N/A

EQUIPMENT SERIAL #'S: Horiba = 6LW1Φ3199

PURGE START TIME: N/A PURGE END TIME: N/A TOTAL VOLUME PURGED: N/A

SAMPLE START TIME: 1155 SAMPLE END TIME: 1205

CWC HSD

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
115Φ	N/A	N/A	6.91	Φ.477	29.4	3.72	22.Φ7	362	N/A

Recorded By: J.M. 9/26/23 QA: 9-26-23

DATE: 12/5/23

FIELD CREW: Nathan Gross, Jared King
Witness: None.
NAG 12-5-23

WEATHER: 47° Cloudy
NAG 12-5-23

DAILY TASK ACTIVITY: 1115 - Met at SLOPS to calibrate Horiba and load equipment to sample SW at CWCHSD.
1140 - Departed for HSD.
1155 - Arrived at HSD and prepared to collect field parameters (water quality) and collect SW directly for Rad & metals.
1210 - Collected SW sample.
1215 - Completed sampling. Returned to Van. Departed for fuel.
1240 - Completed fueling. Departed for SLOPS.
1310 - Arrived at SLOPS. Unload equipment and samples.

NAG 12/5/23

Recorded By: 12/5/23 QA Hannah Hutton 12/19/23

COC: LE12Ø72Ø23-ØIML
LE12Ø72Ø23-Ø2TA

DATE: 12/5/23

FIELD CREW: Nathan Gross, Jared King, Witness: None

WEATHER: 47° Cloudy

WELL ID: CWCHSD — SAMPLE ID: CWC269567

TOTAL DEPTH: N/A — WELL DIAMETER: N/A

SCREEN INTERVAL: — MIDDLE OF SCREEN:

STARTING WATER LEVEL: — FINAL WATER LEVEL:

EVACUATION METHOD:

EQUIPMENT SERIAL #'S: Horiba - GL W1Ø3285
MK 12-5-23

KNG 1-11-24

PURGE START TIME: 12Ø6 — PURGE END TIME: N/A — TOTAL VOLUME PURGED: N/A

SAMPLE START TIME: 1210 — SAMPLE END TIME: 1215

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1205	N/A	N/A	6.35	Ø.3ØØ	56.7	8.6Ø	7.53	3Ø5	N/A

MK 12-5-23

Recorded By: [signature] 12-5-23 — QA: [signature] 1-11-2024

DATE:

FIELD CREW:

WEATHER:

DAILY TASK ACTIVITY:

12.6.23
ZH

Recorded By: — QA:

COC: LE12Φ72Φ23-Φ3ML
LE12Φ72Φ23-Φ47A

DATE: 12/6/23

FIELD CREW: Lou Hoover & Jared King Witness: none

WEATHER: Partly Cloudy, 48°F

WELL ID: N/A SAMPLE ID: CWC269568

TOTAL DEPTH: N/A WELL DIAMETER: N/A

SCREEN INTERVAL: N/A MIDDLE OF SCREEN: N/A

STARTING WATER LEVEL: N/A FINAL WATER LEVEL: N/A

EVACUATION METHOD: N/A

EQUIPMENT SERIAL #'S: Horiba = GLW103285

PURGE START TIME: N/A PURGE END TIME: N/A TOTAL VOLUME PURGED: N/A

SAMPLE START TIME: 12ΦΦ SAMPLE END TIME: 1210

CWC HSD

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1155	N/A	N/A	6.72	Φ.424	65.Φ	1Φ.96	7.28	316	N/A

ZH 12.6.23

Recorded By: Lou H. 12/6/23 QA: Hannah Hoos 01104/24

DATE: 12/6/23

FIELD CREW: Lou Hoover & Jared King Witness: none

ZH 12.6.23

WEATHER: Partly Cloudy, 48°F

ZH 12.6.23

DAILY TASK ACTIVITY: 1Φ45- Meet at SLAPS to calibrate Horiba and load equipment for sampling CWS & HSD locations.
1145 - Arrive at HSD and prepare to collect field parameters of surface water.
12ΦΦ- Collect surface water samples for Rad.? metals directly from CWC.
1210- Complete sampling and return to SLAPS to secure samples and off-load equipment.

ZH 12-6-23

Recorded By: Lou H. 12/6/23 QA: Hannah Hoos 01104/24

COC: LE12072023-05ML
LE12072023-06TA

DATE: 12/7/23

FIELD CREW: Lon Hoover & Jaled King Witness: None

WEATHER: Mostly Sunny, 59°F

WELL ID: N/A SAMPLE ID: CWC269569

TOTAL DEPTH: N/A WELL DIAMETER: N/A

SCREEN INTERVAL: N/A MIDDLE OF SCREEN: N/A

STARTING WATER LEVEL: N/A FINAL WATER LEVEL: N/A

EVACUATION METHOD: N/A

EQUIPMENT SERIAL #'S: Horiba: GLW103285

PURGE START TIME: N/A PURGE END TIME: N/A TOTAL VOLUME PURGED: N/A

SAMPLE START TIME: 1200 SAMPLE END TIME: 1210

CWC HSD

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1155	N/A	N/A	6.65	0.550	33.1	33.4 / 11.17	7.42	361	N/A

ZH 12.7.23

Recorded By: Lon Hoover 12/7/23 QA: Hannah Hobbs 01/04/24

DATE: 12/7/23

FIELD CREW: Lon Hoover & Jaled King Witness: none

ZH 12.7.23

WEATHER: Mostly Sunny, 59°F

ZH 12.7.23

DAILY TASK ACTIVITY: 1045 - Arrive at SLAPS to calibrate Horiba and load equipment for surface water sampling at HSD.
1145 - Arrive at HSD and prepare to collect water quality measurements with Horiba.
1200 - Collect samples directly from CWC for Rad & metals.
1210 - Complete sampling and return to SLAPS to secure samples and off-load equipment.

ZH 12.7.23

Recorded By: Lon Hoover 12/7/23 QA: Hannah Hobbs 01/04/24

COC: LE12152023-01ML
LE12152023-02TA

DATE: 12/8/23

FIELD CREW: Lou Hoover & Nathan Gross Witness: none

WEATHER: Partly Cloudy, 56°F

WELL ID: N/A SAMPLE ID: CWC26257Ø

TOTAL DEPTH: N/A WELL DIAMETER: N/A

SCREEN INTERVAL: N/A MIDDLE OF SCREEN: N/A

STARTING WATER LEVEL: N/A FINAL WATER LEVEL: N/A

EVACUATION METHOD: N/A

EQUIPMENT SERIAL #'S: Horiba = GLW1Ø3285

PURGE START TIME: N/A PURGE END TIME: N/A TOTAL VOLUME PURGED: N/A

SAMPLE START TIME: 1155 SAMPLE END TIME: 12Ø5

CWC HSD

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1150	N/A	N/A	6.59	Ø.53Ø	23.8	12.69	7.54	369	N/A

ZH 12.8.23

Recorded By: Lou S. Hoover 12/8/23 QA: Hannah Hutton Ø1/Ø4/24

DATE: 12/8/23

FIELD CREW: Lou Hoover & Nathan Gross Witness: none

ZH 12.8.23

WEATHER: Mostly - Partly Cloudy, 55°F

ZH 12.8.23

DAILY TASK ACTIVITY: 1Ø45 - Arrive at SLAPS to calibrate Horiba and load equipment for surface water sampling for lead & metals at HSD NHFB (CWCØ1Ø).
ZH 12.8.23
1145 - Arrive at CWCØ1Ø.
1150 - Collect water quality measurements.
1155 - Collect sample(s) directly from CWC.
12Ø5 - Complete sampling and return to SLAPS to secure samples and off-load equipment.

ZH 12.8.23

Recorded By: Lou S. Hoover 12/8/23 QA: Hannah Hutton Ø1/Ø4/24

CWC269571, -1 -2
COC: LE12152023-08ML LE12152023-10TA
LE12152023-09TA LE12152023-11TD

DATE: 12/11/23

FIELD CREW: Lon Hoover & Hannah Hutton Witness: none

WEATHER: Mostly Sunny, 44°F

WELL ID: N/A SAMPLE ID: CWC269571 (-1 & -2)

TOTAL DEPTH: N/A WELL DIAMETER: N/A

SCREEN INTERVAL: N/A MIDDLE OF SCREEN: N/A

STARTING WATER LEVEL: N/A FINAL WATER LEVEL: N/A

EVACUATION METHOD: N/A

EQUIPMENT SERIAL #'S: Horiba = OLW1Φ3285

PURGE START TIME: N/A PURGE END TIME: N/A TOTAL VOLUME PURGED: N/A

SAMPLE START TIME: 115Φ SAMPLE END TIME: 12ΦΦ

NHFB (CWCΦ1Φ)

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
115Φ	N/A	N/A	6.59	Φ.766	11.8	8.12	7.67	399	N/A

12.11.23
ZH

Recorded By: Lon G. Hoover 12/11/23 QA: Hannah Hutton 12/19/23

DATE: 12/11/23

FIELD CREW: Lon Hoover & Hannah Hutton Witness: none

ZH 12.11.23

WEATHER: Mostly Sunny, 44°F

ZH 12-11-23

DAILY TASK ACTIVITY: 1Φ35- Meet at SLAPS to calibrate Horiba and load equipment for surface water sampling at New Halls Ferry Bridge (NHFB) / CWCΦ1Φ for Rad & metals.
ZH 12.11.23 1Φ45- 1145- Arrive at CWCΦ1Φ and prepare to collect surface water quality measurements.
1150- Collect samples from creek directly.
12ΦΦ- Complete sampling and return to SLAPS to secure samples and off-load equipment.

12-11-23
ZH

Recorded By: Lon G. Hoover 12/11/23 QA: Hannah Hutton 12/19/23

COC: LE 12152023-03ML
LE 12152023-04TA

DATE: 12/12/23

FIELD CREW: Lou Hoover ; Hannah Huffon Witness: none

WEATHER: Mostly Sunny, 48°F

WELL ID: N/A SAMPLE ID: CWC269572

TOTAL DEPTH: N/A WELL DIAMETER: N/A

SCREEN INTERVAL: N/A MIDDLE OF SCREEN: N/A

STARTING WATER LEVEL: N/A FINAL WATER LEVEL: N/A

EVACUATION METHOD: N/A

EQUIPMENT SERIAL #'S: Horiba = GLW103285

PURGE START TIME: N/A PURGE END TIME: N/A TOTAL VOLUME PURGED: N/A

SAMPLE START TIME: 1155 SAMPLE END TIME: 1205

CWCHSD-A

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1140	N/A	N/A	6.71	0.949	21.4	15.63	6.47	386	N/A

ZH 12-12-23

Recorded By: Lou Hoover 12/12/23 QA: Hannah Huffon 12/19/23

DATE: 12/12/23

FIELD CREW: Lou Hoover ; Hannah Huffon Witness: none

ZH 12-12-23

WEATHER: Mostly Sunny, 48°F

ZH 12-12-23

DAILY TASK ACTIVITY: 1030 - Meet at SLAPS to calibrate Horiba and load equipment for surface water sampling downstream from HSD excavation site on CWC.

1140 - Arrive at sampling location and prepare to collect water quality measurements from CWC.

1155 - Begin sampling directly from creek for Rad & metals.

1205 - Complete sampling and return to SLAPS to secure samples and off-load equipment.

ZH 12-12-23

Recorded By: Lou Hoover 12/12/23 QA: Hannah Huffon 12/19/23

COC: LE 12152023-05ML
LE\12152023-12TA

DATE: 12/13/23

FIELD CREW: Lou Hoover & Hannah Hutton Witness: none

WEATHER: Partly Cloudy, 43°F

WELL ID: N/A SAMPLE ID: CWC269573

TOTAL DEPTH: N/A WELL DIAMETER: N/A

SCREEN INTERVAL: N/A MIDDLE OF SCREEN: N/A

STARTING WATER LEVEL: N/A FINAL WATER LEVEL: N/A

EVACUATION METHOD: N/A

EQUIPMENT SERIAL #'S: Horiba = 6LW105285

PURGE START TIME: N/A PURGE END TIME: N/A TOTAL VOLUME PURGED: N/A

SAMPLE START TIME: 1200 SAMPLE END TIME: 1210

CWC HSD-A

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1150	N/A	N/A	6.61	1.01	23.1	13.75	6.47	376	N/A

ZH 12.13.23

Recorded By: Lou Hoover 12/13/23 QA: Hannah Hutton 12/19/23

DATE: 12/13/23

FIELD CREW: Lou Hoover & Hannah Hutton Witness: none

ZH 12.13.23

WEATHER: Partly Cloudy, 43°F

ZH 12.13.23

DAILY TASK ACTIVITY: 1045 - Meet at SLAPS to calibrate Horiba and load equipment for surface water sampling at CWC HSD-A for Rad. & metals.

1145 - Arrive at CWC HSD-A and prepare to collect water quality measurements.

1200 - Begin sampling directly from the creek.

1210 - Complete sampling and return to SLAPS to secure samples and off-load equipment.

ZH 12.13.23

Recorded By: Lou Hoover 12/13/23 QA: Hannah Hutton 12/19/23

COC: LE12152023-06TA
LE12152023-07ML

DATE: 12/14/23

FIELD CREW: Lou Hoover & Hannah Hutton Witness: none

WEATHER: Mostly Sunny, 51°F

WELL ID: N/A SAMPLE ID: CWC269574

TOTAL DEPTH: N/A WELL DIAMETER: N/A

SCREEN INTERVAL: N/A MIDDLE OF SCREEN: N/A

STARTING WATER LEVEL: N/A FINAL WATER LEVEL: N/A

EVACUATION METHOD: N/A

EQUIPMENT SERIAL #'S: Horiba = GLW103285

PURGE START TIME: N/A PURGE END TIME: N/A TOTAL VOLUME PURGED: N/A

SAMPLE START TIME: 1150 SAMPLE END TIME: 1200

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1145	N/A	N/A	6.75	1.08	31.4	15.19	6.69	392	N/A

ZH 12.14.23

Recorded By: Lou Hoover 12/14/23 QA: Hannah Hutton 12/19/23

DATE: 12/14/23

FIELD CREW: Lou Hoover & Hannah Hutton Witness: none

ZH 12.14.23

WEATHER: Mostly Sunny, 51°F

ZH 12.14.23

DAILY TASK ACTIVITY: 1040 - Meet at SLAPS to calibrate Horiba and load equipment for surface water sampling at CWC HSD-A for lead & metals.

1140 - Arrive at CWC HSD-A and prepare to collect water quality measurements with Horiba.

1150 - Begin sampling directly from creek.

1200 - Complete sampling and return to SLAPS to aliquot samples and off-load equipment.

ZH 12.14.23

Recorded By: Lou Hoover 12/14/23 QA: Hannah Hutton 12/19/23

COC: LE 12212023-0ZML
LE 12212023-03TA

DATE: 12/15/23

FIELD CREW: Lou Hoover ; Nathan Gloss Witness: none

WEATHER: Partly Cloudy, 49°F

WELL ID: N/A SAMPLE ID: CWC2731681 ZH 12.15.23

TOTAL DEPTH: N/A WELL DIAMETER: N/A

SCREEN INTERVAL: N/A MIDDLE OF SCREEN: N/A

STARTING WATER LEVEL: N/A FINAL WATER LEVEL: N/A

EVACUATION METHOD: N/A

EQUIPMENT SERIAL #'S: Horiba = GLW103285

PURGE START TIME: N/A PURGE END TIME: N/A TOTAL VOLUME PURGED: N/A

SAMPLE START TIME: 1145 SAMPLE END TIME: 1155

CWC HSD-A

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1148	N/A	N/A	6.91	1.12	27.1	13.56	5.65	375	N/A

ZH 12.15.23

Recorded By: Lou Hoover 12/15/23 QA: [illegible] 12/19/23

DATE: 12/15/23

FIELD CREW: Lou Hoover ; Nathan Gloss Witness: none

ZH 12-15-23

WEATHER: Partly Cloudy, 49°F

ZH 12-15-23

DAILY TASK ACTIVITY: 1040- Meet at SLMS to calibrate Horiba and load equipment for surface water sampling at HSD.

1130- Arrive at CWC HSD-A and prepare to collect water quality measurements.

1145- Begin sampling directly from creek for Rad.'s metals.

1155- Complete sampling and return to SLMS to secure samples and off-load equipment.

ZH 12.15.23

Recorded By: Lou Hoover 12/15/23 QA: [illegible] 12/19/23

COC: LE12212023-04ML
LE12212023-05TA

DATE: 12/18/23

FIELD CREW: Lou Hoover & Jared King Witness: none

WEATHER: Mostly Sunny & windy, 35°F

WELL ID: N/A SAMPLE ID: CWC273162

TOTAL DEPTH: N/A WELL DIAMETER: N/A

SCREEN INTERVAL: N/A MIDDLE OF SCREEN: N/A

STARTING WATER LEVEL: N/A FINAL WATER LEVEL: N/A

EVACUATION METHOD: N/A

EQUIPMENT SERIAL #'S: Horiba = GLW103285

PURGE START TIME: N/A PURGE END TIME: N/A TOTAL VOLUME PURGED: N/A

SAMPLE START TIME: 1205 SAMPLE END TIME: 1215

CWC 1150-A

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1200	N/A	N/A	6.57	0.444	42.2	11.21	6.99	392	N/A

TH 12-18-23

Recorded By: Lou Hoover 12/18/23 QA: Hannah Hall 12/19/23

DATE: 12/18/23

FIELD CREW: Mostly Sunny & windy, 35°F

TH 12-18-23

WEATHER: Lou Hoover & Jared King Witness: none

TH 12-18-23

DAILY TASK ACTIVITY: 1045- Meet at SLAPS to calibrate Horiba and load equipment for surface water sampling at CWC 1150-A.

1145- Arrive at CWC 150-A and prepare to collect water quality measurements.

1205- begin sampling for Rad. & metals directly from the creek.

1215- Complete sampling and return to SLAPS to process samples and off-load equipment.

TH 12-18-23

Recorded By: Lou Hoover 12/18/23 QA: Hannah Hall 12/19/23

COC: LE12212023-06ML
LE12212023-07TA

DATE: 12/19/23

FIELD CREW: Lou Hoover ; Jared King Witness: none

WEATHER: Mostly Sunny, 35°F

WELL ID: N/A SAMPLE ID: CWC273163

TOTAL DEPTH: N/A WELL DIAMETER: N/A

SCREEN INTERVAL: N/A MIDDLE OF SCREEN: N/A

STARTING WATER LEVEL: N/A FINAL WATER LEVEL: N/A

EVACUATION METHOD: N/A

EQUIPMENT SERIAL #'S: Horiba = GLW103285

PURGE START TIME: N/A PURGE END TIME: N/A TOTAL VOLUME PURGED: N/A

SAMPLE START TIME: 1155 SAMPLE END TIME: 1205

CWC HSD-A

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1150	N/A	N/A	6.67	0.497	33.1	10.44	4.63	401	N/A

ZH 12.19.23

Recorded By: Lou Hoover 12/19/23 QA: Hannah Hess 12/27/23

DATE: 12/19/23

FIELD CREW: Lou Hoover ; Jared King Witness: none

ZH 12.19.23

WEATHER: Mostly Sunny, 35°F

ZH 12.19.23

DAILY TASK ACTIVITY: 1035- Meet at SLAIS to calibrate Horiba and load equipment for surface water sampling at CWC HSD-A.

1140- Arrive at CWC HSD-A and prepare to collect water quality measurements.

1155- begin sampling directly from the creek for Rad's, metals.

1205- Complete sampling and return to SLAIS to secure samples and off-load equipment.

ZH 12.19.23

Recorded By: Lou Hoover 12/19/23 QA: Hannah Hess 12/27/23

COC: LE12212023-08ML
LE12212023-09TA

DATE: 12/20/23

FIELD CREW: Lon Hoover & Jared King Witness: none

WEATHER: Partly Cloudy, 45°F

WELL ID: N/A SAMPLE ID: CWC273164

TOTAL DEPTH: N/A WELL DIAMETER: N/A

SCREEN INTERVAL: N/A MIDDLE OF SCREEN: N/A

STARTING WATER LEVEL: N/A FINAL WATER LEVEL: N/A

EVACUATION METHOD: N/A

EQUIPMENT SERIAL #'S: Horiba = GLW103285

PURGE START TIME: N/A PURGE END TIME: N/A TOTAL VOLUME PURGED: N/A

SAMPLE START TIME: 1055 SAMPLE END TIME: 1105

CWC HSD-A

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1050	N/A	N/A	6.70	0.533	27.2	14.35	4.20	401	N/A

ZH 12-20-23

Recorded By: J.M.S. Hoover 12/20/23 QA: Jennifer Hall 12/27/23

DATE: 12/20/23

FIELD CREW: Lon Hoover & Jared King Witness: none

ZH 12-20-23

WEATHER: Partly Cloudy, 45°F

ZH 12-20-23

DAILY TASK ACTIVITY: 1000 - Meet at SLAPS to calibrate Horiba and load equipment for surface water sampling at CWC HSD-A.

1040 - Arrive at CWC HSD-A and prepare to collect water quality measurements.

1055 - Begin collecting Rad; metal samples directly from the creek.

1105 - Complete sampling of CWC HSD-A and return to SLAPS to secure samples and off-load equipment.

ZH 12-20-23

Recorded By: J.M.S. Hoover 12/20/23 QA: Jennifer Hall 12/27/23

COC: LE12212023-10ML
LE12212023-11TA

DATE: 12/21/23

FIELD CREW: Lou Hoover & Jared King Witness none

WEATHER: Mostly Cloudy, 57°F

WELL ID: N/A SAMPLE ID: CWC 273165

TOTAL DEPTH: N/A WELL DIAMETER: N/A

SCREEN INTERVAL: N/A MIDDLE OF SCREEN: N/A

STARTING WATER LEVEL: N/A FINAL WATER LEVEL: N/A

EVACUATION METHOD: N/A

EQUIPMENT SERIAL #'S: Horiba = GLW103285

PURGE START TIME: N/A PURGE END TIME: N/A TOTAL VOLUME PURGED: N/A

SAMPLE START TIME: 1225 SAMPLE END TIME: 1235

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1220	N/A	N/A	6.58	0.614	25.3	10.92	6.06	395	N/A

ZH 12.21.23

Recorded By: Jon S. Hoover 12/21/23 QA: Hannah Hall 12/27/23

DATE: 12/21/23

FIELD CREW: Lou Hoover & Jared King Witness: none

ZH | 12.21.23

WEATHER: Mostly Cloudy, 57°F

ZH | 12.21.23

DAILY TASK ACTIVITY: 1140 - Meet at SLAPS to calibrate Horiba and load equipment for surface water sampling at CWC 1150-A.

1215 - Arrive at CWC 1150-A and prepare to collect water quality measurements.

1225 - Begin sampling for Rad.'s & metals directly from the creek.

1235 - Complete sampling of CWC 1150-A and return to SLAPS to secure samples and off-load equipment.

ZH 12.21.23

Recorded By: Jon S. Hoover 12/21/23 QA: Hannah Hall 12/27/23

100

DATE:_____

FIELD CREW:_____

WEATHER:_____

WELL ID: _____ SAMPLE ID: _____

TOTAL DEPTH: _____ WELL DIAMETER: _____

SCREEN INTERVAL: _____ MIDDLE OF SCREEN: _____

STARTING WATER LEVEL: _____ FINAL WATER LEVEL: _____

EVACUATION METHOD: _____

EQUIPMENT SERIAL #'S: _____

_____

PURGE START TIME: _____ PURGE END TIME: _____ TOTAL VOLUME PURGED: _____

SAMPLE START TIME: _____ SAMPLE END TIME: _____

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
									-
				LH		12-21-23			

Recorded By:_____ QA:_____

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Recorded By:_____ QA:_____

DATE: 12-26-23

FIELD CREW: Jared King ; Dominic Stefl Witness: none

N/A / JK 12-26-23

WEATHER: Sunny ; 40°F

JK / 12-26-23

DAILY TASK ACTIVITY:

1100 - Met at SLAPS to calibrate equipment and load up the vehicle. Departed SLAPS for surface water sampling at CWC HSD-A.

1145 - Arrive at CWC HSD-A and prepare to collect water quality measurements.

1208 - Collected water quality measurements.

1210 - Begin collecting Rad ; metal samples directly from the creek.

1215 - Completed sampling of CWC HSD-A and return to SLAPS to secure samples and off-load equipment.

JK 12-26-23

Recorded By: 12-26-23 QA: 01/04/24

COC: LE122820023 - 01ML
LE122820023 - 02TA

DATE: 12-26-23 Witness: none

FIELD CREW: Jared King ; Dominic Stefl

WEATHER: Sunny, 45°F

WELL ID: N/A SAMPLE ID: CWC273166

TOTAL DEPTH: N/A WELL DIAMETER: N/A

SCREEN INTERVAL: N/A MIDDLE OF SCREEN: N/A

STARTING WATER LEVEL: N/A FINAL WATER LEVEL: N/A

EVACUATION METHOD: N/A

EQUIPMENT SERIAL #'S: Horiba = GLW103285

PURGE START TIME: N/A PURGE END TIME: N/A TOTAL VOLUME PURGED: N/A

SAMPLE START TIME: 1210 SAMPLE END TIME: 1215

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1208	N/A	N/A	6.78	0.281	35.7	7.96	10.54	359	N/A

JK 12-26-23

Recorded By: J King 12-26-23 QA Hannah Hall 01/04/24

DATE: 12-27-23

FIELD CREW: Jared King ; Dominic Stefl Witness: none

JK / 12-27-23

WEATHER: Snow / rain, 35°F

JK / 12-27-23

DAILY TASK ACTIVITY:

1110 - Met at SLAPS to calibrate equipment ; load up vehicle for surface water sampling at CWC HSD-A.

1140 - Arrive at CWC HSD-A. Noticed a rainbow-sheen oil layer on the surface of CWC adjacent to the bank we sample from, pretty significant in size. Prepare to collect water quality measurements.

1155 - Collected water quality measurements.

1205 - Begin collecting Rad ; metal samples directly from the creek.

1210 - Completed sampling of CWC HSD-A and return to SLAPS to secure samples and off-load equipment

JK / 12-27-23

Recorded By: J King 12-27-23 QA Hannah Hall 01/04/24

COC: LE 12282023-03ML
LE 12282023-04TA

DATE: 12-27-2023

Witness': none

FIELD CREW: Jared King & Dominic Stefl

WEATHER: Snow/rain 35°F

WELL ID: N/A SAMPLE ID: CWC 273167

TOTAL DEPTH: N/A WELL DIAMETER: N/A

SCREEN INTERVAL: N/A MIDDLE OF SCREEN: N/A

STARTING WATER LEVEL: N/A FINAL WATER LEVEL: N/A

EVACUATION METHOD: N/A

EQUIPMENT SERIAL #'S: Horiba = GLW103285

PURGE START TIME: N/A PURGE END TIME: N/A TOTAL VOLUME PURGED: N/A

SAMPLE START TIME: 1205 SAMPLE END TIME: 1210

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1155	N/A	N/A	6.39	Ø.342	35.2	9.53	8.78	386	N/A

JK / 12-27-2023

Recorded By: Jared King 12-27-23 QA: Hannah Hoss 01/04/24

DATE: 12-28-2023

FIELD CREW: Jared King, Nathan Gross Witness': none

JK / 12-28-2023

WEATHER: Sunny, 40°F

JK / 12-28-2023

DAILY TASK ACTIVITY:

1100 - Arrive at SLAPS to calibrate equipment and load vehicle for surface water sampling at CWC HSD-A.

1145 - Arrive at CWC HSD-A and prepared to collect water quality measurements. Used a shovel to touch up stairs to the creek due to yesterday's wet conditions.

1155 - Collected water quality measurements.

1205 - Begin sampling for Rad & metals directly from the creek.

1210 - Completed sampling of CWC HSD-A. Return to SLAPS to secure samples and unload equipment.

JK / 12-28-2023

Recorded By: Jared King 12-28-23 QA: Hannah Hoss 01/04/24

COC: LE 12282023-05ML
LE 12282023-06TA

DATE: 12-28-2023

FIELD CREW: Jared King, Nathan Gross Witness: none

WEATHER: Sunny, 40°F

WELL ID: N/A SAMPLE ID: CWC273168

TOTAL DEPTH: N/A WELL DIAMETER: N/A

SCREEN INTERVAL: N/A MIDDLE OF SCREEN: N/A

STARTING WATER LEVEL: N/A FINAL WATER LEVEL: N/A

EVACUATION METHOD: N/A

EQUIPMENT SERIAL #'S: Horiba = GLW103285

PURGE START TIME: N/A PURGE END TIME: N/A TOTAL VOLUME PURGED: N/A

SAMPLE START TIME: 1200 SAMPLE END TIME: 1205

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1150	N/A	N/A	6.39	0.424	40.0	10.93	7.02	393	N/A
			JK 12-28-23						

Recorded By: 12-28-2023 QA: 01/04/24

DATE: 12-30-2023

FIELD CREW: Nathan Gross, Ross Obernuefemann
Witness: None.
NAG / 12-30-23

WEATHER: 47° Sunny
NAG / 12-30-23

DAILY TASK ACTIVITY:

0900 - MET AT SLAPS to calibrate and load equipment for surface water sampling at CWCHSD-A.
0930 - Departed for CWCHSD-A.
0945 - Started collecting field parameters and NAG 12-30-23 samples.
0950 - Completed sampling. Returned to van and then to SLAPS.
1010 - Arrived at SLAPS. Unloaded samples and equipment. Worked on logbook.

NAG / 12-30-23

Recorded By: NAG 12-30-23 QA: 01/04/24

COC: LE01042024-01ML
LE01042024-02TA

DATE: 12-30-23

Witness: None.

FIELD CREW: Nathan Grass, Ross Obernuefeman

WEATHER: 35° Clear

WELL ID: N/A

SAMPLE ID: CWC273169

TOTAL DEPTH: _____

WELL DIAMETER: N/A

SCREEN INTERVAL: _____

MIDDLE OF SCREEN: _____

STARTING WATER LEVEL: _____

FINAL WATER LEVEL: _____

EVACUATION METHOD: _____

EQUIPMENT SERIAL #'S: Horiba - GLW10328S

PURGE START TIME: N/A PURGE END TIME: N/A TOTAL VOLUME PURGED: N/A

SAMPLE START TIME: 0945 SAMPLE END TIME: 0950

CWCHSD-A

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
0935	N/A	N/A	6.45	0.659	26.6	10.17	6.24	396	N/A

NBS 12-30-23

Recorded By: NBS 12-30-23 QA: [illegible] 01/04/24

DATE: _____

FIELD CREW: _____

WEATHER: _____

DAILY TASK ACTIVITY: _____

14 1-2-24

Recorded By: _____ QA: _____

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APPENDIX F

GROUNDWATER FIELD PARAMETER DATA AND ANALYTICAL DATA RESULTS FOR CALENDAR YEAR 2023

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Table F-1. Groundwater Monitoring Field Parameters for the Latty Avenue Properties
First Quarter 2023

Station ID	Date Sampled	Purge Rate (mL/minute)	Volume Removed (mL)	pH	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	ORP (mV)	Depth to Water at Sampling Time	Depth to Water (BTOC) 02/15/23
HISS-01	---	---	---	---	---	---	---	---	---	---	7.78
HISS-06A	---	---	---	---	---	---	---	---	---	---	7.7
HISS-10	---	---	---	---	---	---	---	---	---	---	6.11
HISS-11A	02/15/23	50	600	7.13	0.754	19.9	2.03	16.34	218	13.12	12.28
HISS-17S	---	---	---	---	---	---	---	---	---	---	4.94
HISS-19S	---	---	---	---	---	---	---	---	---	---	14.3
HW22	---	---	---	---	---	---	---	---	---	---	13.2
HW23	---	---	---	---	---	---	---	---	---	---	9.42

Table F-1. Groundwater Monitoring Field Parameters for the Latty Avenue Properties (Continued)
Second Quarter 2023

Station ID	Date Sampled	Purge Rate (mL/minute)	Volume Removed (mL)	pH	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	ORP (mV)	Depth to Water at Sampling Time	Depth to Water (BTOC) 05/15/23
HISS-01	---	---	---	---	---	---	---	---	---	---	9.03
HISS-06A	---	---	---	---	---	---	---	---	---	---	8.22
HISS-10	05/16/23	150	2,700	7.14	1.00	66.9	0.28	14.91	293	6.94	6.89
HISS-11A	---	---	---	---	---	---	---	---	---	---	12.8
HISS-17S	---	---	---	---	---	---	---	---	---	---	5.21
HISS-19S	---	---	---	---	---	---	---	---	---	---	14.53
HW22	05/17/23	35	525	6.68	1.91	32.0	1.41	15.30	243	13.87	13.65
HW23	05/17/23	80	960	7.41	1.07	36.9	5.41	14.94	-132	9.78	9.70

Table F-1. Groundwater Monitoring Field Parameters for the Latty Avenue Properties (Continued)
Third Quarter 2023

Station ID	Date Sampled	Purge Rate (mL/minute)	Volume Removed (mL)	pH	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	ORP (mV)	Depth to Water at Sampling Time	Depth to Water (BTOC) 08/28/23
HISS-01	---	---	---	---	---	---	---	---	---	---	10.52
HISS-06A	---	---	---	---	---	---	---	---	---	---	8.64
HISS-10	09/05/23	150	3,150	7.15	0.987	3.2	0.30	18.91	329	8.49	7.40
HISS-11A	---	---	---	---	---	---	---	---	---	---	13.04
HISS-17S	---	---	---	---	---	---	---	---	---	---	7.00
HISS-19S	---	---	---	---	---	---	---	---	---	---	14.53
HW22	08/30/23	35	525	6.61	2.25	9.1	1.50	16.95	209	15.56	14.86
HW23	08/30/23	80	1,680	7.36	1.09	20.5	3.22	16.28	-138	10.07	9.88

Table F-1. Groundwater Monitoring Field Parameters for the Latty Avenue Properties (Continued)
Fourth Quarter 2023

Station ID	Date Sampled	Purge Rate (mL/minute)	Volume Removed (mL)	pH	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	ORP (mV)	Depth to Water at Sampling Time	Depth to Water (BTOC) 10/25/23
HISS-01	11/06/23	250	34,725	7.03	1.34	3.1	0.60	18.66	196	12.29	12.92
HISS-06A	11/02/23	100	7,500	6.98	1.28	5.4	0.86	16.30	198	9.68	10.09
HISS-10	11/22/23	250	31,150	6.93	1.11	2.8	1.20	15.73	144	9.44	10.05
HISS-11A	11/08/23	100	6,250	7.06	0.712	2.3	0.82	19.01	226	14.56	13.81
HISS-17S	11/07/23	250	36,580	7.34	0.439	4.5	0.85	18.74	192	8.66	9.29
HISS-19S	11/20/23	250	36,000	6.71	1.02	0.0	0.54	16.67	-120	17.42	14.79
HW22	11/08/23	110	9,496	6.60	2.29	4.4	1.79	17.61	234	15.25	16.93
HW23	10/25/23	300	50,800	7.27	0.950	45.7	3.12	14.30	-121	11.07	9.92

--- Monitoring well was not sampled during this event.

BTOC – below top of casing

Table F-1. Groundwater Monitoring Field Parameters for the Latty Avenue Properties (Continued)
Comprehensive 2023

Station ID	Date Sampled	Purge Rate (mL/minute)	Volume Removed (mL)	pH	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	ORP (mV)	Depth to Water at Sampling Time	Depth to Water (BTOC) 10/25/23
HISS-01	06/21/23	120	1,440	7.22	1.05	9.2	4.53	20.03	221	11.04	NM
HISS-06A	06/20/23	100	1,800	7.04	1.26	94.9	0.71	22.77	233	8.95	NM
HISS-10	06/21/23	150	2,250	7.11	1.02	11.3	0.42	17.52	277	7.66	NM
HISS-11A	06/20/23	50	750	7.07	0.725	16.7	0.79	16.68	264	13.13	NM
HISS-17S	06/21/23	80	960	7.48	0.455	11.7	2.11	21.12	189	5.57	NM
HISS-19S	06/14/23	60	900	6.78	1.03	44.1	0.89	21.60	-125	14.85	NM
HW22	06/14/23	40	600	6.67	1.88	18.3	1.29	17.66	161	14.82	NM
HW23	06/14/23	80	1,200	7.61	1.01	39.2	7.97	16.84	-125	9.85	NM

--- Monitoring well was not sampled during this event.

BTOC – below top of casing

Table F-2. Groundwater Monitoring Field Parameters for SLAPS and SLAPS VPs
First Quarter 2023

Station ID	Date Sampled	Purge Rate (mL/minute)	Volume Removed (mL)	pH	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	ORP (mV)	Depth to Water at Sampling Time	Depth to Water (BTOC) 02/15/23
B53W01D	---	---	---	---	---	---	---	---	---	---	10.15
B53W01S	---	---	---	---	---	---	---	---	---	---	10.30
B53W06S	02/21/23	20	360	6.68	2.18	71.4	2.18	12.74	333	16.47	15.34
B53W07D	---	---	---	---	---	---	---	---	---	---	10.30
B53W07S	---	---	---	---	---	---	---	---	---	---	19.25
B53W09S	---	---	---	---	---	---	---	---	---	---	*
B53W17S	---	---	---	---	---	---	---	---	---	---	11.15
MW31-98	---	---	---	---	---	---	---	---	---	---	13.44
MW32-98	---	---	---	---	---	---	---	---	---	---	15.39
PW35	---	---	---	---	---	---	---	---	---	---	10.26
PW36	---	---	---	---	---	---	---	---	---	---	9.48
PW42	---	---	---	---	---	---	---	---	---	---	*
PW43	---	---	---	---	---	---	---	---	---	---	15.59
PW44	02/16/23	50	600	7.08	0.914	8.9	2.39	8.03	244	3.84	3.09
PW45	02/16/23	80	1,000	7.24	1.32	35.0	3.08	11.95	266	6.06	6.24
PW46	02/16/23	50	600	6.59	2.58	28.8	0.68	8.89	270	10.63	10.72

Table F-2. Groundwater Monitoring Field Parameters for SLAPS and SLAPS VPs (Continued)
Second Quarter 2023

Station ID	Date Sampled	Purge Rate (mL/minute)	Volume Removed (mL)	pH	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	ORP (mV)	Depth to Water at Sampling Time	Depth to Water (BTOC) 05/15/23
B53W01D	05/15/23	120	1,800	7.17	1.03	54.6	0.47	16.01	-157	10.30	10.22
B53W01S	05/15/23	50	600	6.91	0.585	35.5	2.35	18.61	185	12.51	12.15
B53W06S	---	---	---	---	---	---	---	---	---	---	14.41
B53W07D	---	---	---	---	---	---	---	---	---	---	10.25
B53W07S	---	---	---	---	---	---	---	---	---	---	19.17
B53W09S	---	---	---	---	---	---	---	---	---	---	*
B53W17S	05/16/23	50	750	6.66	5.6	44.2	3.09	15.21	331	11.06	10.94
MW31-98	---	---	---	---	---	---	---	---	---	---	13.19
MW32-98	---	---	---	---	---	---	---	---	---	---	14.28
PW35	---	---	---	---	---	---	---	---	---	---	10.05
PW36	---	---	---	---	---	---	---	---	---	---	9.55
PW42	---	---	---	---	---	---	---	---	---	---	*
PW43	05/18/23	50	600	7.33	0.466	32.5	6.92	17.12	325	16.42	15.84
PW44	---	---	---	---	---	---	---	---	---	---	4.98
PW45	---	---	---	---	---	---	---	---	---	---	6.81
PW46	05/18/23	50	900	6.64	2.52	20.8	0.85	19.96	50	12.34	12.07

Table F-2. Groundwater Monitoring Field Parameters for SLAPS and SLAPS VPs (Continued)
Third Quarter 2023

Station ID	Date Sampled	Purge Rate (mL/minute)	Volume Removed (mL)	pH	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	ORP (mV)	Depth to Water at Sampling Time	Depth to Water (BTOC) 08/28/23
B53W01D	---	---	---	---	---	---	---	---	---	---	10.40
B53W01S	---	---	---	---	---	---	---	---	---	---	14.93
B53W06S	---	---	---	---	---	---	---	---	---	---	16.02
B53W07D	---	---	---	---	---	---	---	---	---	---	10.60
B53W07S	---	---	---	---	---	---	---	---	---	---	20.60
B53W09S	---	---	---	---	---	---	---	---	---	---	16.28
B53W17S	08/31/23	50	750	6.59	5.73	0.0	0.66	17.44	321	15.08	14.58
MW31-98	---	---	---	---	---	---	---	---	---	---	17.46
MW32-98	---	---	---	---	---	---	---	---	---	---	16.73
PW35	---	---	---	---	---	---	---	---	---	---	9.92
PW36	---	---	---	---	---	---	---	---	---	---	9.80
PW42	---	---	---	---	---	---	---	---	---	---	10.09
PW43	08/31/23	50	900	6.67	0.689	6.6	0.94	19.14	340	19.10	18.55
PW44	---	---	---	---	---	---	---	---	---	---	6.41
PW45	---	---	---	---	---	---	---	---	---	---	7.45
PW46	08/29/23	50	900	6.61	2.54	2.9	0.72	20.33	-56	15.83	15.33

Table F-2. Groundwater Monitoring Field Parameters for SLAPS and SLAPS VPs (Continued)
Fourth Quarter 2023

Station ID	Date Sampled	Purge Rate (mL/minute)	Volume Removed (mL)	pH	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	ORP (mV)	Depth to Water at Sampling Time	Depth to Water (BTOC) 10/25/23
B53W01D	11/13/23	300	51,700	7.08	0.961	20.7	0.40	15.50	-168	10.93	10.55
B53W01S	11/13/23	150	9,050	6.78	0.832	3.0	0.87	16.57	105	15.49	14.94
B53W06S	11/15/23	75	11,700	6.62	1.54	7.6	1.29	15.70	226	22.25	16.74
B53W07D	11/14/23	300	47,800	7.03	1.01	41.0	0.44	15.21	-160	11.00	10.78
B53W07S	11/17/22	50	600	6.67	5.19	85.0	0.00	14.71	326	14.25	19.97
B53W09S	11/14/23	60	2,280	6.84	1.46	26.1	5.68	14.45	237	21.60	21.13
B53W17S	11/28/23	250	45,550	6.54	5.57	0.0	0.38	13.08	172	17.52	16.84
MW31-98	11/15/23	120	9,060	6.89	2.19	7.9	0.89	16.62	193	20.11	19.20
MW32-98	11/02/23	88	1,584	6.76	1.25	23.4	1.11	15.03	190	18.13	17.88
PW35	11/21/23	350	63,800	7.32	0.611	8.6	6.23	14.79	-91	18.08	9.80
PW36	11/21/23	300	47,500	7.24	0.674	12.0	0.29	15.35	-163	10.24	9.99
PW42	11/16/23	300	43,200	7.40	0.631	18.5	1.20	16.19	-132	34.61	10.48
PW43	11/08/23	75	3,850	6.72	0.757	7.8	1.18	22.23	225	20.01	19.30
PW44	11/07/23	125	8,255	7.02	0.792	5.8	1.26	19.00	65	8.09	7.95
PW45	11/02/23	80	7,460	7.32	0.923	0.1	0.99	17.68	139	9.20	9.77
PW46	11/27/23	150	13,850	6.53	2.47	0.0	0.83	14.84	51	17.30	16.67

* No water level measurement was taken at monitoring wells PW42 and B53W09S during the first and second-quarter 2023 sampling event because they were inaccessible.

--- Monitoring well was not sampled during this event.

Table F-2. Groundwater Monitoring Field Parameters for SLAPS and SLAPS VPs (Continued)
Comprehensive 2023

Station ID	Date Sampled	Purge Rate (mL/minute)	Volume Removed (mL)	pH	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	ORP (mV)	Depth to Water at Sampling Time	Depth to Water (BTOC) 10/25/23
B53W01D	06/26/23	120	2,060	7.16	0.993	19.2	0.49	18.93	-167	10.36	NM
B53W01S	06/26/23	50	600	6.92	0.870	7.8	3.11	22.17	264	14.64	NM
B53W06S	06/29/23	20	240	6.97	1.98	23.8	3.63	28.53	229	16.04	NM
B53W07D	06/29/23	40	1,080	7.11	1.04	43.2	0.28	18.98	-169	10.51	NM
B53W07S	07/03/23	15	180	6.90	1.43	13.5	1.58	21.95	305	20.74	NM
B53W09S	06/28/23	30	700	6.94	1.02	14.8	0.83	19.27	21	17.09	NM
B53W17S	06/28/23	50	900	6.59	5.42	22.3	0.75	17.77	259	13.53	NM
MW31-98	06/15/23	60	1,260	6.98	2.30	7.8	1.08	19.00	246	15.36	NM
MW32-98	06/15/23	80	960	6.92	0.626	40.0	4.63	19.04	239	15.44	NM
PW35	07/03/23	30	540	7.99	1.45	41.7	7.47	28.01	148	10.86	NM
PW36	07/03/23	300	5,400	7.38	0.177	97.1	0.76	20.26	-67	9.70	NM
PW42	06/27/23	35	735	7.50	0.607	0.0	1.31	20.63	-91	11.93	NM
PW43	06/27/23	50	750	6.67	0.592	0.0	1.09	21.72	252	17.83	NM
PW44	06/22/23	50	1,050	7.04	0.864	12.5	0.95	20.20	-12	6.78	NM
PW45	06/22/23	80	1,200	7.26	1.15	26.8	0.80	20.44	199	7.75	NM
PW46	06/22/23	50	900	6.62	2.32	0.0	0.95	20.96	-11	15.66	NM

* No water level measurement was taken at monitoring wells PW42 and B53W09S during the first and second-quarter 2023 sampling event because they were inaccessible.

--- Monitoring well was not sampled during this event.

NM - not measured - Depth to water measured quarterly and not during the comprehensive event.

Table F-3. CY 2023 Groundwater Sampling Data for the Latty Avenue Properties

Site: Latty Avenue Properties											
Sample Name	**Station Name**	**Collection Date**	**Method**	**Analyte**	**Result**	**Measurement Error**	**DL**	**Units**	**VQ**	**Validation Reason Code**	**Filtered**
HIS266948	HISS-01	06/21/23	SW846 6020	Antimony	2		2	µg/L	U		No
HIS266948	HISS-01	06/21/23	SW846 6020	Arsenic	1.6		1.6	µg/L	U		No
HIS266948	HISS-01	06/21/23	SW846 6020	Barium	52		0.69	µg/L	=		No
HIS266948	HISS-01	06/21/23	SW846 6020	Cadmium	1.5		0.2	µg/L	=		No
HIS266948	HISS-01	06/21/23	SW846 6020	Chromium	4		4	µg/L	U		No
HIS266948	HISS-01	06/21/23	SW846 6020	Molybdenum	24		2	µg/L	=		No
HIS266948	HISS-01	06/21/23	SW846 6020	Nickel	2		2	µg/L	U		No
HIS266948	HISS-01	06/21/23	SW846 6020	Selenium	38		2	µg/L	=		No
HIS266948	HISS-01	06/21/23	SW846 6020	Thallium	0.13		0.13	µg/L	U		No
HIS266948	HISS-01	06/21/23	SW846 6020	Vanadium	4		4	µg/L	U		No
HIS266948	HISS-01	06/21/23	ML-005	Th-228	1.03	0.643	0.898	pCi/L	J	T04, T20	No
HIS266948	HISS-01	06/21/23	ML-005	Th-230	2.8	0.967	0.517	pCi/L	J	F01	No
HIS266948	HISS-01	06/21/23	ML-005	Th-232	0	0	0.711	pCi/L	U		No
HIS266948	HISS-01	06/21/23	ML-006	Ra-226	0.262	0.309	0.504	pCi/L	UJ	T06	No
HIS266948	HISS-01	06/21/23	ML-015	U-234	8.37	1.86	0.42	pCi/L	=		No
HIS266948	HISS-01	06/21/23	ML-015	U-235	0.293	0.392	0.719	pCi/L	UJ	T06	No
HIS266948	HISS-01	06/21/23	ML-015	U-238	8.73	1.9	0.419	pCi/L	=		No
HIS270127	HISS-01	11/06/23	SW846 6020	Antimony	0.42		0.29	µg/L	=		No
HIS270127	HISS-01	11/06/23	SW846 6020	Arsenic	1.6		1.6	µg/L	U		No
HIS270127	HISS-01	11/06/23	SW846 6020	Barium	66		0.69	µg/L	=		No
HIS270127	HISS-01	11/06/23	SW846 6020	Cadmium	0.22		0.06	µg/L	=		No
HIS270127	HISS-01	11/06/23	SW846 6020	Chromium	1.3		1.3	µg/L	U		No
HIS270127	HISS-01	11/06/23	SW846 6020	Molybdenum	20		2	µg/L	=		No
HIS270127	HISS-01	11/06/23	SW846 6020	Nickel	0.98		0.89	µg/L	=		No
HIS270127	HISS-01	11/06/23	SW846 6020	Selenium	72		0.67	µg/L	=		No
HIS270127	HISS-01	11/06/23	SW846 6020	Thallium	0.38		0.38	µg/L	U		No
HIS270127	HISS-01	11/06/23	SW846 6020	Vanadium	4		4	µg/L	U		No
HIS270127	HISS-01	11/06/23	ML-005	Th-228	0.662	0.462	0.402	pCi/L	J	F01, T04, T20	No
HIS270127	HISS-01	11/06/23	ML-005	Th-230	1.19	0.622	0.402	pCi/L	J	F01, T04, T20	No
HIS270127	HISS-01	11/06/23	ML-005	Th-232	0.0756	0.214	0.557	pCi/L	UJ	T06	No
HIS270127	HISS-01	11/06/23	ML-006	Ra-226	0.0379	0.33	1.09	pCi/L	UJ	T06	No
HIS270127	HISS-01	11/06/23	ML-015	U-234	10.8	2.18	0.504	pCi/L	=		No
HIS270127	HISS-01	11/06/23	ML-015	U-235	0.268	0.342	0.517	pCi/L	UJ	T06	No

Table F-3. CY 2023 Groundwater Sampling Data for the Latty Avenue Properties (Continued)

Site: Latty Avenue Properties											
Sample Name	Station Name	Collection Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Filtered
HIS270127	HISS-01	11/06/23	ML-015	U-238	10.6	2.15	0.578	pCi/L	=		No
HIS270127-1	HISS-01	11/06/23	SW846 6020	Antimony	0.37		0.29	µg/L	=		No
HIS270127-1	HISS-01	11/06/23	SW846 6020	Arsenic	1.6		1.6	µg/L	U		No
HIS270127-1	HISS-01	11/06/23	SW846 6020	Barium	63		0.69	µg/L	=		No
HIS270127-1	HISS-01	11/06/23	SW846 6020	Cadmium	0.39		0.06	µg/L	=		No
HIS270127-1	HISS-01	11/06/23	SW846 6020	Chromium	1.3		1.3	µg/L	U		No
HIS270127-1	HISS-01	11/06/23	SW846 6020	Molybdenum	18		2	µg/L	=		No
HIS270127-1	HISS-01	11/06/23	SW846 6020	Nickel	0.89		0.89	µg/L	U		No
HIS270127-1	HISS-01	11/06/23	SW846 6020	Selenium	67		0.67	µg/L	=		No
HIS270127-1	HISS-01	11/06/23	SW846 6020	Thallium	0.38		0.38	µg/L	U		No
HIS270127-1	HISS-01	11/06/23	SW846 6020	Vanadium	4		4	µg/L	U		No
HIS270127-1	HISS-01	11/06/23	ML-005	Th-228	0.256	0.299	0.468	pCi/L	UJ	T06	No
HIS270127-1	HISS-01	11/06/23	ML-005	Th-230	1.23	0.621	0.39	pCi/L	J	F01, T04, T20	No
HIS270127-1	HISS-01	11/06/23	ML-005	Th-232	0.146	0.254	0.539	pCi/L	UJ	T06	No
HIS270127-1	HISS-01	11/06/23	ML-006	Ra-226	0.152	0.431	1.12	pCi/L	UJ	T06	No
HIS270127-1	HISS-01	11/06/23	ML-015	U-234	10.3	2.04	0.387	pCi/L	=		No
HIS270127-1	HISS-01	11/06/23	ML-015	U-235	0.697	0.516	0.478	pCi/L	J	T04, T20	No
HIS270127-1	HISS-01	11/06/23	ML-015	U-238	9.98	2	0.464	pCi/L	=		No
HIS270127-2	HISS-01	11/06/23	SW846 9320 MODL	Ra-228	0.359	0.298	0.461	pCi/L	UJ	T04, T05	No
HIS270127-2	HISS-01	11/06/23	EML A-01-R MOD	Th-228	0.00382	0.106	0.191	pCi/L	UJ	T06	No
HIS270127-2	HISS-01	11/06/23	EML A-01-R MOD	Th-230	-0.0916	0.144	0.257	pCi/L	UJ	T06	No
HIS270127-2	HISS-01	11/06/23	EML A-01-R MOD	Th-232	0.0351	0.0676	0.12	pCi/L	UJ	T06	No
HIS270127-2	HISS-01	11/06/23	EML A-01-R MOD	U-234	10.6	1.22	0.0497	pCi/L	=		No
HIS270127-2	HISS-01	11/06/23	EML A-01-R MOD	U-235	0.597	0.228	0.0618	pCi/L	=		No
HIS270127-2	HISS-01	11/06/23	EML A-01-R MOD	U-238	9.74	1.15	0.08	pCi/L	=		No
HIS270127-2	HISS-01	11/06/23	SW846 9315 MODL	Ra-226	0.0289	0.171	0.328	pCi/L	UJ	T06	No
HIS266949	HISS-06A	06/20/23	SW846 6020	Antimony	2		2	µg/L	U		No
HIS266949	HISS-06A	06/20/23	SW846 6020	Arsenic	1.6		1.6	µg/L	U		No
HIS266949	HISS-06A	06/20/23	SW846 6020	Barium	66		0.69	µg/L	=		No
HIS266949	HISS-06A	06/20/23	SW846 6020	Cadmium	0.83		0.2	µg/L	=		No
HIS266949	HISS-06A	06/20/23	SW846 6020	Chromium	4		4	µg/L	U		No
HIS266949	HISS-06A	06/20/23	SW846 6020	Molybdenum	3.8		2	µg/L	=		No
HIS266949	HISS-06A	06/20/23	SW846 6020	Nickel	8.3		2	µg/L	=		No

Table F-3. CY 2023 Groundwater Sampling Data for the Latty Avenue Properties (Continued)

Site: Latty Avenue Properties											
Sample Name	Station Name	Collection Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Filtered
HIS266949	HISS-06A	06/20/23	SW846 6020	Selenium	130		2	µg/L	=		No
HIS266949	HISS-06A	06/20/23	SW846 6020	Thallium	0.13		0.13	µg/L	U		No
HIS266949	HISS-06A	06/20/23	SW846 6020	Vanadium	4		4	µg/L	U		No
HIS266949	HISS-06A	06/20/23	ML-005	Th-228	0.458	0.38	0.632	pCi/L	UJ	T04, T05	No
HIS266949	HISS-06A	06/20/23	ML-005	Th-230	1.48	0.593	0.364	pCi/L	J	F01	No
HIS266949	HISS-06A	06/20/23	ML-005	Th-232	0.0539	0.153	0.397	pCi/L	UJ	T06	No
HIS266949	HISS-06A	06/20/23	ML-006	Ra-226	0.671	0.556	0.695	pCi/L	UJ	T04, T05	No
HIS266949	HISS-06A	06/20/23	ML-015	U-234	2.98	1.03	0.576	pCi/L	=		No
HIS266949	HISS-06A	06/20/23	ML-015	U-235	0.0966	0.273	0.711	pCi/L	UJ	T06	No
HIS266949	HISS-06A	06/20/23	ML-015	U-238	1.56	0.734	0.574	pCi/L	=		No
HIS270128	HISS-06A	11/02/23	SW846 6020	Antimony	0.29		0.29	µg/L	U		No
HIS270128	HISS-06A	11/02/23	SW846 6020	Arsenic	1.6		1.6	µg/L	U		No
HIS270128	HISS-06A	11/02/23	SW846 6020	Barium	62		0.69	µg/L	=		No
HIS270128	HISS-06A	11/02/23	SW846 6020	Cadmium	1.1		0.06	µg/L	=		No
HIS270128	HISS-06A	11/02/23	SW846 6020	Chromium	1.3		1.3	µg/L	U		No
HIS270128	HISS-06A	11/02/23	SW846 6020	Molybdenum	3.4		2	µg/L	=		No
HIS270128	HISS-06A	11/02/23	SW846 6020	Nickel	4.1		0.89	µg/L	=		No
HIS270128	HISS-06A	11/02/23	SW846 6020	Selenium	130		0.67	µg/L	=		No
HIS270128	HISS-06A	11/02/23	SW846 6020	Thallium	0.38		0.38	µg/L	U		No
HIS270128	HISS-06A	11/02/23	SW846 6020	Vanadium	4		4	µg/L	U		No
HIS270128	HISS-06A	11/02/23	ML-005	Th-228	0.375	0.553	1.17	pCi/L	UJ	T06	No
HIS270128	HISS-06A	11/02/23	ML-005	Th-230	1.58	0.856	0.569	pCi/L	J	F01, T04, T20	No
HIS270128	HISS-06A	11/02/23	ML-005	Th-232	-4.95E-06	0.239	0.846	pCi/L	UJ	T06	No
HIS270128	HISS-06A	11/02/23	ML-006	Ra-226	-0.00594	0.154	0.534	pCi/L	UJ	T06	No
HIS270128	HISS-06A	11/02/23	ML-015	U-234	2.32	1.22	0.781	pCi/L	J	T04, T20	No
HIS270128	HISS-06A	11/02/23	ML-015	U-235	0	0.513	1.33	pCi/L	UJ	T06	No
HIS270128	HISS-06A	11/02/23	ML-015	U-238	1.43	0.949	0.777	pCi/L	J	T04, T20	No
HIS266925	HISS-10	05/16/23	SW846 6020	Antimony	2		2	µg/L	U		No
HIS266925	HISS-10	05/16/23	SW846 6020	Arsenic	1.6		1.6	µg/L	U		No
HIS266925	HISS-10	05/16/23	SW846 6020	Barium	63		0.69	µg/L	=		No
HIS266925	HISS-10	05/16/23	SW846 6020	Cadmium	2.3		0.2	µg/L	J	E01, E08	No
HIS266925	HISS-10	05/16/23	SW846 6020	Chromium	4		4	µg/L	U		No
HIS266925	HISS-10	05/16/23	SW846 6020	Molybdenum	67		2	µg/L	=		No

Table F-3. CY 2023 Groundwater Sampling Data for the Latty Avenue Properties (Continued)

Site: Latty Avenue Properties											
Sample Name	Station Name	Collection Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Filtered
HIS266925	HISS-10	05/16/23	SW846 6020	Nickel	3.3		2	µg/L	=		No
HIS266925	HISS-10	05/16/23	SW846 6020	Selenium	13		2	µg/L	=		No
HIS266925	HISS-10	05/16/23	SW846 6020	Thallium	0.13		0.13	µg/L	U		No
HIS266925	HISS-10	05/16/23	SW846 6020	Vanadium	4.9		4	µg/L	=		No
HIS266950	HISS-10	06/21/23	SW846 6020	Antimony	2		2	µg/L	U		No
HIS266950	HISS-10	06/21/23	SW846 6020	Arsenic	1.6		1.6	µg/L	U		No
HIS266950	HISS-10	06/21/23	SW846 6020	Barium	59		0.69	µg/L	=		No
HIS266950	HISS-10	06/21/23	SW846 6020	Cadmium	0.48		0.2	µg/L	=		No
HIS266950	HISS-10	06/21/23	SW846 6020	Chromium	4		4	µg/L	U		No
HIS266950	HISS-10	06/21/23	SW846 6020	Molybdenum	81		2	µg/L	=		No
HIS266950	HISS-10	06/21/23	SW846 6020	Nickel	3.1		2	µg/L	=		No
HIS266950	HISS-10	06/21/23	SW846 6020	Selenium	11		2	µg/L	=		No
HIS266950	HISS-10	06/21/23	SW846 6020	Thallium	0.13		0.13	µg/L	U		No
HIS266950	HISS-10	06/21/23	SW846 6020	Vanadium	4		4	µg/L	U		No
HIS266950	HISS-10	06/21/23	ML-005	Th-228	0.384	0.279	0.391	pCi/L	UJ	T04, T05	No
HIS266950	HISS-10	06/21/23	ML-005	Th-230	1.13	0.448	0.298	pCi/L	J	F01	No
HIS266950	HISS-10	06/21/23	ML-005	Th-232	0.101	0.146	0.272	pCi/L	UJ	T06	No
HIS266950	HISS-10	06/21/23	ML-006	Ra-226	0.307	0.535	1.19	pCi/L	UJ	T06	No
HIS266950	HISS-10	06/21/23	ML-015	U-234	4.96	1.67	0.869	pCi/L	=		No
HIS266950	HISS-10	06/21/23	ML-015	U-235	0.291	0.506	1.07	pCi/L	UJ	T06	No
HIS266950	HISS-10	06/21/23	ML-015	U-238	3.65	1.4	0.866	pCi/L	=		No
HIS269589	HISS-10	09/05/23	SW846 6020	Antimony	1.3		0.29	µg/L	=		No
HIS269589	HISS-10	09/05/23	SW846 6020	Arsenic	1.6		1.6	µg/L	U		No
HIS269589	HISS-10	09/05/23	SW846 6020	Barium	51		0.69	µg/L	=		No
HIS269589	HISS-10	09/05/23	SW846 6020	Cadmium	1.1		0.06	µg/L	=		No
HIS269589	HISS-10	09/05/23	SW846 6020	Chromium	1.3		1.3	µg/L	U		No
HIS269589	HISS-10	09/05/23	SW846 6020	Molybdenum	89		2	µg/L	=		No
HIS269589	HISS-10	09/05/23	SW846 6020	Nickel	9		0.89	µg/L	=		No
HIS269589	HISS-10	09/05/23	SW846 6020	Selenium	8.5		0.67	µg/L	=		No
HIS269589	HISS-10	09/05/23	SW846 6020	Thallium	0.38		0.38	µg/L	U		No
HIS269589	HISS-10	09/05/23	SW846 6020	Vanadium	4		4	µg/L	U		No
HIS270129	HISS-10	11/22/23	SW846 6020	Antimony	1.8		0.29	µg/L	=		No
HIS270129	HISS-10	11/22/23	SW846 6020	Arsenic	1.6		1.6	µg/L	U		No
HIS270129	HISS-10	11/22/23	SW846 6020	Barium	80		0.69	µg/L	=		No
HIS270129	HISS-10	11/22/23	SW846 6020	Cadmium	0.18		0.06	µg/L	=		No

Table F-3. CY 2023 Groundwater Sampling Data for the Latty Avenue Properties (Continued)

Site: Latty Avenue Properties											
Sample Name	Station Name	Collection Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Filtered
HIS270129	HISS-10	11/22/23	SW846 6020	Chromium	1.3		1.3	µg/L	U		No
HIS270129	HISS-10	11/22/23	SW846 6020	Molybdenum	47		2	µg/L	=		No
HIS270129	HISS-10	11/22/23	SW846 6020	Nickel	2.7		0.89	µg/L	=		No
HIS270129	HISS-10	11/22/23	SW846 6020	Selenium	120		0.67	µg/L	=		No
HIS270129	HISS-10	11/22/23	SW846 6020	Thallium	0.38		0.38	µg/L	U		No
HIS270129	HISS-10	11/22/23	SW846 6020	Vanadium	4		4	µg/L	U		No
HIS270129	HISS-10	11/22/23	ML-005	Th-228	0.742	0.491	0.522	pCi/L	J	T04, T20	No
HIS270129	HISS-10	11/22/23	ML-005	Th-230	1.52	0.7	0.533	pCi/L	=		No
HIS270129	HISS-10	11/22/23	ML-005	Th-232	0	0	0.672	pCi/L	U		No
HIS270129	HISS-10	11/22/23	ML-006	Ra-226	-0.0426	0.225	0.825	pCi/L	UJ	T06	No
HIS270129	HISS-10	11/22/23	ML-015	U-234	7.74	1.79	0.593	pCi/L	=		No
HIS270129	HISS-10	11/22/23	ML-015	U-235	0.596	0.53	0.732	pCi/L	UJ	T04, T05	No
HIS270129	HISS-10	11/22/23	ML-015	U-238	4.17	1.25	0.591	pCi/L	=		No
HIS265846	HISS-11A	02/15/23	SW846 6020	Antimony	2		2	µg/L	U		No
HIS265846	HISS-11A	02/15/23	SW846 6020	Arsenic	1.6		1.6	µg/L	U		No
HIS265846	HISS-11A	02/15/23	SW846 6020	Barium	98		0.69	µg/L	=		No
HIS265846	HISS-11A	02/15/23	SW846 6020	Cadmium	3.5		0.2	µg/L	J	E01, E08	No
HIS265846	HISS-11A	02/15/23	SW846 6020	Chromium	4		4	µg/L	U		No
HIS265846	HISS-11A	02/15/23	SW846 6020	Molybdenum	3.8		2	µg/L	=		No
HIS265846	HISS-11A	02/15/23	SW846 6020	Nickel	2		2	µg/L	U		No
HIS265846	HISS-11A	02/15/23	SW846 6020	Selenium	4.2		2	µg/L	=		No
HIS265846	HISS-11A	02/15/23	SW846 6020	Thallium	0.13		0.13	µg/L	U		No
HIS265846	HISS-11A	02/15/23	SW846 6020	Vanadium	4		4	µg/L	U		No
HIS266951	HISS-11A	06/20/23	SW846 6020	Antimony	2		2	µg/L	U		No
HIS266951	HISS-11A	06/20/23	SW846 6020	Arsenic	1.6		1.6	µg/L	U		No
HIS266951	HISS-11A	06/20/23	SW846 6020	Barium	84		0.69	µg/L	=		No
HIS266951	HISS-11A	06/20/23	SW846 6020	Cadmium	1.9		0.2	µg/L	=		No
HIS266951	HISS-11A	06/20/23	SW846 6020	Chromium	4		4	µg/L	U		No
HIS266951	HISS-11A	06/20/23	SW846 6020	Molybdenum	4.9		2	µg/L	=		No
HIS266951	HISS-11A	06/20/23	SW846 6020	Nickel	2		2	µg/L	U		No
HIS266951	HISS-11A	06/20/23	SW846 6020	Selenium	3.4		2	µg/L	=		No
HIS266951	HISS-11A	06/20/23	SW846 6020	Thallium	0.13		0.13	µg/L	U		No
HIS266951	HISS-11A	06/20/23	SW846 6020	Vanadium	4		4	µg/L	U		No
HIS266951	HISS-11A	06/20/23	ML-005	Th-228	0.598	0.291	0.322	pCi/L	J	T04	No
HIS266951	HISS-11A	06/20/23	ML-005	Th-230	0.958	0.364	0.322	pCi/L	J	F01	No

Table F-3. CY 2023 Groundwater Sampling Data for the Latty Avenue Properties (Continued)

Site: Latty Avenue Properties											
Sample Name	Station Name	Collection Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Filtered
HIS266951	HISS-11A	06/20/23	ML-005	Th-232	0	0	0.081	pCi/L	U		No
HIS266951	HISS-11A	06/20/23	ML-006	Ra-226	0.106	0.212	0.477	pCi/L	UJ	T06	No
HIS266951	HISS-11A	06/20/23	ML-015	U-234	1.24	0.698	0.65	pCi/L	J	T04, T20	No
HIS266951	HISS-11A	06/20/23	ML-015	U-235	-0.0272	0.225	0.579	pCi/L	UJ	T06	No
HIS266951	HISS-11A	06/20/23	ML-015	U-238	1.32	0.719	0.647	pCi/L	J	T04, T20	No
HIS270131	HISS-11A	11/08/23	SW846 6020	Antimony	0.29		0.29	µg/L	U		No
HIS270131	HISS-11A	11/08/23	SW846 6020	Arsenic	1.6		1.6	µg/L	U		No
HIS270131	HISS-11A	11/08/23	SW846 6020	Barium	89		0.69	µg/L	=		No
HIS270131	HISS-11A	11/08/23	SW846 6020	Cadmium	0.28		0.06	µg/L	=		No
HIS270131	HISS-11A	11/08/23	SW846 6020	Chromium	1.3		1.3	µg/L	U		No
HIS270131	HISS-11A	11/08/23	SW846 6020	Molybdenum	4.1		2	µg/L	=		No
HIS270131	HISS-11A	11/08/23	SW846 6020	Nickel	1.1		0.89	µg/L	=		No
HIS270131	HISS-11A	11/08/23	SW846 6020	Selenium	2.9		0.67	µg/L	=		No
HIS270131	HISS-11A	11/08/23	SW846 6020	Thallium	0.38		0.38	µg/L	U		No
HIS270131	HISS-11A	11/08/23	SW846 6020	Vanadium	4		4	µg/L	U		No
HIS270131	HISS-11A	11/08/23	ML-005	Th-228	0.311	0.35	0.573	pCi/L	UJ	T06	No
HIS270131	HISS-11A	11/08/23	ML-005	Th-230	0.662	0.477	0.498	pCi/L	J	F01, T04, T20	No
HIS270131	HISS-11A	11/08/23	ML-005	Th-232	0	0.22	0.573	pCi/L	UJ	T06	No
HIS270131	HISS-11A	11/08/23	ML-006	Ra-226	0.109	0.3	0.773	pCi/L	UJ	T06	No
HIS270131	HISS-11A	11/08/23	ML-015	U-234	1.74	0.841	0.673	pCi/L	=		No
HIS270131	HISS-11A	11/08/23	ML-015	U-235	0.0282	0.246	0.814	pCi/L	UJ	T06	No
HIS270131	HISS-11A	11/08/23	ML-015	U-238	1.16	0.671	0.484	pCi/L	J	T04, T20	No
HIS266952	HISS-17S	06/21/23	SW846 6020	Antimony	2		2	µg/L	U		No
HIS266952	HISS-17S	06/21/23	SW846 6020	Arsenic	1.6		1.6	µg/L	U		No
HIS266952	HISS-17S	06/21/23	SW846 6020	Barium	63		0.69	µg/L	=		No
HIS266952	HISS-17S	06/21/23	SW846 6020	Cadmium	0.87		0.2	µg/L	=		No
HIS266952	HISS-17S	06/21/23	SW846 6020	Chromium	4		4	µg/L	U		No
HIS266952	HISS-17S	06/21/23	SW846 6020	Molybdenum	5.4		2	µg/L	=		No
HIS266952	HISS-17S	06/21/23	SW846 6020	Nickel	2.9		2	µg/L	=		No
HIS266952	HISS-17S	06/21/23	SW846 6020	Selenium	6.5		2	µg/L	=		No
HIS266952	HISS-17S	06/21/23	SW846 6020	Thallium	0.13		0.13	µg/L	U		No
HIS266952	HISS-17S	06/21/23	SW846 6020	Vanadium	4		4	µg/L	U		No
HIS266952	HISS-17S	06/21/23	ML-005	Th-228	0.634	0.339	0.443	pCi/L	J	T04, T20	No
HIS266952	HISS-17S	06/21/23	ML-005	Th-230	0.952	0.386	0.296	pCi/L	J	F01	No
HIS266952	HISS-17S	06/21/23	ML-005	Th-232	0.176	0.173	0.259	pCi/L	UJ	T04, T05	No

Table F-3. CY 2023 Groundwater Sampling Data for the Latty Avenue Properties (Continued)

Site: Latty Avenue Properties											
Sample Name	Station Name	Collection Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Filtered
HIS266952	HISS-17S	06/21/23	ML-006	Ra-226	-0.235	0.282	1.1	pCi/L	UJ	T06	No
HIS266952	HISS-17S	06/21/23	ML-015	U-234	0.175	0.303	0.642	pCi/L	UJ	T06	No
HIS266952	HISS-17S	06/21/23	ML-015	U-235	-0.0269	0.222	0.572	pCi/L	UJ	T06	No
HIS266952	HISS-17S	06/21/23	ML-015	U-238	0.0869	0.246	0.64	pCi/L	UJ	T06	No
HIS270132	HISS-17S	11/07/23	SW846 6020	Antimony	0.29		0.29	µg/L	U		No
HIS270132	HISS-17S	11/07/23	SW846 6020	Arsenic	1.6		1.6	µg/L	U		No
HIS270132	HISS-17S	11/07/23	SW846 6020	Barium	67		0.69	µg/L	=		No
HIS270132	HISS-17S	11/07/23	SW846 6020	Cadmium	0.22		0.06	µg/L	=		No
HIS270132	HISS-17S	11/07/23	SW846 6020	Chromium	1.3		1.3	µg/L	U		No
HIS270132	HISS-17S	11/07/23	SW846 6020	Molybdenum	5		2	µg/L	=		No
HIS270132	HISS-17S	11/07/23	SW846 6020	Nickel	1.5		0.89	µg/L	=		No
HIS270132	HISS-17S	11/07/23	SW846 6020	Selenium	5.8		0.67	µg/L	=		No
HIS270132	HISS-17S	11/07/23	SW846 6020	Thallium	0.38		0.38	µg/L	U		No
HIS270132	HISS-17S	11/07/23	SW846 6020	Vanadium	4		4	µg/L	U		No
HIS270132	HISS-17S	11/07/23	ML-005	Th-228	0.323	0.307	0.361	pCi/L	UJ	T04, T05	No
HIS270132	HISS-17S	11/07/23	ML-005	Th-230	0.816	0.498	0.5	pCi/L	J	F01, T04, T20	No
HIS270132	HISS-17S	11/07/23	ML-005	Th-232	-0.017	0.14	0.36	pCi/L	UJ	T06	No
HIS270132	HISS-17S	11/07/23	ML-006	Ra-226	0.364	0.598	1.1	pCi/L	UJ	T06	No
HIS270132	HISS-17S	11/07/23	ML-015	U-234	0.54	0.429	0.424	pCi/L	J	T04, T20	No
HIS270132	HISS-17S	11/07/23	ML-015	U-235	0	0.279	0.726	pCi/L	UJ	T06	No
HIS270132	HISS-17S	11/07/23	ML-015	U-238	0.438	0.397	0.508	pCi/L	UJ	T04, T05	No
HIS266953	HISS-19S	06/14/23	SW846 6020	Antimony	2		2	µg/L	U		No
HIS266953	HISS-19S	06/14/23	SW846 6020	Arsenic	250		1.6	µg/L	=		No
HIS266953	HISS-19S	06/14/23	SW846 6020	Barium	480		0.69	µg/L	=		No
HIS266953	HISS-19S	06/14/23	SW846 6020	Cadmium	0.3		0.2	µg/L	J	E01, E08	No
HIS266953	HISS-19S	06/14/23	SW846 6020	Chromium	4		4	µg/L	U		No
HIS266953	HISS-19S	06/14/23	SW846 6020	Molybdenum	5.7		2	µg/L	=		No
HIS266953	HISS-19S	06/14/23	SW846 6020	Nickel	3.6		2	µg/L	=		No
HIS266953	HISS-19S	06/14/23	SW846 6020	Selenium	2		2	µg/L	U		No
HIS266953	HISS-19S	06/14/23	SW846 6020	Thallium	0.13		0.13	µg/L	U		No
HIS266953	HISS-19S	06/14/23	SW846 6020	Vanadium	4		4	µg/L	U		No
HIS266953	HISS-19S	06/14/23	ML-005	Th-228	0.418	0.346	0.473	pCi/L	UJ	T04, T05	No
HIS266953	HISS-19S	06/14/23	ML-005	Th-230	0.553	0.386	0.432	pCi/L	J	F01, T04, T20	No
HIS266953	HISS-19S	06/14/23	ML-005	Th-232	0	0.169	0.44	pCi/L	UJ	T06	No
HIS266953	HISS-19S	06/14/23	ML-006	Ra-226	0.526	0.479	0.645	pCi/L	UJ	T04, T05	No

Table F-3. CY 2023 Groundwater Sampling Data for the Latty Avenue Properties (Continued)

Site: Latty Avenue Properties											
Sample Name	Station Name	Collection Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Filtered
HIS266953	HISS-19S	06/14/23	ML-015	U-234	0.134	0.22	0.405	pCi/L	UJ	T06	No
HIS266953	HISS-19S	06/14/23	ML-015	U-235	0	0.266	0.693	pCi/L	UJ	T06	No
HIS266953	HISS-19S	06/14/23	ML-015	U-238	0.057	0.157	0.404	pCi/L	UJ	T06	No
HIS270133	HISS-19S	11/20/23	SW846 6020	Antimony	0.29		0.29	µg/L	U		No
HIS270133	HISS-19S	11/20/23	SW846 6020	Arsenic	170		1.6	µg/L	=		No
HIS270133	HISS-19S	11/20/23	SW846 6020	Barium	460		0.69	µg/L	=		No
HIS270133	HISS-19S	11/20/23	SW846 6020	Cadmium	0.092		0.06	µg/L	=		No
HIS270133	HISS-19S	11/20/23	SW846 6020	Chromium	1.3		1.3	µg/L	U		No
HIS270133	HISS-19S	11/20/23	SW846 6020	Molybdenum	6.6		2	µg/L	=		No
HIS270133	HISS-19S	11/20/23	SW846 6020	Nickel	2.9		0.89	µg/L	=		No
HIS270133	HISS-19S	11/20/23	SW846 6020	Selenium	0.67		0.67	µg/L	U		No
HIS270133	HISS-19S	11/20/23	SW846 6020	Thallium	0.38		0.38	µg/L	U		No
HIS270133	HISS-19S	11/20/23	SW846 6020	Vanadium	4		4	µg/L	U		No
HIS270133	HISS-19S	11/20/23	ML-005	Th-228	0.344	0.321	0.527	pCi/L	UJ	T04, T05	No
HIS270133	HISS-19S	11/20/23	ML-005	Th-230	0.798	0.435	0.351	pCi/L	J	T04, T20	No
HIS270133	HISS-19S	11/20/23	ML-005	Th-232	0.22	0.247	0.404	pCi/L	UJ	T06	No
HIS270133	HISS-19S	11/20/23	ML-006	Ra-226	0.506	0.462	0.709	pCi/L	UJ	T04, T05	No
HIS270133	HISS-19S	11/20/23	ML-015	U-234	0.963	0.541	0.506	pCi/L	J	T04, T20	No
HIS270133	HISS-19S	11/20/23	ML-015	U-235	0	0.24	0.624	pCi/L	UJ	T06	No
HIS270133	HISS-19S	11/20/23	ML-015	U-238	0.599	0.417	0.364	pCi/L	J	T04, T20	No
HIS266926	HW22	05/17/23	SW846 6020	Antimony	2		2	µg/L	U		No
HIS266926	HW22	05/17/23	SW846 6020	Arsenic	1.7		1.6	µg/L	=		No
HIS266926	HW22	05/17/23	SW846 6020	Barium	110		0.69	µg/L	=		No
HIS266926	HW22	05/17/23	SW846 6020	Cadmium	0.2		0.2	µg/L	U	E01, E08	No
HIS266926	HW22	05/17/23	SW846 6020	Chromium	4		4	µg/L	U		No
HIS266926	HW22	05/17/23	SW846 6020	Molybdenum	2		2	µg/L	U		No
HIS266926	HW22	05/17/23	SW846 6020	Nickel	2		2	µg/L	U		No
HIS266926	HW22	05/17/23	SW846 6020	Selenium	16		2	µg/L	=		No
HIS266926	HW22	05/17/23	SW846 6020	Thallium	0.13		0.13	µg/L	U		No
HIS266926	HW22	05/17/23	SW846 6020	Vanadium	7		4	µg/L	=		No
HIS266926	HW22	05/17/23	ML-005	Th-228	0.0644	0.182	0.474	pCi/L	UJ	T06	No
HIS266926	HW22	05/17/23	ML-005	Th-230	0.838	0.491	0.474	pCi/L	J	T04, T20	No
HIS266926	HW22	05/17/23	ML-005	Th-232	0.129	0.223	0.474	pCi/L	UJ	T06	No
HIS266926	HW22	05/17/23	ML-006	Ra-226	0.497	0.507	0.836	pCi/L	UJ	T06	No
HIS266926	HW22	05/17/23	ML-015	U-234	5.61	1.42	0.393	pCi/L	=		No

Table F-3. CY 2023 Groundwater Sampling Data for the Latty Avenue Properties (Continued)

Site: Latty Avenue Properties											
Sample Name	Station Name	Collection Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Filtered
HIS266926	HW22	05/17/23	ML-015	U-235	0.549	0.487	0.673	pCi/L	UJ	T04, T05	No
HIS266926	HW22	05/17/23	ML-015	U-238	5.07	1.34	0.392	pCi/L	=		No
HIS266954	HW22	06/14/23	SW846 6020	Antimony	2		2	µg/L	U		No
HIS266954	HW22	06/14/23	SW846 6020	Arsenic	1.6		1.6	µg/L	U		No
HIS266954	HW22	06/14/23	SW846 6020	Barium	140		0.69	µg/L	=		No
HIS266954	HW22	06/14/23	SW846 6020	Cadmium	0.47		0.2	µg/L	J	E01, E08	No
HIS266954	HW22	06/14/23	SW846 6020	Chromium	4		4	µg/L	U		No
HIS266954	HW22	06/14/23	SW846 6020	Molybdenum	2		2	µg/L	U		No
HIS266954	HW22	06/14/23	SW846 6020	Nickel	2		2	µg/L	U		No
HIS266954	HW22	06/14/23	SW846 6020	Selenium	21		2	µg/L	=		No
HIS266954	HW22	06/14/23	SW846 6020	Thallium	0.13		0.13	µg/L	U		No
HIS266954	HW22	06/14/23	SW846 6020	Vanadium	4		4	µg/L	U		No
HIS266954	HW22	06/14/23	ML-005	Th-228	0.596	0.427	0.569	pCi/L	J	T04, T20	No
HIS266954	HW22	06/14/23	ML-005	Th-230	0.643	0.425	0.453	pCi/L	J	F01, T04, T20	No
HIS266954	HW22	06/14/23	ML-005	Th-232	0	0.177	0.461	pCi/L	UJ	T06	No
HIS266954	HW22	06/14/23	ML-006	Ra-226	0.106	0.299	0.778	pCi/L	UJ	T06	No
HIS266954	HW22	06/14/23	ML-015	U-234	4.33	1.27	0.428	pCi/L	=		No
HIS266954	HW22	06/14/23	ML-015	U-235	0.149	0.29	0.634	pCi/L	UJ	T06	No
HIS266954	HW22	06/14/23	ML-015	U-238	3.61	1.15	0.59	pCi/L	=		No
HIS269590	HW22	08/30/23	SW846 6020	Antimony	0.29		0.29	µg/L	U		No
HIS269590	HW22	08/30/23	SW846 6020	Arsenic	1.6		1.6	µg/L	U		No
HIS269590	HW22	08/30/23	SW846 6020	Barium	160		0.69	µg/L	=		No
HIS269590	HW22	08/30/23	SW846 6020	Cadmium	0.47		0.06	µg/L	=		No
HIS269590	HW22	08/30/23	SW846 6020	Chromium	1.3		1.3	µg/L	=		No
HIS269590	HW22	08/30/23	SW846 6020	Molybdenum	2		2	µg/L	U		No
HIS269590	HW22	08/30/23	SW846 6020	Nickel	1.9		0.89	µg/L	=		No
HIS269590	HW22	08/30/23	SW846 6020	Selenium	33		0.67	µg/L	=		No
HIS269590	HW22	08/30/23	SW846 6020	Thallium	0.38		0.38	µg/L	U		No
HIS269590	HW22	08/30/23	SW846 6020	Vanadium	4		4	µg/L	U		No
HIS269590	HW22	08/30/23	ML-005	Th-228	0.29	0.327	0.585	pCi/L	UJ	T06	No
HIS269590	HW22	08/30/23	ML-005	Th-230	0.84	0.491	0.475	pCi/L	J	F01, T04, T20	No
HIS269590	HW22	08/30/23	ML-005	Th-232	0.0645	0.182	0.474	pCi/L	UJ	T06	No
HIS269590	HW22	08/30/23	ML-006	Ra-226	0.0745	0.236	0.626	pCi/L	UJ	T06	No
HIS269590	HW22	08/30/23	ML-015	U-234	3.67	1.2	0.455	pCi/L	=		No
HIS269590	HW22	08/30/23	ML-015	U-235	0	0.299	0.779	pCi/L	UJ	T06	No

Table F-3. CY 2023 Groundwater Sampling Data for the Latty Avenue Properties (Continued)

Site: Latty Avenue Properties											
Sample Name	Station Name	Collection Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Filtered
HIS269590	HW22	08/30/23	ML-015	U-238	1.84	0.828	0.545	pCi/L	=		No
HIS270134	HW22	11/08/23	SW846 6020	Antimony	0.29		0.29	µg/L	U		No
HIS270134	HW22	11/08/23	SW846 6020	Arsenic	1.6		1.6	µg/L	U		No
HIS270134	HW22	11/08/23	SW846 6020	Barium	160		0.69	µg/L	=		No
HIS270134	HW22	11/08/23	SW846 6020	Cadmium	0.32		0.06	µg/L	=		No
HIS270134	HW22	11/08/23	SW846 6020	Chromium	1.3		1.3	µg/L	=		No
HIS270134	HW22	11/08/23	SW846 6020	Molybdenum	2		2	µg/L	U		No
HIS270134	HW22	11/08/23	SW846 6020	Nickel	2.1		0.89	µg/L	=		No
HIS270134	HW22	11/08/23	SW846 6020	Selenium	37		0.67	µg/L	=		No
HIS270134	HW22	11/08/23	SW846 6020	Thallium	0.38		0.38	µg/L	U		No
HIS270134	HW22	11/08/23	SW846 6020	Vanadium	4		4	µg/L	U		No
HIS270134	HW22	11/08/23	ML-005	Th-228	0.574	0.413	0.432	pCi/L	J	F01, T04, T20	No
HIS270134	HW22	11/08/23	ML-005	Th-230	0.761	0.479	0.488	pCi/L	J	F01, T04, T20	No
HIS270134	HW22	11/08/23	ML-005	Th-232	0.118	0.194	0.359	pCi/L	UJ	T06	No
HIS270134	HW22	11/08/23	ML-006	Ra-226	0.166	0.47	1.22	pCi/L	UJ	T06	No
HIS270134	HW22	11/08/23	ML-015	U-234	2.65	0.923	0.527	pCi/L	=		No
HIS270134	HW22	11/08/23	ML-015	U-235	0.155	0.254	0.469	pCi/L	UJ	T06	No
HIS270134	HW22	11/08/23	ML-015	U-238	1.92	0.78	0.524	pCi/L	=		No
HIS266927	HW23	05/17/23	SW846 6020	Antimony	2		2	µg/L	U		No
HIS266927	HW23	05/17/23	SW846 6020	Arsenic	240		1.6	µg/L	=		No
HIS266927	HW23	05/17/23	SW846 6020	Barium	360		0.69	µg/L	=		No
HIS266927	HW23	05/17/23	SW846 6020	Cadmium	0.2		0.2	µg/L	U	E01, E08	No
HIS266927	HW23	05/17/23	SW846 6020	Chromium	4		4	µg/L	U		No
HIS266927	HW23	05/17/23	SW846 6020	Molybdenum	7		2	µg/L	=		No
HIS266927	HW23	05/17/23	SW846 6020	Nickel	2.7		2	µg/L	=		No
HIS266927	HW23	05/17/23	SW846 6020	Selenium	2		2	µg/L	U		No
HIS266927	HW23	05/17/23	SW846 6020	Thallium	0.13		0.13	µg/L	U		No
HIS266927	HW23	05/17/23	SW846 6020	Vanadium	4		4	µg/L	U		No
HIS266927	HW23	05/17/23	ML-005	Th-228	0	0	0.678	pCi/L	U		No
HIS266927	HW23	05/17/23	ML-005	Th-230	0.219	0.293	0.538	pCi/L	UJ	T06	No
HIS266927	HW23	05/17/23	ML-005	Th-232	-0.0182	0.15	0.387	pCi/L	UJ	T06	No
HIS266927	HW23	05/17/23	ML-006	Ra-226	0.679	0.566	0.877	pCi/L	UJ	T04, T05	No
HIS266927	HW23	05/17/23	ML-015	U-234	0.0586	0.161	0.415	pCi/L	UJ	T06	No
HIS266927	HW23	05/17/23	ML-015	U-235	0	0.272	0.709	pCi/L	UJ	T06	No
HIS266927	HW23	05/17/23	ML-015	U-238	0.214	0.273	0.413	pCi/L	UJ	T06	No

Table F-3. CY 2023 Groundwater Sampling Data for the Latty Avenue Properties (Continued)

Site: Latty Avenue Properties											
Sample Name	Station Name	Collection Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Filtered
HIS266927-1	HW23	05/17/23	SW846 6020	Antimony	2		2	µg/L	U		No
HIS266927-1	HW23	05/17/23	SW846 6020	Arsenic	240		1.6	µg/L	=		No
HIS266927-1	HW23	05/17/23	SW846 6020	Barium	370		0.69	µg/L	=		No
HIS266927-1	HW23	05/17/23	SW846 6020	Cadmium	0.2		0.2	µg/L	U	E01, E08	No
HIS266927-1	HW23	05/17/23	SW846 6020	Chromium	4		4	µg/L	U		No
HIS266927-1	HW23	05/17/23	SW846 6020	Molybdenum	7.1		2	µg/L	=		No
HIS266927-1	HW23	05/17/23	SW846 6020	Nickel	2.6		2	µg/L	=		No
HIS266927-1	HW23	05/17/23	SW846 6020	Selenium	2		2	µg/L	U		No
HIS266927-1	HW23	05/17/23	SW846 6020	Thallium	0.13		0.13	µg/L	U		No
HIS266927-1	HW23	05/17/23	SW846 6020	Vanadium	4		4	µg/L	U		No
HIS266927-1	HW23	05/17/23	ML-005	Th-228	0.308	0.294	0.345	pCi/L	UJ	T04, T05	No
HIS266927-1	HW23	05/17/23	ML-005	Th-230	0.78	0.476	0.478	pCi/L	J	T04, T20	No
HIS266927-1	HW23	05/17/23	ML-005	Th-232	0.195	0.26	0.477	pCi/L	UJ	T06	No
HIS266927-1	HW23	05/17/23	ML-006	Ra-226	0.358	0.42	0.752	pCi/L	UJ	T06	No
HIS266927-1	HW23	05/17/23	ML-015	U-234	0.578	0.46	0.575	pCi/L	J	T04, T20	No
HIS266927-1	HW23	05/17/23	ML-015	U-235	0.295	0.394	0.724	pCi/L	UJ	T06	No
HIS266927-1	HW23	05/17/23	ML-015	U-238	0.238	0.328	0.628	pCi/L	UJ	T06	No
HIS266927-2	HW23	05/17/23	SW846 9320 MODL	Ra-228	0.44	0.44	0.706	pCi/L	U		No
HIS266927-2	HW23	05/17/23	EML A-01-R MOD	Th-228	0.00947	0.269	0.554	pCi/L	UJ	T06	No
HIS266927-2	HW23	05/17/23	EML A-01-R MOD	Th-230	0.339	0.378	0.473	pCi/L	UJ	T06	No
HIS266927-2	HW23	05/17/23	EML A-01-R MOD	Th-232	0.0877	0.151	0.252	pCi/L	UJ	T06	No
HIS266927-2	HW23	05/17/23	EML A-01-R MOD	U-234	0.0865	0.165	0.314	pCi/L	UJ	T06	No
HIS266927-2	HW23	05/17/23	EML A-01-R MOD	U-235	-0.0108	0.0215	0.261	pCi/L	UJ	T06	No
HIS266927-2	HW23	05/17/23	EML A-01-R MOD	U-238	0.0288	0.0953	0.239	pCi/L	UJ	T06	No
HIS266927-2	HW23	05/17/23	SW846 9315 MODL	Ra-226	0.533	0.285	0.363	pCi/L	J	T04, T20	No
HIS266927-2	HW23	05/17/23	SW846 6020	Antimony	0.4		0.4	µg/L	U		No
HIS266927-2	HW23	05/17/23	SW846 6020	Arsenic	220		0.5	µg/L	=		No
HIS266927-2	HW23	05/17/23	SW846 6020	Barium	390		0.38	µg/L	J	E01	No
HIS266927-2	HW23	05/17/23	SW846 6020	Cadmium	0.19		0.19	µg/L	U		No
HIS266927-2	HW23	05/17/23	SW846 6020	Chromium	0.5		0.5	µg/L	U		No
HIS266927-2	HW23	05/17/23	SW846 6020	Molybdenum	7.7		0.37	µg/L	=		No
HIS266927-2	HW23	05/17/23	SW846 6020	Nickel	1.9		0.83	µg/L	=		No
HIS266927-2	HW23	05/17/23	SW846 6020	Selenium	1		1	µg/L	U		No
HIS266927-2	HW23	05/17/23	SW846 6020	Thallium	0.21		0.21	µg/L	U		No
HIS266927-2	HW23	05/17/23	SW846 6020	Vanadium	1.1		1.1	µg/L	U		No

Table F-3. CY 2023 Groundwater Sampling Data for the Latty Avenue Properties (Continued)

Site: Latty Avenue Properties											
Sample Name	Station Name	Collection Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Filtered
HIS266955	HW23	06/14/23	SW846 6020	Antimony	2		2	µg/L	U		No
HIS266955	HW23	06/14/23	SW846 6020	Arsenic	150		1.6	µg/L	=		No
HIS266955	HW23	06/14/23	SW846 6020	Barium	330		0.69	µg/L	=		No
HIS266955	HW23	06/14/23	SW846 6020	Cadmium	0.77		0.2	µg/L	J	E01, E08	No
HIS266955	HW23	06/14/23	SW846 6020	Chromium	4		4	µg/L	U		No
HIS266955	HW23	06/14/23	SW846 6020	Molybdenum	7.2		2	µg/L	=		No
HIS266955	HW23	06/14/23	SW846 6020	Nickel	2.2		2	µg/L	=		No
HIS266955	HW23	06/14/23	SW846 6020	Selenium	2		2	µg/L	U		No
HIS266955	HW23	06/14/23	SW846 6020	Thallium	0.13		0.13	µg/L	U		No
HIS266955	HW23	06/14/23	SW846 6020	Vanadium	4		4	µg/L	U		No
HIS266955	HW23	06/14/23	ML-005	Th-228	0.361	0.358	0.595	pCi/L	UJ	T04, T05	No
HIS266955	HW23	06/14/23	ML-005	Th-230	0.607	0.424	0.473	pCi/L	J	F01, T04, T20	No
HIS266955	HW23	06/14/23	ML-005	Th-232	0.131	0.227	0.482	pCi/L	UJ	T06	No
HIS266955	HW23	06/14/23	ML-006	Ra-226	0.765	0.587	0.687	pCi/L	J	T04, T20	No
HIS266955	HW23	06/14/23	ML-015	U-234	0.0586	0.161	0.415	pCi/L	UJ	T06	No
HIS266955	HW23	06/14/23	ML-015	U-235	-0.0482	0.205	0.616	pCi/L	UJ	T06	No
HIS266955	HW23	06/14/23	ML-015	U-238	-0.0195	0.161	0.413	pCi/L	UJ	T06	No
HIS269591	HW23	08/30/23	SW846 6020	Antimony	0.29		0.29	µg/L	U		No
HIS269591	HW23	08/30/23	SW846 6020	Arsenic	160		1.6	µg/L	=		No
HIS269591	HW23	08/30/23	SW846 6020	Barium	320		0.69	µg/L	=		No
HIS269591	HW23	08/30/23	SW846 6020	Cadmium	0.36		0.06	µg/L	=		No
HIS269591	HW23	08/30/23	SW846 6020	Chromium	1.3		1.3	µg/L	U		No
HIS269591	HW23	08/30/23	SW846 6020	Molybdenum	6.4		2	µg/L	=		No
HIS269591	HW23	08/30/23	SW846 6020	Nickel	2.4		0.89	µg/L	=		No
HIS269591	HW23	08/30/23	SW846 6020	Selenium	0.67		0.67	µg/L	U		No
HIS269591	HW23	08/30/23	SW846 6020	Thallium	0.38		0.38	µg/L	U		No
HIS269591	HW23	08/30/23	SW846 6020	Vanadium	4		4	µg/L	U		No
HIS270135	HW23	11/09/23	SW846 6020	Antimony	0.29		0.29	µg/L	U		No
HIS270135	HW23	11/09/23	SW846 6020	Arsenic	250		1.6	µg/L	=		No
HIS270135	HW23	11/09/23	SW846 6020	Barium	360		0.69	µg/L	=		No
HIS270135	HW23	11/09/23	SW846 6020	Cadmium	0.06		0.06	µg/L	U		No
HIS270135	HW23	11/09/23	SW846 6020	Chromium	1.3		1.3	µg/L	U		No
HIS270135	HW23	11/09/23	SW846 6020	Molybdenum	7.8		2	µg/L	=		No
HIS270135	HW23	11/09/23	SW846 6020	Nickel	4.8		0.89	µg/L	=		No
HIS270135	HW23	11/09/23	SW846 6020	Selenium	0.67		0.67	µg/L	U		No

Table F-3. CY 2023 Groundwater Sampling Data for the Latty Avenue Properties (Continued)

Site: Latty Avenue Properties											
Sample Name	**Station Name**	**Collection Date**	**Method**	**Analyte**	**Result**	**Measurement Error**	**DL**	**Units**	**VQ**	**Validation Reason Code**	**Filtered**
HIS270135	HW23	11/09/23	SW846 6020	Thallium	0.38		0.38	µg/L	U		No
HIS270135	HW23	11/09/23	SW846 6020	Vanadium	4		4	µg/L	U		No
HIS270135	HW23	11/09/23	ML-005	Th-228	0.204	0.281	0.538	pCi/L	UJ	T06	No
HIS270135	HW23	11/09/23	ML-005	Th-230	0.681	0.458	0.501	pCi/L	J	F01, T04, T20	No
HIS270135	HW23	11/09/23	ML-005	Th-232	0.119	0.196	0.361	pCi/L	UJ	T06	No
HIS270135	HW23	11/09/23	ML-006	Ra-226	0.695	0.781	1.4	pCi/L	UJ	T06	No
HIS270135	HW23	11/09/23	ML-015	U-234	0.144	0.237	0.438	pCi/L	UJ	T06	No
HIS270135	HW23	11/09/23	ML-015	U-235	0.0763	0.21	0.54	pCi/L	UJ	T06	No
HIS270135	HW23	11/09/23	ML-015	U-238	-0.0205	0.169	0.436	pCi/L	UJ	T06	No

VQs:

= - Indicates that the data met all QA/QC requirements, and that the parameter has been positively identified and the associated concentration value is accurate.

J - Indicates that the parameter was positively identified; the associated numerical value is the approximate concentration of the parameter in the sample.

U - Indicates that the data met all QA/QC requirements, and that the parameter was analyzed for but was not detected above the reported sample quantitation limit.

UJ - Indicates that the parameter was not detected above the reported sample quantitation limit and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample. However, the reported quantitation limit is approximate.

Validation Reason Codes:

E01 - ICP and Furnace Requirements: Interference check sample recovery was outside the control limit.

E08 - ICP and Furnace Requirements: Professional judgement was used to qualify the data.

F01 - Blanks: Sample data were qualified as a result of the method blank.

T04 - Radionuclide Quantitation: Professional judgment was used to qualify the data.

T05 - Radionuclide Quantitation: Analytical result is less than the associated MDA, but greater than the counting uncertainty.

T06 - Radionuclide Quantitation: Analytical result is less than both the associated counting uncertainty and MDA.

T20 - Radionuclide Quantitation: Analytical result is greater than the associated MDA, with uncertainly 50 to 100 percent of the result.

Table F-4. CY 2023 Groundwater Sampling Data for the SLAPS and SLAPS VPs

Site: SLAPS and SLAPS VPs											
Sample Name	**Station Name**	**Collection Date**	**Method**	**Analyte**	**Result**	**Measurement Error**	**DL**	**Units**	**VQ**	**Validation Reason Code**	**Filtered**
SVP266921	B53W01D	05/15/23	ML-005	Th-228	0.372	0.355	0.416	pCi/L	UJ	T04, T05	No
SVP266921	B53W01D	05/15/23	ML-005	Th-230	1.53	0.725	0.501	pCi/L	=		No
SVP266921	B53W01D	05/15/23	ML-005	Th-232	0.0391	0.166	0.5	pCi/L	UJ	T06	No
SVP266921	B53W01D	05/15/23	ML-006	Ra-226	0.684	0.494	0.639	pCi/L	J	T04, T20	No
SVP266921	B53W01D	05/15/23	ML-015	U-234	0.0807	0.229	0.594	pCi/L	UJ	T06	No
SVP266921	B53W01D	05/15/23	ML-015	U-235	0	0.282	0.733	pCi/L	UJ	T06	No
SVP266921	B53W01D	05/15/23	ML-015	U-238	0	0.227	0.592	pCi/L	UJ	T06	No
SVP266956	B53W01D	06/26/23	SW846 6020	Antimony	2		2	µg/L	U		No
SVP266956	B53W01D	06/26/23	SW846 6020	Arsenic	85		1.6	µg/L	=		No
SVP266956	B53W01D	06/26/23	SW846 6020	Barium	380		0.69	µg/L	=		No
SVP266956	B53W01D	06/26/23	SW846 6020	Cadmium	0.5		0.2	µg/L	J	E01, E08	No
SVP266956	B53W01D	06/26/23	SW846 6020	Chromium	4		4	µg/L	U		No
SVP266956	B53W01D	06/26/23	SW846 6020	Molybdenum	2		2	µg/L	U		No
SVP266956	B53W01D	06/26/23	SW846 6020	Nickel	2		2	µg/L	U		No
SVP266956	B53W01D	06/26/23	SW846 6020	Selenium	2		2	µg/L	U		No
SVP266956	B53W01D	06/26/23	SW846 6020	Thallium	0.13		0.13	µg/L	U		No
SVP266956	B53W01D	06/26/23	SW846 6020	Vanadium	4		4	µg/L	U		No
SVP266956	B53W01D	06/26/23	ML-005	Th-228	0.43	0.342	0.473	pCi/L	UJ	T04, T05	No
SVP266956	B53W01D	06/26/23	ML-005	Th-230	1	0.495	0.409	pCi/L	J	F01	No
SVP266956	B53W01D	06/26/23	ML-005	Th-232	-0.0278	0.118	0.354	pCi/L	UJ	T06	No
SVP266956	B53W01D	06/26/23	ML-006	Ra-226	0.806	0.509	0.539	pCi/L	J	T04, T20	No
SVP266956	B53W01D	06/26/23	ML-015	U-234	0.325	0.35	0.551	pCi/L	UJ	T06	No
SVP266956	B53W01D	06/26/23	ML-015	U-235	0	0.267	0.694	pCi/L	UJ	T06	No
SVP266956	B53W01D	06/26/23	ML-015	U-238	0.266	0.31	0.486	pCi/L	UJ	T06	No
SVP270114	B53W01D	11/13/23	SW846 6020	Antimony	0.29		0.29	µg/L	U		No
SVP270114	B53W01D	11/13/23	SW846 6020	Arsenic	88		1.6	µg/L	=		No
SVP270114	B53W01D	11/13/23	SW846 6020	Barium	370		0.69	µg/L	=		No
SVP270114	B53W01D	11/13/23	SW846 6020	Cadmium	0.43		0.06	µg/L	=		No
SVP270114	B53W01D	11/13/23	SW846 6020	Chromium	1.3		1.3	µg/L	U		No

Table F-4. CY 2023 Groundwater Sampling Data for the SLAPS and SLAPS VPs (Continued)

Site: SLAPS and SLAPS VPs											
Sample Name	**Station Name**	**Collection Date**	**Method**	**Analyte**	**Result**	**Measurement Error**	**DL**	**Units**	**VQ**	**Validation Reason Code**	**Filtered**
SVP270114	B53W01D	11/13/23	SW846 6020	Molybdenum	2		2	µg/L	U		No
SVP270114	B53W01D	11/13/23	SW846 6020	Nickel	1.6		0.89	µg/L	=		No
SVP270114	B53W01D	11/13/23	SW846 6020	Selenium	0.67		0.67	µg/L	U		No
SVP270114	B53W01D	11/13/23	SW846 6020	Thallium	0.38		0.38	µg/L	U		No
SVP270114	B53W01D	11/13/23	SW846 6020	Vanadium	4		4	µg/L	U		No
SVP270114	B53W01D	11/13/23	ML-005	Th-228	0.655	0.422	0.471	pCi/L	J	T04, T20	No
SVP270114	B53W01D	11/13/23	ML-005	Th-230	0.626	0.403	0.381	pCi/L	J	T04, T20	No
SVP270114	B53W01D	11/13/23	ML-005	Th-232	0.0595	0.168	0.438	pCi/L	UJ	T06	No
SVP270114	B53W01D	11/13/23	ML-006	Ra-226	0.9	0.709	0.708	pCi/L	J	T04, T20	No
SVP270114	B53W01D	11/13/23	ML-015	U-234	0.0967	0.188	0.412	pCi/L	UJ	T06	No
SVP270114	B53W01D	11/13/23	ML-015	U-235	0.0597	0.164	0.422	pCi/L	UJ	T06	No
SVP270114	B53W01D	11/13/23	ML-015	U-238	0	0	0.174	pCi/L	U		No
SVP266922	B53W01S	05/15/23	SW846 6020	Antimony	2		2	µg/L	U		No
SVP266922	B53W01S	05/15/23	SW846 6020	Arsenic	1.6		1.6	µg/L	U		No
SVP266922	B53W01S	05/15/23	SW846 6020	Barium	130		0.69	µg/L	=		No
SVP266922	B53W01S	05/15/23	SW846 6020	Cadmium	0.2		0.2	µg/L	U	E01, E08	No
SVP266922	B53W01S	05/15/23	SW846 6020	Chromium	8.2		4	µg/L	=		No
SVP266922	B53W01S	05/15/23	SW846 6020	Molybdenum	2		2	µg/L	U		No
SVP266922	B53W01S	05/15/23	SW846 6020	Nickel	3.1		2	µg/L	=		No
SVP266922	B53W01S	05/15/23	SW846 6020	Selenium	2		2	µg/L	U		No
SVP266922	B53W01S	05/15/23	SW846 6020	Thallium	0.13		0.13	µg/L	U		No
SVP266922	B53W01S	05/15/23	SW846 6020	Vanadium	4		4	µg/L	U		No
SVP266957	B53W01S	06/26/23	SW846 6020	Antimony	2		2	µg/L	U		No
SVP266957	B53W01S	06/26/23	SW846 6020	Arsenic	1.6		1.6	µg/L	U		No
SVP266957	B53W01S	06/26/23	SW846 6020	Barium	130		0.69	µg/L	=		No
SVP266957	B53W01S	06/26/23	SW846 6020	Cadmium	1.4		0.2	µg/L	J	E01, E08	No
SVP266957	B53W01S	06/26/23	SW846 6020	Chromium	8.7		4	µg/L	=		No
SVP266957	B53W01S	06/26/23	SW846 6020	Molybdenum	2		2	µg/L	U		No

Table F-4. CY 2023 Groundwater Sampling Data for the SLAPS and SLAPS VPs (Continued)

Site: SLAPS and SLAPS VPs											
Sample Name	**Station Name**	**Collection Date**	**Method**	**Analyte**	**Result**	**Measurement Error**	**DL**	**Units**	**VQ**	**Validation Reason Code**	**Filtered**
SVP266957	B53W01S	06/26/23	SW846 6020	Nickel	2.4		2	µg/L	=		No
SVP266957	B53W01S	06/26/23	SW846 6020	Selenium	2		2	µg/L	U		No
SVP266957	B53W01S	06/26/23	SW846 6020	Thallium	0.13		0.13	µg/L	U		No
SVP266957	B53W01S	06/26/23	SW846 6020	Vanadium	4		4	µg/L	U		No
SVP266957	B53W01S	06/26/23	ML-005	Th-228	0.281	0.303	0.477	pCi/L	UJ	T06	No
SVP266957	B53W01S	06/26/23	ML-005	Th-230	1.77	0.714	0.351	pCi/L	J	F01	No
SVP266957	B53W01S	06/26/23	ML-005	Th-232	0.0661	0.187	0.486	pCi/L	UJ	T06	No
SVP266957	B53W01S	06/26/23	ML-006	Ra-226	0.116	0.233	0.523	pCi/L	UJ	T06	No
SVP266957	B53W01S	06/26/23	ML-015	U-234	1.09	0.567	0.368	pCi/L	J	T04, T20	No
SVP266957	B53W01S	06/26/23	ML-015	U-235	0.15	0.246	0.454	pCi/L	UJ	T06	No
SVP266957	B53W01S	06/26/23	ML-015	U-238	0.967	0.544	0.508	pCi/L	J	T04, T20	No
SVP270115	B53W01S	11/13/23	SW846 6020	Antimony	0.29		0.29	µg/L	U		No
SVP270115	B53W01S	11/13/23	SW846 6020	Arsenic	1.6		1.6	µg/L	U		No
SVP270115	B53W01S	11/13/23	SW846 6020	Barium	130		0.69	µg/L	=		No
SVP270115	B53W01S	11/13/23	SW846 6020	Cadmium	0.39		0.06	µg/L	=		No
SVP270115	B53W01S	11/13/23	SW846 6020	Chromium	1.6		1.3	µg/L	=		No
SVP270115	B53W01S	11/13/23	SW846 6020	Molybdenum	2		2	µg/L	U		No
SVP270115	B53W01S	11/13/23	SW846 6020	Nickel	1.5		0.89	µg/L	=		No
SVP270115	B53W01S	11/13/23	SW846 6020	Selenium	0.67		0.67	µg/L	U		No
SVP270115	B53W01S	11/13/23	SW846 6020	Thallium	0.38		0.38	µg/L	U		No
SVP270115	B53W01S	11/13/23	SW846 6020	Vanadium	4		4	µg/L	U		No
SVP270115	B53W01S	11/13/23	ML-005	Th-228	0.273	0.327	0.615	pCi/L	UJ	T06	No
SVP270115	B53W01S	11/13/23	ML-005	Th-230	0.707	0.451	0.473	pCi/L	J	T04, T20	No
SVP270115	B53W01S	11/13/23	ML-005	Th-232	-0.016	0.132	0.341	pCi/L	UJ	T06	No
SVP270115	B53W01S	11/13/23	ML-006	Ra-226	-0.0349	0.288	0.741	pCi/L	UJ	T06	No
SVP270115	B53W01S	11/13/23	ML-015	U-234	1.38	0.611	0.336	pCi/L	=		No
SVP270115	B53W01S	11/13/23	ML-015	U-235	-0.0195	0.161	0.415	pCi/L	UJ	T06	No
SVP270115	B53W01S	11/13/23	ML-015	U-238	0.663	0.426	0.403	pCi/L	J	T04, T20	No

Table F-4. CY 2023 Groundwater Sampling Data for the SLAPS and SLAPS VPs (Continued)

Site: SLAPS and SLAPS VPs											
Sample Name	**Station Name**	**Collection Date**	**Method**	**Analyte**	**Result**	**Measurement Error**	**DL**	**Units**	**VQ**	**Validation Reason Code**	**Filtered**
SVP265850	B53W06S	02/21/23	SW846 6020	Antimony	2		2	µg/L	U		No
SVP265850	B53W06S	02/21/23	SW846 6020	Arsenic	1.7		1.6	µg/L	=		No
SVP265850	B53W06S	02/21/23	SW846 6020	Barium	230		0.69	µg/L	=		No
SVP265850	B53W06S	02/21/23	SW846 6020	Cadmium	13		0.2	µg/L	J	E01, E08	No
SVP265850	B53W06S	02/21/23	SW846 6020	Chromium	4		4	µg/L	U		No
SVP265850	B53W06S	02/21/23	SW846 6020	Molybdenum	5.5		2	µg/L	=		No
SVP265850	B53W06S	02/21/23	SW846 6020	Nickel	9.4		2	µg/L	=		No
SVP265850	B53W06S	02/21/23	SW846 6020	Selenium	9.6		2	µg/L	=		No
SVP265850	B53W06S	02/21/23	SW846 6020	Thallium	0.13		0.13	µg/L	U		No
SVP265850	B53W06S	02/21/23	SW846 6020	Vanadium	6.3		4	µg/L	=		No
SVP266958	B53W06S	06/29/23	SW846 6020	Antimony	2		2	µg/L	U	A05	No
SVP266958	B53W06S	06/29/23	SW846 6020	Arsenic	1.6		1.6	µg/L	U	A05	No
SVP266958	B53W06S	06/29/23	SW846 6020	Barium	170		0.69	µg/L	=	A05	No
SVP266958	B53W06S	06/29/23	SW846 6020	Cadmium	6.4		0.2	µg/L	J	A05, E01, E08	No
SVP266958	B53W06S	06/29/23	SW846 6020	Chromium	4.4		4	µg/L	=	A05	No
SVP266958	B53W06S	06/29/23	SW846 6020	Molybdenum	4.7		2	µg/L	=	A05	No
SVP266958	B53W06S	06/29/23	SW846 6020	Nickel	7.5		2	µg/L	=	A05	No
SVP266958	B53W06S	06/29/23	SW846 6020	Selenium	6.9		2	µg/L	=	A05	No
SVP266958	B53W06S	06/29/23	SW846 6020	Thallium	0.13		0.13	µg/L	U	A05	No
SVP266958	B53W06S	06/29/23	SW846 6020	Vanadium	4		4	µg/L	U	A05	No
SVP266958	B53W06S	06/29/23	ML-005	Th-228	0.439	0.436	0.724	pCi/L	UJ	T04, T05	No
SVP266958	B53W06S	06/29/23	ML-005	Th-230	0.938	0.565	0.424	pCi/L	J	F01, T04, T20	No
SVP266958	B53W06S	06/29/23	ML-005	Th-232	0.1	0.236	0.575	pCi/L	UJ	T06	No
SVP266958	B53W06S	06/29/23	ML-006	Ra-226	0.326	0.332	0.488	pCi/L	UJ	T06	No
SVP266958	B53W06S	06/29/23	ML-015	U-234	8.06	1.73	0.525	pCi/L	=		No
SVP266958	B53W06S	06/29/23	ML-015	U-235	0.352	0.395	0.648	pCi/L	UJ	T06	No
SVP266958	B53W06S	06/29/23	ML-015	U-238	6.79	1.56	0.454	pCi/L	=		No
SVP270116	B53W06S	11/15/23	SW846 6020	Antimony	0.62		0.29	µg/L	=		No

Table F-4. CY 2023 Groundwater Sampling Data for the SLAPS and SLAPS VPs (Continued)

Site: SLAPS and SLAPS VPs											
Sample Name	**Station Name**	**Collection Date**	**Method**	**Analyte**	**Result**	**Measurement Error**	**DL**	**Units**	**VQ**	**Validation Reason Code**	**Filtered**
SVP270116	B53W06S	11/15/23	SW846 6020	Arsenic	1.6		1.6	µg/L	U		No
SVP270116	B53W06S	11/15/23	SW846 6020	Barium	100		0.69	µg/L	=		No
SVP270116	B53W06S	11/15/23	SW846 6020	Cadmium	2.3		0.06	µg/L	=		No
SVP270116	B53W06S	11/15/23	SW846 6020	Chromium	2.2		1.3	µg/L	=		No
SVP270116	B53W06S	11/15/23	SW846 6020	Molybdenum	6.7		2	µg/L	=		No
SVP270116	B53W06S	11/15/23	SW846 6020	Nickel	5.9		0.89	µg/L	=		No
SVP270116	B53W06S	11/15/23	SW846 6020	Selenium	7.4		0.67	µg/L	=		No
SVP270116	B53W06S	11/15/23	SW846 6020	Thallium	0.38		0.38	µg/L	U		No
SVP270116	B53W06S	11/15/23	SW846 6020	Vanadium	4		4	µg/L	U		No
SVP270116	B53W06S	11/15/23	ML-005	Th-228	0.259	0.302	0.473	pCi/L	UJ	T06	No
SVP270116	B53W06S	11/15/23	ML-005	Th-230	0.519	0.43	0.587	pCi/L	UJ	T04, T05	No
SVP270116	B53W06S	11/15/23	ML-005	Th-232	-0.0185	0.153	0.393	pCi/L	UJ	T06	No
SVP270116	B53W06S	11/15/23	ML-006	Ra-226	0.233	0.383	0.707	pCi/L	UJ	T06	No
SVP270116	B53W06S	11/15/23	ML-015	U-234	5.29	1.33	0.506	pCi/L	=		No
SVP270116	B53W06S	11/15/23	ML-015	U-235	0.106	0.251	0.611	pCi/L	UJ	T06	No
SVP270116	B53W06S	11/15/23	ML-015	U-238	4.43	1.19	0.363	pCi/L	=		No
SVP266959	B53W07D	06/29/23	SW846 6020	Antimony	2		2	µg/L	U		No
SVP266959	B53W07D	06/29/23	SW846 6020	Arsenic	77		1.6	µg/L	=		No
SVP266959	B53W07D	06/29/23	SW846 6020	Barium	310		0.69	µg/L	=		No
SVP266959	B53W07D	06/29/23	SW846 6020	Cadmium	0.2		0.2	µg/L	U	E01, E08	No
SVP266959	B53W07D	06/29/23	SW846 6020	Chromium	4		4	µg/L	U		No
SVP266959	B53W07D	06/29/23	SW846 6020	Molybdenum	2		2	µg/L	U		No
SVP266959	B53W07D	06/29/23	SW846 6020	Nickel	5.4		2	µg/L	=		No
SVP266959	B53W07D	06/29/23	SW846 6020	Selenium	2		2	µg/L	U		No
SVP266959	B53W07D	06/29/23	SW846 6020	Thallium	0.13		0.13	µg/L	U		No
SVP266959	B53W07D	06/29/23	SW846 6020	Vanadium	4		4	µg/L	U		No
SVP266959	B53W07D	06/29/23	ML-005	Th-228	0.345	0.298	0.398	pCi/L	UJ	T04, T05	No
SVP266959	B53W07D	06/29/23	ML-005	Th-230	0.815	0.437	0.293	pCi/L	J	F01, T04, T20	No

Table F-4. CY 2023 Groundwater Sampling Data for the SLAPS and SLAPS VPs (Continued)

Site: SLAPS and SLAPS VPs											
Sample Name	**Station Name**	**Collection Date**	**Method**	**Analyte**	**Result**	**Measurement Error**	**DL**	**Units**	**VQ**	**Validation Reason Code**	**Filtered**
SVP266959	B53W07D	06/29/23	ML-005	Th-232	0.0551	0.156	0.406	pCi/L	UJ	T06	No
SVP266959	B53W07D	06/29/23	ML-006	Ra-226	0.535	0.413	0.562	pCi/L	UJ	T04, T05	No
SVP266959	B53W07D	06/29/23	ML-015	U-234	0.185	0.262	0.473	pCi/L	UJ	T06	No
SVP266959	B53W07D	06/29/23	ML-015	U-235	-0.0228	0.188	0.485	pCi/L	UJ	T06	No
SVP266959	B53W07D	06/29/23	ML-015	U-238	0.35	0.334	0.391	pCi/L	UJ	T04, T05	No
SVP270117	B53W07D	11/14/23	SW846 6020	Antimony	0.29		0.29	µg/L	U		No
SVP270117	B53W07D	11/14/23	SW846 6020	Arsenic	72		1.6	µg/L	=		No
SVP270117	B53W07D	11/14/23	SW846 6020	Barium	300		0.69	µg/L	=		No
SVP270117	B53W07D	11/14/23	SW846 6020	Cadmium	0.06		0.06	µg/L	U		No
SVP270117	B53W07D	11/14/23	SW846 6020	Chromium	1.3		1.3	µg/L	U		No
SVP270117	B53W07D	11/14/23	SW846 6020	Molybdenum	2		2	µg/L	U		No
SVP270117	B53W07D	11/14/23	SW846 6020	Nickel	3.2		0.89	µg/L	=		No
SVP270117	B53W07D	11/14/23	SW846 6020	Selenium	0.67		0.67	µg/L	U		No
SVP270117	B53W07D	11/14/23	SW846 6020	Thallium	0.38		0.38	µg/L	U		No
SVP270117	B53W07D	11/14/23	SW846 6020	Vanadium	4		4	µg/L	U		No
SVP270117	B53W07D	11/14/23	ML-005	Th-228	0.287	0.3	0.525	pCi/L	UJ	T06	No
SVP270117	B53W07D	11/14/23	ML-005	Th-230	0.493	0.354	0.433	pCi/L	J	T04, T20	No
SVP270117	B53W07D	11/14/23	ML-005	Th-232	0.082	0.16	0.349	pCi/L	UJ	T06	No
SVP270117	B53W07D	11/14/23	ML-006	Ra-226	0.426	0.543	0.823	pCi/L	UJ	T06	No
SVP270117	B53W07D	11/14/23	ML-015	U-234	-0.0163	0.134	0.346	pCi/L	UJ	T06	No
SVP270117	B53W07D	11/14/23	ML-015	U-235	0.0803	0.227	0.591	pCi/L	UJ	T06	No
SVP270117	B53W07D	11/14/23	ML-015	U-238	-0.0324	0.138	0.414	pCi/L	UJ	T06	No
SVP266960	B53W07S	07/06/23	SW846 6020	Antimony	2		2	µg/L	U		No
SVP266960	B53W07S	07/06/23	SW846 6020	Arsenic	1.6		1.6	µg/L	U		No
SVP266960	B53W07S	07/06/23	SW846 6020	Barium	240		0.69	µg/L	=		No
SVP266960	B53W07S	07/06/23	SW846 6020	Cadmium	0.29		0.2	µg/L	J	E01, E08	No
SVP266960	B53W07S	07/06/23	SW846 6020	Chromium	4		4	µg/L	U		No
SVP266960	B53W07S	07/06/23	SW846 6020	Molybdenum	2		2	µg/L	U		No

Table F-4. CY 2023 Groundwater Sampling Data for the SLAPS and SLAPS VPs (Continued)

Site: SLAPS and SLAPS VPs											
Sample Name	**Station Name**	**Collection Date**	**Method**	**Analyte**	**Result**	**Measurement Error**	**DL**	**Units**	**VQ**	**Validation Reason Code**	**Filtered**
SVP266960	B53W07S	07/06/23	SW846 6020	Nickel	7.4		2	µg/L	=		No
SVP266960	B53W07S	07/06/23	SW846 6020	Selenium	2		2	µg/L	U		No
SVP266960	B53W07S	07/06/23	SW846 6020	Thallium	0.13		0.13	µg/L	U		No
SVP266960	B53W07S	07/06/23	SW846 6020	Vanadium	4		4	µg/L	U		No
SVP266960	B53W07S	07/06/23	ML-005	Th-228	0.255	0.326	0.492	pCi/L	UJ	T06	No
SVP266960	B53W07S	07/06/23	ML-005	Th-230	0.743	0.564	0.683	pCi/L	J	F01, T04, T20	No
SVP266960	B53W07S	07/06/23	ML-005	Th-232	0.0927	0.262	0.682	pCi/L	UJ	T06	No
SVP266960	B53W07S	07/06/23	ML-006	Ra-226	0.148	0.214	0.4	pCi/L	UJ	T06	No
SVP266960	B53W07S	07/06/23	ML-015	U-234	3.14	1	0.451	pCi/L	=		No
SVP266960	B53W07S	07/06/23	ML-015	U-235	0	0.246	0.641	pCi/L	UJ	T06	No
SVP266960	B53W07S	07/06/23	ML-015	U-238	3.36	1.03	0.373	pCi/L	=		No
SVP270118	B53W07S	11/14/23	SW846 6020	Antimony	0.29		0.29	µg/L	U		No
SVP270118	B53W07S	11/14/23	SW846 6020	Arsenic	1.6		1.6	µg/L	U		No
SVP270118	B53W07S	11/14/23	SW846 6020	Barium	220		0.69	µg/L	=		No
SVP270118	B53W07S	11/14/23	SW846 6020	Cadmium	0.21		0.06	µg/L	=		No
SVP270118	B53W07S	11/14/23	SW846 6020	Chromium	1.3		1.3	µg/L	U		No
SVP270118	B53W07S	11/14/23	SW846 6020	Molybdenum	2		2	µg/L	U		No
SVP270118	B53W07S	11/14/23	SW846 6020	Nickel	4.9		0.89	µg/L	=		No
SVP270118	B53W07S	11/14/23	SW846 6020	Selenium	1.5		0.67	µg/L	=		No
SVP270118	B53W07S	11/14/23	SW846 6020	Thallium	0.38		0.38	µg/L	U		No
SVP270118	B53W07S	11/14/23	SW846 6020	Vanadium	4		4	µg/L	U		No
SVP270118	B53W07S	11/14/23	ML-005	Th-228	0.259	0.275	0.464	pCi/L	UJ	T06	No
SVP270118	B53W07S	11/14/23	ML-005	Th-230	0.327	0.29	0.401	pCi/L	UJ	T04, T05	No
SVP270118	B53W07S	11/14/23	ML-005	Th-232	0.0952	0.157	0.289	pCi/L	UJ	T06	No
SVP270118	B53W07S	11/14/23	ML-006	Ra-226	0.107	0.293	0.755	pCi/L	UJ	T06	No
SVP270118	B53W07S	11/14/23	ML-015	U-234	4.34	1.17	0.492	pCi/L	=		No
SVP270118	B53W07S	11/14/23	ML-015	U-235	0.227	0.289	0.438	pCi/L	UJ	T06	No
SVP270118	B53W07S	11/14/23	ML-015	U-238	2.79	0.916	0.49	pCi/L	=		No
SVP266961	B53W09S	06/28/23	SW846 6020	Antimony	2		2	µg/L	U		No

Table F-4. CY 2023 Groundwater Sampling Data for the SLAPS and SLAPS VPs (Continued)

Site: SLAPS and SLAPS VPs											
Sample Name	**Station Name**	**Collection Date**	**Method**	**Analyte**	**Result**	**Measurement Error**	**DL**	**Units**	**VQ**	**Validation Reason Code**	**Filtered**
SVP266961	B53W09S	06/28/23	SW846 6020	Arsenic	1.6		1.6	µg/L	U		No
SVP266961	B53W09S	06/28/23	SW846 6020	Barium	270		0.69	µg/L	=		No
SVP266961	B53W09S	06/28/23	SW846 6020	Cadmium	0.2		0.2	µg/L	U	E01, E08	No
SVP266961	B53W09S	06/28/23	SW846 6020	Chromium	4		4	µg/L	U		No
SVP266961	B53W09S	06/28/23	SW846 6020	Molybdenum	2		2	µg/L	U		No
SVP266961	B53W09S	06/28/23	SW846 6020	Nickel	15		2	µg/L	=		No
SVP266961	B53W09S	06/28/23	SW846 6020	Selenium	2		2	µg/L	U		No
SVP266961	B53W09S	06/28/23	SW846 6020	Thallium	0.13		0.13	µg/L	U		No
SVP266961	B53W09S	06/28/23	SW846 6020	Vanadium	4		4	µg/L	U		No
SVP266961	B53W09S	06/28/23	ML-005	Th-228	0.315	0.317	0.499	pCi/L	UJ	T06	No
SVP266961	B53W09S	06/28/23	ML-005	Th-230	1.12	0.549	0.335	pCi/L	J	F01	No
SVP266961	B53W09S	06/28/23	ML-005	Th-232	0.063	0.178	0.464	pCi/L	UJ	T06	No
SVP266961	B53W09S	06/28/23	ML-006	Ra-226	0.314	0.362	0.675	pCi/L	UJ	T06	No
SVP266961	B53W09S	06/28/23	ML-015	U-234	0.937	0.572	0.575	pCi/L	J	T04, T20	No
SVP266961	B53W09S	06/28/23	ML-015	U-235	0.193	0.334	0.709	pCi/L	UJ	T06	No
SVP266961	B53W09S	06/28/23	ML-015	U-238	1.01	0.592	0.572	pCi/L	J	T04, T20	No
SVP270119	B53W09S	11/16/23	SW846 6020	Antimony	0.29		0.29	µg/L	U		No
SVP270119	B53W09S	11/16/23	SW846 6020	Arsenic	1.6		1.6	µg/L	U		No
SVP270119	B53W09S	11/16/23	SW846 6020	Barium	300		0.69	µg/L	=		No
SVP270119	B53W09S	11/16/23	SW846 6020	Cadmium	0.35		0.06	µg/L	=		No
SVP270119	B53W09S	11/16/23	SW846 6020	Chromium	1.3		1.3	µg/L	=		No
SVP270119	B53W09S	11/16/23	SW846 6020	Molybdenum	2.5		2	µg/L	=		No
SVP270119	B53W09S	11/16/23	SW846 6020	Nickel	13		0.89	µg/L	=		No
SVP270119	B53W09S	11/16/23	SW846 6020	Selenium	0.67		0.67	µg/L	U		No
SVP270119	B53W09S	11/16/23	SW846 6020	Thallium	0.38		0.38	µg/L	U		No
SVP270119	B53W09S	11/16/23	SW846 6020	Vanadium	4		4	µg/L	U		No
SVP270119	B53W09S	11/16/23	ML-005	Th-228	0.193	0.334	0.752	pCi/L	UJ	T06	No
SVP270119	B53W09S	11/16/23	ML-005	Th-230	0.563	0.392	0.341	pCi/L	J	T04, T20	No
SVP270119	B53W09S	11/16/23	ML-005	Th-232	0	0.182	0.472	pCi/L	UJ	T06	No

Table F-4. CY 2023 Groundwater Sampling Data for the SLAPS and SLAPS VPs (Continued)

Site: SLAPS and SLAPS VPs											
Sample Name	**Station Name**	**Collection Date**	**Method**	**Analyte**	**Result**	**Measurement Error**	**DL**	**Units**	**VQ**	**Validation Reason Code**	**Filtered**
SVP270119	B53W09S	11/16/23	ML-006	Ra-226	0.104	0.285	0.734	pCi/L	UJ	T06	No
SVP270119	B53W09S	11/16/23	ML-015	U-234	1.25	0.567	0.32	pCi/L	=		No
SVP270119	B53W09S	11/16/23	ML-015	U-235	-0.0186	0.154	0.395	pCi/L	UJ	T06	No
SVP270119	B53W09S	11/16/23	ML-015	U-238	1.01	0.506	0.319	pCi/L	J	T04, T20	No
SVP266924	B53W17S	05/16/23	SW846 6020	Antimony	2		2	µg/L	U		No
SVP266924	B53W17S	05/16/23	SW846 6020	Arsenic	2.6		1.6	µg/L	=		No
SVP266924	B53W17S	05/16/23	SW846 6020	Barium	310		0.69	µg/L	=		No
SVP266924	B53W17S	05/16/23	SW846 6020	Cadmium	0.32		0.2	µg/L	J	E01, E08	No
SVP266924	B53W17S	05/16/23	SW846 6020	Chromium	4		4	µg/L	U		No
SVP266924	B53W17S	05/16/23	SW846 6020	Molybdenum	2		2	µg/L	U		No
SVP266924	B53W17S	05/16/23	SW846 6020	Nickel	2.8		2	µg/L	=		No
SVP266924	B53W17S	05/16/23	SW846 6020	Selenium	130		2	µg/L	=		No
SVP266924	B53W17S	05/16/23	SW846 6020	Thallium	0.13		0.13	µg/L	U		No
SVP266924	B53W17S	05/16/23	SW846 6020	Vanadium	5.2		4	µg/L	=		No
SVP266962	B53W17S	06/28/23	SW846 6020	Antimony	2		2	µg/L	U		No
SVP266962	B53W17S	06/28/23	SW846 6020	Arsenic	1.6		1.6	µg/L	U		No
SVP266962	B53W17S	06/28/23	SW846 6020	Barium	320		0.69	µg/L	=		No
SVP266962	B53W17S	06/28/23	SW846 6020	Cadmium	0.25		0.2	µg/L	J	E01, E08	No
SVP266962	B53W17S	06/28/23	SW846 6020	Chromium	4		4	µg/L	U		No
SVP266962	B53W17S	06/28/23	SW846 6020	Molybdenum	2		2	µg/L	U		No
SVP266962	B53W17S	06/28/23	SW846 6020	Nickel	2.7		2	µg/L	=		No
SVP266962	B53W17S	06/28/23	SW846 6020	Selenium	140		2	µg/L	=		No
SVP266962	B53W17S	06/28/23	SW846 6020	Thallium	0.13		0.13	µg/L	U		No
SVP266962	B53W17S	06/28/23	SW846 6020	Vanadium	4		4	µg/L	U		No
SVP266962	B53W17S	06/28/23	ML-005	Th-228	1.19	0.611	0.664	pCi/L	J	T04, T20	No
SVP266962	B53W17S	06/28/23	ML-005	Th-230	1.83	0.727	0.351	pCi/L	J	F01	No
SVP266962	B53W17S	06/28/23	ML-005	Th-232	0.264	0.296	0.486	pCi/L	UJ	T06	No
SVP266962	B53W17S	06/28/23	ML-006	Ra-226	0.0868	0.388	1.17	pCi/L	UJ	T06	No
SVP266962	B53W17S	06/28/23	ML-015	U-234	2.64	1.15	0.81	pCi/L	=		No

Table F-4. CY 2023 Groundwater Sampling Data for the SLAPS and SLAPS VPs (Continued)

Site: SLAPS and SLAPS VPs											
Sample Name	**Station Name**	**Collection Date**	**Method**	**Analyte**	**Result**	**Measurement Error**	**DL**	**Units**	**VQ**	**Validation Reason Code**	**Filtered**
SVP266962	B53W17S	06/28/23	ML-015	U-235	0	0.384	0.999	pCi/L	UJ	T06	No
SVP266962	B53W17S	06/28/23	ML-015	U-238	1.94	0.96	0.582	pCi/L	=		No
SVP269587	B53W17S	08/31/23	SW846 6020	Antimony	0.29		0.29	µg/L	U		No
SVP269587	B53W17S	08/31/23	SW846 6020	Arsenic	1.6		1.6	µg/L	U		No
SVP269587	B53W17S	08/31/23	SW846 6020	Barium	290		0.69	µg/L	=		No
SVP269587	B53W17S	08/31/23	SW846 6020	Cadmium	0.31		0.06	µg/L	=		No
SVP269587	B53W17S	08/31/23	SW846 6020	Chromium	2.1		1.3	µg/L	=		No
SVP269587	B53W17S	08/31/23	SW846 6020	Molybdenum	2		2	µg/L	U		No
SVP269587	B53W17S	08/31/23	SW846 6020	Nickel	2.6		0.89	µg/L	=		No
SVP269587	B53W17S	08/31/23	SW846 6020	Selenium	130		0.67	µg/L	=		No
SVP269587	B53W17S	08/31/23	SW846 6020	Thallium	0.38		0.38	µg/L	U		No
SVP269587	B53W17S	08/31/23	SW846 6020	Vanadium	4		4	µg/L	U		No
SVP270120	B53W17S	11/28/23	SW846 6020	Antimony	0.52		0.29	µg/L	=		No
SVP270120	B53W17S	11/28/23	SW846 6020	Arsenic	1.6		1.6	µg/L	U		No
SVP270120	B53W17S	11/28/23	SW846 6020	Barium	360		0.69	µg/L	=		No
SVP270120	B53W17S	11/28/23	SW846 6020	Cadmium	0.31		0.06	µg/L	=		No
SVP270120	B53W17S	11/28/23	SW846 6020	Chromium	1.3		1.3	µg/L	U		No
SVP270120	B53W17S	11/28/23	SW846 6020	Molybdenum	2		2	µg/L	U		No
SVP270120	B53W17S	11/28/23	SW846 6020	Nickel	2.8		0.89	µg/L	=		No
SVP270120	B53W17S	11/28/23	SW846 6020	Selenium	150		0.67	µg/L	=		No
SVP270120	B53W17S	11/28/23	SW846 6020	Thallium	0.38		0.38	µg/L	U		No
SVP270120	B53W17S	11/28/23	SW846 6020	Vanadium	4		4	µg/L	U		No
SVP270120	B53W17S	11/28/23	ML-005	Th-228	0.827	0.521	0.53	pCi/L	J	T04, T20	No
SVP270120	B53W17S	11/28/23	ML-005	Th-230	1.23	0.623	0.391	pCi/L	J	T04, T20	No
SVP270120	B53W17S	11/28/23	ML-005	Th-232	0.184	0.261	0.469	pCi/L	UJ	T06	No
SVP270120	B53W17S	11/28/23	ML-006	Ra-226	0.321	0.377	0.675	pCi/L	UJ	T06	No
SVP270120	B53W17S	11/28/23	ML-015	U-234	3.18	0.997	0.369	pCi/L	=		No
SVP270120	B53W17S	11/28/23	ML-015	U-235	0.236	0.301	0.455	pCi/L	UJ	T06	No
SVP270120	B53W17S	11/28/23	ML-015	U-238	2.84	0.942	0.509	pCi/L	=		No

Table F-4. CY 2023 Groundwater Sampling Data for the SLAPS and SLAPS VPs (Continued)

Site: SLAPS and SLAPS VPs											
Sample Name	**Station Name**	**Collection Date**	**Method**	**Analyte**	**Result**	**Measurement Error**	**DL**	**Units**	**VQ**	**Validation Reason Code**	**Filtered**
SVP266963	MW31-98	06/15/23	SW846 6020	Antimony	2		2	µg/L	U		No
SVP266963	MW31-98	06/15/23	SW846 6020	Arsenic	1.6		1.6	µg/L	U		No
SVP266963	MW31-98	06/15/23	SW846 6020	Barium	320		0.69	µg/L	=		No
SVP266963	MW31-98	06/15/23	SW846 6020	Cadmium	0.48		0.2	µg/L	J	E01, E08	No
SVP266963	MW31-98	06/15/23	SW846 6020	Chromium	4		4	µg/L	U		No
SVP266963	MW31-98	06/15/23	SW846 6020	Molybdenum	3.7		2	µg/L	=		No
SVP266963	MW31-98	06/15/23	SW846 6020	Nickel	2		2	µg/L	U		No
SVP266963	MW31-98	06/15/23	SW846 6020	Selenium	3.2		2	µg/L	=		No
SVP266963	MW31-98	06/15/23	SW846 6020	Thallium	0.13		0.13	µg/L	U		No
SVP266963	MW31-98	06/15/23	SW846 6020	Vanadium	4		4	µg/L	U		No
SVP266963	MW31-98	06/15/23	ML-005	Th-228	0.76	0.485	0.508	pCi/L	J	T04, T20	No
SVP266963	MW31-98	06/15/23	ML-005	Th-230	0.691	0.465	0.509	pCi/L	J	F01, T04, T20	No
SVP266963	MW31-98	06/15/23	ML-005	Th-232	0.345	0.34	0.508	pCi/L	UJ	T04, T05	No
SVP266963	MW31-98	06/15/23	ML-006	Ra-226	0.0497	0.33	0.964	pCi/L	UJ	T06	No
SVP266963	MW31-98	06/15/23	ML-015	U-234	3.47	1.13	0.43	pCi/L	=		No
SVP266963	MW31-98	06/15/23	ML-015	U-235	0.275	0.351	0.531	pCi/L	UJ	T06	No
SVP266963	MW31-98	06/15/23	ML-015	U-238	2.83	1.01	0.594	pCi/L	=		No
SVP270121	MW31-98	11/15/23	SW846 6020	Antimony	0.29		0.29	µg/L	U		No
SVP270121	MW31-98	11/15/23	SW846 6020	Arsenic	1.6		1.6	µg/L	U		No
SVP270121	MW31-98	11/15/23	SW846 6020	Barium	190		0.69	µg/L	=		No
SVP270121	MW31-98	11/15/23	SW846 6020	Cadmium	0.078		0.06	µg/L	=		No
SVP270121	MW31-98	11/15/23	SW846 6020	Chromium	1.3		1.3	µg/L	U		No
SVP270121	MW31-98	11/15/23	SW846 6020	Molybdenum	2		2	µg/L	U		No
SVP270121	MW31-98	11/15/23	SW846 6020	Nickel	0.89		0.89	µg/L	U		No
SVP270121	MW31-98	11/15/23	SW846 6020	Selenium	7.1		0.67	µg/L	=		No
SVP270121	MW31-98	11/15/23	SW846 6020	Thallium	0.38		0.38	µg/L	U		No
SVP270121	MW31-98	11/15/23	SW846 6020	Vanadium	4		4	µg/L	U		No
SVP270121	MW31-98	11/15/23	ML-005	Th-228	0.0756	0.227	0.598	pCi/L	UJ	T06	No
SVP270121	MW31-98	11/15/23	ML-005	Th-230	1.06	0.598	0.557	pCi/L	J	T04, T20	No

Table F-4. CY 2023 Groundwater Sampling Data for the SLAPS and SLAPS VPs (Continued)

Site: SLAPS and SLAPS VPs											
Sample Name	**Station Name**	**Collection Date**	**Method**	**Analyte**	**Result**	**Measurement Error**	**DL**	**Units**	**VQ**	**Validation Reason Code**	**Filtered**
SVP270121	MW31-98	11/15/23	ML-005	Th-232	-0.0567	0.165	0.545	pCi/L	UJ	T06	No
SVP270121	MW31-98	11/15/23	ML-006	Ra-226	0.674	0.661	0.992	pCi/L	UJ	T04, T05	No
SVP270121	MW31-98	11/15/23	ML-015	U-234	1.77	0.718	0.426	pCi/L	=		No
SVP270121	MW31-98	11/15/23	ML-015	U-235	0.0412	0.175	0.526	pCi/L	UJ	T06	No
SVP270121	MW31-98	11/15/23	ML-015	U-238	1.71	0.7	0.353	pCi/L	=		No
SVP266964	MW32-98	06/15/23	SW846 6020	Antimony	2		2	µg/L	U		No
SVP266964	MW32-98	06/15/23	SW846 6020	Arsenic	1.6		1.6	µg/L	U		No
SVP266964	MW32-98	06/15/23	SW846 6020	Barium	100		0.69	µg/L	=		No
SVP266964	MW32-98	06/15/23	SW846 6020	Cadmium	0.5		0.2	µg/L	J	E01, E08	No
SVP266964	MW32-98	06/15/23	SW846 6020	Chromium	4		4	µg/L	U		No
SVP266964	MW32-98	06/15/23	SW846 6020	Molybdenum	2		2	µg/L	U		No
SVP266964	MW32-98	06/15/23	SW846 6020	Nickel	2		2	µg/L	U		No
SVP266964	MW32-98	06/15/23	SW846 6020	Selenium	2		2	µg/L	U		No
SVP266964	MW32-98	06/15/23	SW846 6020	Thallium	0.13		0.13	µg/L	U		No
SVP266964	MW32-98	06/15/23	SW846 6020	Vanadium	4		4	µg/L	U		No
SVP266964	MW32-98	06/15/23	ML-005	Th-228	0.735	0.495	0.541	pCi/L	J	T04, T20	No
SVP266964	MW32-98	06/15/23	ML-005	Th-230	0.736	0.495	0.542	pCi/L	J	F01, T04, T20	No
SVP266964	MW32-98	06/15/23	ML-005	Th-232	0.22	0.295	0.541	pCi/L	UJ	T06	No
SVP266964	MW32-98	06/15/23	ML-006	Ra-226	0.203	0.38	0.853	pCi/L	UJ	T06	No
SVP266964	MW32-98	06/15/23	ML-015	U-234	0.339	0.366	0.48	pCi/L	UJ	T06	No
SVP266964	MW32-98	06/15/23	ML-015	U-235	0.195	0.321	0.592	pCi/L	UJ	T06	No
SVP266964	MW32-98	06/15/23	ML-015	U-238	0.427	0.408	0.478	pCi/L	UJ	T04, T05	No
SVP270122	MW32-98	11/02/23	SW846 6020	Antimony	0.29		0.29	µg/L	U		No
SVP270122	MW32-98	11/02/23	SW846 6020	Arsenic	1.6		1.6	µg/L	U		No
SVP270122	MW32-98	11/02/23	SW846 6020	Barium	190		0.69	µg/L	=		No
SVP270122	MW32-98	11/02/23	SW846 6020	Cadmium	2		0.06	µg/L	=		No
SVP270122	MW32-98	11/02/23	SW846 6020	Chromium	1.3		1.3	µg/L	U		No
SVP270122	MW32-98	11/02/23	SW846 6020	Molybdenum	2		2	µg/L	U		No
SVP270122	MW32-98	11/02/23	SW846 6020	Nickel	1.3		0.89	µg/L	=		No

Table F-4. CY 2023 Groundwater Sampling Data for the SLAPS and SLAPS VPs (Continued)

Site: SLAPS and SLAPS VPs											
Sample Name	**Station Name**	**Collection Date**	**Method**	**Analyte**	**Result**	**Measurement Error**	**DL**	**Units**	**VQ**	**Validation Reason Code**	**Filtered**
SVP270122	MW32-98	11/02/23	SW846 6020	Selenium	0.67		0.67	µg/L	U		No
SVP270122	MW32-98	11/02/23	SW846 6020	Thallium	0.38		0.38	µg/L	U		No
SVP270122	MW32-98	11/02/23	SW846 6020	Vanadium	4		4	µg/L	U		No
SVP270122	MW32-98	11/02/23	ML-005	Th-228	0.735	0.485	0.4	pCi/L	J	T04, T20	No
SVP270122	MW32-98	11/02/23	ML-005	Th-230	0.886	0.533	0.401	pCi/L	J	F01, T04, T20	No
SVP270122	MW32-98	11/02/23	ML-005	Th-232	0	0.213	0.554	pCi/L	UJ	T06	No
SVP270122	MW32-98	11/02/23	ML-006	Ra-226	0.381	0.441	0.896	pCi/L	UJ	T06	No
SVP270122	MW32-98	11/02/23	ML-015	U-234	2.13	1.1	0.823	pCi/L	J	T04, T20	No
SVP270122	MW32-98	11/02/23	ML-015	U-235	0.437	0.56	0.845	pCi/L	UJ	T06	No
SVP270122	MW32-98	11/02/23	ML-015	U-238	1.77	0.989	0.682	pCi/L	J	T04, T20	No
SVP266965	PW35	07/03/23	SW846 6020	Antimony	2		2	µg/L	U		No
SVP266965	PW35	07/03/23	SW846 6020	Arsenic	26		1.6	µg/L	=		No
SVP266965	PW35	07/03/23	SW846 6020	Barium	1,900		0.69	µg/L	=		No
SVP266965	PW35	07/03/23	SW846 6020	Cadmium	1.3		0.2	µg/L	J	E01, E08	No
SVP266965	PW35	07/03/23	SW846 6020	Chromium	6.2		4	µg/L	=		No
SVP266965	PW35	07/03/23	SW846 6020	Molybdenum	3.6		2	µg/L	=		No
SVP266965	PW35	07/03/23	SW846 6020	Nickel	6.5		2	µg/L	=		No
SVP266965	PW35	07/03/23	SW846 6020	Selenium	2		2	µg/L	U		No
SVP266965	PW35	07/03/23	SW846 6020	Thallium	0.13		0.13	µg/L	U		No
SVP266965	PW35	07/03/23	SW846 6020	Vanadium	7		4	µg/L	=		No
SVP266965	PW35	07/03/23	ML-005	Th-228	0.455	0.361	0.358	pCi/L	J	T04, T20	No
SVP266965	PW35	07/03/23	ML-005	Th-230	0.742	0.474	0.496	pCi/L	J	F01, T04, T20	No
SVP266965	PW35	07/03/23	ML-005	Th-232	0.118	0.194	0.357	pCi/L	UJ	T06	No
SVP266965	PW35	07/03/23	ML-006	Ra-226	2.48	0.834	0.852	pCi/L	=		No
SVP266965	PW35	07/03/23	ML-015	U-234	0	0.211	0.548	pCi/L	UJ	T06	No
SVP266965	PW35	07/03/23	ML-015	U-235	0	0.26	0.677	pCi/L	UJ	T06	No
SVP266965	PW35	07/03/23	ML-015	U-238	0.0556	0.153	0.394	pCi/L	UJ	T06	No
SVP270123	PW35	11/21/23	SW846 6020	Antimony	0.29		0.29	µg/L	U		No
SVP270123	PW35	11/21/23	SW846 6020	Arsenic	27		1.6	µg/L	=		No

Table F-4. CY 2023 Groundwater Sampling Data for the SLAPS and SLAPS VPs (Continued)

Site: SLAPS and SLAPS VPs											
Sample Name	**Station Name**	**Collection Date**	**Method**	**Analyte**	**Result**	**Measurement Error**	**DL**	**Units**	**VQ**	**Validation Reason Code**	**Filtered**
SVP270123	PW35	11/21/23	SW846 6020	Barium	600		0.69	µg/L	=		No
SVP270123	PW35	11/21/23	SW846 6020	Cadmium	1.5		0.06	µg/L	=		No
SVP270123	PW35	11/21/23	SW846 6020	Chromium	1.3		1.3	µg/L	U		No
SVP270123	PW35	11/21/23	SW846 6020	Molybdenum	2		2	µg/L	U		No
SVP270123	PW35	11/21/23	SW846 6020	Nickel	1.3		0.89	µg/L	=		No
SVP270123	PW35	11/21/23	SW846 6020	Selenium	0.67		0.67	µg/L	U		No
SVP270123	PW35	11/21/23	SW846 6020	Thallium	0.38		0.38	µg/L	U		No
SVP270123	PW35	11/21/23	SW846 6020	Vanadium	4		4	µg/L	U		No
SVP270123	PW35	11/21/23	ML-005	Th-228	0.335	0.33	0.493	pCi/L	UJ	T04, T05	No
SVP270123	PW35	11/21/23	ML-005	Th-230	0.536	0.406	0.493	pCi/L	J	T04, T20	No
SVP270123	PW35	11/21/23	ML-005	Th-232	0.117	0.193	0.355	pCi/L	UJ	T06	No
SVP270123	PW35	11/21/23	ML-006	Ra-226	1.34	0.685	0.885	pCi/L	J	T04, T20	No
SVP270123	PW35	11/21/23	ML-015	U-234	1.63	0.655	0.324	pCi/L	=		No
SVP270123	PW35	11/21/23	ML-015	U-235	-0.0188	0.155	0.4	pCi/L	UJ	T06	No
SVP270123	PW35	11/21/23	ML-015	U-238	2.04	0.738	0.388	pCi/L	=		No
SVP266966	PW36	07/03/23	SW846 6020	Antimony	2		2	µg/L	U		No
SVP266966	PW36	07/03/23	SW846 6020	Arsenic	5.5		1.6	µg/L	=		No
SVP266966	PW36	07/03/23	SW846 6020	Barium	56		0.69	µg/L	=		No
SVP266966	PW36	07/03/23	SW846 6020	Cadmium	0.93		0.2	µg/L	J	E01, E08	No
SVP266966	PW36	07/03/23	SW846 6020	Chromium	4		4	µg/L	U		No
SVP266966	PW36	07/03/23	SW846 6020	Molybdenum	2.3		2	µg/L	=		No
SVP266966	PW36	07/03/23	SW846 6020	Nickel	5.2		2	µg/L	=		No
SVP266966	PW36	07/03/23	SW846 6020	Selenium	2		2	µg/L	U		No
SVP266966	PW36	07/03/23	SW846 6020	Thallium	0.13		0.13	µg/L	U		No
SVP266966	PW36	07/03/23	SW846 6020	Vanadium	4.1		4	µg/L	=		No
SVP266966	PW36	07/03/23	ML-005	Th-228	0.533	0.474	0.654	pCi/L	UJ	T04, T05	No
SVP266966	PW36	07/03/23	ML-005	Th-230	0.801	0.571	0.655	pCi/L	J	F01, T04, T20	No
SVP266966	PW36	07/03/23	ML-005	Th-232	0.0666	0.183	0.472	pCi/L	UJ	T06	No
SVP266966	PW36	07/03/23	ML-006	Ra-226	0.383	0.338	0.47	pCi/L	UJ	T04, T05	No

Table F-4. CY 2023 Groundwater Sampling Data for the SLAPS and SLAPS VPs (Continued)

Site: SLAPS and SLAPS VPs											
Sample Name	**Station Name**	**Collection Date**	**Method**	**Analyte**	**Result**	**Measurement Error**	**DL**	**Units**	**VQ**	**Validation Reason Code**	**Filtered**
SVP266966	PW36	07/03/23	ML-015	U-234	0.139	0.241	0.512	pCi/L	UJ	T06	No
SVP266966	PW36	07/03/23	ML-015	U-235	0.0644	0.177	0.456	pCi/L	UJ	T06	No
SVP266966	PW36	07/03/23	ML-015	U-238	0.0173	0.151	0.5	pCi/L	UJ	T06	No
SVP270124	PW36	11/21/23	SW846 6020	Antimony	0.29		0.29	µg/L	U		No
SVP270124	PW36	11/21/23	SW846 6020	Arsenic	79		1.6	µg/L	=		No
SVP270124	PW36	11/21/23	SW846 6020	Barium	250		0.69	µg/L	=		No
SVP270124	PW36	11/21/23	SW846 6020	Cadmium	0.06		0.06	µg/L	U		No
SVP270124	PW36	11/21/23	SW846 6020	Chromium	1.3		1.3	µg/L	U		No
SVP270124	PW36	11/21/23	SW846 6020	Molybdenum	2.1		2	µg/L	=		No
SVP270124	PW36	11/21/23	SW846 6020	Nickel	4.4		0.89	µg/L	=		No
SVP270124	PW36	11/21/23	SW846 6020	Selenium	0.67		0.67	µg/L	U		No
SVP270124	PW36	11/21/23	SW846 6020	Thallium	0.38		0.38	µg/L	U		No
SVP270124	PW36	11/21/23	SW846 6020	Vanadium	4		4	µg/L	U		No
SVP270124	PW36	11/21/23	ML-005	Th-228	0.595	0.415	0.361	pCi/L	J	T04, T20	No
SVP270124	PW36	11/21/23	ML-005	Th-230	1.35	0.627	0.362	pCi/L	=		No
SVP270124	PW36	11/21/23	ML-005	Th-232	0.136	0.236	0.501	pCi/L	UJ	T06	No
SVP270124	PW36	11/21/23	ML-006	Ra-226	0.492	0.569	1.16	pCi/L	UJ	T06	No
SVP270124	PW36	11/21/23	ML-015	U-234	2.83	0.918	0.425	pCi/L	=		No
SVP270124	PW36	11/21/23	ML-015	U-235	0.246	0.329	0.604	pCi/L	UJ	T06	No
SVP270124	PW36	11/21/23	ML-015	U-238	2.68	0.89	0.423	pCi/L	=		No
SVP266967	PW42	06/27/23	SW846 6020	Antimony	2		2	µg/L	U		No
SVP266967	PW42	06/27/23	SW846 6020	Arsenic	21		1.6	µg/L	=		No
SVP266967	PW42	06/27/23	SW846 6020	Barium	130		0.69	µg/L	=		No
SVP266967	PW42	06/27/23	SW846 6020	Cadmium	0.65		0.2	µg/L	J	E01, E08	No
SVP266967	PW42	06/27/23	SW846 6020	Chromium	4		4	µg/L	U		No
SVP266967	PW42	06/27/23	SW846 6020	Molybdenum	2		2	µg/L	U		No
SVP266967	PW42	06/27/23	SW846 6020	Nickel	2.6		2	µg/L	=		No
SVP266967	PW42	06/27/23	SW846 6020	Selenium	2		2	µg/L	U		No
SVP266967	PW42	06/27/23	SW846 6020	Thallium	0.13		0.13	µg/L	U		No

Table F-4. CY 2023 Groundwater Sampling Data for the SLAPS and SLAPS VPs (Continued)

Site: SLAPS and SLAPS VPs											
Sample Name	**Station Name**	**Collection Date**	**Method**	**Analyte**	**Result**	**Measurement Error**	**DL**	**Units**	**VQ**	**Validation Reason Code**	**Filtered**
SVP266967	PW42	06/27/23	SW846 6020	Vanadium	4		4	µg/L	U		No
SVP266967	PW42	06/27/23	ML-005	Th-228	0.278	0.265	0.31	pCi/L	UJ	T04, T05	No
SVP266967	PW42	06/27/23	ML-005	Th-230	1.11	0.536	0.431	pCi/L	J	F01	No
SVP266967	PW42	06/27/23	ML-005	Th-232	0	0.165	0.43	pCi/L	UJ	T06	No
SVP266967	PW42	06/27/23	ML-006	Ra-226	0.18	0.314	0.697	pCi/L	UJ	T06	No
SVP266967	PW42	06/27/23	ML-015	U-234	0.147	0.255	0.54	pCi/L	UJ	T06	No
SVP266967	PW42	06/27/23	ML-015	U-235	0	0.256	0.666	pCi/L	UJ	T06	No
SVP266967	PW42	06/27/23	ML-015	U-238	0.146	0.254	0.538	pCi/L	UJ	T06	No
SVP270125	PW42	11/16/23	SW846 6020	Antimony	0.29		0.29	µg/L	U		No
SVP270125	PW42	11/16/23	SW846 6020	Arsenic	80		1.6	µg/L	=		No
SVP270125	PW42	11/16/23	SW846 6020	Barium	230		0.69	µg/L	=		No
SVP270125	PW42	11/16/23	SW846 6020	Cadmium	0.27		0.06	µg/L	=		No
SVP270125	PW42	11/16/23	SW846 6020	Chromium	1.3		1.3	µg/L	U		No
SVP270125	PW42	11/16/23	SW846 6020	Molybdenum	2		2	µg/L	U		No
SVP270125	PW42	11/16/23	SW846 6020	Nickel	1.2		0.89	µg/L	=		No
SVP270125	PW42	11/16/23	SW846 6020	Selenium	0.67		0.67	µg/L	U		No
SVP270125	PW42	11/16/23	SW846 6020	Thallium	0.38		0.38	µg/L	U		No
SVP270125	PW42	11/16/23	SW846 6020	Vanadium	4		4	µg/L	U		No
SVP270125	PW42	11/16/23	ML-005	Th-228	0.267	0.288	0.454	pCi/L	UJ	T06	No
SVP270125	PW42	11/16/23	ML-005	Th-230	0.693	0.442	0.463	pCi/L	J	T04, T20	No
SVP270125	PW42	11/16/23	ML-005	Th-232	0	0.178	0.463	pCi/L	UJ	T06	No
SVP270125	PW42	11/16/23	ML-006	Ra-226	0.0749	0.318	0.957	pCi/L	UJ	T06	No
SVP270125	PW42	11/16/23	ML-015	U-234	0.0473	0.13	0.335	pCi/L	UJ	T06	No
SVP270125	PW42	11/16/23	ML-015	U-235	0	0.22	0.573	pCi/L	UJ	T06	No
SVP270125	PW42	11/16/23	ML-015	U-238	-0.0471	0.137	0.453	pCi/L	UJ	T06	No
SVP266923	PW43	05/18/23	SW846 6020	Antimony	2		2	µg/L	U		No
SVP266923	PW43	05/18/23	SW846 6020	Arsenic	1.8		1.6	µg/L	=		No
SVP266923	PW43	05/18/23	SW846 6020	Barium	140		0.69	µg/L	=		No
SVP266923	PW43	05/18/23	SW846 6020	Cadmium	0.2		0.2	µg/L	U	E01, E08	No

Table F-4. CY 2023 Groundwater Sampling Data for the SLAPS and SLAPS VPs (Continued)

Site: SLAPS and SLAPS VPs											
Sample Name	**Station Name**	**Collection Date**	**Method**	**Analyte**	**Result**	**Measurement Error**	**DL**	**Units**	**VQ**	**Validation Reason Code**	**Filtered**
SVP266923	PW43	05/18/23	SW846 6020	Chromium	4		4	µg/L	U		No
SVP266923	PW43	05/18/23	SW846 6020	Molybdenum	2		2	µg/L	U		No
SVP266923	PW43	05/18/23	SW846 6020	Nickel	2		2	µg/L	U		No
SVP266923	PW43	05/18/23	SW846 6020	Selenium	2		2	µg/L	U		No
SVP266923	PW43	05/18/23	SW846 6020	Thallium	0.13		0.13	µg/L	U		No
SVP266923	PW43	05/18/23	SW846 6020	Vanadium	4.7		4	µg/L	=		No
SVP266923	PW43	05/18/23	ML-005	Th-228	0.769	0.485	0.558	pCi/L	J	T04, T20	No
SVP266923	PW43	05/18/23	ML-005	Th-230	2.57	0.876	0.473	pCi/L	=		No
SVP266923	PW43	05/18/23	ML-005	Th-232	-0.0327	0.139	0.418	pCi/L	UJ	T06	No
SVP266923	PW43	05/18/23	ML-006	Ra-226	0.173	0.387	0.932	pCi/L	UJ	T06	No
SVP266923	PW43	05/18/23	ML-015	U-234	1.46	0.699	0.415	pCi/L	=		No
SVP266923	PW43	05/18/23	ML-015	U-235	0.193	0.334	0.709	pCi/L	UJ	T06	No
SVP266923	PW43	05/18/23	ML-015	U-238	0.7	0.497	0.572	pCi/L	J	T04, T20	No
SVP266968	PW43	06/27/23	SW846 6020	Antimony	2		2	µg/L	U		No
SVP266968	PW43	06/27/23	SW846 6020	Arsenic	1.6		1.6	µg/L	U		No
SVP266968	PW43	06/27/23	SW846 6020	Barium	200		0.69	µg/L	=		No
SVP266968	PW43	06/27/23	SW846 6020	Cadmium	0.2		0.2	µg/L	U	E01, E08	No
SVP266968	PW43	06/27/23	SW846 6020	Chromium	4		4	µg/L	U		No
SVP266968	PW43	06/27/23	SW846 6020	Molybdenum	2		2	µg/L	U		No
SVP266968	PW43	06/27/23	SW846 6020	Nickel	2		2	µg/L	U		No
SVP266968	PW43	06/27/23	SW846 6020	Selenium	2		2	µg/L	U		No
SVP266968	PW43	06/27/23	SW846 6020	Thallium	0.13		0.13	µg/L	U		No
SVP266968	PW43	06/27/23	SW846 6020	Vanadium	4		4	µg/L	U		No
SVP266968	PW43	06/27/23	ML-005	Th-228	0.273	0.327	0.615	pCi/L	UJ	T06	No
SVP266968	PW43	06/27/23	ML-005	Th-230	0.964	0.528	0.508	pCi/L	J	F01, T04, T20	No
SVP266968	PW43	06/27/23	ML-005	Th-232	0.128	0.223	0.472	pCi/L	UJ	T06	No
SVP266968	PW43	06/27/23	ML-006	Ra-226	0.388	0.38	0.57	pCi/L	UJ	T04, T05	No
SVP266968	PW43	06/27/23	ML-015	U-234	0.641	0.486	0.59	pCi/L	J	T04, T20	No
SVP266968	PW43	06/27/23	ML-015	U-235	-0.0247	0.204	0.525	pCi/L	UJ	T06	No

Table F-4. CY 2023 Groundwater Sampling Data for the SLAPS and SLAPS VPs (Continued)

Site: SLAPS and SLAPS VPs											
Sample Name	**Station Name**	**Collection Date**	**Method**	**Analyte**	**Result**	**Measurement Error**	**DL**	**Units**	**VQ**	**Validation Reason Code**	**Filtered**
SVP266968	PW43	06/27/23	ML-015	U-238	0.479	0.425	0.587	pCi/L	UJ	T04, T05	No
SVP266968-1	PW43	06/27/23	SW846 6020	Antimony	2		2	µg/L	U		No
SVP266968-1	PW43	06/27/23	SW846 6020	Arsenic	1.6		1.6	µg/L	U		No
SVP266968-1	PW43	06/27/23	SW846 6020	Barium	210		0.69	µg/L	=		No
SVP266968-1	PW43	06/27/23	SW846 6020	Cadmium	0.2		0.2	µg/L	U	E01, E08	No
SVP266968-1	PW43	06/27/23	SW846 6020	Chromium	4		4	µg/L	U		No
SVP266968-1	PW43	06/27/23	SW846 6020	Molybdenum	2		2	µg/L	U		No
SVP266968-1	PW43	06/27/23	SW846 6020	Nickel	2		2	µg/L	U		No
SVP266968-1	PW43	06/27/23	SW846 6020	Selenium	2		2	µg/L	U		No
SVP266968-1	PW43	06/27/23	SW846 6020	Thallium	0.13		0.13	µg/L	U		No
SVP266968-1	PW43	06/27/23	SW846 6020	Vanadium	4		4	µg/L	U		No
SVP266968-1	PW43	06/27/23	ML-005	Th-228	0.189	0.251	0.491	pCi/L	UJ	T06	No
SVP266968-1	PW43	06/27/23	ML-005	Th-230	0.284	0.271	0.39	pCi/L	UJ	T04, T05	No
SVP266968-1	PW43	06/27/23	ML-005	Th-232	0.0405	0.111	0.287	pCi/L	UJ	T06	No
SVP266968-1	PW43	06/27/23	ML-006	Ra-226	-3.57E-08	0.183	0.629	pCi/L	UJ	T06	No
SVP266968-1	PW43	06/27/23	ML-015	U-234	0.578	0.46	0.455	pCi/L	J	T04, T20	No
SVP266968-1	PW43	06/27/23	ML-015	U-235	0.106	0.299	0.778	pCi/L	UJ	T06	No
SVP266968-1	PW43	06/27/23	ML-015	U-238	0.682	0.517	0.628	pCi/L	J	T04, T20	No
SVP266968-2	PW43	06/27/23	SW846 9320 MODL	Ra-228	0.577	0.431	0.64	pCi/L	UJ	T04, T05	No
SVP266968-2	PW43	06/27/23	EML A-01-R MOD	Th-228	-0.0154	0.105	0.202	pCi/L	UJ	T06	No
SVP266968-2	PW43	06/27/23	EML A-01-R MOD	Th-230	0.105	0.179	0.238	pCi/L	UJ	T06	No
SVP266968-2	PW43	06/27/23	EML A-01-R MOD	Th-232	-0.00114	0.0431	0.118	pCi/L	UJ	T06	No
SVP266968-2	PW43	06/27/23	EML A-01-R MOD	U-234	1.36	0.334	0.162	pCi/L	=		No
SVP266968-2	PW43	06/27/23	EML A-01-R MOD	U-235	0.0751	0.0874	0.12	pCi/L	UJ	T06	No
SVP266968-2	PW43	06/27/23	EML A-01-R MOD	U-238	1.02	0.28	0.0964	pCi/L	=		No
SVP266968-2	PW43	06/27/23	SW846 9315 MODL	Ra-226	0.176	0.1	0.119	pCi/L	J	T04, T20	No
SVP266968-2	PW43	06/27/23	SW846 6020	Antimony	0.4		0.4	µg/L	U		No
SVP266968-2	PW43	06/27/23	SW846 6020	Arsenic	0.78		0.5	µg/L	=		No
SVP266968-2	PW43	06/27/23	SW846 6020	Barium	220		0.38	µg/L	J	E01, E08	No

Table F-4. CY 2023 Groundwater Sampling Data for the SLAPS and SLAPS VPs (Continued)

Site: SLAPS and SLAPS VPs											
Sample Name	**Station Name**	**Collection Date**	**Method**	**Analyte**	**Result**	**Measurement Error**	**DL**	**Units**	**VQ**	**Validation Reason Code**	**Filtered**
SVP266968-2	PW43	06/27/23	SW846 6020	Cadmium	0.29		0.19	µg/L	=		No
SVP266968-2	PW43	06/27/23	SW846 6020	Chromium	0.5		0.5	µg/L	U		No
SVP266968-2	PW43	06/27/23	SW846 6020	Molybdenum	1.2		0.37	µg/L	=		No
SVP266968-2	PW43	06/27/23	SW846 6020	Nickel	1		0.83	µg/L	=		No
SVP266968-2	PW43	06/27/23	SW846 6020	Selenium	1		1	µg/L	U		No
SVP266968-2	PW43	06/27/23	SW846 6020	Thallium	0.21		0.21	µg/L	U		No
SVP266968-2	PW43	06/27/23	SW846 6020	Vanadium	1.1		1.1	µg/L	U		No
SVP269588	PW43	08/31/23	SW846 6020	Antimony	0.3		0.29	µg/L	=		No
SVP269588	PW43	08/31/23	SW846 6020	Arsenic	1.6		1.6	µg/L	U		No
SVP269588	PW43	08/31/23	SW846 6020	Barium	200		0.69	µg/L	=		No
SVP269588	PW43	08/31/23	SW846 6020	Cadmium	0.35		0.06	µg/L	=		No
SVP269588	PW43	08/31/23	SW846 6020	Chromium	1.3		1.3	µg/L	U		No
SVP269588	PW43	08/31/23	SW846 6020	Molybdenum	2		2	µg/L	U		No
SVP269588	PW43	08/31/23	SW846 6020	Nickel	2.3		0.89	µg/L	=		No
SVP269588	PW43	08/31/23	SW846 6020	Selenium	0.67		0.67	µg/L	U		No
SVP269588	PW43	08/31/23	SW846 6020	Thallium	0.38		0.38	µg/L	U		No
SVP269588	PW43	08/31/23	SW846 6020	Vanadium	4		4	µg/L	U		No
SVP270126	PW43	11/08/23	SW846 6020	Antimony	0.29		0.29	µg/L	U		No
SVP270126	PW43	11/08/23	SW846 6020	Arsenic	1.6		1.6	µg/L	U		No
SVP270126	PW43	11/08/23	SW846 6020	Barium	170		0.69	µg/L	=		No
SVP270126	PW43	11/08/23	SW846 6020	Cadmium	0.17		0.06	µg/L	=		No
SVP270126	PW43	11/08/23	SW846 6020	Chromium	1.3		1.3	µg/L	U		No
SVP270126	PW43	11/08/23	SW846 6020	Molybdenum	2		2	µg/L	U		No
SVP270126	PW43	11/08/23	SW846 6020	Nickel	3.3		0.89	µg/L	=		No
SVP270126	PW43	11/08/23	SW846 6020	Selenium	0.67		0.67	µg/L	U		No
SVP270126	PW43	11/08/23	SW846 6020	Thallium	0.38		0.38	µg/L	U		No
SVP270126	PW43	11/08/23	SW846 6020	Vanadium	4		4	µg/L	U		No
SVP270126	PW43	11/08/23	ML-005	Th-228	0.394	0.35	0.484	pCi/L	UJ	T04, T05	No
SVP270126	PW43	11/08/23	ML-005	Th-230	0.592	0.421	0.484	pCi/L	J	F01, T04, T20	No

Table F-4. CY 2023 Groundwater Sampling Data for the SLAPS and SLAPS VPs (Continued)

Site: SLAPS and SLAPS VPs											
Sample Name	**Station Name**	**Collection Date**	**Method**	**Analyte**	**Result**	**Measurement Error**	**DL**	**Units**	**VQ**	**Validation Reason Code**	**Filtered**
SVP270126	PW43	11/08/23	ML-005	Th-232	0.263	0.295	0.483	pCi/L	UJ	T06	No
SVP270126	PW43	11/08/23	ML-006	Ra-226	0.106	0.449	1.35	pCi/L	UJ	T06	No
SVP270126	PW43	11/08/23	ML-015	U-234	1.36	0.685	0.43	pCi/L	J	T04, T20	No
SVP270126	PW43	11/08/23	ML-015	U-235	0	0.283	0.735	pCi/L	UJ	T06	No
SVP270126	PW43	11/08/23	ML-015	U-238	2.04	0.854	0.582	pCi/L	=		No
SLA265847	PW44	02/16/23	SW846 6020	Antimony	2		2	µg/L	U		No
SLA265847	PW44	02/16/23	SW846 6020	Arsenic	1.6		1.6	µg/L	U		No
SLA265847	PW44	02/16/23	SW846 6020	Barium	91		0.69	µg/L	=		No
SLA265847	PW44	02/16/23	SW846 6020	Cadmium	0.72		0.2	µg/L	J	E01, E08	No
SLA265847	PW44	02/16/23	SW846 6020	Chromium	4		4	µg/L	U		No
SLA265847	PW44	02/16/23	SW846 6020	Molybdenum	2		2	µg/L	U		No
SLA265847	PW44	02/16/23	SW846 6020	Nickel	2		2	µg/L	U		No
SLA265847	PW44	02/16/23	SW846 6020	Selenium	2		2	µg/L	U		No
SLA265847	PW44	02/16/23	SW846 6020	Thallium	0.13		0.13	µg/L	U		No
SLA265847	PW44	02/16/23	SW846 6020	Vanadium	4		4	µg/L	U		No
SLA265847	PW44	02/16/23	ML-005	Th-228	0.384	0.331	0.354	pCi/L	J	F01, T04, T20	No
SLA265847	PW44	02/16/23	ML-005	Th-230	0.535	0.405	0.492	pCi/L	J	F01, T04, T20	No
SLA265847	PW44	02/16/23	ML-005	Th-232	0.183	0.234	0.354	pCi/L	UJ	T06	No
SLA265847	PW44	02/16/23	ML-006	Ra-226	0.218	0.291	0.535	pCi/L	UJ	T06	No
SLA265847	PW44	02/16/23	ML-015	U-234	0.876	0.559	0.586	pCi/L	J	T04, T20	No
SLA265847	PW44	02/16/23	ML-015	U-235	0	0.278	0.723	pCi/L	UJ	T06	No
SLA265847	PW44	02/16/23	ML-015	U-238	0.634	0.48	0.583	pCi/L	J	T04, T20	No
SLA266945	PW44	06/22/23	SW846 6020	Antimony	2		2	µg/L	U		No
SLA266945	PW44	06/22/23	SW846 6020	Arsenic	1.6		1.6	µg/L	U		No
SLA266945	PW44	06/22/23	SW846 6020	Barium	82		0.69	µg/L	=		No
SLA266945	PW44	06/22/23	SW846 6020	Cadmium	1.7		0.2	µg/L	=		No
SLA266945	PW44	06/22/23	SW846 6020	Chromium	4		4	µg/L	U		No
SLA266945	PW44	06/22/23	SW846 6020	Molybdenum	2.7		2	µg/L	=		No
SLA266945	PW44	06/22/23	SW846 6020	Nickel	3.7		2	µg/L	=		No

Table F-4. CY 2023 Groundwater Sampling Data for the SLAPS and SLAPS VPs (Continued)

Site: SLAPS and SLAPS VPs											
Sample Name	**Station Name**	**Collection Date**	**Method**	**Analyte**	**Result**	**Measurement Error**	**DL**	**Units**	**VQ**	**Validation Reason Code**	**Filtered**
SLA266945	PW44	06/22/23	SW846 6020	Selenium	2		2	µg/L	U		No
SLA266945	PW44	06/22/23	SW846 6020	Thallium	0.13		0.13	µg/L	U		No
SLA266945	PW44	06/22/23	SW846 6020	Vanadium	4		4	µg/L	U		No
SLA266945	PW44	06/22/23	ML-005	Th-228	0.952	0.442	0.495	pCi/L	=		No
SLA266945	PW44	06/22/23	ML-005	Th-230	1.91	0.601	0.312	pCi/L	J	F01	No
SLA266945	PW44	06/22/23	ML-005	Th-232	0.0845	0.158	0.355	pCi/L	UJ	T06	No
SLA266945	PW44	06/22/23	ML-006	Ra-226	0.157	0.406	1.01	pCi/L	UJ	T06	No
SLA266945	PW44	06/22/23	ML-015	U-234	0.532	0.483	0.618	pCi/L	UJ	T04, T05	No
SLA266945	PW44	06/22/23	ML-015	U-235	0.209	0.344	0.634	pCi/L	UJ	T06	No
SLA266945	PW44	06/22/23	ML-015	U-238	0.747	0.554	0.512	pCi/L	J	T04, T20	No
SLA270110	PW44	11/07/23	SW846 6020	Antimony	0.29		0.29	µg/L	U		No
SLA270110	PW44	11/07/23	SW846 6020	Arsenic	1.6		1.6	µg/L	U		No
SLA270110	PW44	11/07/23	SW846 6020	Barium	90		0.69	µg/L	=		No
SLA270110	PW44	11/07/23	SW846 6020	Cadmium	0.31		0.06	µg/L	=		No
SLA270110	PW44	11/07/23	SW846 6020	Chromium	1.3		1.3	µg/L	U		No
SLA270110	PW44	11/07/23	SW846 6020	Molybdenum	2.4		2	µg/L	=		No
SLA270110	PW44	11/07/23	SW846 6020	Nickel	1.4		0.89	µg/L	=		No
SLA270110	PW44	11/07/23	SW846 6020	Selenium	0.67		0.67	µg/L	U		No
SLA270110	PW44	11/07/23	SW846 6020	Thallium	0.38		0.38	µg/L	U		No
SLA270110	PW44	11/07/23	SW846 6020	Vanadium	4		4	µg/L	U		No
SLA270110	PW44	11/07/23	ML-005	Th-228	0.33	0.325	0.485	pCi/L	UJ	T04, T05	No
SLA270110	PW44	11/07/23	ML-005	Th-230	0.578	0.402	0.351	pCi/L	J	F01, T04, T20	No
SLA270110	PW44	11/07/23	ML-005	Th-232	0.0659	0.187	0.485	pCi/L	UJ	T06	No
SLA270110	PW44	11/07/23	ML-006	Ra-226	0.148	0.445	1.17	pCi/L	UJ	T06	No
SLA270110	PW44	11/07/23	ML-015	U-234	0.458	0.415	0.532	pCi/L	UJ	T04, T05	No
SLA270110	PW44	11/07/23	ML-015	U-235	0.0514	0.218	0.656	pCi/L	UJ	T06	No
SLA270110	PW44	11/07/23	ML-015	U-238	0.0622	0.171	0.44	pCi/L	UJ	T06	No
SLA265848	PW45	02/16/23	SW846 6020	Antimony	2		2	µg/L	U		No
SLA265848	PW45	02/16/23	SW846 6020	Arsenic	1.6		1.6	µg/L	U		No

Table F-4. CY 2023 Groundwater Sampling Data for the SLAPS and SLAPS VPs (Continued)

Site: SLAPS and SLAPS VPs											
Sample Name	**Station Name**	**Collection Date**	**Method**	**Analyte**	**Result**	**Measurement Error**	**DL**	**Units**	**VQ**	**Validation Reason Code**	**Filtered**
SLA265848	PW45	02/16/23	SW846 6020	Barium	66		0.69	µg/L	=		No
SLA265848	PW45	02/16/23	SW846 6020	Cadmium	0.43		0.2	µg/L	J	E01, E08	No
SLA265848	PW45	02/16/23	SW846 6020	Chromium	4		4	µg/L	U		No
SLA265848	PW45	02/16/23	SW846 6020	Molybdenum	84		2	µg/L	=		No
SLA265848	PW45	02/16/23	SW846 6020	Nickel	2.5		2	µg/L	=		No
SLA265848	PW45	02/16/23	SW846 6020	Selenium	28		2	µg/L	=		No
SLA265848	PW45	02/16/23	SW846 6020	Thallium	0.13		0.13	µg/L	U		No
SLA265848	PW45	02/16/23	SW846 6020	Vanadium	4		4	µg/L	U		No
SLA265848	PW45	02/16/23	ML-005	Th-228	0.619	0.453	0.576	pCi/L	J	F01, T04, T20	No
SLA265848	PW45	02/16/23	ML-005	Th-230	1.54	0.692	0.515	pCi/L	J	F01	No
SLA265848	PW45	02/16/23	ML-005	Th-232	0	0.198	0.514	pCi/L	UJ	T06	No
SLA265848	PW45	02/16/23	ML-006	Ra-226	0.122	0.244	0.548	pCi/L	UJ	T06	No
SLA265848	PW45	02/16/23	ML-015	U-234	2.46	0.896	0.47	pCi/L	=		No
SLA265848	PW45	02/16/23	ML-015	U-235	0.0907	0.257	0.668	pCi/L	UJ	T06	No
SLA265848	PW45	02/16/23	ML-015	U-238	1.37	0.655	0.389	pCi/L	=		No
SLA266946	PW45	06/22/23	SW846 6020	Antimony	2		2	µg/L	U		No
SLA266946	PW45	06/22/23	SW846 6020	Arsenic	1.6		1.6	µg/L	U		No
SLA266946	PW45	06/22/23	SW846 6020	Barium	56		0.69	µg/L	=		No
SLA266946	PW45	06/22/23	SW846 6020	Cadmium	0.25		0.2	µg/L	=		No
SLA266946	PW45	06/22/23	SW846 6020	Chromium	4		4	µg/L	U		No
SLA266946	PW45	06/22/23	SW846 6020	Molybdenum	74		2	µg/L	=		No
SLA266946	PW45	06/22/23	SW846 6020	Nickel	2.6		2	µg/L	=		No
SLA266946	PW45	06/22/23	SW846 6020	Selenium	23		2	µg/L	=		No
SLA266946	PW45	06/22/23	SW846 6020	Thallium	0.13		0.13	µg/L	U		No
SLA266946	PW45	06/22/23	SW846 6020	Vanadium	4		4	µg/L	U		No
SLA266946	PW45	06/22/23	ML-005	Th-228	0.543	0.3	0.414	pCi/L	J	T04, T20	No
SLA266946	PW45	06/22/23	ML-005	Th-230	2.64	0.619	0.229	pCi/L	J	F01	No
SLA266946	PW45	06/22/23	ML-005	Th-232	0.139	0.143	0.209	pCi/L	UJ	T06	No
SLA266946	PW45	06/22/23	ML-006	Ra-226	0.0741	0.234	0.623	pCi/L	UJ	T06	No

Table F-4. CY 2023 Groundwater Sampling Data for the SLAPS and SLAPS VPs (Continued)

Site: SLAPS and SLAPS VPs											
Sample Name	**Station Name**	**Collection Date**	**Method**	**Analyte**	**Result**	**Measurement Error**	**DL**	**Units**	**VQ**	**Validation Reason Code**	**Filtered**
SLA266946	PW45	06/22/23	ML-015	U-234	2.52	0.878	0.502	pCi/L	=		No
SLA266946	PW45	06/22/23	ML-015	U-235	0.0841	0.238	0.619	pCi/L	UJ	T06	No
SLA266946	PW45	06/22/23	ML-015	U-238	2.24	0.823	0.5	pCi/L	=		No
SLA270111	PW45	11/02/23	SW846 6020	Antimony	0.35		0.29	µg/L	=		No
SLA270111	PW45	11/02/23	SW846 6020	Arsenic	1.6		1.6	µg/L	U		No
SLA270111	PW45	11/02/23	SW846 6020	Barium	45		0.69	µg/L	=		No
SLA270111	PW45	11/02/23	SW846 6020	Cadmium	0.49		0.06	µg/L	J	E01	No
SLA270111	PW45	11/02/23	SW846 6020	Chromium	1.3		1.3	µg/L	U		No
SLA270111	PW45	11/02/23	SW846 6020	Molybdenum	110		2	µg/L	=		No
SLA270111	PW45	11/02/23	SW846 6020	Nickel	7.5		0.89	µg/L	=		No
SLA270111	PW45	11/02/23	SW846 6020	Selenium	10		0.67	µg/L	=		No
SLA270111	PW45	11/02/23	SW846 6020	Thallium	0.38		0.38	µg/L	U		No
SLA270111	PW45	11/02/23	SW846 6020	Vanadium	4		4	µg/L	U		No
SLA270111	PW45	11/02/23	ML-005	Th-228	0.206	0.297	0.609	pCi/L	UJ	T06	No
SLA270111	PW45	11/02/23	ML-005	Th-230	0.89	0.505	0.503	pCi/L	J	F01, T04, T20	No
SLA270111	PW45	11/02/23	ML-005	Th-232	0	0.18	0.467	pCi/L	UJ	T06	No
SLA270111	PW45	11/02/23	ML-006	Ra-226	0.242	0.331	0.668	pCi/L	UJ	T06	No
SLA270111	PW45	11/02/23	ML-015	U-234	1.32	0.783	0.804	pCi/L	J	T04, T20	No
SLA270111	PW45	11/02/23	ML-015	U-235	-0.0627	0.266	0.801	pCi/L	UJ	T06	No
SLA270111	PW45	11/02/23	ML-015	U-238	0.759	0.584	0.647	pCi/L	J	T04, T20	No
SLA265849	PW46	02/16/23	ML-005	Th-228	0.283	0.286	0.402	pCi/L	UJ	T06	No
SLA265849	PW46	02/16/23	ML-005	Th-230	0.63	0.423	0.463	pCi/L	J	F01, T04, T20	No
SLA265849	PW46	02/16/23	ML-005	Th-232	0.0314	0.133	0.401	pCi/L	UJ	T06	No
SLA265849	PW46	02/16/23	ML-006	Ra-226	-0.173	0.345	1.22	pCi/L	UJ	T06	No
SLA265849	PW46	02/16/23	ML-015	U-234	37.3	5.62	0.686	pCi/L	=		No
SLA265849	PW46	02/16/23	ML-015	U-235	1.81	0.944	0.611	pCi/L	J	T04, T20	No
SLA265849	PW46	02/16/23	ML-015	U-238	40.8	6.03	0.493	pCi/L	=		No
SLA266947	PW46	06/26/23	SW846 6020	Antimony	2		2	µg/L	U		No
SLA266947	PW46	06/26/23	SW846 6020	Arsenic	1.6		1.6	µg/L	U		No

Table F-4. CY 2023 Groundwater Sampling Data for the SLAPS and SLAPS VPs (Continued)

Site: SLAPS and SLAPS VPs											
Sample Name	**Station Name**	**Collection Date**	**Method**	**Analyte**	**Result**	**Measurement Error**	**DL**	**Units**	**VQ**	**Validation Reason Code**	**Filtered**
SLA266947	PW46	06/26/23	SW846 6020	Barium	86		0.69	µg/L	=		No
SLA266947	PW46	06/26/23	SW846 6020	Cadmium	1.2		0.2	µg/L	J	E01, E08	No
SLA266947	PW46	06/26/23	SW846 6020	Chromium	9.9		4	µg/L	=		No
SLA266947	PW46	06/26/23	SW846 6020	Molybdenum	2		2	µg/L	U		No
SLA266947	PW46	06/26/23	SW846 6020	Nickel	10		2	µg/L	=		No
SLA266947	PW46	06/26/23	SW846 6020	Selenium	4.4		2	µg/L	=		No
SLA266947	PW46	06/26/23	SW846 6020	Thallium	0.13		0.13	µg/L	UJ	D04, D10	No
SLA266947	PW46	06/26/23	SW846 6020	Vanadium	4		4	µg/L	U		No
SLA266947	PW46	06/26/23	ML-005	Th-228	0.893	0.497	0.452	pCi/L	J	T04, T20	No
SLA266947	PW46	06/26/23	ML-005	Th-230	0.596	0.404	0.401	pCi/L	J	F01, T04, T20	No
SLA266947	PW46	06/26/23	ML-005	Th-232	0.0626	0.177	0.461	pCi/L	UJ	T06	No
SLA266947	PW46	06/26/23	ML-006	Ra-226	-0.0465	0.208	0.627	pCi/L	UJ	T06	No
SLA266947	PW46	06/26/23	ML-015	U-234	70.5	9.75	0.532	pCi/L	=		No
SLA266947	PW46	06/26/23	ML-015	U-235	2.44	1.14	0.656	pCi/L	=		No
SLA266947	PW46	06/26/23	ML-015	U-238	71	9.82	0.529	pCi/L	=		No
SLA269585	PW46	08/29/23	ML-005	Th-228	0.131	0.246	0.559	pCi/L	UJ	T06	No
SLA269585	PW46	08/29/23	ML-005	Th-230	0.408	0.333	0.429	pCi/L	UJ	T04, T05	No
SLA269585	PW46	08/29/23	ML-005	Th-232	0.116	0.202	0.429	pCi/L	UJ	T06	No
SLA269585	PW46	08/29/23	ML-006	Ra-226	0.21	0.28	0.515	pCi/L	UJ	T06	No
SLA269585	PW46	08/29/23	ML-015	U-234	50.2	7.65	0.789	pCi/L	=		No
SLA269585	PW46	08/29/23	ML-015	U-235	2.43	1.21	0.993	pCi/L	=		No
SLA269585	PW46	08/29/23	ML-015	U-238	58.1	8.62	0.801	pCi/L	=		No
SLA270112	PW46	11/27/23	SW846 6020	Antimony	0.29		0.29	µg/L	U		No
SLA270112	PW46	11/27/23	SW846 6020	Arsenic	1.6		1.6	µg/L	U		No
SLA270112	PW46	11/27/23	SW846 6020	Barium	92		0.69	µg/L	=		No
SLA270112	PW46	11/27/23	SW846 6020	Cadmium	0.38		0.06	µg/L	=		No
SLA270112	PW46	11/27/23	SW846 6020	Chromium	1.3		1.3	µg/L	U		No
SLA270112	PW46	11/27/23	SW846 6020	Molybdenum	2		2	µg/L	U		No
SLA270112	PW46	11/27/23	SW846 6020	Nickel	2.6		0.89	µg/L	=		No

Table F-4. CY 2023 Groundwater Sampling Data for the SLAPS and SLAPS VPs (Continued)

Site: SLAPS and SLAPS VPs											
Sample Name	**Station Name**	**Collection Date**	**Method**	**Analyte**	**Result**	**Measurement Error**	**DL**	**Units**	**VQ**	**Validation Reason Code**	**Filtered**
SLA270112	PW46	11/27/23	SW846 6020	Selenium	13		0.67	µg/L	=		No
SLA270112	PW46	11/27/23	SW846 6020	Thallium	0.38		0.38	µg/L	U		No
SLA270112	PW46	11/27/23	SW846 6020	Vanadium	4		4	µg/L	U		No
SLA270112	PW46	11/27/23	ML-005	Th-228	0.126	0.208	0.383	pCi/L	UJ	T06	No
SLA270112	PW46	11/27/23	ML-005	Th-230	1.45	0.681	0.532	pCi/L	=		No
SLA270112	PW46	11/27/23	ML-005	Th-232	-0.018	0.149	0.383	pCi/L	UJ	T06	No
SLA270112	PW46	11/27/23	ML-006	Ra-226	-0.19	0.335	1.23	pCi/L	UJ	T06	No
SLA270112	PW46	11/27/23	ML-015	U-234	261	28.4	0.456	pCi/L	=		No
SLA270112	PW46	11/27/23	ML-015	U-235	12.2	2.43	0.649	pCi/L	=		No
SLA270112	PW46	11/27/23	ML-015	U-238	267	29	0.524	pCi/L	=		No

VQs:

= - Indicates that the data met all QA/QC requirements, and that the parameter has been positively identified and the associated concentration value is accurate.

J - Indicates that the parameter was positively identified; the associated numerical value is the approximate concentration of the parameter in the sample.

U - Indicates that the data met all QA/QC requirements, and that the parameter was analyzed for but was not detected above the reported sample quantitation limit.

UJ - Indicates that the parameter was not detected above the reported sample quantitation limit and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample. However, the reported quantitation limit is approximate.

Validation Reason Codes:

A05 - Samples were not preserved properly.

E01 - ICP and Furnace Requirements: Interference check sample recovery was outside the control limit.

E08 - ICP and Furnace Requirements: Professional judgement was used to qualify the data.

F01 - Blanks: Sample data were qualified as a result of the method blank.

T04 - Radionuclide Quantitation: Professional judgment was used to qualify the data.

T05 - Radionuclide Quantitation: Analytical result is less than the associated MDA, but greater than the counting uncertainty.

T06 - Radionuclide Quantitation: Analytical result is less than both the associated counting uncertainty and MDA.

T20 - Radionuclide Quantitation: Analytical result is greater than the associated MDA, with uncertainly 50 to 100 percent of the result.

APPENDIX G

CALCULATION OF THE RECORD OF DECISION GROUNDWATER EVALUATION GUIDELINES

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CALCULATION OF THE RECORD OF DECISION GROUNDWATER MONITORING GUIDELINES

This appendix briefly outlines the methodology used to develop the groundwater monitoring guidelines for select wells and analytes at the NC Sites. The development of these guidelines was necessary to meet the requirements of response-action monitoring and long-term monitoring specified in the ROD (USACE 2005). These requirements are also identified in the EMICY23 (USACE 2022). The results of these calculations are used in the EMDAR to evaluate groundwater monitoring data at the Latty Avenue Properties, the SLAPS, and the SLAPS VPs for CY 2023.

INTRODUCTION

Response-action monitoring is conducted for HZ-A and HZ-C groundwater at the NC Sites to assess if water quality has improved due to source removals or if groundwater conditions have significantly degraded. Based on the ROD, a significantly degraded groundwater condition requires all of the following:

1. That soil COC concentrations have statistically increased in groundwater (relative to the well's historical data and accounting for uncertainty) for more than a 12-month period. Significantly increased concentrations are defined as doubling of an individual COC concentration above the UCL of the mean (based on the historical concentration before remedial activity) for a period of 12 months;
2. That the degraded well is close enough to impact CWC; and
3. That a significant degradation of CWC surface water is anticipated (USACE 2005).

In addition to the previous requirements, the ROD specifies that the maximum contaminant level for total U of 30 µg/L be used as a monitoring guideline for both response-action and long-term monitoring of groundwater. If groundwater monitoring indicates the presence of COCs at significantly increased concentrations and total U significantly above 30 µg/L, then an evaluation of potential response actions would be conducted.

METHODOLOGY

In order to evaluate groundwater for significant degradation, the UCL must be calculated using the historical groundwater data (i.e., data collected before remedial activity). The UCL is used to represent a historical average concentration for an analyte in a particular well. As stated in the USEPA's *Supplemental Guidance to RAGS: Calculating the Concentration Term,* "because of the uncertainty associated with estimating the true average concentration at a site, the UCL_{95} of the arithmetic mean should be used for this variable" (USEPA 1992). Based on the previously specified guidance, a 95 percent confidence interval was used in the UCL calculations.

Consistent with the ROD, UCL_{95} values for the soil COCs are used in the EMDAR to evaluate if concentrations have statistically increased in groundwater for more than a 12-month period. The soil COCs defined in the ROD include antimony, arsenic, barium, cadmium, chromium, molybdenum, nickel, selenium, thallium, total U, vanadium, Ra-226, Ra-228, Th-228, Th-230, Th-232, U-234, U-235, and U-238. Because the SLAPS well PW46 is a replacement well, pre-2006 data from PW38 were used to develop the groundwater monitoring guideline to compare with the PW46 results. PW46 was installed in April of 2006 near the former location of PW38 and is screened across the same interval. Similarly, pre-2006 data from HISS-06 and HISS-11 were used to develop the groundwater monitoring guidelines for the

two replacement wells (HISS-06A and HISS-11A) installed in CY 2011 at the HISS. For wells located in areas in which a response action has occurred, significant degradation is defined as occurring if the concentration of any COC in a recent sample from that well is double its UCL_{95}, and the total U is significantly above 30 µg/L. The ROD groundwater monitoring guideline for the soil COC for a particular well is defined as equivalent to two times the UCL_{95} value.

The dataset used for this evaluation was reduced prior to performing the statistical analysis. Filtered data, results qualified with an "R" designation, and QC samples were removed from each of the datasets. The analytical result was used when the VQ was assigned an "=" or a "J." For nondetect chemical data (i.e., the VQ was assigned a "U" or "UJ"), the value used in the UCL_{95} calculation was half the DL. For nondetect radiological data, the reported value was used, except in cases in which the value reported was negative. In those cases, a value of zero was substituted for the negative value.

RESULTS

The USEPA software package ProUCL Version 5.0 was used to calculate the UCL_{95} value. ProUCL computes parametric UCLs (for normal, lognormal, and gamma distributions) and nonparametric UCLs using several nonparametric methods (USEPA 2013). Based upon the data distribution and the associated skewness, ProUCL performs and recommends the appropriate UCL.

The UCL_{95} values are those recommended by ProUCL with the following exceptions.

- If the calculated UCL_{95} exceeded the maximum detected value, then the maximum detected value was used, as recommended in the USEPA's *Risk Assessment Guidance for Superfund Volume 1 Human Health Evaluation Manual (Part A)* (USEPA 1989c).
- If no values were detected for the COC in the historical database for that well, then the UCL_{95} was not determined. If only one value of the COC was detected, then the detected value was used.

The groundwater monitoring guidelines based on these UCL_{95} values are listed in Tables G-1 and G-2 for the Latty Avenue Properties, the SLAPS, and the SLAPS VPs, respectively.

Table G-1. ROD Monitoring Guidelines for Groundwater at the Latty Avenue Properties

Analyte Type	Soil COCs	HISS-01	HISS-06A[a]	HISS-09	HISS-10	HISS-11A[a]	HISS-14
Inorganics (µg/L)	Antimony	12	---	---	---	---	---
	Arsenic	---	---	---	---	5.2	---
	Barium	250	240	420	270	370	1,080
	Cadmium	---	---	---	1.4	---	---
	Chromium	13	2.2	---	2.4	7.0	---
	Molybdenum	23	40	22	5.6	4.8	---
	Nickel	20	34	21	3.8	20	11
	Selenium	570	770	19	7.6	---	610
	Thallium	4.6	---	---	---	---	5.8
	Total U	30	30	30	30	30	30
	Vanadium	37	31	17	16	---	250
Radionuclides (pCi/L)	Ra-226	5.3	---	---	---	16	4.2
	Th-228	1.9	2.4	3.2	3.4	3.4	2.0
	Th-230	4.2	7.0	7.4	6.0	5.0	21
	Th-232	---	1.8	---	0.2	---	---
	U-234	12	32	1.8	6.6	4.8	14
	U-235	---	4.2	---	---	---	---
	U-238	13	31	1.4	5.2	3.0	11

Table G-1. ROD Monitoring Guidelines for Groundwater at the Latty Avenue Properties (Continued)

Analyte Type	Soil COCs	HISS-17S	HISS-18S	HISS-19S	HW21	HW22	HW23
Inorganics (µg/L)	Antimony	---	---	7.4	---	---	4.6
	Arsenic	---	6.6	510	6.8	2.4	320
	Barium	500	410	1,200	3,700	460	810
	Cadmium	---	---	---	2.8	1.6	3.4
	Chromium	12	---	3.0	7.0	9.0	8.1
	Molybdenum	16	---	10	5.6	3.4	26
	Nickel	30	39	7.0	44	7.0	12
	Selenium	250	---	---	110	17	---
	Thallium	---	---	8.0	6.2	---	5.4
	Total U	30	30	30	30	30	30
	Vanadium	18	16	4.4	12	4.0	6.4
Radionuclides (pCi/L)	Ra-226	5.7	5.5	2.5	8.4	11	2.4
	Th-228	2.4	3.2	10	4.2	1.8	2.6
	Th-230	3.8	5.8	12	5.2	3.8	5.2
	Th-232	---	1.9	---	---	---	1.0
	U-234	8.2	8.2	---	24	6.4	3.8
	U-235	---	---	---	2.0	---	---
	U-238	5.6	3.7	---	16	5.4	3.2

[a] The ROD evaluation criteria for HISS-06A and HISS-11A were calculated using historical data from the previous wells at these locations (HISS-06 and HISS-11).

--- The analyte was not detected in the historical database, so a monitoring guideline was not developed.

Groundwater monitoring guideline = 2 x UCL_{95}

Total U monitoring guide = 30 µg/L.

Table G-2. ROD Monitoring Guidelines for Groundwater at the SLAPS and the SLAPS VPs

Analyte Type	Soil COCs	B53W01D	B53W01S	B53W06S	B53W07D	B53W07S	B53W09S	B53W13S	B53W17S	B53W18S
Inorganics (µg/L)	Antimony	---	---	105	5.0	---	---	---	---	---
	Arsenic	170	---	---	150	140	---	---	---	3.6
	Barium	840	390	190	730	530	630	510	450	1,200
	Cadmium	---	---	---	---	---	---	---	8.8	---
	Chromium	7.2	15	47	5.6	11	9.6	9.1	7.0	51
	Molybdenum	---	---	22	4.0	4.4	14	3.2	21	28
	Nickel	---	30	16	12	5.2	83	38	5.2	910
	Selenium	---	---	---	4.0	5.2	700	790	140	---
	Thallium	---	8.0	---	7.4	---	---	7.0	---	---
	Total U	30	30	30	30	30	30	30	30	30
	Vanadium	19	44	48	12	17	24	---	83	54
Radionuclides (pCi/L)	Ra-226	4.4	---	3.8	3.4	7.2	2.5	---	---	7.2
	Th-228	1.6	1.0	1.5	---	2.2	3.0	4.4	3.8	7.0
	Th-230	5.8	2.9	3.9	4.4	4.0	5.0	6.0	5.6	8.0
	Th-232	---	---	---	---	---	---	---	---	1.4
	U-234	3.4	8.2	66	3.6	11	18	13	5.4	4.5
	U-235	---	---	2.9	---	---	6.1	---	4.4	---
	U-238	2.7	2.7	57	4.6	8.2	13	10	4.2	3.4

Table G-2. ROD Monitoring Guidelines for Groundwater at the SLAPS and the SLAPS VPs (Continued)

Analyte Type	Soil COCs	B53W19S	MW31-98	MW32-98	PW35	PW36	PW42	PW43	PW44	PW45	PW46[a]
Inorganics (µg/L)	Antimony	---	---	---	---	---	---	---	---	---	---
	Arsenic	36	---	5.8	90	220	280	53	13	---	7.0
	Barium	510	1,300	700	3,300	1,500	670	260	260	610	250
	Cadmium	0.7	3.8	3.8	0.6	---	0.8	---	---	---	1.2
	Chromium	290	4.6	5.6	16	3.2	52	3.5	---	---	37
	Molybdenum	130	35	3.0	32	8.0	6.0	6.4	12	1,500	2.2
	Nickel	1,100	7.8	4.0	35	13	28	3.6	---	67	3.4
	Selenium	4.2	390	740	2.8	3.8	---	---	---	7,200	710
	Thallium	7.7	---	9.8	7.4	14	7.6	---	---	---	---
	Total U	30	30	30	30	30	30	30	30	30	30
	Vanadium	36	110	54	35	13	12	3.1	---	---	67
Radionuclides (pCi/L)	Ra-226	1.4	3.4	1.6	8.0	2.0	4.0	6.1	1.8	2.4	22
	Th-228	5.2	4.6	1.4	2.6	2.6	1.6	2.4	3.4	2.5	2.1
	Th-230	6.0	4.0	4.0	4.1	3.6	3.4	2.6	12	5.8	60
	Th-232	2.2	---	0.4	2.3	---	---	---	---	---	7.0
	U-234	2.4	7.0	21	4.3	3.2	9.0	29	4.7	79	5,500
	U-235	---	5.9	9.4	---	---	---	2.2	---	3.0	290
	U-238	1.8	5.7	19	4.7	4.9	6.6	26	3.4	64	5,600

[a] The ROD evaluation criteria for PW46 were calculated using historical data from the previous well at this location (PW38).

--- The analyte was not detected in the historical database, so a monitoring guideline was not developed.

Groundwater monitoring guideline = 2 x UCL_{95}

Total U monitoring guide = 30 µg/L.

APPENDIX H

WELL MAINTENANCE CHECKLISTS FOR THE ANNUAL GROUNDWATER MONITORING WELL INSPECTIONS AND FIELD LOGBOOKS FOR ENVIRONMENTAL MONITORING CONDUCTED IN CALENDAR YEAR 2023

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ATTACHMENT H-1

CALENDAR YEAR 2023 WELL MAINTENANCE CHECKLISTS

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CALENDAR YEAR 2023 WELL MAINTENANCE CHECKLISTS FOR THE HAZELWOOD INTERIM STORAGE SITE

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Well Maintenance Checklist

Name of Observer(s): L. Hoover and J. King Date: 4/18/23 Time: 1206

Monitoring Well Station Identification: HISS-01 ☐SLAPS ☐SLDS ☒HISS

		Yes	No	N/A
1.	Is well identification number visible on outer casing for a stick up well?	☐	☒	☐
2.	Is well identification visible on top of well casing for flush mount well?	☐	☐	☒
3.	Is well accessible?	☒	☐	☐
4.	Is well covered/surrounded by vegetation?	☐	☒	☐
5.	Is there standing water or debris inside well casing? If so, remove water.	☐	☒	☐
6.	Is the weep hole open? If not, clear blockage.	☒	☐	☐
7.	Is the protective casing dented, damaged, rusted, or covered in other matter (i.e., bird droppings)?	☐	☒	☐
8.	Is the riser casing dented or damaged?	☐	☒	☐
9.	Is the concrete pad intact (free of cracks, chips, etc.)?	☒	☐	☐
10.	Does the pad move?	☐	☒	☐
11.	Are there gaps between pad and well casing?	☐	☒	☐
12.	Are there signs of erosion around the well or pad?	☐	☒	☐
13.	Is riser cap present?	☒	☐	☐
14.	Do the wells in the Mississippi River and Coldwater Creek floodplain have a properly working pressure cap?	☒	☐	☐
15.	Do the flush mount wells in the Mississippi River and Coldwater Creek floodplain have a properly working pressure cap?	☐	☐	☒
16.	Is the well secure (shut properly or locked, if applicable)?	☒	☐	☐
17.	Do the locks work properly?	☒	☐	☐
18.	Are the locks rusted?	☐	☒	☐
19.	Does surface water flow away from well casing (i.e., no ponding)?	☒	☐	☐
20.	Is TOC elevation mark clearly visible?	☒	☐	☐
21.	Has there been a change in land use that impacts the well? If yes, describe in comment section.	☐	☒	☐
22.	Will the well need any type of attention before the next groundwater surface measurement? If yes, describe in comment section.	☒	☐	☐

Comments for "NO" responses/Any other observations regarding well.

Well I.D. Marking

Lubricate Lock

Paint protective casing

Well Maintenance Checklist

Name of Observer(s): L. Hoover and J. King Date: 4/18/23 Time: 1217

Monitoring Well Station Identification: HISS-06A ☐SLAPS ☐SLDS ☒HISS

		Yes	No	N/A
1.	Is well identification number visible on outer casing for a stick up well?	☐	☒	☐
2.	Is well identification visible on top of well casing for flush mount well?	☐	☐	☒
3.	Is well accessible?	☒	☐	☐
4.	Is well covered/surrounded by vegetation?	☐	☒	☐
5.	Is there standing water or debris inside well casing? If so, remove water.	☐	☒	☐
6.	Is the weep hole open? If not, clear blockage.	☒	☐	☐
7.	Is the protective casing dented, damaged, rusted, or covered in other matter (i.e., bird droppings)?	☐	☒	☐
8.	Is the riser casing dented or damaged?	☐	☒	☐
9.	Is the concrete pad intact (free of cracks, chips, etc.)?	☒	☐	☐
10.	Does the pad move?	☐	☒	☐
11.	Are there gaps between pad and well casing?	☐	☒	☐
12.	Are there signs of erosion around the well or pad?	☐	☒	☐
13.	Is riser cap present?	☒	☐	☐
14.	Do the wells in the Mississippi River and Coldwater Creek floodplain have a properly working pressure cap?	☒	☐	☐
15.	Do the flush mount wells in the Mississippi River and Coldwater Creek floodplain have a properly working pressure cap?	☐	☐	☒
16.	Is the well secure (shut properly or locked, if applicable)?	☒	☐	☐
17.	Do the locks work properly?	☒	☐	☐
18.	Are the locks rusted?	☐	☒	☐
19.	Does surface water flow away from well casing (i.e., no ponding)?	☒	☐	☐
20.	Is TOC elevation mark clearly visible?	☒	☐	☐
21.	Has there been a change in land use that impacts the well? If yes, describe in comment section.	☐	☒	☐
22.	Will the well need any type of attention before the next groundwater surface measurement? If yes, describe in comment section.	☒	☐	☐

Comments for "NO" responses/Any other observations regarding well.

Well I.D. Marking

Lubricate Lock

Well Maintenance Checklist

Name of Observer(s): L. Hoover and J. King Date: 4/18/23 Time: 1211

Monitoring Well Station Identification: HISS-10 ☐SLAPS ☐SLDS ☒HISS

		Yes	No	N/A
1.	Is well identification number visible on outer casing for a stick up well?	☐	☒	☐
2.	Is well identification visible on top of well casing for flush mount well?	☐	☐	☒
3.	Is well accessible?	☒	☐	☐
4.	Is well covered/surrounded by vegetation?	☐	☒	☐
5.	Is there standing water or debris inside well casing? If so, remove water.	☐	☒	☐
6.	Is the weep hole open? If not, clear blockage.	☒	☐	☐
7.	Is the protective casing dented, damaged, rusted, or covered in other matter (i.e., bird droppings)?	☐	☒	☐
8.	Is the riser casing dented or damaged?	☐	☒	☐
9.	Is the concrete pad intact (free of cracks, chips, etc.)?	☒	☐	☐
10.	Does the pad move?	☐	☒	☐
11.	Are there gaps between pad and well casing?	☐	☒	☐
12.	Are there signs of erosion around the well or pad?	☐	☒	☐
13.	Is riser cap present?	☒	☐	☐
14.	Do the wells in the Mississippi River and Coldwater Creek floodplain have a properly working pressure cap?	☒	☐	☐
15.	Do the flush mount wells in the Mississippi River and Coldwater Creek floodplain have a properly working pressure cap?	☐	☐	☒
16.	Is the well secure (shut properly or locked, if applicable)?	☒	☐	☐
17.	Do the locks work properly?	☒	☐	☐
18.	Are the locks rusted?	☐	☒	☐
19.	Does surface water flow away from well casing (i.e., no ponding)?	☒	☐	☐
20.	Is TOC elevation mark clearly visible?	☒	☐	☐
21.	Has there been a change in land use that impacts the well? If yes, describe in comment section.	☐	☒	☐
22.	Will the well need any type of attention before the next groundwater surface measurement? If yes, describe in comment section.	☒	☐	☐

Comments for "NO" responses/Any other observations regarding well.

Well I.D. Marking

Lubricate Lock

Well Maintenance Checklist

Name of Observer(s): L. Hoover and J. King Date: 4/18/23 Time: 1202

Monitoring Well Station Identification: HISS-11A ☐SLAPS ☐SLDS ☒HISS

		Yes	No	N/A
1.	Is well identification number visible on outer casing for a stick up well?	☒	☐	☐
2.	Is well identification visible on top of well casing for flush mount well?	☐	☐	☒
3.	Is well accessible?	☒	☐	☐
4.	Is well covered/surrounded by vegetation?	☐	☒	☐
5.	Is there standing water or debris inside well casing? If so, remove water.	☐	☒	☐
6.	Is the weep hole open? If not, clear blockage.	☒	☐	☐
7.	Is the protective casing dented, damaged, rusted, or covered in other matter (i.e., bird droppings)?	☐	☒	☐
8.	Is the riser casing dented or damaged?	☐	☒	☐
9.	Is the concrete pad intact (free of cracks, chips, etc.)?	☒	☐	☐
10.	Does the pad move?	☐	☒	☐
11.	Are there gaps between pad and well casing?	☐	☒	☐
12.	Are there signs of erosion around the well or pad?	☐	☒	☐
13.	Is riser cap present?	☒	☐	☐
14.	Do the wells in the Mississippi River and Coldwater Creek floodplain have a properly working pressure cap?	☒	☐	☐
15.	Do the flush mount wells in the Mississippi River and Coldwater Creek floodplain have a properly working pressure cap?	☐	☐	☒
16.	Is the well secure (shut properly or locked, if applicable)?	☒	☐	☐
17.	Do the locks work properly?	☒	☐	☐
18.	Are the locks rusted?	☐	☒	☐
19.	Does surface water flow away from well casing (i.e., no ponding)?	☒	☐	☐
20.	Is TOC elevation mark clearly visible?	☒	☐	☐
21.	Has there been a change in land use that impacts the well? If yes, describe in comment section.	☐	☒	☐
22.	Will the well need any type of attention before the next groundwater surface measurement? If yes, describe in comment section.	☒	☐	☐

Comments for "NO" responses/Any other observations regarding well.

Well I.D. Marking

Lubricate Lock

Well Maintenance Checklist

Name of Observer(s): L. Hoover and J. King Date: 4/18/23 Time: 1155

Monitoring Well Station Identification: HISS-17S ☐SLAPS ☐SLDS ☒HISS

		Yes	No	N/A
1.	Is well identification number visible on outer casing for a stick up well?	☐	☒	☐
2.	Is well identification visible on top of well casing for flush mount well?	☐	☐	☒
3.	Is well accessible?	☒	☐	☐
4.	Is well covered/surrounded by vegetation?	☐	☒	☐
5.	Is there standing water or debris inside well casing? If so, remove water.	☐	☒	☐
6.	Is the weep hole open? If not, clear blockage.	☒	☐	☐
7.	Is the protective casing dented, damaged, rusted, or covered in other matter (i.e., bird droppings)?	☐	☒	☐
8.	Is the riser casing dented or damaged?	☐	☒	☐
9.	Is the concrete pad intact (free of cracks, chips, etc.)?	☒	☐	☐
10.	Does the pad move?	☐	☒	☐
11.	Are there gaps between pad and well casing?	☐	☒	☐
12.	Are there signs of erosion around the well or pad?	☐	☒	☐
13.	Is riser cap present?	☒	☐	☐
14.	Do the wells in the Mississippi River and Coldwater Creek floodplain have a properly working pressure cap?	☐	☐	☒
15.	Do the flush mount wells in the Mississippi River and Coldwater Creek floodplain have a properly working pressure cap?	☒	☐	☐
16.	Is the well secure (shut properly or locked, if applicable)?	☒	☐	☐
17.	Do the locks work properly?	☒	☐	☐
18.	Are the locks rusted?	☐	☒	☐
19.	Does surface water flow away from well casing (i.e., no ponding)?	☒	☐	☐
20.	Is TOC elevation mark clearly visible?	☒	☐	☐
21.	Has there been a change in land use that impacts the well? If yes, describe in comment section.	☐	☒	☐
22.	Will the well need any type of attention before the next groundwater surface measurement? If yes, describe in comment section.	☒	☐	☐

Comments for "NO" responses/Any other observations regarding well.

Well I.D. Marking

Lubricate Lock

Well Maintenance Checklist

Name of Observer(s): L. Hoover and J. King Date: 4/18/23 Time: 1150

Monitoring Well Station Identification: HISS-19S ☐SLAPS ☐SLDS ☒HISS

		Yes	No	N/A
1.	Is well identification number visible on outer casing for a stick up well?	☐	☐	☒
2.	Is well identification visible on top of well casing for flush mount well?	☐	☒	☐
3.	Is well accessible?	☒	☐	☐
4.	Is well covered/surrounded by vegetation?	☐	☒	☐
5.	Is there standing water or debris inside well casing? If so, remove water.	☐	☒	☐
6.	Is the weep hole open? If not, clear blockage.	☐	☐	☒
7.	Is the protective casing dented, damaged, rusted, or covered in other matter (i.e., bird droppings)?	☐	☒	☐
8.	Is the riser casing dented or damaged?	☐	☒	☐
9.	Is the concrete pad intact (free of cracks, chips, etc.)?	☒	☐	☐
10.	Does the pad move?	☐	☒	☐
11.	Are there gaps between pad and well casing?	☐	☒	☐
12.	Are there signs of erosion around the well or pad?	☐	☒	☐
13.	Is riser cap present?	☒	☐	☐
14.	Do the wells in the Mississippi River and Coldwater Creek floodplain have a properly working pressure cap?	☐	☐	☒
15.	Do the flush mount wells in the Mississippi River and Coldwater Creek floodplain have a properly working pressure cap?	☒	☐	☐
16.	Is the well secure (shut properly or locked, if applicable)?	☒	☐	☐
17.	Do the locks work properly?	☒	☐	☐
18.	Are the locks rusted?	☐	☒	☐
19.	Does surface water flow away from well casing (i.e., no ponding)?	☒	☐	☐
20.	Is TOC elevation mark clearly visible?	☒	☐	☐
21.	Has there been a change in land use that impacts the well? If yes, describe in comment section.	☐	☒	☐
22.	Will the well need any type of attention before the next groundwater surface measurement? If yes, describe in comment section.	☒	☐	☐

Comments for "NO" responses/Any other observations regarding well.

Well I.D. Marking

Lubricate Lock

Well Maintenance Checklist

Name of Observer(s): L. Hoover and J. King Date: 4/18/23 Time: 1223

Monitoring Well Station Identification: HW-22 ☐SLAPS ☐SLDS ☒HISS

		Yes	No	N/A
1.	Is well identification number visible on outer casing for a stick up well?	☐	☒	☐
2.	Is well identification visible on top of well casing for flush mount well?	☐	☐	☒
3.	Is well accessible?	☒	☐	☐
4.	Is well covered/surrounded by vegetation?	☐	☒	☐
5.	Is there standing water or debris inside well casing? If so, remove water.	☐	☒	☐
6.	Is the weep hole open? If not, clear blockage.	☒	☐	☐
7.	Is the protective casing dented, damaged, rusted, or covered in other matter (i.e., bird droppings)?	☐	☒	☐
8.	Is the riser casing dented or damaged?	☐	☒	☐
9.	Is the concrete pad intact (free of cracks, chips, etc.)?	☒	☐	☐
10.	Does the pad move?	☐	☒	☐
11.	Are there gaps between pad and well casing?	☐	☒	☐
12.	Are there signs of erosion around the well or pad?	☐	☒	☐
13.	Is riser cap present?	☒	☐	☐
14.	Do the wells in the Mississippi River and Coldwater Creek floodplain have a properly working pressure cap?	☒	☐	☐
15.	Do the flush mount wells in the Mississippi River and Coldwater Creek floodplain have a properly working pressure cap?	☐	☐	☒
16.	Is the well secure (shut properly or locked, if applicable)?	☒	☐	☐
17.	Do the locks work properly?	☒	☐	☐
18.	Are the locks rusted?	☐	☒	☐
19.	Does surface water flow away from well casing (i.e., no ponding)?	☒	☐	☐
20.	Is TOC elevation mark clearly visible?	☒	☐	☐
21.	Has there been a change in land use that impacts the well? If yes, describe in comment section.	☐	☒	☐
22.	Will the well need any type of attention before the next groundwater surface measurement? If yes, describe in comment section.	☒	☐	☐

Comments for "NO" responses/Any other observations regarding well.

Well I.D. Marking

Lubricate Lock

Well Maintenance Checklist

Name of Observer(s): L. Hoover and J. King Date: 4/18/23 Time: 1222

Monitoring Well Station Identification: HW-23 ☐SLAPS ☐SLDS ☒HISS

		Yes	No	N/A
1.	Is well identification number visible on outer casing for a stick up well?	☐	☒	☐
2.	Is well identification visible on top of well casing for flush mount well?	☐	☐	☒
3.	Is well accessible?	☒	☐	☐
4.	Is well covered/surrounded by vegetation?	☐	☒	☐
5.	Is there standing water or debris inside well casing? If so, remove water.	☐	☒	☐
6.	Is the weep hole open? If not, clear blockage.	☒	☐	☐
7.	Is the protective casing dented, damaged, rusted, or covered in other matter (i.e., bird droppings)?	☐	☒	☐
8.	Is the riser casing dented or damaged?	☐	☒	☐
9.	Is the concrete pad intact (free of cracks, chips, etc.)?	☒	☐	☐
10.	Does the pad move?	☐	☒	☐
11.	Are there gaps between pad and well casing?	☐	☒	☐
12.	Are there signs of erosion around the well or pad?	☐	☒	☐
13.	Is riser cap present?	☒	☐	☐
14.	Do the wells in the Mississippi River and Coldwater Creek floodplain have a properly working pressure cap?	☒	☐	☐
15.	Do the flush mount wells in the Mississippi River and Coldwater Creek floodplain have a properly working pressure cap?	☐	☐	☒
16.	Is the well secure (shut properly or locked, if applicable)?	☒	☐	☐
17.	Do the locks work properly?	☒	☐	☐
18.	Are the locks rusted?	☐	☒	☐
19.	Does surface water flow away from well casing (i.e., no ponding)?	☒	☐	☐
20.	Is TOC elevation mark clearly visible?	☒	☐	☐
21.	Has there been a change in land use that impacts the well? If yes, describe in comment section.	☐	☒	☐
22.	Will the well need any type of attention before the next groundwater surface measurement? If yes, describe in comment section.	☒	☐	☐

Comments for "NO" responses/Any other observations regarding well.

Well I.D. Marking

Lubricate Lock

CALENDAR YEAR 2023 WELL MAINTENANCE CHECKLISTS FOR THE ST. LOUIS AIRPORT SITE AND ST. LOUIS AIRPORT SITE VICINITY PROPERTIES

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Well Maintenance Checklist

Name of Observer(s): L. Hoover and J. King Date: 4/18/23 Time: 1246

Monitoring Well Station Identification: B53W01D ☒SLAPS ☐SLDS ☐HISS

		Yes	No	N/A
1.	Is well identification number visible on outer casing for a stick up well?	☐	☒	☐
2.	Is well identification visible on top of well casing for flush mount well?	☐	☐	☒
3.	Is well accessible?	☒	☐	☐
4.	Is well covered/surrounded by vegetation?	☐	☒	☐
5.	Is there standing water or debris inside well casing? If so, remove water.	☐	☒	☐
6.	Is the weep hole open? If not, clear blockage.	☒	☐	☐
7.	Is the protective casing dented, damaged, rusted, or covered in other matter (i.e., bird droppings)?	☐	☒	☐
8.	Is the riser casing dented or damaged?	☐	☒	☐
9.	Is the concrete pad intact (free of cracks, chips, etc.)?	☒	☐	☐
10.	Does the pad move?	☐	☒	☐
11.	Are there gaps between pad and well casing?	☐	☒	☐
12.	Are there signs of erosion around the well or pad?	☐	☒	☐
13.	Is riser cap present?	☒	☐	☐
14.	Do the wells in the Mississippi River and Coldwater Creek floodplain have a properly working pressure cap?	☒	☐	☐
15.	Do the flush mount wells in the Mississippi River and Coldwater Creek floodplain have a properly working pressure cap?	☐	☐	☒
16.	Is the well secure (shut properly or locked, if applicable)?	☒	☐	☐
17.	Do the locks work properly?	☒	☐	☐
18.	Are the locks rusted?	☐	☒	☐
19.	Does surface water flow away from well casing (i.e., no ponding)?	☒	☐	☐
20.	Is TOC elevation mark clearly visible?	☒	☐	☐
21.	Has there been a change in land use that impacts the well? If yes, describe in comment section.	☐	☒	☐
22.	Will the well need any type of attention before the next groundwater surface measurement? If yes, describe in comment section.	☒	☐	☐

Comments for "NO" responses/Any other observations regarding well.

Well I.D. Marking

Lubricate Lock

Well Maintenance Checklist

Name of Observer(s): L. Hoover and J. King Date: 4/18/23 Time: 1246

Monitoring Well Station Identification: B53W01S ☒SLAPS ☐SLDS ☐HISS

		Yes	No	N/A
1.	Is well identification number visible on outer casing for a stick up well?	☐	☒	☐
2.	Is well identification visible on top of well casing for flush mount well?	☐	☐	☒
3.	Is well accessible?	☒	☐	☐
4.	Is well covered/surrounded by vegetation?	☐	☒	☐
5.	Is there standing water or debris inside well casing? If so, remove water.	☐	☒	☐
6.	Is the weep hole open? If not, clear blockage.	☒	☐	☐
7.	Is the protective casing dented, damaged, rusted, or covered in other matter (i.e., bird droppings)?	☐	☒	☐
8.	Is the riser casing dented or damaged?	☐	☒	☐
9.	Is the concrete pad intact (free of cracks, chips, etc.)?	☒	☐	☐
10.	Does the pad move?	☐	☒	☐
11.	Are there gaps between pad and well casing?	☐	☒	☐
12.	Are there signs of erosion around the well or pad?	☐	☒	☐
13.	Is riser cap present?	☒	☐	☐
14.	Do the wells in the Mississippi River and Coldwater Creek floodplain have a properly working pressure cap?	☒	☐	☐
15.	Do the flush mount wells in the Mississippi River and Coldwater Creek floodplain have a properly working pressure cap?	☐	☐	☒
16.	Is the well secure (shut properly or locked, if applicable)?	☒	☐	☐
17.	Do the locks work properly?	☒	☐	☐
18.	Are the locks rusted?	☐	☒	☐
19.	Does surface water flow away from well casing (i.e., no ponding)?	☒	☐	☐
20.	Is TOC elevation mark clearly visible?	☒	☐	☐
21.	Has there been a change in land use that impacts the well? If yes, describe in comment section.	☐	☒	☐
22.	Will the well need any type of attention before the next groundwater surface measurement? If yes, describe in comment section.	☒	☐	☐

Comments for "NO" responses/Any other observations regarding well.

Well I.D. Marking

Lubricate Lock

Well Maintenance Checklist

Name of Observer(s): L. Hoover and J. King Date: 4/18/23 Time: 1348

Monitoring Well Station Identification: B53W06S ☒SLAPS ☐SLDS ☐HISS

		Yes	No	N/A
1.	Is well identification number visible on outer casing for a stick up well?	☐	☐	☒
2.	Is well identification visible on top of well casing for flush mount well?	☐	☒	☐
3.	Is well accessible?	☒	☐	☐
4.	Is well covered/surrounded by vegetation?	☐	☒	☐
5.	Is there standing water or debris inside well casing? If so, remove water.	☐	☒	☐
6.	Is the weep hole open? If not, clear blockage.	☐	☐	☒
7.	Is the protective casing dented, damaged, rusted, or covered in other matter (i.e., bird droppings)?	☐	☒	☐
8.	Is the riser casing dented or damaged?	☐	☒	☐
9.	Is the concrete pad intact (free of cracks, chips, etc.)?	☒	☐	☐
10.	Does the pad move?	☐	☒	☐
11.	Are there gaps between pad and well casing?	☐	☒	☐
12.	Are there signs of erosion around the well or pad?	☐	☒	☐
13.	Is riser cap present?	☒	☐	☐
14.	Do the wells in the Mississippi River and Coldwater Creek floodplain have a properly working pressure cap?	☐	☐	☒
15.	Do the flush mount wells in the Mississippi River and Coldwater Creek floodplain have a properly working pressure cap?	☒	☐	☐
16.	Is the well secure (shut properly or locked, if applicable)?	☒	☐	☐
17.	Do the locks work properly?	☒	☐	☐
18.	Are the locks rusted?	☐	☒	☐
19.	Does surface water flow away from well casing (i.e., no ponding)?	☒	☐	☐
20.	Is TOC elevation mark clearly visible?	☒	☐	☐
21.	Has there been a change in land use that impacts the well? If yes, describe in comment section.	☐	☒	☐
22.	Will the well need any type of attention before the next groundwater surface measurement? If yes, describe in comment section.	☒	☐	☐

Comments for "NO" responses/Any other observations regarding well.

Well I.D. Marking

Lubricate Lock

Well Maintenance Checklist

Name of Observer(s): L. Hoover and J. King Date: 4/18/23 Time: 1344

Monitoring Well Station Identification: B53W07D ☒SLAPS ☐SLDS ☐HISS

		Yes	No	N/A
1.	Is well identification number visible on outer casing for a stick up well?	☐	☒	☐
2.	Is well identification visible on top of well casing for flush mount well?	☐	☐	☒
3.	Is well accessible?	☒	☐	☐
4.	Is well covered/surrounded by vegetation?	☐	☒	☐
5.	Is there standing water or debris inside well casing? If so, remove water.	☐	☒	☐
6.	Is the weep hole open? If not, clear blockage.	☒	☐	☐
7.	Is the protective casing dented, damaged, rusted, or covered in other matter (i.e., bird droppings)?	☐	☒	☐
8.	Is the riser casing dented or damaged?	☐	☒	☐
9.	Is the concrete pad intact (free of cracks, chips, etc.)?	☒	☐	☐
10.	Does the pad move?	☐	☒	☐
11.	Are there gaps between pad and well casing?	☐	☒	☐
12.	Are there signs of erosion around the well or pad?	☐	☒	☐
13.	Is riser cap present?	☒	☐	☐
14.	Do the wells in the Mississippi River and Coldwater Creek floodplain have a properly working pressure cap?	☒	☐	☐
15.	Do the flush mount wells in the Mississippi River and Coldwater Creek floodplain have a properly working pressure cap?	☐	☐	☒
16.	Is the well secure (shut properly or locked, if applicable)?	☒	☐	☐
17.	Do the locks work properly?	☒	☐	☐
18.	Are the locks rusted?	☐	☒	☐
19.	Does surface water flow away from well casing (i.e., no ponding)?	☒	☐	☐
20.	Is TOC elevation mark clearly visible?	☒	☐	☐
21.	Has there been a change in land use that impacts the well? If yes, describe in comment section.	☐	☒	☐
22.	Will the well need any type of attention before the next groundwater surface measurement? If yes, describe in comment section.	☒	☐	☐

Comments for "NO" responses/Any other observations regarding well.

Well I.D. Marking

Lubricate Lock

Well Maintenance Checklist

Name of Observer(s): L. Hoover and J. King Date: 4/18/23 Time: 1345

Monitoring Well Station Identification: B53W07S ☒SLAPS ☐SLDS ☐HISS

		Yes	No	N/A
1.	Is well identification number visible on outer casing for a stick up well?	☐	☒	☐
2.	Is well identification visible on top of well casing for flush mount well?	☐	☐	☒
3.	Is well accessible?	☒	☐	☐
4.	Is well covered/surrounded by vegetation?	☐	☒	☐
5.	Is there standing water or debris inside well casing? If so, remove water.	☐	☒	☐
6.	Is the weep hole open? If not, clear blockage.	☒	☐	☐
7.	Is the protective casing dented, damaged, rusted, or covered in other matter (i.e., bird droppings)?	☐	☒	☐
8.	Is the riser casing dented or damaged?	☐	☒	☐
9.	Is the concrete pad intact (free of cracks, chips, etc.)?	☒	☐	☐
10.	Does the pad move?	☐	☒	☐
11.	Are there gaps between pad and well casing?	☐	☒	☐
12.	Are there signs of erosion around the well or pad?	☐	☒	☐
13.	Is riser cap present?	☒	☐	☐
14.	Do the wells in the Mississippi River and Coldwater Creek floodplain have a properly working pressure cap?	☒	☐	☐
15.	Do the flush mount wells in the Mississippi River and Coldwater Creek floodplain have a properly working pressure cap?	☐	☐	☒
16.	Is the well secure (shut properly or locked, if applicable)?	☒	☐	☐
17.	Do the locks work properly?	☒	☐	☐
18.	Are the locks rusted?	☐	☒	☐
19.	Does surface water flow away from well casing (i.e., no ponding)?	☒	☐	☐
20.	Is TOC elevation mark clearly visible?	☒	☐	☐
21.	Has there been a change in land use that impacts the well? If yes, describe in comment section.	☐	☒	☐
22.	Will the well need any type of attention before the next groundwater surface measurement? If yes, describe in comment section.	☒	☐	☐

Comments for "NO" responses/Any other observations regarding well.

Well I.D. Marking

Lubricate Lock

Well Maintenance Checklist

Name of Observer(s): L. Hoover and J. King Date: 4/18/23 Time: 1336

Monitoring Well Station Identification: B53W09S ☒SLAPS ☐SLDS ☐HISS

		Yes	No	N/A
1.	Is well identification number visible on outer casing for a stick up well?	☐	☒	☐
2.	Is well identification visible on top of well casing for flush mount well?	☐	☐	☒
3.	Is well accessible?	☒	☐	☐
4.	Is well covered/surrounded by vegetation?	☐	☒	☐
5.	Is there standing water or debris inside well casing? If so, remove water.	☐	☒	☐
6.	Is the weep hole open? If not, clear blockage.	☒	☐	☐
7.	Is the protective casing dented, damaged, rusted, or covered in other matter (i.e., bird droppings)?	☐	☒	☐
8.	Is the riser casing dented or damaged?	☐	☒	☐
9.	Is the concrete pad intact (free of cracks, chips, etc.)?	☒	☐	☐
10.	Does the pad move?	☐	☒	☐
11.	Are there gaps between pad and well casing?	☐	☒	☐
12.	Are there signs of erosion around the well or pad?	☐	☒	☐
13.	Is riser cap present?	☒	☐	☐
14.	Do the wells in the Mississippi River and Coldwater Creek floodplain have a properly working pressure cap?	☒	☐	☐
15.	Do the flush mount wells in the Mississippi River and Coldwater Creek floodplain have a properly working pressure cap?	☐	☐	☒
16.	Is the well secure (shut properly or locked, if applicable)?	☒	☐	☐
17.	Do the locks work properly?	☒	☐	☐
18.	Are the locks rusted?	☐	☒	☐
19.	Does surface water flow away from well casing (i.e., no ponding)?	☒	☐	☐
20.	Is TOC elevation mark clearly visible?	☒	☐	☐
21.	Has there been a change in land use that impacts the well? If yes, describe in comment section.	☐	☒	☐
22.	Will the well need any type of attention before the next groundwater surface measurement? If yes, describe in comment section.	☒	☐	☐

Comments for "NO" responses/Any other observations regarding well.

Well I.D. Marking

Lubricate Lock

Paint Protective Casing

Well Maintenance Checklist

Name of Observer(s): L. Hoover and J. King Date: 4/18/23 Time: 1328

Monitoring Well Station Identification: B53W17S ☒SLAPS ☐SLDS ☐HISS

		Yes	No	N/A
1.	Is well identification number visible on outer casing for a stick up well?	☐	☒	☐
2.	Is well identification visible on top of well casing for flush mount well?	☐	☐	☒
3.	Is well accessible?	☒	☐	☐
4.	Is well covered/surrounded by vegetation?	☐	☒	☐
5.	Is there standing water or debris inside well casing? If so, remove water.	☐	☒	☐
6.	Is the weep hole open? If not, clear blockage.	☒	☐	☐
7.	Is the protective casing dented, damaged, rusted, or covered in other matter (i.e., bird droppings)?	☐	☒	☐
8.	Is the riser casing dented or damaged?	☐	☒	☐
9.	Is the concrete pad intact (free of cracks, chips, etc.)?	☒	☐	☐
10.	Does the pad move?	☐	☒	☐
11.	Are there gaps between pad and well casing?	☐	☒	☐
12.	Are there signs of erosion around the well or pad?	☐	☒	☐
13.	Is riser cap present?	☒	☐	☐
14.	Do the wells in the Mississippi River and Coldwater Creek floodplain have a properly working pressure cap?	☒	☐	☐
15.	Do the flush mount wells in the Mississippi River and Coldwater Creek floodplain have a properly working pressure cap?	☐	☐	☒
16.	Is the well secure (shut properly or locked, if applicable)?	☒	☐	☐
17.	Do the locks work properly?	☒	☐	☐
18.	Are the locks rusted?	☐	☒	☐
19.	Does surface water flow away from well casing (i.e., no ponding)?	☒	☐	☐
20.	Is TOC elevation mark clearly visible?	☒	☐	☐
21.	Has there been a change in land use that impacts the well? If yes, describe in comment section.	☐	☒	☐
22.	Will the well need any type of attention before the next groundwater surface measurement? If yes, describe in comment section.	☒	☐	☐

Comments for "NO" responses/Any other observations regarding well.

Well I.D. Marking

Lubricate Lock

Well Maintenance Checklist

Name of Observer(s): L. Hoover and J. King Date: 4/18/23 Time: 1325

Monitoring Well Station Identification: MW31-98 ☒SLAPS ☐SLDS ☐HISS

		Yes	No	N/A
1.	Is well identification number visible on outer casing for a stick up well?	☐	☒	☐
2.	Is well identification visible on top of well casing for flush mount well?	☐	☐	☒
3.	Is well accessible?	☒	☐	☐
4.	Is well covered/surrounded by vegetation?	☐	☒	☐
5.	Is there standing water or debris inside well casing? If so, remove water.	☐	☒	☐
6.	Is the weep hole open? If not, clear blockage.	☒	☐	☐
7.	Is the protective casing dented, damaged, rusted, or covered in other matter (i.e., bird droppings)?	☐	☒	☐
8.	Is the riser casing dented or damaged?	☐	☒	☐
9.	Is the concrete pad intact (free of cracks, chips, etc.)?	☒	☐	☐
10.	Does the pad move?	☐	☒	☐
11.	Are there gaps between pad and well casing?	☐	☒	☐
12.	Are there signs of erosion around the well or pad?	☐	☒	☐
13.	Is riser cap present?	☒	☐	☐
14.	Do the wells in the Mississippi River and Coldwater Creek floodplain have a properly working pressure cap?	☒	☐	☐
15.	Do the flush mount wells in the Mississippi River and Coldwater Creek floodplain have a properly working pressure cap?	☐	☐	☒
16.	Is the well secure (shut properly or locked, if applicable)?	☒	☐	☐
17.	Do the locks work properly?	☒	☐	☐
18.	Are the locks rusted?	☐	☒	☐
19.	Does surface water flow away from well casing (i.e., no ponding)?	☒	☐	☐
20.	Is TOC elevation mark clearly visible?	☒	☐	☐
21.	Has there been a change in land use that impacts the well? If yes, describe in comment section.	☐	☒	☐
22.	Will the well need any type of attention before the next groundwater surface measurement? If yes, describe in comment section.	☒	☐	☐

Comments for "NO" responses/Any other observations regarding well.

Well I.D. Marking

Lubricate Lock

Well Maintenance Checklist

Name of Observer(s): L. Hoover and J. King Date: 4/18/23 Time: 1350

Monitoring Well Station Identification: MW32-98 ☒SLAPS ☐SLDS ☐HISS

		Yes	No	N/A
1.	Is well identification number visible on outer casing for a stick up well?	☐	☒	☐
2.	Is well identification visible on top of well casing for flush mount well?	☐	☐	☒
3.	Is well accessible?	☒	☐	☐
4.	Is well covered/surrounded by vegetation?	☐	☒	☐
5.	Is there standing water or debris inside well casing? If so, remove water.	☐	☒	☐
6.	Is the weep hole open? If not, clear blockage.	☒	☐	☐
7.	Is the protective casing dented, damaged, rusted, or covered in other matter (i.e., bird droppings)?	☐	☒	☐
8.	Is the riser casing dented or damaged?	☐	☒	☐
9.	Is the concrete pad intact (free of cracks, chips, etc.)?	☒	☐	☐
10.	Does the pad move?	☐	☒	☐
11.	Are there gaps between pad and well casing?	☐	☒	☐
12.	Are there signs of erosion around the well or pad?	☐	☒	☐
13.	Is riser cap present?	☒	☐	☐
14.	Do the wells in the Mississippi River and Coldwater Creek floodplain have a properly working pressure cap?	☒	☐	☐
15.	Do the flush mount wells in the Mississippi River and Coldwater Creek floodplain have a properly working pressure cap?	☐	☐	☒
16.	Is the well secure (shut properly or locked, if applicable)?	☒	☐	☐
17.	Do the locks work properly?	☒	☐	☐
18.	Are the locks rusted?	☐	☒	☐
19.	Does surface water flow away from well casing (i.e., no ponding)?	☒	☐	☐
20.	Is TOC elevation mark clearly visible?	☒	☐	☐
21.	Has there been a change in land use that impacts the well? If yes, describe in comment section.	☐	☒	☐
22.	Will the well need any type of attention before the next groundwater surface measurement? If yes, describe in comment section.	☒	☐	☐

Comments for "NO" responses/Any other observations regarding well.

Well I.D. Marking

Lubricate Lock

Well Maintenance Checklist

Name of Observer(s): L. Hoover and J. King Date: 4/18/23 Time: 1310

Monitoring Well Station Identification: PW35 ☒SLAPS ☐SLDS ☐HISS

		Yes	No	N/A
1.	Is well identification number visible on outer casing for a stick up well?	☐	☐	☒
2.	Is well identification visible on top of well casing for flush mount well?	☐	☒	☐
3.	Is well accessible?	☒	☐	☐
4.	Is well covered/surrounded by vegetation?	☐	☒	☐
5.	Is there standing water or debris inside well casing? If so, remove water.	☐	☒	☐
6.	Is the weep hole open? If not, clear blockage.	☐	☐	☒
7.	Is the protective casing dented, damaged, rusted, or covered in other matter (i.e., bird droppings)?	☐	☒	☐
8.	Is the riser casing dented or damaged?	☐	☒	☐
9.	Is the concrete pad intact (free of cracks, chips, etc.)?	☐	☒	☐
10.	Does the pad move?	☐	☒	☐
11.	Are there gaps between pad and well casing?	☐	☒	☐
12.	Are there signs of erosion around the well or pad?	☐	☒	☐
13.	Is riser cap present?	☒	☐	☐
14.	Do the wells in the Mississippi River and Coldwater Creek floodplain have a properly working pressure cap?	☐	☐	☒
15.	Do the flush mount wells in the Mississippi River and Coldwater Creek floodplain have a properly working pressure cap?	☒	☐	☐
16.	Is the well secure (shut properly or locked, if applicable)?	☒	☐	☐
17.	Do the locks work properly?	☒	☐	☐
18.	Are the locks rusted?	☐	☒	☐
19.	Does surface water flow away from well casing (i.e., no ponding)?	☒	☐	☐
20.	Is TOC elevation mark clearly visible?	☒	☐	☐
21.	Has there been a change in land use that impacts the well? If yes, describe in comment section.	☐	☒	☐
22.	Will the well need any type of attention before the next groundwater surface measurement? If yes, describe in comment section.	☒	☐	☐

Comments for "NO" responses/Any other observations regarding well.

Consider replacing well pad because of cracks

Well I.D. Marking

Lubricate Lock

Well Maintenance Checklist

Name of Observer(s): L. Hoover and J. King Date: 4/18/23 Time: 1312

Monitoring Well Station Identification: PW36 ☒SLAPS ☐SLDS ☐HISS

		Yes	No	N/A
1.	Is well identification number visible on outer casing for a stick up well?	☐	☒	☐
2.	Is well identification visible on top of well casing for flush mount well?	☐	☐	☒
3.	Is well accessible?	☒	☐	☐
4.	Is well covered/surrounded by vegetation?	☐	☒	☐
5.	Is there standing water or debris inside well casing? If so, remove water.	☐	☒	☐
6.	Is the weep hole open? If not, clear blockage.	☒	☐	☐
7.	Is the protective casing dented, damaged, rusted, or covered in other matter (i.e., bird droppings)?	☐	☒	☐
8.	Is the riser casing dented or damaged?	☐	☒	☐
9.	Is the concrete pad intact (free of cracks, chips, etc.)?	☒	☐	☐
10.	Does the pad move?	☐	☒	☐
11.	Are there gaps between pad and well casing?	☐	☒	☐
12.	Are there signs of erosion around the well or pad?	☐	☒	☐
13.	Is riser cap present?	☒	☐	☐
14.	Do the wells in the Mississippi River and Coldwater Creek floodplain have a properly working pressure cap?	☒	☐	☐
15.	Do the flush mount wells in the Mississippi River and Coldwater Creek floodplain have a properly working pressure cap?	☐	☐	☒
16.	Is the well secure (shut properly or locked, if applicable)?	☒	☐	☐
17.	Do the locks work properly?	☒	☐	☐
18.	Are the locks rusted?	☐	☒	☐
19.	Does surface water flow away from well casing (i.e., no ponding)?	☒	☐	☐
20.	Is TOC elevation mark clearly visible?	☒	☐	☐
21.	Has there been a change in land use that impacts the well? If yes, describe in comment section.	☐	☒	☐
22.	Will the well need any type of attention before the next groundwater surface measurement? If yes, describe in comment section.	☒	☐	☐

Comments for "NO" responses/Any other observations regarding well.

Well I.D. Marking

Lubricate Lock

Well Maintenance Checklist

Name of Observer(s): L. Hoover and J. King Date: 4/18/23 Time: 1338

Monitoring Well Station Identification: PW42 ☒SLAPS ☐SLDS ☐HISS

		Yes	No	N/A
1.	Is well identification number visible on outer casing for a stick up well?	☐	☒	☐
2.	Is well identification visible on top of well casing for flush mount well?	☐	☐	☒
3.	Is well accessible?	☒	☐	☐
4.	Is well covered/surrounded by vegetation?	☐	☒	☐
5.	Is there standing water or debris inside well casing? If so, remove water.	☐	☒	☐
6.	Is the weep hole open? If not, clear blockage.	☒	☐	☐
7.	Is the protective casing dented, damaged, rusted, or covered in other matter (i.e., bird droppings)?	☐	☒	☐
8.	Is the riser casing dented or damaged?	☐	☒	☐
9.	Is the concrete pad intact (free of cracks, chips, etc.)?	☒	☐	☐
10.	Does the pad move?	☐	☒	☐
11.	Are there gaps between pad and well casing?	☐	☒	☐
12.	Are there signs of erosion around the well or pad?	☐	☒	☐
13.	Is riser cap present?	☒	☐	☐
14.	Do the wells in the Mississippi River and Coldwater Creek floodplain have a properly working pressure cap?	☒	☐	☐
15.	Do the flush mount wells in the Mississippi River and Coldwater Creek floodplain have a properly working pressure cap?	☐	☐	☒
16.	Is the well secure (shut properly or locked, if applicable)?	☒	☐	☐
17.	Do the locks work properly?	☒	☐	☐
18.	Are the locks rusted?	☐	☒	☐
19.	Does surface water flow away from well casing (i.e., no ponding)?	☒	☐	☐
20.	Is TOC elevation mark clearly visible?	☒	☐	☐
21.	Has there been a change in land use that impacts the well? If yes, describe in comment section.	☐	☒	☐
22.	Will the well need any type of attention before the next groundwater surface measurement? If yes, describe in comment section.	☒	☐	☐

Comments for "NO" responses/Any other observations regarding well.

Well I.D, Marking

Lubricate Lock

Well Maintenance Checklist

Name of Observer(s): L. Hoover and J. King Date: 4/18/23 Time: 1332

Monitoring Well Station Identification: PW43 ☒SLAPS ☐SLDS ☐HISS

		Yes	No	N/A
1.	Is well identification number visible on outer casing for a stick up well?	☐	☒	☐
2.	Is well identification visible on top of well casing for flush mount well?	☐	☐	☒
3.	Is well accessible?	☒	☐	☐
4.	Is well covered/surrounded by vegetation?	☐	☒	☐
5.	Is there standing water or debris inside well casing? If so, remove water.	☐	☒	☐
6.	Is the weep hole open? If not, clear blockage.	☒	☐	☐
7.	Is the protective casing dented, damaged, rusted, or covered in other matter (i.e., bird droppings)?	☐	☒	☐
8.	Is the riser casing dented or damaged?	☐	☒	☐
9.	Is the concrete pad intact (free of cracks, chips, etc.)?	☒	☐	☐
10.	Does the pad move?	☐	☒	☐
11.	Are there gaps between pad and well casing?	☐	☒	☐
12.	Are there signs of erosion around the well or pad?	☐	☒	☐
13.	Is riser cap present?	☒	☐	☐
14.	Do the wells in the Mississippi River and Coldwater Creek floodplain have a properly working pressure cap?	☒	☐	☐
15.	Do the flush mount wells in the Mississippi River and Coldwater Creek floodplain have a properly working pressure cap?	☐	☐	☒
16.	Is the well secure (shut properly or locked, if applicable)?	☒	☐	☐
17.	Do the locks work properly?	☒	☐	☐
18.	Are the locks rusted?	☐	☒	☐
19.	Does surface water flow away from well casing (i.e., no ponding)?	☒	☐	☐
20.	Is TOC elevation mark clearly visible?	☒	☐	☐
21.	Has there been a change in land use that impacts the well? If yes, describe in comment section.	☐	☒	☐
22.	Will the well need any type of attention before the next groundwater surface measurement? If yes, describe in comment section.	☒	☐	☐

Comments for "NO" responses/Any other observations regarding well.

Well I.D Marking

Lubricate Lock

Paint Protective Casing

Well Maintenance Checklist

Name of Observer(s): L. Hoover and J. King Date: 4/18/23 Time: 1308

Monitoring Well Station Identification: PW44 ☒SLAPS ☐SLDS ☐HISS

		Yes	No	N/A
1.	Is well identification number visible on outer casing for a stick up well?	☐	☒	☐
2.	Is well identification visible on top of well casing for flush mount well?	☐	☐	☒
3.	Is well accessible?	☒	☐	☐
4.	Is well covered/surrounded by vegetation?	☐	☒	☐
5.	Is there standing water or debris inside well casing? If so, remove water.	☐	☒	☐
6.	Is the weep hole open? If not, clear blockage.	☒	☐	☐
7.	Is the protective casing dented, damaged, rusted, or covered in other matter (i.e., bird droppings)?	☐	☒	☐
8.	Is the riser casing dented or damaged?	☐	☒	☐
9.	Is the concrete pad intact (free of cracks, chips, etc.)?	☒	☐	☐
10.	Does the pad move?	☐	☒	☐
11.	Are there gaps between pad and well casing?	☐	☒	☐
12.	Are there signs of erosion around the well or pad?	☐	☒	☐
13.	Is riser cap present?	☒	☐	☐
14.	Do the wells in the Mississippi River and Coldwater Creek floodplain have a properly working pressure cap?	☒	☐	☐
15.	Do the flush mount wells in the Mississippi River and Coldwater Creek floodplain have a properly working pressure cap?	☐	☐	☒
16.	Is the well secure (shut properly or locked, if applicable)?	☒	☐	☐
17.	Do the locks work properly?	☒	☐	☐
18.	Are the locks rusted?	☐	☒	☐
19.	Does surface water flow away from well casing (i.e., no ponding)?	☒	☐	☐
20.	Is TOC elevation mark clearly visible?	☒	☐	☐
21.	Has there been a change in land use that impacts the well? If yes, describe in comment section.	☐	☒	☐
22.	Will the well need any type of attention before the next groundwater surface measurement? If yes, describe in comment section.	☒	☐	☐

Comments for "NO" responses/Any other observations regarding well.

Well I.D. Marking

Lubricate Lock

Well Maintenance Checklist

Name of Observer(s): L. Hoover and J. King Date: _____ Time: _____

Monitoring Well Station Identification: PW45 ☒SLAPS ☐SLDS ☐HISS

		Yes	No	N/A
1.	Is well identification number visible on outer casing for a stick up well?	☐	☒	☐
2.	Is well identification visible on top of well casing for flush mount well?	☐	☐	☒
3.	Is well accessible?	☒	☐	☐
4.	Is well covered/surrounded by vegetation?	☐	☒	☐
5.	Is there standing water or debris inside well casing? If so, remove water.	☐	☒	☐
6.	Is the weep hole open? If not, clear blockage.	☒	☐	☐
7.	Is the protective casing dented, damaged, rusted, or covered in other matter (i.e., bird droppings)?	☐	☒	☐
8.	Is the riser casing dented or damaged?	☐	☒	☐
9.	Is the concrete pad intact (free of cracks, chips, etc.)?	☒	☐	☐
10.	Does the pad move?	☐	☒	☐
11.	Are there gaps between pad and well casing?	☐	☒	☐
12.	Are there signs of erosion around the well or pad?	☐	☒	☐
13.	Is riser cap present?	☒	☐	☐
14.	Do the wells in the Mississippi River and Coldwater Creek floodplain have a properly working pressure cap?	☒	☐	☐
15.	Do the flush mount wells in the Mississippi River and Coldwater Creek floodplain have a properly working pressure cap?	☐	☐	☒
16.	Is the well secure (shut properly or locked, if applicable)?	☒	☐	☐
17.	Do the locks work properly?	☒	☐	☐
18.	Are the locks rusted?	☐	☒	☐
19.	Does surface water flow away from well casing (i.e., no ponding)?	☒	☐	☐
20.	Is TOC elevation mark clearly visible?	☒	☐	☐
21.	Has there been a change in land use that impacts the well? If yes, describe in comment section.	☐	☒	☐
22.	Will the well need any type of attention before the next groundwater surface measurement? If yes, describe in comment section.	☒	☐	☐

Comments for "NO" responses/Any other observations regarding well.

Well I.D. Marking

Lubricate Lock

Well Maintenance Checklist

Name of Observer(s): L. Hoover and J. King Date: 4/18/23 Time: 1257

Monitoring Well Station Identification: PW46 ☒SLAPS ☐SLDS ☐HISS

		Yes	No	N/A
1.	Is well identification number visible on outer casing for a stick up well?	☐	☒	☐
2.	Is well identification visible on top of well casing for flush mount well?	☐	☐	☒
3.	Is well accessible?	☒	☐	☐
4.	Is well covered/surrounded by vegetation?	☐	☒	☐
5.	Is there standing water or debris inside well casing? If so, remove water.	☐	☒	☐
6.	Is the weep hole open? If not, clear blockage.	☒	☐	☐
7.	Is the protective casing dented, damaged, rusted, or covered in other matter (i.e., bird droppings)?	☐	☒	☐
8.	Is the riser casing dented or damaged?	☐	☒	☐
9.	Is the concrete pad intact (free of cracks, chips, etc.)?	☒	☐	☐
10.	Does the pad move?	☐	☒	☐
11.	Are there gaps between pad and well casing?	☐	☒	☐
12.	Are there signs of erosion around the well or pad?	☐	☒	☐
13.	Is riser cap present?	☒	☐	☐
14.	Do the wells in the Mississippi River and Coldwater Creek floodplain have a properly working pressure cap?	☒	☐	☐
15.	Do the flush mount wells in the Mississippi River and Coldwater Creek floodplain have a properly working pressure cap?	☐	☐	☒
16.	Is the well secure (shut properly or locked, if applicable)?	☒	☐	☐
17.	Do the locks work properly?	☒	☐	☐
18.	Are the locks rusted?	☐	☒	☐
19.	Does surface water flow away from well casing (i.e., no ponding)?	☒	☐	☐
20.	Is TOC elevation mark clearly visible?	☒	☐	☐
21.	Has there been a change in land use that impacts the well? If yes, describe in comment section.	☐	☒	☐
22.	Will the well need any type of attention before the next groundwater surface measurement? If yes, describe in comment section.	☒	☐	☐

Comments for "NO" responses/Any other observations regarding well.

Well I.D. Marking

Lubricate Lock

ATTACHMENT H-2

CALENDAR YEAR 2023 FIELD LOGBOOKS FOR ENVIRONMENTAL MONITORING

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DATE: 11-17-22

FIELD CREW: Lon Hoover, Nathan Gross

WEATHER: 22° Sunny

HOG 11-17-22

WELL ID: B53WØ7,5 SAMPLE ID: SVP264417

TOTAL DEPTH: 35.5 WELL DIAMETER: 4"

SCREEN INTERVAL: 2Ø.3 - 3Ø.3 MIDDLE OF SCREEN: 25.3

STARTING WATER LEVEL: 13.74 FINAL WATER LEVEL: 14.3Ø

EVACUATION METHOD: Bladder Pump

EQUIPMENT SERIAL #'S: WLI - GLØ11672 Horiba GLØ19482

Pump Contaker - GLØ1663

PURGE START TIME: Ø949 PURGE END TIME: 1ØØ1 TOTAL VOLUME PURGED: 6ØØ

SAMPLE START TIME: 1ØØ1 SAMPLE END TIME: 1ØØ8

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
Ø949	5Ø	-	6.64	5.13	68.3	1.65	15.17	342	14.18
Ø952		15Ø	6.67	5.15	76.Ø	Ø.Ø2	14.74	335	14.16
Ø955		3ØØ	6.67	5.16	84.5	Ø.Ø8	14.72	332	14.19
Ø958		45Ø	6.67	5.18	96.Ø	Ø.Ø8	14.7Ø	329	14.22
1ØØ1		6ØØ	6.67	5.19	85.Ø	Ø.Ø8	14.71	326	14.25

NG 11-17-22

Recorded By: NG 11-17-22 QA: JMS 11/17/22

COC#: LEØ7221212Ø3-Ø5TA

DATE: 2/15/23

FIELD CREW: Lon Hoover, Nathan Gross

WEATHER: 55° Sunny

WELL ID: H135-11A SAMPLE ID: H1S265846 water only

TOTAL DEPTH: 23.5 WELL DIAMETER: 2"

SCREEN INTERVAL: 18.Ø - 23.Ø MIDDLE OF SCREEN: 21Ø

STARTING WATER LEVEL: 12.28 FINAL WATER LEVEL: ~~13.2Ø~~ 13.2Ø

EVACUATION METHOD: Peristaltic Pump

EQUIPMENT SERIAL #'S: WLI - GLØ11672 Horiba - GLØ19482

Pump - D14ØØ513

PURGE START TIME: 1150 PURGE END TIME: 1202 TOTAL VOLUME PURGED: 6ØØ

SAMPLE START TIME: 1202 SAMPLE END TIME: 1210

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1150	5Ø	-	6.97	Ø.759	5.2	4.25	16.5Ø	227	12.83
1153		15Ø	7.12	Ø.757	14.5	2.34	16.27	217	12.97
1156		3ØØ	7.13	Ø.757	17.4	2.42	16.29	216	13.01
1159		45Ø	7.13	Ø.756	19.Ø	2.12	16.33	216	13.08
1202		6ØØ	7.13	Ø.754	19.9	2.Ø3	16.34	218	13.12

NG 2/15/23

Recorded By: NG 2/15/23 QA: JMS 2/27/23

DATE: 2/15/23

FIELD CREW: Lon Hoover, Nathan Gross
NG/2-15-23

WEATHER: 58° Sunny
NG/2-15-23

DAILY TASK ACTIVITY: 0830-Met at SLAPS to load and calibrate equipment. Safety topic: Driving.
0915-Departed to collect water levels.
B53W01.5 - 10.30; B53W01D - 10.15; PW46-10.72
PW45-6.24; PW44-3.09; PW35-10.26; PW36-9.48
H1.55-19.5 - 14.30; H155-17.5 - 4.94; H155-10 - 6.11;
H155-11A - 12.28; H155-01 - 7.78; H155-06A - 7.70
HW23-9.42; HW22 - 13.20; B53W17.5 - 11.15
MW31-98 - 13.44; B53W07D - 10.30; B53W07.5 - 19.25
PW43 - 15.59; B53W06.5 - 15.34; MW32-98 - 15.39
PW42 & B53W09.5 - inaccessible due to excavation & precipitation & mud.
1100-1130 - Lunch.
1130 - Continued water levels.
1140 - Set up to sample H155-11A

Recorded By: NG 2-15-23 QA: JS. Hamm 2/22/23

DATE: 2/15/23

FIELD CREW: See pg. 56.
NG/2-15-23

WEATHER: See pg. 56.
NG/2-15-23

DAILY TASK ACTIVITY: 1215 - Completed sampling H155-11A. Continued water levels.
1325 - Completed water levels returned to SLAPS to unload and prepare for tomorrow's field work.
Did not sample B53W06.5 because of wet ballfields.

NG 2-15-23

Recorded By: NG 2-15-23 QA: JS. Hamm 2/27/23

COC#'s: LE Φ212Φ23-Φ6TA
" -Φ3ML

DATE: 2-16-23

FIELD CREW: Lon Hoover, Nathan Gross

WEATHER: 37° Cloudy

WELL ID: PW45 SAMPLE ID: SLA26,5043 Dup quadruple

TOTAL DEPTH: 22.3 WELL DIAMETER: 2"

SCREEN INTERVAL: 12.3-22.3 MIDDLE OF SCREEN: 17.3

STARTING WATER LEVEL: 6.03 FINAL WATER LEVEL: 6.86

EVACUATION METHOD: Peristaltic Pump

EQUIPMENT SERIAL #'S: WLI-GLΦ11672 Horiba-GLΦ194Z2
Pump-D14ΦΦ513

PURGE START TIME: Φ9ΦΦ PURGE END TIME: Φ915 TOTAL VOLUME PURGED: 1ΦΦΦ

SAMPLE START TIME: Φ915 SAMPLE END TIME: Φ935

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
Φ9ΦΦ	8Φ	–	6.72	1.29	36.2	5.47	13.04	291	6.Φ6
Φ9ΦΦ		24Φ	7.1Φ	1.31	29.Φ	3.6Φ	12.47	275	6.Φ6
Φ9Φ6		48Φ	7.19	1.32	33.5	3.33	12.29	27Φ	6.Φ6
Φ9Φ9		52Φ	7.23	1.32	34.7	3.23	12.16	268	6.Φ6
Φ912		76Φ	7.24	1.32	33.5	3.13	12.Φ5	266	6.Φ6
Φ915		1ΦΦΦ	7.24	1.32	35.Φ	3.ΦΦ	11.95	265	6.Φ6

NG 2-16-23

Recorded By: [signature] 2-16-23 QA: [signature] 2/22/23

COC#: 2EΦ212Φ23-Φ3ML

DATE: 2/16/23

FIELD CREW: Lon Hoover, Nathan Gross

WEATHER: 37° Cloudy

WELL ID: PW46 SAMPLE ID: SLA26584Φ9 Real + Matrix Spike

TOTAL DEPTH: 23.Φ WELL DIAMETER: 2"

SCREEN INTERVAL: 17.5-22.5 MIDDLE OF SCREEN: 2Φ.Φ

STARTING WATER LEVEL: 1Φ.36 FINAL WATER LEVEL: 1Φ.68

EVACUATION METHOD: Peristaltic Pump Horiba

EQUIPMENT SERIAL #'S: WLI-GLΦ11672 Horiba-GΦ194Z2
Pump-D14ΦΦ513

PURGE START TIME: 1ΦΦ3 PURGE END TIME: 1Φ15 TOTAL VOLUME PURGED: 6ΦΦ

SAMPLE START TIME: 1Φ15 SAMPLE END TIME: 1Φ36

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1ΦΦ3	5Φ	–	6.69	2.56	34.Φ	1.52	9.23	3Φ6	1Φ.6Φ
1ΦΦ6		15Φ	6.6Φ	2.57	31.2	1.2Φ	9.Φ1	297	1Φ.6Φ
1ΦΦ9		3ΦΦ	6.59	2.58	3Φ.Φ	Φ.92	8.96	285	1Φ.62
1Φ12		45Φ	6.59	2.59	29.4	Φ.69	8.91	275	1Φ.62
1Φ15		6ΦΦ	6.59	2.58	28.9	Φ.68	8.89	27Φ	1Φ.63

NG 2-16-23

Recorded By: [signature] 2-16-23 QA: [signature] 2/22/23

COC#'s: LEØ2212Ø23-Ø6TA
" -ØØ3ML

DATE: 2-16-23

FIELD CREW: Lon Hoover, Nathan Gross

WEATHER: 35° Cloudy

WELL ID: PW44 SAMPLE ID: SLA265347 Rec'd metals

TOTAL DEPTH: 2Ø.1 WELL DIAMETER: 2"

SCREEN INTERVAL: 1Ø.1-2Ø.1 MIDDLE OF SCREEN: 15.1

STARTING WATER LEVEL: 2.91 FINAL WATER LEVEL: 4.67

EVACUATION METHOD: Peristaltic Pump

EQUIPMENT SERIAL #'S: YSI-GLØ11672 Horiba - GLØ19482
Pump. - D14ØØ513

PURGE START TIME: 1Ø55 PURGE END TIME: 11Ø7 TOTAL VOLUME PURGED: 6ØØ

SAMPLE START TIME: 11Ø7 SAMPLE END TIME: 1Ø3Ø

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1Ø55	5Ø	-	7.Ø2	Ø.92Ø	12.5	3.22	8.37	247	3.34
1Ø58		15Ø	7.Ø7	Ø.914	16.8	2.75	8.35	247	3.52
11Ø1		3ØØ	7.Ø7	Ø.913	14.8	2.56	8.18	246	3.64
11Ø4		45Ø	7.Ø3	Ø.914	14.3	2.46	8.Ø5	244	3.79
11Ø7		6ØØ	7.Ø2	Ø.914	8.9	2.39	8.Ø3	244	3.84

NAG 2-16-23

Recorded By: NAG 2-16-23 QA: Jm S. Horn 2/22/23

DATE: 2-16-23

FIELD CREW: Lon Hoover, Nathan Gross
NAG 2-16-23

WEATHER: 40° Cloudy. - Rain over night.
NAG 2-16-23

DAILY TASK ACTIVITY: Ø83Ø - Met at SLAPS to calibrate and load equipment. Safety topic: Slips, trips, falls
Ø9ØØ - Set up to sample PW45.
Ø94Ø - Completed sampling PW45. Moved to PW46 to set up and sample.
1Ø4Ø - Completed sampling at PW46. Moved to PW44 to set up and sample.
1135 - Completed sampling PW44. Returned to SLAPS. Unloaded equipment and samples, Prepared for tomorrow.

NAG 2-16-23

Recorded By: NAG 2-16-23 QA: Jm S. Horn 2/22/23

COC#: LEΦ221Φ73-Φ7TA

DATE: 2-21-23

FIELD CREW: Lon Hoover, Nathan Gross

WEATHER: 40° Sunny

WELL ID: B53WΦ65 — SAMPLE ID: SVP26585Φ MW4 only

TOTAL DEPTH: 36.Φ — WELL DIAMETER: NBG 2-21-23 32.5 2"

SCREEN INTERVAL: 30.Φ-35.Φ — MIDDLE OF SCREEN: 32.5

STARTING WATER LEVEL: 15.2Φ — FINAL WATER LEVEL: 1Φ2Φ 6.72 Dbo 2-21-23

EVACUATION METHOD: Bladder Pump

EQUIPMENT SERIAL #'S: WJ-GLΦ11672 Horiba-GLΦ19432

Pump Controller-GLΦ11663

PURGE START TIME: ΦΦ953 — PURGE END TIME: 1Φ11 — TOTAL VOLUME PURGED: 36Φ

SAMPLE START TIME: 1Φ11 — SAMPLE END TIME: 1Φ2Φ

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
ΦΦ953	2Φ	-	6.77	1.9Φ	85.1	6.72	14.02	336	15.72
ΦΦ956	↓	6Φ	6.86	2.Φ2	12.4	3.71	13.98	331	15.87
ΦΦ959		12Φ	6.82	2.Φ5	12Φ	2.84	14.15	331	15.98
1ΦΦ2		18Φ	6.75	2.11	1Φ5	2.39	13.82	332	16.1Φ
1ΦΦ5		24Φ	6.71	2.15	87.7	2.11	13.25	333	16.2Φ
1ΦΦ8		3ΦΦ	6.69	2.17	79.5	2.18	12.85	333	16.31
1Φ11		36Φ	6.68	2.18	71.4	2.18	12.74	333	16.47

NBG 2-21-23

Recorded By: 2-21-23 — QA: 2/22/23

COC#'S: LEΦ4Φ52Φ23-Φ2TA

DATE: 4-3-23

FIELD CREW: Lon Hoover, Nathan Gross & Jared King

WEATHER: Mostly Sunny, 58°F

WELL ID: N/A — SAMPLE ID: CWC266267 CWC266269

TOTAL DEPTH: N/A — WELL DIAMETER: N/A

SCREEN INTERVAL: N/A — MIDDLE OF SCREEN: N/A

STARTING WATER LEVEL: N/A — FINAL WATER LEVEL: N/A

EVACUATION METHOD: N/A

EQUIPMENT SERIAL #'S: Horiba - GLΦ19432

4-3-23

PURGE START TIME: N/A — PURGE END TIME: N/A — TOTAL VOLUME PURGED: N/A

SAMPLE START TIME: Φ91Φ — SAMPLE END TIME: Φ92Φ

CΦ11

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
Φ9ΦΦ	N/A	N/A	6.9Φ	Φ.742	5.6	14.6Φ	13.48	3Φ2	N/A

4-3-23

Recorded By: 4/3/23 — QA: 4/7/23

DATE: 5-15-2023

FIELD CREW: Lon Hoover, Nathan Gross Witness: None

WEATHER: 66° Cloudy

WELL ID: B53W01D SAMPLE ID: SVP26921 Rad only.

TOTAL DEPTH: 96.0 WELL DIAMETER: 2

SCREEN INTERVAL: 85.0 - 95.0 MIDDLE OF SCREEN: 90.0

STARTING WATER LEVEL: 10.22 FINAL WATER LEVEL: 10.30

EVACUATION METHOD: Peristaltic Pump

EQUIPMENT SERIAL #'S: WLI- GL0011672 Pump - D1400513

Horiba - GL0 19482

PURGE START TIME: 1142 PURGE END TIME: 1157 TOTAL VOLUME PURGED: 1800

SAMPLE START TIME: 1157 SAMPLE END TIME: 1208

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1142	120	—	7.49	0.930	107	2.37	16.30	-53	10.30
1145		360	7.25	1.01	101	1.34	15.95	-120	10.30
1148		720	7.18	1.04	97.9	0.77	15.95	-145	10.30
1151		1080	7.17	1.04	79.6	0.62	15.99	-149	10.30
1154		1440	7.17	1.03	57.7	0.53	15.92	-152	10.30
1157		1800	7.17	1.03	54.6	0.47	16.01	-157	10.30

NM 5-15-2023

Recorded By: NM 5-15-23 QA: JH 5-18-23

DATE: 5-15-2023

FIELD CREW: Lon Hoover, Nathan Gross

Witness: None

NM 5-15-23

WEATHER: 71° Light rain in morning

NM / 5-15-23

DAILY TASK ACTIVITY: 0800 - Met at SLAPS to calibrate and load equipment. Safety topic: Thunderstorms.

0830 - Departed to Earth City to load remaining equipment.

0850 - Arrived at Earth City.

0900 - Departed Earth City to collect water levels.

0918 - Arrived in North County to collect water levels.

HI55-19.5 - 14.53; HI55-17.5 - 5.21; HI55-11A - 12.80; HI55-01 - 9.03; HI55-10 - 6.89; HI55-06A - 8.22; HW22 - 8.65; HW23 - 9.70; PW35 - 10.05; PW36 - 9.55; B53W01D - 10.22; B53W01S - 2.15; PW46 - 12.07; PW44 - 4.98; PW45 - 6.81; B53W17S - 10.94; MW31-98 - 13.19; MW32-98 - 14.28; B53W06S - 14.41; B53W07D - 10.25; B53W07S - 19.17; PW43 - 15.84; PW42 - 9.42; B53W09S - 16.30

Continued on pg 86.

Recorded By: NM 5-15-23 QA: JH 5-18-23

DATE: 5-15-2023

FIELD CREW: See pg. 85.
NAG 5.15.23

WEATHER: See pg. 85.
NAG 5.15.23

DAILY TASK ACTIVITY: 11:00-11:30 Lunch.
1130 - set up to sample at B53W01D and B53W01S.
1250 - Completed sampling at B53W01D and 01S. Continued water levels.
1345 - Completed water levels. Returned to SLABS. to unload samples and equipment.

NAG 5.15.23

Recorded By: NAG 5-15-23 QA: JH 5-18-23

DATE: 5-15-23

FIELD CREW: Lon Hoover, Nathan Grass, Witness: None.

WEATHER: 68° Cloudy

WELL ID: B53W01S SAMPLE ID: SVP26922 metals only

TOTAL DEPTH: 28.5 WELL DIAMETER: 2"

SCREEN INTERVAL: 22.5-27.7 MIDDLE OF SCREEN: 25.1

STARTING WATER LEVEL: 12.15 FINAL WATER LEVEL: 12.63

EVACUATION METHOD: Peristaltic Pump

EQUIPMENT SERIAL #'S: WLI - GL01167Z Pump - D1400513
Horiba - GL0119482

PURGE START TIME: 1227 PURGE END TIME: 1234 TOTAL VOLUME PURGED: 600

SAMPLE START TIME: 1234 SAMPLE END TIME: 1244

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1222	50	-	7.02	0.569	27.4	2.62	19.82	200	12.46
1225		150	6.89	0.568	27.8	2.62	19.59	190	12.47
1228		300	6.92	0.580	30.9	2.44	19.23	186	12.48
1231		450	6.90	0.580	35.5	2.40	18.75	185	12.50
1234		600	6.91	0.585	35.5	2.35	18.61	185	12.51

NAG 5-15-23

Recorded By: NAG 5-15-23 QA: JH 5-18-23

DATE: 5-16-2023

FIELD CREW: Lon Hoover, Nathan Gross

WEATHER: 60° Cloudy

WELL ID: HISS-10 SAMPLE ID: HIS266925 metals only

TOTAL DEPTH: 25.7 WELL DIAMETER: 2"

SCREEN INTERVAL: 18.7 - 23.4 MIDDLE OF SCREEN: 21.1

STARTING WATER LEVEL: 6.74 FINAL WATER LEVEL: 6.94

EVACUATION METHOD: Peristaltic Pump

EQUIPMENT SERIAL #'S: WLI - GL011672 Horiba - GL019482
Pump - D1400513

PURGE START TIME: 0956 PURGE END TIME: 1014 TOTAL VOLUME PURGED: 2700

SAMPLE START TIME: 1014 SAMPLE END TIME: 1020

FIELD PARAMETERS NAG 5-16-23

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
0956	150	-	6.69	32~~0.990~~	34.4	0.94	17.69	324	6.92
0959	|	450	7.08	309 ~~0.937~~	75.4	0.62	15.93	308	6.94
1002	|	900	7.09	0.995	74.8	0.51	15.43	303	6.94
1005	|	1350	7.13	1.00	76.7	0.44	15.23	299	6.94
1008	|	1800	7.13	0.998	62.8	0.33	15.10	297	6.94
1011	|	2250	7.14	1.00	63.1	0.30	14.95	294	6.94
1014	↓	2700	7.14	1.00	66.9	0.28	14.91	293	6.94

NAG 5-16-23

Recorded By: NAG 5-16-23 QA: 5-18-23

DATE: 5-16-2023

FIELD CREW: Lon Hoover, Nathan Gross

WEATHER: 63° Cloudy

WELL ID: B53W175' SAMPLE ID: SVP266924 4" metals only

TOTAL DEPTH: 35.5 WELL DIAMETER:

SCREEN INTERVAL: 26.3-33 MIDDLE OF SCREEN: 29.3

STARTING WATER LEVEL: 10.85 FINAL WATER LEVEL: 11.06

EVACUATION METHOD: Bladder Pump

EQUIPMENT SERIAL #'S: WLI - GL011672 Horiba - GL019482
Pump Controller - GL011663

PURGE START TIME: 1157 PURGE END TIME: 1212 TOTAL VOLUME PURGED: 750

SAMPLE START TIME: 1212 SAMPLE END TIME: 1218

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1157	50	-	6.71	5.47	42.8	4.41	15.45	337	11.01
1200	|	150	6.68	5.57	70.8	3.52	15.04	336	11.08
1203	|	300	6.67	5.58	59.8	3.16	15.20	335	11.06
1206	|	450	6.66	5.59	46.4	3.14	15.27	334	11.06
1209	|	600	6.66	5.60	46.3	3.11	15.25	332	11.06
1212	↓	750	6.66	5.60	44.2	3.09	15.21	331	11.06

NAG 5-16-23

Recorded By: NAG 5-16-23 QA: 5-18-23

DATE: 5-16-2023

FIELD CREW: Lon Hoover, Nathan Gross
Witness: None.
NAG / 5-16-2023

WEATHER: 75° Mostly cloudy.
Light rain until 0945
NAG / 5-16-2023

DAILY TASK ACTIVITY: 0815 - Met at SLAPS to calibrate and load equipment. Safety topic: Wet roads.
0915 - Departed for HW55-10 to set up and sample.
0930 - Arrived at HW55-10 to sample.
1030 - Completed sampling HW55-10
1030 - 1130 Lunch
1130 - Drove to B53W175' to set up and sample.
1225 - Completed sampling B53W175'. Returned to SLAPS to prepare for tomorrow and store samples.

NAG 5/16/2023

Recorded By: [signature] 5-16-23 QA: [signature] 5-18-23

DATE: 5-17-2023

FIELD CREW: Lon Hoover, Nathan Gross
Witness: None.
NAG / 5-17-23

WEATHER: 83° Partly Cloudy
NAG / 5-17-23

DAILY TASK ACTIVITY: 0800 - Met at SLAPS to calibrate and load equipment. Safety topic:
0845 - Departed for HW22 and HW23 to sample.
On stand by for clarification on authorization to sample due to COC witness direction from USACE.
0925 - Recieved authorization to sample.
1145 - Completed sampling HW22 and HW23.
1200-1230 Lunch
1230 - Returned to SLAPS to unload samples and equipment. Prepare for tomorrow.

NAG 5-17-23

Recorded By: [signature] 5-17-23 QA: [signature] 5-18-23

DATE: 5-17-23

FIELD CREW: Lon Hoover, Nathan Gross, Witness: None.

WEATHER: 67° Hazy

WELL ID: HW23 SAMPLE ID: Hi526692 7, -1, -2 Rec'd Metals

TOTAL DEPTH: ~~HW23 Nag 5-17-23~~ 93.5 WELL DIAMETER: 2"

SCREEN INTERVAL: 91.5 - 93.5 MIDDLE OF SCREEN: 92.5

STARTING WATER LEVEL: 9.62 FINAL WATER LEVEL: 9.83

EVACUATION METHOD: Peristaltic Pump

EQUIPMENT SERIAL #'S: WLI - GL0011672 Horiba - GL0019482
Pump - D1400513

PURGE START TIME: 0947 PURGE END TIME: 0959 TOTAL VOLUME PURGED: 960

SAMPLE START TIME: 0959 SAMPLE END TIME: 1057

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
0947	80	-	7.23	1.10	50.0	6.57	15.33	-90	9.77
0950	↓	240	7.42	1.10	63.3	5.79	15.11	-133	9.76
0953		480	7.42	1.09	39.2	5.64	15.06	-135	9.76
0956		720	7.42	1.09	45.3	5.55	15.03	-134	9.76
0959	↓	960	7.41	1.09	36.9	5.41	14.94	-132	9.78

NAG 5-17-23

Recorded By: NAG 5-17-23 QA: JH 5-18-23

DATE: 5-17-23

FIELD CREW: Lon Hoover, Nathan Gross, Witness: None.

WEATHER: 71° Clear

WELL ID: HW22 SAMPLE ID: Hi5266926 Rec'd Metals

TOTAL DEPTH: 30.0 WELL DIAMETER: 2"

SCREEN INTERVAL: 19.0 - 29.0 MIDDLE OF SCREEN: 24.0

STARTING WATER LEVEL: 13.59 FINAL WATER LEVEL: 14.06

EVACUATION METHOD: Peristaltic Pump

EQUIPMENT SERIAL #'S: WLI - GL0011672 Horiba - GL 0019482
Pump - D1400513

PURGE START TIME: 1103 PURGE END TIME: 1123 TOTAL VOLUME PURGED: 525

SAMPLE START TIME: 1123 SAMPLE END TIME: 1139

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1108	35	-	6.88	1.85	26.1	3.07	16.15	243	13.76
1111	↓	105	6.73	1.88	48.4	1.96	15.78	245	13.78
1114		210	6.70	1.90	45.4	1.68	15.55	245	13.80
1117		315	6.69	1.91	34.1	1.55	15.51	244	13.82
1120		420	6.68	1.91	31.8	1.52	15.43	244	13.84
1123	↓	525	6.68	1.91	32.0	1.41	15.30	243	13.87

NAG 5-17-23

Recorded By: NAG 5-17-23 QA: JH 5-18-23

DATE: 5-18-23

FIELD CREW: Lon Hoover, Nathan Gross

WEATHER: 65° Sunny

WELL ID: PW43 SAMPLE ID: SVP26623

TOTAL DEPTH: 25.5 WELL DIAMETER: 2"

SCREEN INTERVAL: 15.0 - 25.0 MIDDLE OF SCREEN: 20.0

STARTING WATER LEVEL: 15.97 FINAL WATER LEVEL: 16.69

EVACUATION METHOD: Peristaltic Pump

EQUIPMENT SERIAL #'S: WJ-GL011672 Horiba-GL019432
Pump-D1400513

PURGE START TIME: 0842 PURGE END TIME: 0854 TOTAL VOLUME PURGED: 600

SAMPLE START TIME: 0854 SAMPLE END TIME: 0918

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
0842	50	-	6.86	0.455	31.2	7.35	17.49	346	16.25
0845	↓	150	7.23	0.462	44.4	7.30	17.02	332	16.29
0848	↓	300	7.30	0.465	41.0	7.09	17.09	327	16.34
0851	↓	450	7.32	0.466	38.0	7.01	17.10	325	16.38
0854	↓	600	7.33	0.466	32.5	6.92	17.12	325	16.42

NAG 5-18-23

Recorded By: NAG 5-18-23 QA: 5-18-23

DATE: 5-18-23

FIELD CREW: Nathan Gross, Lon Hoover, Nick Zurweller (USACE)

NAG / 5-18-23

WEATHER: 83° Partly Cloudy

NAG / 5-18-23

DAILY TASK ACTIVITY: 0730 - Met at SLAPS to calibrate and load equipment. Safety topic: Biting/Stinging insects.

0830 - Departed to PW43 to set up and sample.

0925 - Completed sampling PW43. Drove to PW46 to set up and sample.

Well volume - Water level 12.01, 2", 23' total depth
= 1.78 gallon x 3 = 5.34 gallons

0945 - Nick Zurweller arrived to observe/witness

1035 - Completed sampling PW46. Started purging PW46 for a post 3-well volume sampling.

1120 - Nick Zurweller departed. Nick requested that we continue to monitor drawdown and field parameters.

1300 - Nick Zurweller returned.

1310 - Completed sampling PW46. Returned to SLAPS to unload samples and equipment.

Recorded By: NAG 5-18-23 QA: 5-18-23

DATE:

FIELD CREW:

WEATHER:

DAILY TASK ACTIVITY:

JK 7-6-23

Recorded By: QA:

DATE: 5-18-23

FIELD CREW: Lon Hoover, Nathan Gross

WEATHER: 70° Hazy

WELL ID: PW46 SAMPLE ID: SLA26591 7 Rad, Inorganics

TOTAL DEPTH: 23.0 WELL DIAMETER: 2"

SCREEN INTERVAL: 17.5-22.5 MIDDLE OF SCREEN: 20.0

STARTING WATER LEVEL: 12.09 FINAL WATER LEVEL: 12.39

EVACUATION METHOD: Peristaltic Pump

EQUIPMENT SERIAL #'S: WLI-GL011672 Horiba-GL019482 Pump-D14001513

PURGE START TIME: 0956 PURGE END TIME: 1014 TOTAL VOLUME PURGED: 900

SAMPLE START TIME: 1014 SAMPLE END TIME: 1035

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
0956	500	-	6.70	2.46	25.9	1.53	20.33	192	12.33
0959	↓	150	6.67	2.52	39.3	1.45	19.45	71	12.33
1002		300	6.65	2.55	35.5	1.37	19.15	62	12.33
1005		450	6.64	2.53	26.0	1.13	19.62	54	12.34
1008		600	6.64	2.54	23.0	1.06	19.52	53	12.34
1011		750	6.64	2.53	21.2	0.93	19.77	50	12.34
1014		900	6.64	2.52	20.8	0.85	19.96	50	12.34

NG 5-18-23

Recorded By: NG 5-18-23 QA: 5-18-23

DATE: 5-18-23

FIELD CREW: Lon Hoover, Nathan Gross, Nick Zurweller (USACE)

WEATHER: 75° Hazy

WELL ID: PW46 SAMPLE ID: SLA26691B Rec'd Post-3rd volume interval

TOTAL DEPTH: 23.0 NMG 5-18-23 WELL DIAMETER: 2"

SCREEN INTERVAL: 17.5-22.5 MIDDLE OF SCREEN: 20.0

STARTING WATER LEVEL: 12.39 FINAL WATER LEVEL: 13.28

EVACUATION METHOD: Peristaltic Pump

EQUIPMENT SERIAL #'S: WLI-GL0/1672 Horiba-GL0/19492
Pump-D1400513

PURGE START TIME: 1040 PURGE END TIME: 1300 TOTAL VOLUME PURGED: 21,000

SAMPLE START TIME: 1300 SAMPLE END TIME: 1300 NMG 5-18-23

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1040	150	-	None	read					
1050		1500	6.67	2.55	62.9	1.82	16.76	209	12.60
1055		2250	6.64	2.55	64.0	0.61	16.35	91	12.89
1100		3000	6.62	2.56	24.5	0.40	16.25	49	12.96
1105		3750	6.62	2.57	24.3	0.32	16.27	37	13.00
1110		4500	6.61	2.61	22.0	0.28	16.17	37	13.05
1115		5250	6.60	2.65	21.7	0.25	16.09	39	13.07
1120		6000	6.60	2.78	21.3	0.50	16.25	46	13.09
1125		6750	6.60	2.72	18.8	0.26	16.33	49	13.11
1130		7500	6.61	2.75	17.2	0.25	16.35	53	13.12
1145		9750	6.61	2.78	13.5	0.25	16.44	66	13.16
1200		12000	6.62	2.82	13.1	0.33	16.36	73	13.20
1215	↓	14250	6.62	2.79	11.9	0.29	16.57	71	13.21

continued on pg 99

Recorded By: NMG 5-18-23 QA: 5-18-23

DATE: 5-18-23

FIELD CREW: see pg. 98

WEATHER:

WELL ID: SAMPLE ID:

TOTAL DEPTH: WELL DIAMETER:

SCREEN INTERVAL: MIDDLE OF SCREEN:

STARTING WATER LEVEL: FINAL WATER LEVEL:

EVACUATION METHOD:

EQUIPMENT SERIAL #'S:

PURGE START TIME: PURGE END TIME: TOTAL VOLUME PURGED:

SAMPLE START TIME: SAMPLE END TIME:

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
	continued from pg. 98								
1230	150	16500	6.63	2.84	12.0	0.33	16.32	76	13.24
1245	NMG 5-18-23	18,750	6.63	2.85	10.4	0.26	16.73	84	13.27
1300	↓	21,000	6.63	2.82	14.9	0.24	16.36	91	13.28

NMG 5-18-23

Recorded By: NMG 5-18-23 QA: 5-18-23

COC#'s: LE06152023-03TA
" -02ML

DATE: 06/13/2023

FIELD CREW: Lon Hoover, Hannah Hutton; no witness

WEATHER: 66° Partly Cloudy

WELL ID: B16W085 SAMPLE ID: SLD266934

TOTAL DEPTH: 38.2 WELL DIAMETER: 4"

SCREEN INTERVAL: 27.9-37.9 MIDDLE OF SCREEN: 32.9

STARTING WATER LEVEL: 31.27 FINAL WATER LEVEL: 31.80

EVACUATION METHOD: bladder pump

EQUIPMENT SERIAL #'S: WLI-GLW102228, Horiba-GLW103199,
pump controller-GLW103230

PURGE START TIME: 0940 PURGE END TIME: 0957 TOTAL VOLUME PURGED: 1050

SAMPLE START TIME: 0957 SAMPLE END TIME: 1015

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
0940	70		6.97	1.17	10.7	4.90	17.09	28	32.59
0943		210	6.92	1.19	12.5	2.27	16.99	2	31.66
0946		420	6.90	1.20	12.1	1.50	16.96	-14	31.74
0949		630	6.89	1.20	11.6	1.31	16.97	-23	31.88
0952		840	6.89	1.20	11.0	1.13	17.00	-29	31.84
0955		1050	6.88	1.20	12.3	0.99	17.01	-34	31.89

HH 06/13/23

Recorded By: 06/13/2023 QA: 6-15-23

COC#'s: LE06152023-04ML
" -05TA

DATE: 6/14/2023

FIELD CREW: Lon Hoover, Jared King; no witness

WEATHER: 70° Sunny

WELL ID: HW23 SAMPLE ID: H15266955

TOTAL DEPTH: 93.5 WELL DIAMETER: 2"

SCREEN INTERVAL: 91.5-93.5 MIDDLE OF SCREEN: 92.5

STARTING WATER LEVEL: 9.74 FINAL WATER LEVEL: 9.85

EVACUATION METHOD: Peristaltic

EQUIPMENT SERIAL #'S: WLI-GLW102228 Horiba-GLW103199
Pump-D1400 5132

PURGE START TIME: 0900 PURGE END TIME: 0915 TOTAL VOLUME PURGED: 1200

SAMPLE START TIME: 0915 SAMPLE END TIME: 0945

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
0900	80	-	7.50	1.03	52.7	8.60	17.17	-39	9.85
0903		240	7.54	1.02	48.6	8.00	17.11	-102	9.85
0906		480	7.57	1.02	55.8	7.85	17.03	-117	9.85
0909		720	7.58	1.01	47.1	8.00	16.96	-121	9.85
0912		960	7.60	1.02	40.1	8.06	16.87	-123	9.85
0915		1200	7.61	1.01	39.2	7.97	16.84	-125	9.85

JK 06/14/23

Recorded By: 6-14-23 QA: 6-16-23

COC#s: LE06152023-04ML
" -05TA

DATE: 6/14/23

FIELD CREW: Lon Hoover, Jared King; No Witness

WEATHER: 70° Sunny

WELL ID: HW 22 SAMPLE ID: HIS266954

TOTAL DEPTH: 30.0 WELL DIAMETER: 2"

SCREEN INTERVAL: 19.0 - 29.0 MIDDLE OF SCREEN: 24.0

STARTING WATER LEVEL: 14.42 FINAL WATER LEVEL: 14.90

EVACUATION METHOD: Peristaltic

EQUIPMENT SERIAL #'S: WLI-GLW10228, Horiba-GLW10319

Pump-D1400 5132

PURGE START TIME: 1000 PURGE END TIME: 1015 TOTAL VOLUME PURGED: 600

SAMPLE START TIME: 1015 SAMPLE END TIME: 1040

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1000	40	-	6.75	1.81	28.0	2.51	18.43	159	14.72
1003	↓	120	6.69	1.86	30.4	1.77	17.61	160	14.75
1006		240	6.68	1.87	27.2	1.59	17.48	159	14.77
1009		360	6.68	1.87	20.8	1.46	17.51	159	14.79
1012		480	6.67	1.88	18.0	1.35	17.60	160	14.80
1015		600	6.67	1.88	18.3	1.29	17.66	161	14.82

JK 6-14-23

Recorded By: [signature] 6-14-23 QA: [signature] 6-16-23

DATE: 6-15-23

FIELD CREW: Lon Hoover, Jared King; no witness

JK 6-15-23

WEATHER: 75° Sunny

JK 6-15-23

DAILY TASK ACTIVITY: 0800 - Arrived at SLAPS to calibrate and load equipment. Morning safety topic - biologic hazards ie. chiggers.
0815 - Arrived at MW31-98, set up equipment, began micropurging.
0910 - Concluded sampling MW31-98, packed up equipment, and departed for SLAPS to see if new pump regulator has been delivered.
1000 - Departed from SLAPS to sample MW32-98. Waited at SLAPS for Equipment delivery, but after waiting for 30 minutes decided to move on.

JK 6-15-23

Recorded By: [signature] 6-15-23 QA: [signature] 6-16-23

DATE: 6/15/23

FIELD CREW: Lon Hoover ?, Jared King, No Witness

ZH 6.15.23

WEATHER: 85° F, Sunny

ZH 6.15.23

DAILY TASK ACTIVITY:

1040 - Arrive at MW32-98 to collect groundwater samples.
1025 - Set up equipment on well and begin pumping.
1035 - Begin micro-purging of MW32-98.
1105 - Complete Sampling of MW32-98. Move to SLADS trailer to off-load equipment and prepare COC's for submittal

6.15.23 ZH

Recorded By: [signature] 6/15/23

QA: [signature] 6-15-23

COC #'s: LE06152023-04ML
" -05TA

DATE: 6/14/23

FIELD CREW: Lon Hoover, Jared King; no Witness

WEATHER: 88° Sunny

WELL ID: HISS ~~175~~ 6/14/23 JK 195 SAMPLE ID: ~~HIS266952~~ 6/14/23 JK HIS266953

TOTAL DEPTH: ~~29.6~~ 6/14/23 JK 29.6 WELL DIAMETER: 4"

SCREEN INTERVAL: ~~18.3-29.6~~ 6/14/23 JK 14.3-24.3 MIDDLE OF SCREEN: ~~17.5~~ 6/14/23 JK 19.3

STARTING WATER LEVEL: 14.44 FINAL WATER LEVEL: 15.01

EVACUATION METHOD: Peristaltic

EQUIPMENT SERIAL #'S: WLT-GLW10222B Horiba-GLW10319 9
Pump-D14005132

PURGE START TIME: 1255 PURGE END TIME: 1310 TOTAL VOLUME PURGED: 900

SAMPLE START TIME: 1310 SAMPLE END TIME: 1328

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1255	~~6/14/23 JK 600~~ 600	-	6.81	1.01	89.3	3.66	22.84	-51	14.70
1258		180	6.80	1.02	89.4	1.46	21.99	-108	14.73
1301		360	6.79	1.04	69.8	1.24	21.85	-116	14.76
1304		540	6.78	1.04	59.1	1.12	21.67	-121	14.79
1307		720	6.79	1.03	45.7	0.99	21.64	-123	14.82
1310		900	6.78	1.03	44.1	0.89	21.60	-125	14.85

JK 6-14-23

Recorded By: [signature] 6-14-23

QA: [signature] 6-16-23

COC #'s: LE Φ6152Φ23-Φ7TA
" -Φ6ML

DATE: 6/15/23

FIELD CREW: Lon Hoover, Jared King; no witness

WEATHER: 72° Sunny

WELL ID: MW31-98 SAMPLE ID: SVP266963

TOTAL DEPTH: 34.Φ WELL DIAMETER: 2"

SCREEN INTERVAL: 18.4-33.4 MIDDLE OF SCREEN: 25.9

STARTING WATER LEVEL: 15.Φ7 FINAL WATER LEVEL: 15.47

EVACUATION METHOD: Peristaltic

EQUIPMENT SERIAL #'S: WLI-GLW1Φ2228 Horiba-GLW1Φ3199
Pump-D14ΦΦ5132

PURGE START TIME: Φ83Φ PURGE END TIME: Φ851 TOTAL VOLUME PURGED: 126Φ

SAMPLE START TIME: Φ851 SAMPLE END TIME: Φ9Φ9

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
Φ83Φ	6Φ	–	6.6Φ	2.35	2Φ.9	3.48	19.11	264	15.27
Φ833	↓	18Φ	6.82	2.33	37.9	1.89	18.9Φ	258	15.28
Φ836		36Φ	6.9Φ	2.32	43.6	1.66	18.62	256	15.31
Φ839		54Φ	6.94	2.31	37.Φ	1.43	18.61	255	15.32
Φ842		72Φ	6.96	2.31	14.1	1.26	18.79	25Φ	15.34
Φ845	↓	9ΦΦ	6.97	2.31	1Φ.8	1.15	18.88	248	15.35
Φ848		1Φ8Φ	6.97	2.29	9.2	1.13	18.95	245	15.36
Φ851		126Φ	6.98	2.3Φ	7.8	1.Φ8	19.ΦΦ	246	15.36

JK 6-15-23

Recorded By: 6-15-23 QA: 6-16-23

COC #'s: LE Φ6152Φ23-Φ7TA
" -Φ6ML

DATE: 6/15/23

FIELD CREW: Lon Hoover, Jared King, No Witness

WEATHER: 85° F, Sunny

WELL ID: MW32-98 SAMPLE ID: SVP266964

TOTAL DEPTH: 2Φ.3' WELL DIAMETER: 2"

SCREEN INTERVAL: 9.7' - 19.7' MIDDLE OF SCREEN: 14.7'

STARTING WATER LEVEL: 15.25' FINAL WATER LEVEL: 15.46'

EVACUATION METHOD: Peristaltic pump

EQUIPMENT SERIAL #'S: WLI = GLW1Φ2228, Horiba = GLW1Φ3199
Peristaltic Pump = D14ΦΦ5132

PURGE START TIME: 1Φ35 PURGE END TIME: 1Φ47 TOTAL VOLUME PURGED: 96Φ mL

SAMPLE START TIME: 1Φ47 SAMPLE END TIME: 11Φ5

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1Φ35	8Φ	–	7.Φ8	Φ.592	86.2	6.Φ1	2Φ.38	239	15.38
1Φ38	↓	24Φ	6.96	Φ.6Φ1	66.2	4.93	19.48	24Φ	15.41
1Φ41		48Φ	6.93	Φ.622	75.7	4.64	19.26	24Φ	15.41
1Φ44		72Φ	6.92	Φ.625	69.3	4.58	19.15	24Φ	15.43
1Φ47	↓	96Φ	6.92	Φ.626	4Φ.Φ	4.63	19.ΦΦ	239	15.44

6-15-23
JK

Recorded By: 6/15/23 QA: 6-15-23

COC #'s: LE062023-02ML
" -03TA

DATE: 6-20-23

FIELD CREW: Lon Hoover, Nathan Gross. Witness: None

WEATHER: 77° sunny

WELL ID: Hiss-11A SAMPLE ID: HIS266951 Rad metals,

TOTAL DEPTH: 23.5 WELL DIAMETER: 2"

SCREEN INTERVAL: 18.0 - 23.0 MIDDLE OF SCREEN: 21.0

STARTING WATER LEVEL: 12.43 FINAL WATER LEVEL: 13.21

EVACUATION METHOD: Peristaltic Pump

EQUIPMENT SERIAL #'S: WLT - GLW0 2228 Horiba - GLW10 3199
Pump - D14 00 5132

PURGE START TIME: 0929 PURGE END TIME: 0944 TOTAL VOLUME PURGED: 750

SAMPLE START TIME: 0944 SAMPLE END TIME: 1010

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
0929	50	-	6.65	0.736	8.9	1.47	20.38	291	12.92
0932	↓	150	6.88	0.730	19.9	1.24	19.99	287	12.97
0935		300	7.02	0.728	24.7	1.02	19.72	278	13.02
0938		450	7.03	0.727	21.8	0.91	19.69	272	13.07
0941		600	7.05	0.727	18.7	0.83	19.64	267	13.10
0944		750	7.07	0.725	16.7	0.79	19.68	264	13.13

NAG 6-20-23

Recorded By: NAG 6-20-23 QA: JLH 6-26-23

DATE: 6-20-23

FIELD CREW: Lon Hoover Nathan Gross
Witness: None
NAG / 6-20-23

WEATHER: 90° Sunny
NAG / 6-20-23

DAILY TASK ACTIVITY: 0800 - Met at SLABS to calibrate and load equipment. Safety topic: Secure loads.
0900 - Departed for Hiss-11A to set up and sample.
1015 - Completed sampling Hiss-11A. Moved to Hiss-17S to remove bladder pump and install tubing.
1115 - Completed work at Hiss-17S departed for SLABS.
1130 - Arrived at SLABS. 1130 - 1200 - lunch.
1200 - Set up to sample Hiss-06A.
1300 - Completed sampling Hiss-06A. Returned to SLABS to unload equipment and samples. Prepared COCs in SLEDS and prepared for tomorrow's sampling.

NAG 6-20-23

Recorded By: NAG 6-20-23 QA: JLH 6-26-23

DATE: 6-21-23

FIELD CREW: Lon Hoover, Nathan Gross
Witness: None
NG / 6-21-23

WEATHER: 88° Partly Cloudy
NG / 6-21-23

DAILY TASK ACTIVITY: 0800 - Met at SLAP5 to calibrate and load equipment. Safety topic: Complacency.
0830 - Departed for H155 to sample H155-10.
0935 - Completed sampling H155-10. Moved to H155-01 to sample.
1005 - Completed sampling H155-01. Moved to H155-175 to sample.
1105 - Returned to SLAP5 after completing the sampling at H155-175.
1115 - Arrived at SLAP5. Unloaded equipment and samples.
1130-1200 - Lunch.
1200 - Worked on COCs in SLAP5 and met with safety on compressed gas tank storage in Ven.
NG / 6-21-23

Recorded By: [signature] 6-21-23 QA: [signature] 6-26-23

COC #'s: LE06202023-02ML
" -03TA

DATE: 6-20-23

FIELD CREW: Lon Hoover, Nathan Gross, Witness: None.

WEATHER: 85° Sunny

WELL ID: H155-06A SAMPLE ID: H1526949 Rock & Nodules

TOTAL DEPTH: 23.3 WELL DIAMETER: 2"

SCREEN INTERVAL: 17.8-22.8 MIDDLE OF SCREEN: 20.3

STARTING WATER LEVEL: 8.82 FINAL WATER LEVEL: 8.96

EVACUATION METHOD: Peristaltic Pump

EQUIPMENT SERIAL #'S: WLT-GLW10228 Horiba-GLW103199
Pump - D14005132

PURGE START TIME: 1219 PURGE END TIME: 1237 TOTAL VOLUME PURGED: 1800

SAMPLE START TIME: 1237 SAMPLE END TIME: 1257

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1219	100	—	7.04	1.22	132	1.10	25.47	253	8.94
1222		300	7.04	1.25	87.7	0.97	24.14	245	8.95
1225		600	7.04	1.25	277	0.79	24.09	241	8.94
1228		900	7.04	1.26	348	0.81	24.05	239	8.97
1231		1200	7.05	1.26	683	0.78	24.43	237	8.95
1234		1500	7.04	1.27	373	0.81	22.91	235	8.95
1237		1800	7.04	1.26	94.9	0.71	22.77	233	8.95

NG 6-20-23

Recorded By: [signature] 6-20-23 QA: [signature] 6-26-23

COC #'s: LE Ø6212023-ØIML
" -Ø2TA

DATE: 6-21-23

FIELD CREW: Lon Hoover Nathan Gross, Witness: None

WEATHER: 74° Partly Cloudy

WELL ID: H155-1Ø SAMPLE ID: H1S266950 Rad + Metals

TOTAL DEPTH: 25.7 WELL DIAMETER: 2"

SCREEN INTERVAL: 18.7-23.4 MIDDLE OF SCREEN: 21.1

STARTING WATER LEVEL: 7.38 FINAL WATER LEVEL: 7.66

EVACUATION METHOD: Peristaltic Pump

EQUIPMENT SERIAL #'S: WLI-GLW1Ø2228 Horiba-GLW1Ø3199
Pump-D14ØØ5132

PURGE START TIME: Ø9Ø1 PURGE END TIME: Ø916 TOTAL VOLUME PURGED: 225Ø

SAMPLE START TIME: Ø916 SAMPLE END TIME: Ø93Ø

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
Ø9Ø1	15Ø	—	6.51	1,Ø3	8.6	2.38	18.1Ø	316	7.66
Ø9Ø4		45Ø	6.88	1,Ø3	14.1	Ø.92	17.88	3Ø4	7.66
Ø9Ø7		9ØØ	7.Ø1	1,Ø3	17.5	Ø.69	17.81	293	7.66
Ø91Ø		135Ø	7.Ø7	1,Ø2	15.1	Ø.53	17.58	286	7.66
Ø913		18ØØ	7.Ø9	1,Ø2	15.Ø	Ø.46	17.49	282	7.66
Ø916		225Ø	7.11	1,Ø2	11.3	Ø.42	17.52	277	7.66

NDG 6-21-23

Recorded By: [signature] 6-21-23 QA: [signature] 6-26-23

COC #'s: LE Ø6212023-ØIML
" -Ø2TA

DATE: 6-21-23

FIELD CREW: Lon Hoover, Nathan Gross, Witness: None.

WEATHER: 76° Partly Cloudy

WELL ID: H155-Ø1 SAMPLE ID: H1S266948 Rad + Metals.

TOTAL DEPTH: 25.Ø WELL DIAMETER: 4"

SCREEN INTERVAL: 19.Ø-24.Ø MIDDLE OF SCREEN: 21.5

STARTING WATER LEVEL: 1Ø.81 FINAL WATER LEVEL: 11.1Ø

EVACUATION METHOD: Peristaltic Pump

EQUIPMENT SERIAL #'S: WLI-GLW1Ø2228 Horiba-GLW1Ø3199
Pump-D14ØØ5132

PURGE START TIME: Ø946 PURGE END TIME: Ø958 TOTAL VOLUME PURGED: 144Ø

SAMPLE START TIME: Ø958 SAMPLE END TIME: 1Ø58

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
Ø946	12Ø	—	7.12	1,Ø4	3.2	6.25	2Ø.14	23Ø	1Ø.99
Ø949		36Ø	7.21	1,Ø5	15.5	4.87	19.96	225	11.Ø1
Ø952		72Ø	7.21	1,Ø5	14.8	4.66	2Ø.12	223	11.Ø2
Ø955		1Ø8Ø	7.21	1,Ø5	14.8	4.6Ø	2Ø.1Ø	222	11.Ø3
Ø958		144Ø	7.22	1.Ø5	9.2	4.53	2Ø.Ø3	221	11.Ø4

NDG 6-21-23

Recorded By: [signature] 6-21-23 QA: [signature] 6-26-23

DATE:

FIELD CREW:

WEATHER:

DAILY TASK ACTIVITY:

NAG 6-22-23

Recorded By: QA:

DATE: 6-22-23

FIELD CREW: Lon Hoover, Nathan Grass
Witness: None.
NAG 6-22-23

WEATHER: 87° Clear to Hazy
NAG 6-22-23

DAILY TASK ACTIVITY: 0800 - Met at SLAPS to calibrate and load equipment. Safety topic:
0838 - Departed to PW44 to sample.
0950 - Completed sampling PW44. Moved to PW45 to set up and sample.
1050 - Returned to SLAPS after completing the sampling at PW45. Made arrangements for a radiological survey of the samples. Prepared COCs for delivery tomorrow.

NAG 6-22-23

Recorded By: LGH 6-22-23 QA: 6-26-23

COC #'s: LE0621023-01ML
" -02TA

DATE: 6-21-23

FIELD CREW: Lan Hoover, Nathan Gross, Witness: None

WEATHER: 77° Partly Cloudy

WELL ID: H155-175 SAMPLE ID: H15266952

TOTAL DEPTH: 22.6 WELL DIAMETER: 4"

SCREEN INTERVAL: 12.3-22.3 MIDDLE OF SCREEN: 17.3

STARTING WATER LEVEL: 5.33 FINAL WATER LEVEL: 5.61

EVACUATION METHOD: Peristaltic Pump

EQUIPMENT SERIAL #'S: WLI-GLW10228 Horiba-GLW103199
Pump-D1400 5132

PURGE START TIME: 1029 PURGE END TIME: 1041 TOTAL VOLUME PURGED: 960

SAMPLE START TIME: 1041 SAMPLE END TIME: 1059

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1029	80	-	7.54	0.427	49.9	2.41	24.05	183	5.49
1032		240	7.51	0.443	38.1	2.29	22.54	186	5.51
1035		480	7.49	0.445	32.6	2.19	22.07	187	5.53
1038		720	7.48	0.456	21.7	2.19	21.26	188	5.54
1041		960	7.48	0.455	11.7	2.11	21.12	189	5.57
			NAC						
			6-21-23						

Recorded By: [signature] 6-21-23 QA: [signature] 6-26-23

COC #'s: LE0622023-03TA
" -02ML

DATE: 6-22-23

FIELD CREW: Lan Hoover, Nathan Gross, Witness: None

WEATHER: 75° Hazy

WELL ID: PW44 SAMPLE ID: SLA266945 Rec'd. 9 Metals.

TOTAL DEPTH: 20.1 WELL DIAMETER: 2"

SCREEN INTERVAL: 10.1-20.1 MIDDLE OF SCREEN: 15.1

STARTING WATER LEVEL: 6.10 FINAL WATER LEVEL: 5.82

EVACUATION METHOD: Peristaltic Pump

EQUIPMENT SERIAL #'S: WLI-GLW10228 Horiba-GLW103199
Pump-D1400 5132

PURGE START TIME: 0852 PURGE END TIME: 0913 TOTAL VOLUME PURGED: 1050

SAMPLE START TIME: 0913 SAMPLE END TIME: 0943

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
0852	50	-	6.71	0.860	16.4	1.21	20.36	236	6.48
0855		150	6.94	0.872	22.1	1.27	19.86	173	6.53
0858		300	7.00	0.869	19.5	1.15	19.86	128	6.61
0901		450	7.02	0.868	17.2	1.10	19.90	84	6.66
0904		600	7.03	0.866	13.0	1.02	20.00	35	6.71
0907		750	7.04	0.865	12.6	0.99	20.11	-29	6.73
0910		900	7.04	0.865	12.4	0.97	20.17	-7	6.77
0913		1,050	7.04	0.864	12.5	0.95	20.20	-12	6.78
			NAC						

Recorded By: [signature] 6-22-23 QA: [signature] 6-26-23

COC #'s: LE06222023 - 03TA
" - 02ML

DATE: 6-22-23

FIELD CREW: Lon Hoover, Nathan Gross, Witness: None

WEATHER: 79° Clear, Sunny

WELL ID: PW45 SAMPLE ID: SLA266946 Dup on metals

TOTAL DEPTH: 22.3 WELL DIAMETER: 2"

SCREEN INTERVAL: 12.3-22.3 MIDDLE OF SCREEN: 17.3

STARTING WATER LEVEL: 7.73 FINAL WATER LEVEL: 7.75

EVACUATION METHOD: Peristaltic Pump

EQUIPMENT SERIAL #'S: WLI - GWL 102288 Horiba - GLW10 103199
Pump - D14005132

PURGE START TIME: 1012 PURGE END TIME: 1027 TOTAL VOLUME PURGED: 2.0L

SAMPLE START TIME: 1027 SAMPLE END TIME: 1046

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1012	80	-	7.24	1.18	41.8	1.30	25.88	209	7.75
1015		240	7.27	1.19	51.5	1.02	23.07	207	7.75
1018		480	7.26	1.20	45.6	0.98	21.50	206	7.75
1021		720	7.25	1.18	35.8	0.89	20.78	204	7.75
1024		960	7.27	1.19	47.8	0.84	20.39	202	7.75
1027		1200	7.26	1.15	26.8	0.80	20.44	199	7.75

NG 6-22-23

Recorded By: NG 6-22-23 QA: JK 6-26-23

DATE:

FIELD CREW:

WEATHER:

DAILY TASK ACTIVITY:

JK 6-29-23

Recorded By: QA:

DATE: 6-26-23

FIELD CREW: Lon Hoover, Nathan Gross

Witness:

WEATHER: 87° Sunny

DAILY TASK ACTIVITY: 0800 - Met at SLAS to calibrate and load equipment. SAFETY TOPIC: work around power equipment.
0845 - Departed for PW46 to set up and sample.
1000 - Completed sampling at PW46. Moved to B53W015 to set up and sample.
1100 Completed sampling B53W015.
1100-1130 - Lunch at SLAPS.
1130 - Departed for B53W010 to sample.
1230 - Completed sampling B53W010. Returned to SLAPS to unload samples and prepare for tomorrows sampling.

NDG 6-26-23

Recorded By: [signature] 6-26-23 QA: [signature] 6-26-23

COC #: LE06262023-04TA
" -03ML

DATE: 6-26-23

FIELD CREW: Lon Hoover, Nathan Gross, Witness: None.

WEATHER: 75° Mostly Sunny.

WELL ID: PW46 SAMPLE ID: SLA266947 Replicate

TOTAL DEPTH: 23.0 WELL DIAMETER: 2"

SCREEN INTERVAL: 17.5-22.5 MIDDLE OF SCREEN: 20.0

STARTING WATER LEVEL: 15.38 FINAL WATER LEVEL: 15.79

EVACUATION METHOD: Peristaltic Pump.

EQUIPMENT SERIAL #'S: WLI- GLW10 2328 Horiba- GLW10 3199
Pump- D1400 5132

PURGE START TIME: 0910 PURGE END TIME: 0928 TOTAL VOLUME PURGED: 900

SAMPLE START TIME: 0928 SAMPLE END TIME: 0935

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
0910	500	-	6.50	2.30	0.0	2.01	20.26	315	15.53
0913		150	6.59	2.35	0.0	1.42	20.10	198	15.56
0916		300	6.60	2.34	0.0	1.17	20.46	36	15.59
0919		450	6.61	2.33	0.0	1.07	20.43	6	15.61
0922		600	6.62	2.33	0.0	1.01	20.58	-5	15.62
0925		750	6.62	2.32	0.0	0.99	20.72	-9	15.64
0928		900	6.62	2.32	0.0	0.96	20.96	-11	15.66

NDG 6-26-23

Recorded By: [signature] 6-26-23 QA: [signature] 6-26-23

COC #'s: LE0626 2023-06TA
" -05ML

DATE: 6-26-23

FIELD CREW: Lon Hoover, Nathan Gross, Witness: None

WEATHER: 78° Mostly Sunny

WELL ID: B53W01S' SAMPLE ID: SVP266957 Rad metals

TOTAL DEPTH: 28.5 WELL DIAMETER: 2"

SCREEN INTERVAL: 22.5 - 27.7 MIDDLE OF SCREEN: 25.1

STARTING WATER LEVEL: 14.33 FINAL WATER LEVEL: 14.68

EVACUATION METHOD: Peristaltic Pump

EQUIPMENT SERIAL #'S: WLI-GLW10 3228 Horiba-GLW10 3199
Pump-D1400 5132

PURGE START TIME: 1023 PURGE END TIME: 1035 TOTAL VOLUME PURGED: 600

SAMPLE START TIME: 1035 SAMPLE END TIME: 1057

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1023	50	-	7.06	0.838	16.2	4.35	22.99	242	14.61
1026		150	6.95	0.859	28.7	3.93	22.28	252	14.61
1029		300	6.93	0.867	25.3	3.79	22.06	258	14.61
1032		450	6.92	0.869	13.4	3.40	22.05	261	14.61
1035	↓	600	6.92	0.878	7.8	3.11	22.17	264	14.64

NG 6-26-23

Recorded By: NG 6-26-23 QA: 7-6-23

COC #'s: LE0626 2023-06TA
" -05ML

DATE: 6-26-23

FIELD CREW: Lon Hoover, Natha Gross, Witness: None.

WEATHER: 81° Partly Cloudy.

WELL ID: B53W01D SAMPLE ID: SVP266956 Rad metals

TOTAL DEPTH: 96.0 WELL DIAMETER: 2"

SCREEN INTERVAL: 85.0 - 95.0 MIDDLE OF SCREEN: 90.0

STARTING WATER LEVEL: 10.30 FINAL WATER LEVEL: 10.36

EVACUATION METHOD: Peristaltic Pump

EQUIPMENT SERIAL #'S: WLI-GLW10 2228 Horiba-GLW10 3199
Pump-D1400 5132

PURGE START TIME: 1150 PURGE END TIME: 1208 TOTAL VOLUME PURGED: 2060

SAMPLE START TIME: 1208 SAMPLE END TIME: 1225

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1150	120	—	7.34	0.815	76.1	2.70	25.39	-58	10.35
1153		360	7.30	0.889	59.9	1.45	22.75	-141	10.36
1156		720	7.22	0.953	61.2	0.92	20.86	-153	10.36
1159		980	7.19	0.966	51.9	0.73	20.27	-158	10.36
1202		1440	7.18	0.985	68.7	0.59	19.50	-163	10.36
1205		1700	7.17	0.991	38.5	0.52	19.46	-166	10.36
1208	↓	2060	7.16	0.993	19.2	0.49	18.93	-167	10.36

NG 6-26-23

Recorded By: NG 6-26-23 QA: 7-6-23

DATE: 6-27-23

FIELD CREW: Lon Hoover, Nathan Cross
Witness: None.
NAG/6-27-23

WEATHER: 88° Sunny
NAG/6-27-23

DAILY TASK ACTIVITY: 0800 - Met at SLAPS to calibrate and load equipment. Safety topic: Heat Stress.
0830 - Drove to PW42 to set up sample.
1000 - Completed sampling PW42. Moved to PW43 to set up and sample.
1215 - Completed sampling PW43. Returned to SLAPS.
1230-1330 - Lunch
1330 - Unloaded samples, prepared COCs in SLEDS, and prepared for tomorrows sampling.

NAG 6-27-23

Recorded By: NAG 6-27-23 QA: [signature] 7-6-23

DATE: 6/28/23

FIELD CREW: Lon Hoover & Jared King
Witness: None
ZH 6.28.23

WEATHER: 78°F, Mostly Sunny
ZH 6.28.23

DAILY TASK ACTIVITY: 0800 - Meet at SLAPS to load equipment and calibrate instrument. Safety Topic = driving safety.
0830 - Arrive at B53W095 to sample for Rad & metals (groundwater).
0945 - Complete sampling of B53W095. Moving to B53W175.
1015 - Arrive at B53W175 to sample groundwater for Rad & metals.
1058 - Complete sampling of B53W175. Move to SLAPS to offload equipment and samples.

ZH 6.28.23

Recorded By: [signature] 6.28.23 QA: [signature] 7-6-23

COC#'s: LE06272023-02ML
" -03TA

DATE: 6-27-23

FIELD CREW: Lon Hoover, Nathan Gross, Witness: None.

WEATHER: 73° Sunny

WELL ID: PW42 SAMPLE ID: SVP266967

TOTAL DEPTH: 85.1 WELL DIAMETER: 2"

SCREEN INTERVAL: 83.0 - 85.0 MIDDLE OF SCREEN: 84.0

STARTING WATER LEVEL: 9.67 FINAL WATER LEVEL: 13.33

EVACUATION METHOD: Peristaltic Pump

EQUIPMENT SERIAL #'S: WLI-GLW02228 Horiba-GLW03199
Pump-D1400S132

PURGE START TIME: 0856 PURGE END TIME: 0917 TOTAL VOLUME PURGED: 735

SAMPLE START TIME: 0917 SAMPLE END TIME: 0955

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
0856	35	-	6.91	~~3.22~~ 0.608 NM 6-27-23	6.4	3.61	20.57	328	10.89
0859	|	105	7.36	0.606	0.0	1.09	20.42	282	11.06
0902	|	210	7.41	0.604	0.0	1.77	20.48	88	11.23
0905	|	315	7.46	0.604	0.0	1.63	20.47	-24	11.38
0908	|	420	7.48	0.606	0.0	1.55	20.40	-56	11.53
0911	|	525	7.49	0.605	0.0	1.41	20.48	-74	11.67
0914	|	630	7.50	0.607	0.0	1.39	20.53	-85	11.82
0917	↓	~~735~~ 735	7.50	0.607	0.0	1.31	20.63	-91	11.93

NM 6-27-23

NM 6-27-23

Recorded By: NM 6-27-23 QA: 7-6-23

COC#: LE06272023-04TD
" -03TA

DATE: 6-27-23

FIELD CREW: Lon Hoover, Nathan Gross, Witness: None

WEATHER: 77° Sunny

WELL ID: PW43 SAMPLE ID: SVP266968, -1, -2 Dup Analysis

TOTAL DEPTH: 25.5 WELL DIAMETER: 2"

SCREEN INTERVAL: 15.0 - 25.0 MIDDLE OF SCREEN: 20.0

STARTING WATER LEVEL: 17.38 FINAL WATER LEVEL: 19.00

EVACUATION METHOD: Peristaltic Pump

EQUIPMENT SERIAL #'S: see pg. 58.
NM 6-27-23

PURGE START TIME: 1015 PURGE END TIME: 1030 TOTAL VOLUME PURGED: 750

SAMPLE START TIME: 1030 SAMPLE END TIME: 1209

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1015	50	-	6.82	0.562	29.4	6.56	24.45	245	17.62
1018	|	150	6.72	0.575	26.0	1.37	23.08	250	17.67
1021	|	300	6.69	0.585	24.3	1.23	22.29	251	17.71
1024	|	450	6.68	0.587	19.2	1.14	22.29	252	17.74
1027	|	600	6.67	0.589	8.5	1.07	22.23	252	17.78
1030	↓	750	6.67	0.592	0.0	1.09	21.72	252	17.83

NM 6-27-23

Recorded By: NM 6-27-23 QA: 7-6-23

COC#'s: LE Φ6292Φ23 - Φ3TA
" -Φ2ML

DATE: 6/28/23

FIELD CREW: Lon Hoover & Jared King No Witness

WEATHER:

WELL ID: 1H BB53WΦ95 SAMPLE ID: SUP 2669Φ1

TOTAL DEPTH: 36' WELL DIAMETER: 2"

SCREEN INTERVAL: 3Φ - 35' MIDDLE OF SCREEN: 32.5'

STARTING WATER LEVEL: 16.59' FINAL WATER LEVEL: 17.13'

EVACUATION METHOD: Bladder Pump Micro purging

EQUIPMENT SERIAL #'S: WLI = GLW1Φ2223 Horiba = GLW1Φ3199
Pump = MP1Φ-3936

PURGE START TIME: Φ852 PURGE END TIME: Φ916 TOTAL VOLUME PURGED: 7ΦΦ mL

SAMPLE START TIME: Φ916 SAMPLE END TIME: Φ945

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
Φ852	3Φ	—	6.75	1.Φ3	3Φ.Φ	2.59	19.22	324	17.07
Φ855		9Φ	6.86	1.Φ2	32.Φ	1.45	19.Φ1	298	17.11
Φ858		18Φ	6.89	1.Φ2	28.8	1.12	19.Φ2	229	17.1Φ
Φ9Φ1		27Φ	6.91	1.Φ2	237	1.Φ6	19.14	142	17.13
Φ9Φ4		36Φ	6.92	1.Φ2	19.9	Φ.93	19.23	78	17.12
Φ9Φ7		45Φ	6.93	1.Φ2	17.(	Φ.85	19.23	48	17.12
Φ91Φ		54Φ	6.94	1.Φ2	17.1	Φ.81	19.27	32	17.12
Φ913		61Φ	6.94	1.Φ2	15.7	Φ.86	19.28	25	17.09
Φ916	↓	7ΦΦ	6.94	1.Φ2	14.8	Φ.83	19.27	21	17.09

6.28.23 JH

Recorded By: Lon G. Hoover 6/28/23 QA: 7-6-23

DATE: 6/29/23

FIELD CREW: Lon Hoover & Jared King No Witness

1H 6.29.23

WEATHER: Mostly Sunny, 86°F

1H 6.29.23

DAILY TASK ACTIVITY: Φ8ΦΦ - Arrive at SLAPS to calibrate and load sampling equipment. Safety Topic = Heat awareness.
Φ83Φ - Arrive at B53WΦ7D to sample for Rad & Metals (groundwater).
Φ924 - Complete sampling of B53WΦ7D. Move to next location.
Φ94Φ - Arrive at B53WΦ65 to sample for Rad & Metals (groundwater).
112Φ - Complete sampling of B53WΦ65. Move to SLAPS for off-load of samplers & equipment.

6.29.23 JH

Recorded By: Lon G. Hoover 6/29/23 QA: 7-6-23

DATE: 7/3/23

FIELD CREW: Lon Hoover & Jared King No witness

ZH 7.3.23

WEATHER: Mostly Sunny, 80° F

ZH 7.3.23

DAILY TASK ACTIVITY: 0900 - Meet at SLAPS. Load equipment & calibrate instrument(s). Safety Topic = Traffic safety near roadsides.
0910 - Arrive at PW35/PW36 to sample both wells for Rad.& metals. Starting with PW35.
1045 - Complete sampling of PW35. Begin set-up on PW36 for sampling.
1134 - Complete sampling of PW36. Moving back to SLAPS to off-load equipment and store samples.

7.3.23
ZH

Recorded By: Lon S. Hoover 7/7/23 QA: 7-6-23

COC #'s: LE06292023-02ML
" -03TA

DATE: 6/28/23

FIELD CREW: Lon Hoover & Jared King

WEATHER: 75°F, Mostly Cloudy & slight sprinkle of rain.

WELL ID: B53W175 SAMPLE ID: SVP266962

TOTAL DEPTH: 35.5' WELL DIAMETER: 4"

SCREEN INTERVAL: 20.3' - 30.3' MIDDLE OF SCREEN: 25.3'

STARTING WATER LEVEL: 13.18' FINAL WATER LEVEL: ~~13.18~~ ZH 6.28.23 13.61'

EVACUATION METHOD: Bladder pump micropurging

EQUIPMENT SERIAL #'S: WLI = GLW10 2223 Horiba = GLW10 3199
Pump Controller = MP10 3936

PURGE START TIME: 1031 PURGE END TIME: 1049 TOTAL VOLUME PURGED: 900 mL

SAMPLE START TIME: 1049 SAMPLE END TIME: 1058

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1031	50	—	6.72	5.21	55.3	2.34	18.59	262	13.45
1034		150	6.64	5.38	45.8	1.47	18.18	264	13.49
1037		300	6.61	5.38	33.1	1.27	17.90	265	13.51
1040		450	6.60	5.40	28.7	1.07	17.78	264	13.51
1043		600	6.59	5.42	30.4	0.87	17.59	262	13.53
~~1045~~ 1046 ZH 6.28.23		750	6.59	5.42	22.7	0.80	17.67	261	13.53
1049		900	6.59	5.42	22.3	0.75	17.77	259	13.53

ZH
6.28.23

Recorded By: Lon S. Hoover 6.28.23 QA: 6-30-23

COC #'s: LE06292023-04ML
" -05TA

DATE: 6.29.23

FIELD CREW: Lon Hoover & Jared King Witness: None

WEATHER: Mostly Sunny 86°F

WELL ID: B53W07D SAMPLE ID: SVP266959

TOTAL DEPTH: 89.0' WELL DIAMETER: 2"

SCREEN INTERVAL: 77.5 - 87.5' MIDDLE OF SCREEN: 82.5'

STARTING WATER LEVEL: 10.47' FINAL WATER LEVEL: 10.52'

EVACUATION METHOD: Peristaltic Micro-purging

EQUIPMENT SERIAL #'S: WLI = GLW10X228 Horiba = GLW10X3199

Pump = D14005132

PURGE START TIME: 0842 PURGE END TIME: 0906 TOTAL VOLUME PURGED: 1080 mL

SAMPLE START TIME: ~~0844~~ 0906 SAMPLE END TIME: 0924

6.29.23

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
0842	400	-	7.04	1.03	98.6	2.26	19.18	239	10.51
0845	↓	1200	7.20	1.04	126.0	0.64	18.74	-152	10.52
0848		2400	7.18	1.04	110	0.51	18.95	-164	10.51
0851		3600	7.16	1.04	99.1	0.45	18.83	-166	10.51
0854		6000	7.13	1.04	85.6	0.40	18.83	-168	10.51
0857		7200	7.12	1.04	70.7	0.34	18.93	-169	10.51
0900		8400	7.12	1.04	64.4	0.30	18.89	-169	10.51
0903		9600	7.12	1.04	54.5	0.28	18.85	-169	10.51
0906	↓	10800	7.11	1.04	43.2	0.28	18.98	-169	10.51

6.29.23

Recorded By: Lon S. Hoover 6/29/23 QA: 7-6-23

COC #'s: LE06292023-04ML
" -05TA

DATE: 6/29/23

FIELD CREW: Lon Hoover & Jared King No witness

WEATHER: Mostly Sunny, 86°F

WELL ID: B53W065 SAMPLE ID: SVP266958

TOTAL DEPTH: 36' WELL DIAMETER: 2"

SCREEN INTERVAL: 30'-35' MIDDLE OF SCREEN: 32.5'

STARTING WATER LEVEL: 15.34' FINAL WATER LEVEL:

EVACUATION METHOD: Bladder Pump Micropurging

EQUIPMENT SERIAL #'S: WLI = GLW10X2228 Horiba = GLW10X3199

Pump Controller = D14005132

PURGE START TIME: 1015 PURGE END TIME: 1027 TOTAL VOLUME PURGED: 240 mL

SAMPLE START TIME: 1027 SAMPLE END TIME: 1120

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1015	200	-	7.19	1.90	27.8	4.74	28.46	190	15.81
1018		600	7.12	1.93	28.8	4.58	28.45	204	15.89
1021	↓	1200	7.05	1.95	23.8	4.08	29.43	215	15.94
1024		1800	7.01	1.97	24.0	3.70	28.44	224	15.99
1027	↓	2400	6.97	1.98	23.8	3.63	28.53	229	16.04

6.29.23

Recorded By: Lon S. Hoover 6/29/23 QA: 6/30/23

DATE: 7/6/23

FIELD CREW: Lon Hoover & Jared King No witness

ZH 7.6.23

WEATHER: Mostly Sunny, 78°F

ZH 7.6.23

DAILY TASK ACTIVITY: 0800 - Meet at SLAPS. Load equipment and calibrate Horiba water quality meter. Safety topic = Sun exposure
0840 - Arrive at B53W075 to sample for Rad & metals (groundwater)
1012 - Complete sampling of B53W075. Move to SLAPS to off-load equipment and prepare sample(s) for submittal

7.6.23
ZH

Recorded By: JWS. Hall 6/6/23 QA: [signature] 7-10-23

DATE:

FIELD CREW:

WEATHER:

DAILY TASK ACTIVITY:

ZH 7.6.23

Recorded By: QA:

COC #'s: LE07052023-02ML
" -03TA

DATE: 7/3/23

FIELD CREW: Lon Hoover & Jared King No witness

WEATHER: Mostly Sunny, 80°F

WELL ID: PW35 SAMPLE ID: SVP266965

TOTAL DEPTH: 115' WELL DIAMETER: 2"

SCREEN INTERVAL: 100' - 114.9' MIDDLE OF SCREEN: 107.5'

STARTING WATER LEVEL: 10.22' FINAL WATER LEVEL: 11.16'

EVACUATION METHOD: Peristaltic pump micro-purge.

EQUIPMENT SERIAL #'S: WLI = GLW10 2228 Horiba = GLW10 3199

Pump = D1400 5132

PURGE START TIME: 0941 PURGE END TIME: 0959 TOTAL VOLUME PURGED: 540 mL

SAMPLE START TIME: ~~0944~~ 0959 SAMPLE END TIME: 1045

2H 7.3.23

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
0941	300	—	7.80	1.53	18.6	7.60	27.06	249	10.79
0944		90	7.89	1.50	23.7	7.58	27.17	231	10.81
0947		180	7.91	1.48	32.1	7.64	27.25	218	10.85
0950		270	7.93	1.46	40.1	7.73	27.40	188	10.82
0953		360	7.95	1.48	42.2	7.41	27.69	167	10.80
0956		450	7.98	1.48	39.1	7.67	27.95	156	10.83
0959	↓	540	7.99	1.45	41.7	7.47	29.01	148	10.86

7.3.23

2H

Recorded By: Lon S. Hoover 7/3/23 QA: J. King 7.10-23

COC #'s: LE07052023-02ML
" -03TA

DATE: 7/3/23

FIELD CREW: Lon Hoover & Jared King No witness

WEATHER: Mostly Sunny, 80°F

WELL ID: PW36 SAMPLE ID: SVP266966

TOTAL DEPTH: 88' WELL DIAMETER: 2"

SCREEN INTERVAL: 83' - 87.9' MIDDLE OF SCREEN: 85.5'

STARTING WATER LEVEL: 9.64' FINAL WATER LEVEL: 9.70

EVACUATION METHOD: Peristaltic Pump Micro-purging

EQUIPMENT SERIAL #'S: WLI = GLW10 2228 Horiba = GLW10 3199

Pump = D1400 5132

PURGE START TIME: 1104 PURGE END TIME: 1122 TOTAL VOLUME PURGED: 5400 mL

SAMPLE START TIME: 1122 SAMPLE END TIME: 1134

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1104	300	—	8.00	0.233	157	2.21	22.59	180	9.69
1107		900	7.73	0.201	132	1.30	21.48	52	9.70
1110		1800	7.59	0.189	178	1.07	20.86	-24	9.70
1113		2700	7.49	0.186	149	0.93	20.71	-49	9.70
1116		3600	7.44	0.183	126	0.89	20.43	-58	9.70
1119		4500	7.40	0.179	102	0.83	20.22	-64	9.70
1122	↓	5400	7.38	0.177	97.1	0.76	20.16	-67	9.70

7.3.23

2H

Recorded By: Lon S. Hoover 7/3/23 QA: 7-7-23

COC #'s: LE 07062023 01 ML
" - 02TA

DATE: 7/6/23

FIELD CREW: Lon Hoover & Jared King No witness

WEATHER: Mostly Sunny, 78°F

WELL ID: B53W075 SAMPLE ID: SVP26696 0

TOTAL DEPTH: 36' WELL DIAMETER: 2"

SCREEN INTERVAL: 30' - 35' MIDDLE OF SCREEN: 32.5'

STARTING WATER LEVEL: 20.14' FINAL WATER LEVEL: 20.76'

EVACUATION METHOD: Peristaltic pump micro purg.

EQUIPMENT SERIAL #'S: WLI = GLW10 2228 Horiba = GLW10 3199
Pump = D14005132

PURGE START TIME: 0918 PURGE END TIME: 0930 TOTAL VOLUME PURGED: 180 mL

SAMPLE START TIME: ~~0915~~ 0930 SAMPLE END TIME: 1012

LH 7.6.23

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
0918	15	-	6.75	1.47	29.0	4.50	22.90	320	20.71
0921		45	6.86	1.45	26.3	2.12	22.13	315	20.73
0924		90	6.89	1.43	18.4	1.54	22.18	308	20.74
0927		135	6.90	1.43	14.5	1.48	22.09	306	20.74
0930		180	6.90	1.43	13.5	1.58	21.95	305	20.74

7.6.23
LH

Recorded By: Lon S. Hoover 7/6/23 QA: 7-10-23

DATE: 8/28/23

FIELD CREW: Lon Hoover, Nathan Grass, Witness: None.
NG 8/28/23

WEATHER: 82° Sunny
NG 8/28/23

DAILY TASK ACTIVITY: 0800 - Met at SLAPS to calibrate and load equipment. Safety topic: Driving
0845 - Departed for Earth City to pick up remainder of the equipment. NG 8/28/23
0900 - Arrived at Earth City. Loaded equipment.
0915 - Departed for North County.
0930 - Arrived in North County. Started collecting water levels. B53W01,5 - 14.93; B53W01D - 10.40; PW46 - 15.33; PW45 - 7.45; PW44 - 6.41; PW35 - 9.92 PW36 - 9.80; MW31-98 - 17.46; MW32-98 - 16.73; B53W06S - 16.02; B53W07D - 10.60; B53W07,5 - 20.66 PW43 - 18.55; PW42 - 10.09; B53W09,5 - 16.28 B53W17,5 - 14.58; H155-19S - 14.53; H155-11A - 13.04 H155-10 - 7.40; H155-01 - 10.42; H155-06A - 8.64 H155-17S - 7.00; HW22 - 14.86; HW23 - 9.88
1130 Completed water levels. Daily activities continued in the HSD CWC daily logbook.

Recorded By: NG 8/28/23 QA: Lon S. Hoover 09/05/23

DATE: 8/29/23

FIELD CREW: Lon Hoover, Nathan Gross
Witness: None.

NG 8-29-23

WEATHER: 87° Sunny

NG 8-29-23

DAILY TASK ACTIVITY: 0800 - Met at SLAP5 to calibrate and load equipment. Safety topic: Chiggers.
0825 - Drove to PW46 to set up and sample.
Well diameter - 2", Water level - 15.44', total depth - 23'
One well volume - 1.23 gallons, 3 well volumes - 3.69 gals.
3.69 gallons = 13968.17 mL. Approximately, 14,000 mL purged prior to sampling the high flow sample.
1035 - Completed sampling PW46. Returned to SLAP5.
1100 - 1730 - Lunch.
Daily activities continued in the HSD CWC daily logbook.

NG 8-29-23

Recorded By: NG 8-29-23 QA: LH 9/5/23

DATE: 8/29/23

FIELD CREW: Lon Hoover, Nathan Grass, Witness: None.

WEATHER: 67° Sunny

WELL ID: PW46 SAMPLE ID: SLA269585 Rod micropurge

TOTAL DEPTH: 23.0 WELL DIAMETER: 2"

SCREEN INTERVAL: 17.5-22.5 MIDDLE OF SCREEN: 20.0

STARTING WATER LEVEL: 15.44 FINAL WATER LEVEL: 15.97

EVACUATION METHOD: Peristaltic Pump

EQUIPMENT SERIAL #'S: WLI - GLW10223 Horiba - GLW10319
Pump - D1400 5132

PURGE START TIME: 08:43 PURGE END TIME: 0906 TOTAL VOLUME PURGED: 900

SAMPLE START TIME: 0906 SAMPLE END TIME: 0924

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
0849	50	—	6.49	2.55	16.3	1.99	19.56	10	15.59
0851		150	6.58	2.55	7.1	1.14	19.55	-47	15.63
0854		300	6.59	2.55	8.5	0.88	19.58	-57	15.69
0857		450	6.60	2.55	7.9	0.70	19.46	-59	15.74
0900		600	6.60	2.54	8.9	0.65	19.74	-59	15.79
0903		750	6.60	2.55	5.4	0.71	20.13	-58	15.80
0906		900	6.61	2.54	2.9	0.72	20.33	-56	15.83

NG 8/29/23

Recorded By: NG 8/29/23 QA: LH 9/5/23

DATE: 8/29/23

FIELD CREW: Lon Hoover, Nathan Gross, Witness: None.

WEATHER: 78° Sunny.

WELL ID: PW46 SAMPLE ID: SLA269586 Radonly 3x well volume

TOTAL DEPTH: 23.0' WELL DIAMETER: 2"

SCREEN INTERVAL: 17.5 - 22.5 MIDDLE OF SCREEN: 20.0

STARTING WATER LEVEL: 16.13 FINAL WATER LEVEL: 17.08

EVACUATION METHOD: Peristaltic Pump

EQUIPMENT SERIAL #'S: WLI - GLW10222B Horiba - GLW103199
Pump - D1400513Z

PURGE START TIME: 0928 PURGE END TIME: 1025 TOTAL VOLUME PURGED: 14,200

SAMPLE START TIME: 1025 SAMPLE END TIME: 1031

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
0928	200	2800	6.70	2.56	0.0	2.48	19.89	-23	16.13
0931		3400	6.62	2.58	2.6	0.77	19.53	-27	16.23
0934		4000	6.62	2.59	2.7	0.58	19.46	-22	16.29
0937		4600	6.61	2.61	5.6	0.46	19.54	-16	16.34
0940		5200	6.61	2.61	2.2	0.40	19.62	-13	16.38
0955		8200	6.61	2.65	0.0	0.34	19.76	-10	16.53
1010		11200	6.59	2.76	0.0	0.31	19.86	-9	16.71
1025		14,200	6.59	2.83	0.0	0.33	20.07	-8	16.94

NDG 8-29-23

Recorded By: [signature] 8-29-23 QA: [signature] 9/5/23

DATE: 8/30/23

FIELD CREW: Lon Hoover, Nathan Gross, Witness: None.

WEATHER: 71° Sunny

WELL ID: HW23 SAMPLE ID: HA526591 Matrix only

TOTAL DEPTH: 93.5 WELL DIAMETER: 2"

SCREEN INTERVAL: 91.5 - 93.5 MIDDLE OF SCREEN: 92.5

STARTING WATER LEVEL: 9.90 FINAL WATER LEVEL: 10.07

EVACUATION METHOD: Peristaltic Pump

EQUIPMENT SERIAL #'S: WLI - GLW10222B Horiba - GLW103199
Pump - D1400513Z

PURGE START TIME: 0949 PURGE END TIME: 1010 TOTAL VOLUME PURGED: 1680

SAMPLE START TIME: 1010 SAMPLE END TIME: 1015

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
0949	80	-	6.79	1.09	17.8	7.68	17.37	150	10.01
0952		240	7.22	1.10	30.7	4.29	16.92	-113	10.02
0955		480	7.31	1.09	35.7	3.92	16.62	-133	10.03
0958		720	7.33	1.09	38.0	3.76	16.49	-136	10.04
1001		960	7.34	1.09	37.7	3.54	16.37	-137	10.05
1004		1200	7.35	1.08	36.2	3.44	16.27	-138	10.06
1007		1440	7.35	1.09	28.3	3.29	16.20	-138	10.07
1010		1680	7.36	1.04	20.6	3.22	16.28	-138	10.07

NDG 8/30/23

Recorded By: [signature] 8/30/23 QA: [signature] 9/5/23

DATE: 8-30-23

FIELD CREW: Lon Hoover, Nathan Gross
Witness: None.

WEATHER: 82° Sunny

DAILY TASK ACTIVITY: 0800 - Met at SLAPS to calibrate and load equipment. Safety topic: Gas station.
0850 - Departed to get fuel (E-85) for the van.
0915 - Completed fueling van. Departed for HIS'S to sample.
0930 - Arrived at HW22 + HW23 to set up and sample.
11 00 - Completed sampling HW22 and HW23. Returned to SLAPS.
1115 - Arrived at SLAPS.
1130 - Daily activities continued in the H5D CWC daily logbook.

NG 8-30-23

Recorded By: NG 8-30-23 QA: Jon S. Hoover 9/5/23

DATE:

FIELD CREW:

WEATHER:

DAILY TASK ACTIVITY:

JH 9.5.23

Recorded By: QA:

DATE: 8/30/23

FIELD CREW: Lon Hoover, Nathan Gross, Witness: None.

WEATHER: 73° Sunny.

WELL ID: HW22 SAMPLE ID: HW269590 Rec & Metals

TOTAL DEPTH: 30.0 WELL DIAMETER: 2"

SCREEN INTERVAL: 19.0-29.0 MIDDLE OF SCREEN: 24.0

STARTING WATER LEVEL: 15.08 FINAL WATER LEVEL: 15.61

EVACUATION METHOD: Peristaltic Pump

EQUIPMENT SERIAL #'S: WLT-GLW10228 Horiba-GLW10319 9 Pump-D1400 5132

PURGE START TIME: 1029 PURGE END TIME: 1044 TOTAL VOLUME PURGED: 525

SAMPLE START TIME: 1044 SAMPLE END TIME: 1106

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1029	35	-	7.00	2.21	10.3	2.59	17.03	173	15.41
1032		105	6.68	2.25	11.0	1.98	16.72	182	15.48
1035		210	6.64	2.26	10.7	1.77	16.78	189	15.52
1038		315	6.62	2.24	10.7	1.63	16.96	196	15.53
1041		420	6.62	2.24	9.1	1.58	16.96	203	15.55
1044		525	6.61	2.25	9.1	1.50	16.95	209	15.56

NV 8-30-23

Recorded By: [signature] 8/30/23 QA: Lon Hoover 9/5/23

DATE: 8/31/23

FIELD CREW: Lon Hoover, Nathan Gross, Witness: None.

WEATHER: 62° Sunny

WELL ID: PW43 SAMPLE ID: SUP269588 metals only

TOTAL DEPTH: 25.5 WELL DIAMETER: 2"

SCREEN INTERVAL: 15.0-25.0 MIDDLE OF SCREEN: 20.0

STARTING WATER LEVEL: 18.58 FINAL WATER LEVEL: 19.90

EVACUATION METHOD: Peristaltic Pump

EQUIPMENT SERIAL #'S: WLT-GLW10228 Horiba-GLW10319 9 Pump-D1400 5132

PURGE START TIME: 0857 PURGE END TIME: 0915 TOTAL VOLUME PURGED: 900

SAMPLE START TIME: 0915 SAMPLE END TIME: 0922

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
0857	50	-	6.45	0.687	41.1	3.41	19.63	368	18.79
0900		150	6.62	0.690	29.7	1.48	19.16	354	18.85
0903		300	6.66	0.690	31.5	1.25	18.95	349	18.90
0906		450	6.66	0.687	24.8	1.08	18.92	347	18.95
0909		600	6.67	0.685	14.9	1.00	18.99	344	19.00
0912		750	6.67	0.685	8.6	0.96	19.09	342	19.03
0915		900	6.67	0.689	6.6	0.94	19.14	340	19.10

NV 8-31-23

Recorded By: [signature] 8-31-23 QA: Lon Hoover 9/5/23

DATE: 8/31/23

FIELD CREW: Lon Hoover, Nathan Gross, Witness: None.

WEATHER: 64° Sunny

WELL ID: B53 W 175 SAMPLE ID: SWP269587 Metals only

TOTAL DEPTH: 35.5 WELL DIAMETER: 4"

SCREEN INTERVAL: 20.3 - 30.3 MIDDLE OF SCREEN: 25.3

STARTING WATER LEVEL: 14.72 FINAL WATER LEVEL: 15.08

EVACUATION METHOD: Bladder Pump.

EQUIPMENT SERIAL #'S: WLI - GLW10222B Horiba GLW10319 9

Pump Controller - D1400 5132

PURGE START TIME: 0940 PURGE END TIME: 0955 TOTAL VOLUME PURGED: 750

SAMPLE START TIME: 0955 SAMPLE END TIME: 1000

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
0940	500	-	6.56	5.67	12.8	3.29	17.28	328	15.08
0943		150	6.57	5.69	14.2	1.46	17.36	327	15.08
0946		300	6.58	5.72	18.3	1.03	17.36	325	15.08
0949		450	6.58	5.73	11.1	0.82	17.37	324	15.08
0952		600	6.59	5.73	3.4	0.70	17.43	322	15.08
0955		750	6.59	5.73	0.0	0.66	17.44	321	15.08

NG 8-31-23

Recorded By: [signature] 8-31-23 QA: [signature] 9/5/23

DATE: 8-31-23

FIELD CREW: Lon Hoover, Nathan Gross
Witness: None.

NG/8-31-23

WEATHER: 80° Sunny

NG/8-31-23

DAILY TASK ACTIVITY: 0800 - Met at SLOPS to calibrate and load equipment. Safety topic: Working around movers.
0845 - Drove to PW43 to set up and sample.
0925 - Completed sampling PW43. Moved to B53W175 to set up and sample.
1005 - Completed sampling B53W175. Returned to SLOPS. Worked on COCs and logbooks.
1100 - 1130 - Lunch
1130 - Daily log continued in the H50 CWC daily logbook.

NG 8-31-23

Recorded By: [signature] 8-31-23 QA: [signature] 9/5/23

DATE: 9-5-23

FIELD CREW: Nathan Grass, Jareel King, Witness: None

WEATHER: 78° Cloudy

WELL ID: HISS-10 SAMPLE ID: H15269589 Metals only

TOTAL DEPTH: 25.7 WELL DIAMETER: 2"

SCREEN INTERVAL: 18.7 - 23.4 MIDDLE OF SCREEN: 21.1

STARTING WATER LEVEL: 8.12 FINAL WATER LEVEL: 8.48

EVACUATION METHOD: Peristaltic Pump

EQUIPMENT SERIAL #'S: WLT - GLW10222 Horiba - GLW10319 Pump - D14005132

PURGE START TIME: 0957 PURGE END TIME: 1018 TOTAL VOLUME PURGED: 3150

SAMPLE START TIME: 1018 SAMPLE END TIME: 1023

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
0957	150	–	6.69	0.991	12.6	1.27	19.55	371	8.40
1000	|	450	7.00	0.990	22.3	0.80	19.35	356	8.42
1003	|	900	7.07	0.990	20.8	0.65	19.36	345	8.41
1006	|	1350	7.11	0.989	15.3	0.52	19.31	341	8.43
1009	|	1800	7.13	0.989	11.9	0.45	19.24	337	8.43
1012	|	2250	7.14	0.987	8.8	0.37	18.94	334	8.46
1015	|	2700	7.15	0.987	7.5	0.33	18.90	331	8.49
1018	⊥	3150	7.15	0.987	3.2	0.30	18.91	329	8.49

NAG 9-5-23

Recorded By: NAG 9-5-23 QA: Jan E. Horn 9/5/23

DATE: 9-5-23

FIELD CREW: Nathan Grass, Jareel King
Witness: None

NAG 9-5-23

WEATHER: 90° Cloudy

NAG 9-5-23

DAILY TASK ACTIVITY: 0800 - Met at SLOPS to load and calibrate equipment. Safety topic: Working with contractors and Sub-contractors.

0845 - Departed for Earth City to pick up new Horiba and calibration fluid.

0900 - Returned to SLOPS.

0915 - Arrival at SLOPS. Completed calibration.

0930 - Departed for HISS-10 to set up and sample.

0940 - Arrived at HISS-10.

1035 - Completed sampling at HISS-10. Returned to SLOPS to prep new bladder pumps and have lunch.

1130. Daily log continued in the HSD CWC Daily log book.

NAG 9-5-23

Recorded By: NAG 9-5-23 QA: Jan E. Horn 9/5/23

COC: LE11022023-03 ML
LE11022023-04TA

DATE: 11/2/23

FIELD CREW: Lon Hoover ; Jared King Witness: none

WEATHER: Mostly Sunny, 38°F

WELL ID: HISS-06A SAMPLE ID: HIS20712B

TOTAL DEPTH: 23.3' WELL DIAMETER: 2"

SCREEN INTERVAL: 17.8'-22.8' MIDDLE OF SCREEN: 20.3'

STARTING WATER LEVEL: 9.52' FINAL WATER LEVEL: 9.68'

EVACUATION METHOD: Micro purging with peristaltic pump.

EQUIPMENT SERIAL #'S: Horiba = GLW1003285, WLI = GLW1003228,
Peristaltic pump = D1400 5132

PURGE START TIME: 0844 PURGE END TIME: 0959 TOTAL VOLUME PURGED: 8400 mL

SAMPLE START TIME: 0959 SAMPLE END TIME: 1015

900mL removed before purging began.

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (mS/cm) ~~(µS/cm)~~	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
0844	100	100	6.81	1.27	149	4.67	16.56	240	9.68
0847		300	6.91	1.27	134	2.71	16.52	233	9.68
0850		600	6.96	1.27	118	1.91	16.51	225	9.68
0853		900	6.97	1.27	94.7	1.67	16.40	222	9.68
0856		1200	6.98	1.27	56.2	1.44	16.24	219	9.68
0859		1500	6.98	1.27	45.4	1.38	16.20	217	9.68
0902		1800	6.98	1.27	34.6	1.28	16.08	215	9.68
0905		2100	6.98	1.27	28.7	1.19	16.17	213	9.68
0914		3000	6.97	1.28	17.9	1.14	16.09	211	9.68
0923		3900	6.98	1.28	11.6	1.05	16.20	208	9.68
0932		4800	6.97	1.28	7.9	0.98	16.22	206	9.68
0941		5700	6.98	1.28	6.4	0.93	16.24	203	9.68
0950		6600	6.98	1.29	5.9	0.89	16.23	199	9.68
0959		7500	6.98	1.28	5.4	0.86	16.30	198	9.68

Recorded By: Jon S. Hoover 11/2/23 QC: ~~Hannah Hotter~~ 11/7/23

COC: LE11022023-05 ML
LE11022023-06 ML

DATE: 11/2/23

FIELD CREW: Lon Hoover ; Jared King Witness: none

WEATHER: Mostly Sunny, 43°F

WELL ID: MW32-98 SAMPLE ID: SUP270122

TOTAL DEPTH: 20.3' WELL DIAMETER: 2"

SCREEN INTERVAL: 9.7'-19.7' MIDDLE OF SCREEN: 14.7'

STARTING WATER LEVEL: 17.99' FINAL WATER LEVEL: 18.16'

EVACUATION METHOD: Micro purging with Peristaltic pump.

EQUIPMENT SERIAL #'S: Horiba = GLW1003285, WLI = GLW1003228,
Peristaltic pump = D1400 5132

PURGE START TIME: 1045 PURGE END TIME: 1103 TOTAL VOLUME PURGED: 2200 mL

SAMPLE START TIME: 1103 SAMPLE END TIME: 1122

616 mL removed before purging began

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (mS/cm) ~~(µS/cm)~~	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1045	88	—	6.76	1.30	29.4	5.58	15.22	201	18.03
1048		264	6.72	1.28	27.6	2.21	15.17	198	18.07
1051		528	6.71	1.27	26.4	1.50	15.10	196	18.09
1054		792	6.74	1.27	24.7	1.34	15.06	194	18.10
1057		1056	6.76	1.26	23.1	1.28	15.02	192	18.11
1100		1320	6.76	1.25	24.6	1.18	15.05	191	18.12
1103		1584	6.76	1.25	23.4	1.11	15.03	190	18.13

11.2.23 KH

Recorded By: Jon S. Hoover 11/2/23 QC: ~~Hannah Hotter~~ 11/7/23

COC: LE11022023-07ML
LE11022023-08TA

DATE: 11/2/23

FIELD CREW: Lon Hoover & Jared King Witness: none

WEATHER: Mostly Sunny, 43°F

WELL ID: PW45 SAMPLE ID: S2A27Φ111

TOTAL DEPTH: 22.3' WELL DIAMETER: 2"

SCREEN INTERVAL: 12.3' - 22.3' MIDDLE OF SCREEN: 17.3'

STARTING WATER LEVEL: 9.18' FINAL WATER LEVEL: 9.2Φ

EVACUATION METHOD: Micro purge with Peristaltic pump.

EQUIPMENT SERIAL #'S: Horiba = GLW1Φ3285, WLI = GLW1Φ3228, Peristaltic pump = D14ΦΦ5132

PURGE START TIME: 12Φ3 PURGE END TIME: 1336 TOTAL VOLUME PURGED: 8Φ34

SAMPLE START TIME: 1336 SAMPLE END TIME: 1356

88Φ mL removed before purging began

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
12Φ3	8Φ	-	7.14	1.17	Φ.9	2.88	16.77	185	9.2Φ
12Φ6		24Φ	7.2Φ	1.14	Φ.7	2.1Φ	17.Φ2	175	9.3Φ
12Φ9		48Φ	7.21	1.11	Φ.7	1.81	17.11	171	9.2Φ
1212		72Φ	7.22	1.Φ9	Φ.8	1.66	17.18	168	9.2Φ
1215		96Φ	7.22	1.Φ6	Φ.8	1.48	17.24	166	9.2Φ
1218		12ΦΦ	7.25	1.Φ2	Φ.7	1.31	17.3Φ	162	9.2Φ
1221		144Φ	7.26	1.Φ2	Φ.8	1.3Φ	17.34	162	9.2Φ
1224		168Φ	7.27	1.Φ1	Φ.7	1.26	17.4Φ	16Φ	9.2Φ
1236		264Φ	7.3Φ	Φ.963	Φ.8	1.11	17.51	153	9.2Φ
1248		362Φ	7.32	Φ.944	Φ.4	1.Φ4	17.6Φ	149	9.2Φ
13ΦΦ		458Φ	7.3Φ	Φ.936	Φ.3	1.ΦΦ	17.6Φ	146	9.2Φ
1312		554Φ	7.31	Φ.931	Φ.1	Φ.98	17.67	144	9.2Φ
1324		65ΦΦ	7.34	Φ.929	Φ.2	Φ.98	17.66	141	9.2Φ
1336		746Φ	7.32	Φ.923	Φ.1	Φ.99	17.68	139	9.2Φ

Recorded By: Lon S. Hoover 11/2/23 QA: Hanna Hutton 11/7/23

COC: LE11092023-02TA
LE11092023-01ML

DATE: 11/6/23

FIELD CREW: Lon Hoover & Jared King Witness: Nick Zoweller

WEATHER: Mostly Sunny, 7Φ°F

WELL ID: HISS-Φ1 SAMPLE ID: HIS27Φ127 (-1 & -2)

TOTAL DEPTH: 25' WELL DIAMETER: 4"

SCREEN INTERVAL: 19' - 24' MIDDLE OF SCREEN: 21.5'

STARTING WATER LEVEL: 11.32 FINAL WATER LEVEL: 12.29'

EVACUATION METHOD: Micro purging with peristaltic pump.

EQUIPMENT SERIAL #'S: Horiba = GLW1Φ3285, WLI = GLW1Φ3228, Peristaltic pump = D14ΦΦ5132

PURGE START TIME: Φ941 PURGE END TIME: 1145 TOTAL VOLUME PURGED: ~~37,405 mL~~ 34,705 mL

SAMPLE START TIME: 1145 SAMPLE END TIME: 1155

288Φ mL

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
Φ941	175	-	6.82	1.34	3.5	7.Φ1	~~7.26~~ 19.48	252	11.58
Φ944	175	525	6.99	1.34	3.4	2.28	19.12	235	11.63
Φ947	22Φ	1185	7.Φ1	1.34	4.1	1.73	18.66	232	11.7Φ
Φ95Φ	22Φ	1845	7.Φ2	1.34	4.4	1.3Φ	18.49	229	11.80
Φ953	22Φ	3825	7.Φ3	1.34	4.1	1.2Φ	18.48	229	11.86
Φ956	25Φ	4575	7.Φ3	1.34	4.1	1.Φ7	18.33	227	11.93
Φ959	25Φ	5325	7.Φ2	1.34	4.9	1.ΦΦ	18.29	225	11.98
1Φ02	25Φ	675	7.Φ2	1.34	5.2	Φ.94	18.32	224	12.Φ3
1Φ05	25Φ	6825	7.Φ2	1.34	5.Φ	Φ.9Φ	18.33	223	12.Φ6
1Φ15	25Φ	~~9525~~	7.ΦΦ	1.34	4.4	Φ.87	18.39	219	12.14
1Φ25	25Φ	11825	7.Φ2	1.34	7.7	Φ.78	18.45	215	12.18
1Φ35	25Φ	14325	7.Φ2	1.34	7.4	Φ.72	18.51	212	12.22
1Φ45	25Φ	16875	7.Φ2	1.34	1Φ.5	Φ.66	18.55	2Φ9	12.25
1Φ55	25Φ	19325	7.Φ2	1.33	2.8	Φ.69	18.53	2Φ5	12.25

Recorded By: Lon S. Hoover 11/6/23 QA: ~~11/07/23~~ 11/16/23

COC: LE11092023-01ML
LE11092023-02TA

DATE: 11/6/23

FIELD CREW: Lon Hoover & Jared King Witness: Nick Zorn

WEATHER: Mostly Sunny, 74°F

WELL ID: HISS-01 (cont.) SAMPLE ID: HIS270127(-1;-2)

TOTAL DEPTH: 25' WELL DIAMETER:

SCREEN INTERVAL: 19'-24' MIDDLE OF SCREEN: 21.5'

STARTING WATER LEVEL: 11.32 FINAL WATER LEVEL: 12.29'

EVACUATION METHOD: Micro purging with peristaltic pump.

EQUIPMENT SERIAL #'S: See pg. # 39.

ZH 11.6.23

PURGE START TIME: 0941 PURGE END TIME: 1145 TOTAL VOLUME PURGED: 34,705 mL

SAMPLE START TIME: 1145 SAMPLE END TIME: 1155

Continued from pg. # 39 (HISS-01)

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (mS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1105	250	21825	7.03	1.34	3.8	0.64	18.58	203	12.26
1115	250	24325	7.03	1.34	2.9	0.63	18.59	200	12.29
1125	250	26825	7.03	1.34	2.5	0.61	18.60	199	12.29
1135	250	29225	7.03	1.34	3.0	0.60	18.65	198	12.29
1145	250	34725	7.03	1.34	3.1	0.60	18.66	196	12.29

ZH 11.6.23

Recorded By: Lon S. Hoover 11/6/23 QA: Hannah Hutton 11/14/23

DATE: 11/2/23

FIELD CREW: Lon Hoover & Jared King Witness: none

ZH 11.2.23

WEATHER: Mostly Sunny, 38°F

ZH 11.2.23

DAILY TASK ACTIVITY: 0800 - Meet at SLAPS to calibrate Horiba and load equipment for groundwater sampling at HISS. Safety topic = Slips, trips, and falls. Be aware of footpaths.
0830 - Arrive at HISS-06A to sample for Rad. & Metals.
0835 - Begin pumping of HISS-06A @ 100 mL/min.
0844 - Begin purging of HISS-06A.
0959 - Complete purging of HISS-06A and begin sampling.
1019 - Complete sampling of HISS-06A and move to next sampling location.
1032 - Arrive at MW32-98 to sample for Rad. & metals.
1 well volume = (20.3' - 17.99')(0.16)(3785) = 1398 mL
1038 - Begin pumping of MW32-98 @ 88 mL/min.
1045 - Begin purging of MW32-98.
1103 - Complete purging of MW32-98 and begin sampling.
1122 - Complete sampling of MW32-98. Break for lunch.

Recorded By: Lon S. Hoover 11/2/23 QA: Hannah Hutton 11/7/23

DATE: 11/2/23

FIELD CREW: Lon Hoover, Jaird King Witness: none

2/H 11.2.23

WEATHER: Mostly Sonny, 43°F

7/H 11.7.23

DAILY TASK ACTIVITY:

1141- Arrive at PW45 to sample for Rad.'s metals.

1152- Begin pumping PW45e 80 mL/min.

1 well volume = (22.3 - 9.18)(0.16)(3785) = 7945 mL

1203 - Began purging PW45.

1376 - Complete purging of PW45 and begin Sampling.

1356 - Complete sampling of PW45 and move to SCAV trailer to secure samples and off-load equipment.

11.2.23

2/H

Recorded By: Jon E. Hoover 11/2/23 QA: Hannah Hutton 11/7/23

COC: LE11092023-13TA
LE 11092023-12ML

DATE: 11/7/2023

FIELD CREW: Hannah Hutton and Lon Hoover witness: none

WEATHER: partly cloudy 70°F

WELL ID: HISS-17S SAMPLE ID: HIS270132

TOTAL DEPTH: 22.6 WELL DIAMETER: 4"

SCREEN INTERVAL: 12.3 - 22.3 MIDDLE OF SCREEN: 21.0

STARTING WATER LEVEL: 7.84 FINAL WATER LEVEL: 8.67

EVACUATION METHOD: micropurge with peristaltic pump

EQUIPMENT SERIAL #'S: HORIBA = GLW103285, WLI = GLW103288, peristaltic pump = D14005132

PURGE START TIME: 0835 PURGE END TIME: ~~1056~~ M 11/7/23 1057 TOTAL VOLUME PURGED: 36580

SAMPLE START TIME: ~~1050~~ M 11/7/23 1057 SAMPLE END TIME: 1104

4 mL removed before purging began FIELD PARAMETERS continued on page 44

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (mS/cm) (µS/cm) 11.7.23 7/H	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV).	Water Level (ft/BTOC)
0835	250	10800	6.95	.437	6.5	7.09	18.88	263	8.14
0838	250	18300	7.41	.437	7.1	6.34	18.77	245	8.22
0841	250	25800	7.58	.436	6.6	6.02	18.74	234	8.29
0844	250	33300	7.63	.436	6.5	5.78	18.73	227	8.34
0847	250	40800	7.64	.436	6.2	5.58	18.72	224	8.37
0850	250	48300	7.64	.437	5.8	5.49	18.72	223	8.42
0853	250	55800	7.62	.438	4.7	4.91	18.70	223	8.43
0856	250	63300	7.57	.441	5.0	4.10	18.68	224	8.46
0859	250	70800	7.54	.442	4.3	3.41	18.67	225	8.48
0902	250	78300	7.51	.443	4.3	3.03	18.66	226	8.49
0905	250	85800	7.50	.444	4.1	2.72	18.64	226	8.51
0925	250	135800	7.44	.443	3.5	3.00	18.60	223	8.58
0945	250	185800	7.40	.441	3.3	~~18.58~~ M 11/7/23 1154	18.58	218	8.62
1005	250	235800	7.38	.441	3.9	1.20	18.60	210	8.64

Recorded By: 11/07/2023 QA:

DATE: 11/07/2023

FIELD CREW: Hannah Hutton and Lon Hoover witness: none

WEATHER: partly cloudy 70°F

WELL ID: HISS-17S SAMPLE ID: HIS270132

TOTAL DEPTH: 22.6 WELL DIAMETER: 4"

SCREEN INTERVAL: 12.3 - 22.3 MIDDLE OF SCREEN: 21.0

STARTING WATER LEVEL: 7.84 FINAL WATER LEVEL: 8.67

EVACUATION METHOD: micropurge with peristaltic pump

EQUIPMENT SERIAL #'S: Horiba: GLW103285. WLI: GLW103228.
peristaltic pump: D14005132

PURGE START TIME: 0835 (H 11/7/23) PURGE END TIME: ~~1056~~ (H 11/7/23) 1057 TOTAL VOLUME PURGED: 36,580

SAMPLE START TIME: ~~1050~~ 1057 SAMPLE END TIME: 1104

Continued from page 43

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (mS/cm) ~~(µS/cm)~~	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1025	250	28580	7.36	.441	3.9	3.49	18.69	202	8.63
1045	250	33580	7.35	.439	3.9	0.93	18.69	195	8.65
(H 11/7/23) ~~1056~~ 1057	250	36580	7.34	.439	4.5	.85	18.74	192	8.66

(H 11/7/23)

Recorded By: [signature] 11/07/23 QA:

COC: LE11092023-11TA
LE11092023-10mL

DATE: 11/07/2023

FIELD CREW: Hannah Hutton and Lon Hoover witness: none

WEATHER: sunny 70°F

WELL ID: PW44 SAMPLE ID: SLA270110

TOTAL DEPTH: 20.1 WELL DIAMETER: 2"

SCREEN INTERVAL: 10.1 - 20.1 MIDDLE OF SCREEN: 15.1

STARTING WATER LEVEL: 6.62 FINAL WATER LEVEL: 8.26

EVACUATION METHOD: micropurge with peristaltic pump

EQUIPMENT SERIAL #'S: Horiba: GLW103285 WLI: GLW103228,
peristaltic pump: D14005132

PURGE START TIME: 1233 PURGE END TIME: 1331 TOTAL VOLUME PURGED: 8255

SAMPLE START TIME: 1331 SAMPLE END TIME: (H 11/7/23) 1346

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (mS/cm) ~~(µS/cm)~~	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1233	100	1080	7.07	.783	8.3	12.12	19.66	192	6.79
1236	100	~~1580~~ 1180	7.00	.796	10.2	2.85	19.10	159	6.82
1239	125	1755	6.99	.795	8.7	1.73	18.94	135	6.86
1242	125	2130	6.99	.798	12.2	1.33	18.86	117	6.92
1245	125	2505	6.98	.794	7.6	1.11	18.82	105	6.99
1248	125	2880	6.98	.792	7.4	.99	18.78	95	7.08
1251	125	3255	6.98	.791	8.1	.96	18.78	90	7.18
1254	125	3630	6.98	.791	7.5	1.12	18.90	87	7.28
1257	125	4005	7.00	.791	8.8	1.28	18.84	85	7.50
1307	125	5255	6.98	.792	7.6	3.34	18.94	85	7.75
1317	125	6505	7.02	.792	6.2	1.40	19.05	79	7.88
1327	125	7755	7.02	.793	5.4	1.27	19.00	70	8.03
1331	125	8255	7.02	.792	5.8	1.26	19.00	65	8.09

(H 11/07/23)

Recorded By: [signature] 11/07/23 QA:

DATE: 11/6/23

FIELD CREW: Lon Hoover & Jared King Witness: Nick Zorweller

ZH 11.6.23

WEATHER: Mostly Sunny, 70°F

ZH 11.6.23

DAILY TASK ACTIVITY:

0905 - Arrive at HISS-01 to sample for Rad. & metals.

1 well volume = 25' - 11.32' = 13.68 ft. x 3785 mL = 63,134 mL ~~41,036 mL~~

0917 - Begin pumping of HISS-01 @ 120 mL/min.

0941 - Begin to adjust flow rate on HISS-01.

0956 - Complete adjustment of HISS-01. Settled at 250 mL/min

1 well volume = 25' - 11.32' = 13.68' x 0.65 = 8.89 gal x 3785 mL = 33,656 mL.

1145 - Begin sampling of HISS-01.

1155 - Complete sampling of HISS-01. Return to SLAPS to secure samples and off-load equipment.

11-6-23

ZH

Recorded By: Lon E. Hoover 11/6/23 QA: Hannah Hutton 11/07/23

DATE: 11/07/2023

FIELD CREW: Hannah Hutton and Lon Hoover witness: none

HH 11/7/23

WEATHER: partly cloudy, 70°F

HH 11/7/23

DAILY TASK ACTIVITY: ~~0800~~ HH 11/7/23 0900 meet at SLAPS to calibrate HORIBA and load equipment for groundwater sampling at HISS. safety topic - railroad safety. 0830 arrive at HISS-175 to sample for rad and metals 1 well volume = (22.6' - 7.84')(.65)(3785) = 36,313 mL

0830 begin pumping HISS-175 at 80 mL/min

0831 adjusted purge rate to 250 mL/min

0835 begin purging of HISS-175

1057 ~~1056~~ HH 11/7/23 complete purging of HISS-175 and begin sampling

1104 complete sampling of HISS-175 and return to SLAPS for lunch

1219 arrive at PW44 to sample for rad and metals

1 well volume = (20.1 - 6.62)(.16)(3785) = 8,163 mL

1228 begin pumping PW44 at 50 mL/min

1229 adjusted purge rate to 100 mL/min

1233 begin purging of PW44

1236 adjusted purge rate to 125

Recorded By: [signature] 11/07/2023 QA: Lon S. Hoover 11/8/23

COC: LE11092023-09TA
LE11092023-08ML

DATE: 11/08/2023

FIELD CREW: Hannah Hutton and Lon Hoover witness: none

WEATHER: 66°f mostly sunny

WELL ID: HISS 11A SAMPLE ID: HIS270131

TOTAL DEPTH: 23.5 WELL DIAMETER: 2"

SCREEN INTERVAL: 18 - 23 MIDDLE OF SCREEN: 21

STARTING WATER LEVEL: 13.20 FINAL WATER LEVEL: 14.57

EVACUATION METHOD: micropurge with peristaltic pump

EQUIPMENT SERIAL #'S: Horiba: GLW103285. WLI: GLW103228.
peristaltic pump: D14005132

PURGE START TIME: 0840 PURGE END TIME: 0940 TOTAL VOLUME PURGED: 6250

SAMPLE START TIME: 0940 SAMPLE END TIME: 0956

*350mL removed before purging began FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (~~uS/cm~~ mS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
0840	100	350*	6.67	.707	5.8	3.02	19.20	281	13.7
0843	100	~~300~~ 650	6.99	.711	8.5	1.79	18.93	262	13.95
0846	100	950	7.02	.711	8.1	1.48	18.93	257	14.02
0849	100	1250	7.04	.712	5.0	1.26	18.89	253	14.13
0852	100	1550	7.05	.712	4.8	1.12	18.90	251	14.21
0855	100	1850	7.05	.711	4.1	1.06	18.90	249	14.29
0858	100	2150	7.05	.712	3.1	.98	18.87	247	14.34
~~0858~~	100	2450	7.05	.712	3.0	.94	18.85	246	14.35
0912	100	3450	7.06	.712	2.7	1.15	18.86	239	14.49
0922	100	4450	7.06	.713	3.0	.81	18.91	235	14.53
0932	100	5450	7.06	.712	2.1	1.01	18.90	229	14.56
0940	100	6250	7.06	.712	2.3	.82	19.01	226	14.56
			HH 11/08/23						

Recorded By: Hannah Hutton QA: Lon S. Hoover 11/08/23

COC: LE11092023-09TA
LE11092023-08ML

DATE: 11/08/2023

FIELD CREW: Hannah Hutton and Lon Hoover witness: none

WEATHER: 66°f mostly sunny

WELL ID: HW22 SAMPLE ID: HIS270134

TOTAL DEPTH: 30.0 WELL DIAMETER: 2"

SCREEN INTERVAL: 19.0 - 29.0 MIDDLE OF SCREEN: 24.0

STARTING WATER LEVEL: 14.35 FINAL WATER LEVEL: 15.28

EVACUATION METHOD: micropurge with peristaltic pump

EQUIPMENT SERIAL #'S: Horiba: GLW103285 WLI: GLW103228,
peristaltic pump: D14005132

PURGE START TIME: 1018 PURGE END TIME: 1140 TOTAL VOLUME PURGED: 9496

SAMPLE START TIME: 1140 SAMPLE END TIME: 1156

*475 removed before purging began FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (~~uS/cm~~ mS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1018	110	475*	6.79	2.20	10.5	3.95	18.06	260	14.71
1021	110	805	6.65	2.24	10.9	2.70	17.34	260	14.79
1024	110	1135	6.63	2.27	10.3	2.35	17.21	259	14.84
1027	110	1465	6.63	2.27	8.9	2.12	17.09	258	14.89
1030	110	1795	6.62	2.27	8.1	1.97	17.08	256	14.93
1033	110	2125	6.62	2.27	6.7	1.88	17.18	254	14.97
1036	110	2455	6.61	2.27	6.4	1.82	17.18	253	15.000
1039	110	2785	6.61	2.27	6.6	1.78	17.04	251	15.02
1050	110	3995	6.61	2.27	5.5	1.75	17.09	246	15.08
1101	110	5205	6.61	2.28	4.9	1.73	17.13	243	15.14
1112	110	6415	6.60	2.28	4.7	1.75	17.20	240	15.17
1123	110	7625	6.60	2.29	4.5	1.81	17.35	238	15.22
1134	110	8835	6.60	2.29	4.5	1.84	17.64	235	15.24
1140	110	9496	6.60	2.29	4.4	1.79	17.61	234	15.25

Recorded By: Hannah Hutton 11/08/23 QA: Lon S. Hoover 11/8/23

COC: LE11092023-07TA
LG # 11127123 LE11092023-06ML

DATE: 11/08/23

FIELD CREW: Hannah Hutton and Ian Hoover witness: none

WEATHER: 70°F sunny

WELL ID: PW43 SAMPLE ID: SVP270126

TOTAL DEPTH: 25.5 WELL DIAMETER: 2"

SCREEN INTERVAL: 15 - 25 MIDDLE OF SCREEN: 20

STARTING WATER LEVEL: 19.18 FINAL WATER LEVEL: 20.35

EVACUATION METHOD: micropurge with peristaltic pump

EQUIPMENT SERIAL #'S: Horiba: GLW103285 WLI: GLW103228
peristaltic pump: D14005132

PURGE START TIME: 1335 PURGE END TIME: 1418 TOTAL VOLUME PURGED: 3850

SAMPLE START TIME: 1418 SAMPLE END TIME: 1434

*625 mL removed before purging began FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (mS/cm) ~~(µS/cm)~~	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1335	75	625*	6.95	.713	20.5	2.91	24.84	240	19.47
1338	75	850	6.88	.718	19.7	2.21	23.90	242	19.50
1341	75	1075	6.85	.726	16.0	1.88	23.15	241	19.55
1344	75	1300	6.77	.741	15.9	1.79	22.28	241	19.60
1347	75	1525	6.73	.750	14.1	1.72	21.89	241	19.63
1350	75	1750	6.73	.759	11.3	1.65	21.76	240	19.67
1353	75	1975	6.71	.759	9.8	1.54	21.84	238	19.72
1356	75	2200	6.72	.752	9.8	1.43	22.17	237	19.75
1359	75	2425	6.71	.755	9.5	1.37	22.03	236	19.79
1402	75	2650	6.66	.760	9.2	1.36	21.88	233	19.82
1407	75	3025	6.72	.756	9.5	1.26	22.20	230	19.89
1412	75	3400	6.72	.758	8.4	1.25	22.01	228	19.95
1417	75	3775	6.72	.758	8.4	1.24	22.15	226	20.00
1418	75	3850	6.72	.757	7.8	1.18	22.23	225	20.01

Recorded By: Hannah Hutton 11/08/23 QA: Ian S. Hoover 11/8/23

DATE: 11/07/2023

FIELD CREW: Hannah Hutton and Ian Hoover witness: none

HH 11/07/23

WEATHER: 70°F sunny

HH 11/07/2023

DAILY TASK ACTIVITY: continued from page 47

1331 complete purging of PW44 and begin sampling

1346 complete sampling of PW44 and move to SLAPS trailer to secure samples and off-load equipment

HH 11/7/23

Recorded By: Hannah Hutton 11/07/23 QA: Ian S. Hoover 11/8/23

DATE: 11/08/2023

FIELD CREW: Hannah Hutton and Lon Hoover witness: none

HH 11/08/23

WEATHER: 66°F mostly sunny

HH 11/8/23

DAILY TASK ACTIVITY: 0800 meet at slaps to calibrate Horiba and load equipment for groundwater sampling at HISS. Safety topic: storage of nitrogen gas. 0825 arrive at HISS-11A to sample for rad and metals.

1 well volume = (23.5-13.2)(.16) = 1.6 G (3785) = 6237

0833 begin pumping at HISS-11A at 50 mL/min

0835 adjusted purgerate to 100 mL/min

0840 begin purging of HISS-11A

0940 complete purging of HISS-11A and begin sampling

0956 Complete sampling of HISS-11A and head to HW22

1007 arrive at HW22 to sample for rad and metals.

1 well volume = (30.0-14.35)(.16) = 2.5 G (3785) = 9478

1013 begin pumping at HW22 at 35 mL/min

1014 adjusted purge rate to 110 mL/min

1140 complete purging of ~~HISS~~ HW22 and begin sampling HH 11/8/23

1156 Complete sampling of HW22 and break for lunch at slaps

Recorded By: Hannah Hutton 11/08/23 QA: Lon E. Hoover 11/8/23

COC: LE11092023-05TA
LE11092023-04ML

DATE: 11/9/23

FIELD CREW: Lon Hoover & Jared King Witness: none

WEATHER: Partly Cloudy, 43°F

WELL ID: HW23 SAMPLE ID: HIS27Φ135

TOTAL DEPTH: 93.5' WELL DIAMETER: 2"

SCREEN INTERVAL: 91.5'-93.5' MIDDLE OF SCREEN: 92.5'

STARTING WATER LEVEL: 9.91' FINAL WATER LEVEL: 11.17'

EVACUATION METHOD: Micro purging with peristaltic pump.

EQUIPMENT SERIAL #'S: Horiba = GLW1Φ3285, WLI = GLW1Φ3228, peristaltic pump = D14ΦΦ5132

PURGE START TIME: ΦΦ9Φ PURGE END TIME: 1143 TOTAL VOLUME PURGED: 5Φ8ΦΦ mL

SAMPLE START TIME: 1143 SAMPLE END TIME: 115Φ

t=mL removed before purging began **FIELD PARAMETERS**

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (mS/cm) ~~(µS/cm)~~	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
ΦΦ9Φ	3ΦΦ	19ΦΦ*	7.28	1.Φ1	156	17.Φ1	14.24	-59	1Φ.22
Φ9Φ3		28ΦΦ	7.41	1.Φ2	176	9.Φ7	14.14	-124	1Φ.25
Φ9Φ6		37ΦΦ	7.44	1.Φ1	162	7.34	14.Φ6	-134	1Φ.29
Φ9Φ9		46ΦΦ	7.44	1.Φ1	128	6.52	14.Φ2	-135	1Φ.33
Φ912		55ΦΦ	7.43	1.Φ1	94.1	6.Φ3	14.Φ3	-136	1Φ.36
Φ915		64ΦΦ	7.43	Φ.997	74.1	5.84	14.Φ9	-136	1Φ.37
Φ918		73ΦΦ	7.43	Φ.985	59.3	5.68	14.Φ3	-135	1Φ.41
Φ933		118ΦΦ	7.4Φ	Φ.991	34.8	5.Φ1	13.97	-132	1Φ.5Φ
Φ948		163ΦΦ	7.31	Φ.971	37.9	4.77	14.Φ1	-124	1Φ.58
1Φ03		208ΦΦ	7.31	Φ.976	37.7	4.52	14.Φ4	-123	1Φ.65
1Φ18		253ΦΦ	7.36	Φ.967	38.8	4.24	14.Φ4	-125	1Φ.73
1Φ33		298ΦΦ	7.34	Φ.954	39.1	4.Φ8	14.1Φ	-123	1Φ.79
1Φ48		343ΦΦ	7.19	Φ.948	48.3	3.68	14.16	-116	1Φ.87
1103 with HH		388ΦΦ	7.25	Φ.954	47.5	3.5Φ	14.15	-129	1Φ.92

Recorded By: Lon E. Hoover 11/9/23 QA: Hannah Hutton 11/10/23

Note: Continued on pg. #54

DATE: 11/9/23

FIELD CREW: See pg. #53

WEATHER: See pg. #53

WELL ID: HW23 SAMPLE ID: H1527Φ135

TOTAL DEPTH: 93.5' WELL DIAMETER: 2"

SCREEN INTERVAL: 91.5' - 93.5' MIDDLE OF SCREEN: 92.5'

STARTING WATER LEVEL: 9.91' FINAL WATER LEVEL: 11.17'

EVACUATION METHOD: See pg. #53

EQUIPMENT SERIAL #'S: See pg. #53

PURGE START TIME: Φ9ΦΦ PURGE END TIME: 1143 TOTAL VOLUME PURGED: 5ΦΦΦ mL

SAMPLE START TIME: 1143 SAMPLE END TIME: ~~1145~~ 1150

Continued from pg. #53 (HW23)

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (mS/cm) (µS/cm)*	Turb. (NTUs)* 11.9.23	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1118	3ΦΦ	4330Φ	~~7~~.23	Φ.951	49.9	~~3~~.26	14.27	-12Φ	10.97
1133	↓	4780Φ	7.27	Φ.947	47.9	3.17	14.25	-12Φ	11.Φ3
1143	↓	5Φ8ΦΦ	7.27	Φ.95Φ	45.7	3.12	14.3Φ	-121	11.Φ7

11.9.23 1#

Recorded By: Jon S. Hoover 11/9/23 QA: ~~Hannah Hall~~ 11/16/23

COC: LE11162023-03TA
LE11162023-01ML

DATE: 11/13/23

FIELD CREW: Lon Hoover & Jared King Witness: none

WEATHER: Mostly Sunny, 44°F

WELL ID: BS3WΦ1D SAMPLE ID: SVP27Φ114

TOTAL DEPTH: 96' WELL DIAMETER: 2"

SCREEN INTERVAL: 85' - 95' MIDDLE OF SCREEN: 9Φ'

STARTING WATER LEVEL: 1Φ.61' FINAL WATER LEVEL: 1Φ.93'

EVACUATION METHOD: Micro purging with peristaltic pump.

EQUIPMENT SERIAL #'S: Horiba = GCW1Φ3285, WLI = GCW1Φ3228
peristaltic pump = 0ΦΦ5132

PURGE START TIME: ΦΦ41 PURGE END TIME: 1131 TOTAL VOLUME PURGED: 51,7ΦΦ mL

SAMPLE START TIME: 1131 SAMPLE END TIME: 114Φ

1# removed before purging began

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (mS/cm) (µS/cm)*	Turb. (NTUs)* 11.9.23	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
ΦΦ41	15Φ	1Φ5Φ*	6.73	Φ.913	107	8.16	15.8*	2Φ4	1Φ.68
ΦΦ44	25Φ	18ΦΦ	7.Φ8	Φ.959	96.2	2.39	15.5Φ	-56	1Φ.74
ΦΦ49	3ΦΦ	27ΦΦ	7.11	Φ.968	7Φ.5	1.73	15.49	-111	1Φ.77
ΦΦ5Φ	↓	36ΦΦ	7.14	Φ.964	4Φ.6	1.35	15.46	-177	1Φ.98
ΦΦ53		45ΦΦ	7.14	Φ.964	43.8	1.19	15.39	-147	1Φ.8Φ
ΦΦ56		54ΦΦ	7.15	Φ.962	48.3	1.Φ5	15.39	-155	1Φ.8Φ
ΦΦ59		63ΦΦ	7.15	Φ.96Φ	35.2	Φ.97	15.37	-159	1Φ.8Φ
ΦΦ02		72ΦΦ	7.16	Φ.957	43.4	Φ.92	15.41	-162	1Φ.8Φ
ΦΦ05		79ΦΦ	7.16	Φ.958	47.4	Φ.85	15.46	-165	1Φ.8Φ
ΦΦ08		88ΦΦ	7.17	Φ.955	29.Φ	Φ.83	15.47	-166	1Φ.8Φ
Φ911		97ΦΦ	7.Φ9	Φ.954	25.4	Φ.8Φ	15.46	-162	1Φ.81
Φ931		157ΦΦ	7.1Φ	Φ.953	27.Φ	Φ.65	15.58	-167	1Φ.84
ΦΦ51		217ΦΦ	7.13	Φ.959	27.5	Φ.57	15.39	-17Φ	1Φ.86
1Φ11*	↓	277ΦΦ	7.12	Φ.963	27.1	Φ.51	15.42	-17Φ	1Φ.87

Recorded By: Jon S. Hoover 11/13/23 QA: ~~Hannah Hall~~ ~~11/20/23~~ 11/20/23

*= continued on pg. #58

DATE: 11/08/23

FIELD CREW: Hannah Hutton and Lon Hoover witness: none

HH 11/8/23

WEATHER: 70°F sunny

HH 11/8/23

DAILY TASK ACTIVITY: 1319 arrive at PW43 to sample for rad and metals
1 well volume = (25.5 - 19.18)(.16) = 1G(3785) = 3827
1326 begin pumping at ~~PW45~~ HH 11/8/23 at PW43 at 50 mL/min
1328 adjusted purge rate to 7500 HH 11/8/23 mL/min
1335 begin purging PW43
1418 complete purging PW43 and begin sampling
1434 Complete sampling of PW43 and head to SLAPS trailer to off-load equipment and secure samples.

HH 11/08/23

Recorded By: [signature] 11/08/23 QA: [signature] 11/8/23

DATE: 11/9/23

FIELD CREW: Lon Hoover & Jared King Witness: none

ZH 11.9.23

WEATHER: Partly Cloudy, 46°F

ZH 11.9.23

DAILY TASK ACTIVITY: 0800 - Meet at SLAPS to calibrate Horiba and load equipment for groundwater monitoring at HW55.
0820 - Arrive at HW23 to sample for Rad. & metals.
1 well volume = (93.5' - 9.91')(0.16)(3785mL) = 50,622 mL.
0850 - Begin pumping at 80 mL/min.
0855 - Adjusted to 300 mL/min.
0900 - Begin purging of HW23.
1143 - Complete purging of HW23 and begin sampling.
1150 - Complete sampling of HW23. Move to SLAPS to secure samples and off-load equipment.

11-9-23
ZH

Recorded By: [signature] 11/9/23 QA: [signature] 11/20/23

DATE: 11/13/23

FIELD CREW: See pg. # 55

WEATHER: See pg. #55

WELL ID: B53W01D | SAMPLE ID: SVP270114

TOTAL DEPTH: 96' | WELL DIAMETER: 2"

SCREEN INTERVAL: 85'-95' | MIDDLE OF SCREEN: 90'

STARTING WATER LEVEL: 10.61' | FINAL WATER LEVEL: 10.93'

EVACUATION METHOD: See pg. #55

EQUIPMENT SERIAL #'S: See pg. #55

PURGE START TIME: 0841 | PURGE END TIME: 1131 | TOTAL VOLUME PURGED: 51,700 mL

SAMPLE START TIME: 1131 | SAMPLE END TIME: 1140

Continued from pg. # 55:

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1031	300	37700	7.07	0.972	23.5	0.46	15.40	-167	10.90
1051	397	45700	7.05	0.961	22.7	0.44	15.41	-165	10.91
1111	457	54700	7.07	0.959	21.5	0.42	15.46	-169	10.92
1131	↓	51700	7.08	0.961	20.7	0.40	15.50	-168	10.93

Recorded By: [signature] 11/13/23

QA: [signature] 11/20/23

COC: LE11162023-03TA
LE11162023-01ML

DATE: 11/13/23

FIELD CREW: Lou Hoover & Jared King | Witness: none

WEATHER: Mostly Sunny, 66°F

WELL ID: B53W015 | SAMPLE ID: SVP27#115

TOTAL DEPTH: 28.5' | WELL DIAMETER: 2"

SCREEN INTERVAL: 22.5'-27.7' | MIDDLE OF SCREEN: ~~24'~~ 25.1'

STARTING WATER LEVEL: 14.53' | FINAL WATER LEVEL: 15.49

EVACUATION METHOD: Micro Purging with peristaltic pump.

EQUIPMENT SERIAL #'S: Horiba = GLW10#3285, WLI = GLW10#3228
peristaltic pump = D14005132

PURGE START TIME: 1244 | PURGE END TIME: 1339 | TOTAL VOLUME PURGED: 9050

SAMPLE START TIME: 1339 | SAMPLE END TIME: 1355

~~8~~ mL removed before purging began

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (µS/cm)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1244	150	8000	6.98	0.814	38.9	7.60	17.70	120	15.26
1247	↓	12500	6.82	0.828	29.2	3.00	16.85	119	15.33
1250		17000	6.80	0.826	21.2	2.36	16.73	117	15.34
1253		21500	6.79	0.826	16.5	1.96	16.76	115	15.36
1256		26000	6.79	0.822	11.2	1.60	16.66	112	15.40
1259		30500	6.79	0.822	16.3	1.56	16.64	112	15.43
1304		38000	6.79	0.821	6.4	1.35	16.66	110	15.43
1309		45500	6.79	0.820	4.9	1.15	16.59	107	15.44
1314		53000	6.78	0.821	2.8	1.07	16.60	106	15.44
1319		60500	6.78	0.824	3.1	0.99	16.53	105	15.45
1324		68000	6.78	0.830	3.1	0.96	16.53	104	15.48
1329		75500	6.78	0.834	2.9	0.93	16.56	104	15.48
1334		83000	6.78	0.836	2.3	0.89	16.59	105	15.49
1339	↓	90500	6.78	0.832	3.0	0.87	16.57	105	15.49

Recorded By: [signature] 11/13/23

QA: [signature] 11/16/23

COC: LE11162023-OSTA
LE11162023-OMC

DATE: 11/14/23

FIELD CREW: Lon Hoover & Jared King Witness: none

WEATHER: Mostly Sunny, 40°F

WELL ID: B53W015 SAMPLE ID: SVP27015118

TOTAL DEPTH: 36' WELL DIAMETER: 2"

SCREEN INTERVAL: 30'-35' MIDDLE OF SCREEN: 32.5'

STARTING WATER LEVEL: 21.16' FINAL WATER LEVEL: 21.55'

EVACUATION METHOD: Micro purging with peristaltic pump.

EQUIPMENT SERIAL #'S: Horiba = GLW1015285, WLI = GLW1013228
peristaltic pump = D14005132

PURGE START TIME: 0855 PURGE END TIME: 0915 TOTAL VOLUME PURGED: ~~2340 mL~~ 2280 mL ZH 11.20.23

SAMPLE START TIME: 0915 SAMPLE END TIME: 1105

* mL removed befor purging began

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. ~~(µS/cm)~~ (mS/cm) ZH 11.20.23	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
0855	60	120 0*	6.68	1.46	36.9	15.23	14.97	245	21.64
0858	↓	138 0	6.80	1.46	33.2	7.26	14.84	240	21.63
0901		156 0	6.83	1.45	32.2	6.33	14.74	238	21.65
0904		174 0	6.84	1.45	31.1	6.03	14.63	237	21.65
0907		192 0	6.85	1.46	26.6	5.80	14.47	237	21.60
0910		210 0	6.84	1.46	25.1	5.71	14.44	237	21.61
0913	↓	228 0	6.84	1.46	26.1	5.68	14.45	237	21.60

ZH 11.20.23

Recorded By: Jon G. Hoover 11/14/23 QA: Hannah Hatter 11/20/23

DATE: 11/13/23

FIELD CREW: Lon Hoover & Jared King Witness: none

ZH 11.17.23

WEATHER: Partly Cloudy, 44°F

ZH 11.17.23

DAILY TASK ACTIVITY: 0800- Meet at SLAPS to calibrate Horiba and load equipment for groundwater sampling.
0825- Arrive at B53W010 to sample for Rad.& metals.
1 well volume = (96' - 10.61')(0.16) = 13.6g. x 3785 = 51,476 mL
0834- Begin pumping of B53W010 at 150 mL/min.
0841- Begin purging of B53W010.
1131- Complete purging of B53W010 and begin sampling.
1140- Complete sampling of B53W010 and break for lunch.
1225- Arrive at B53W015 to sample for Rad & metals.
1 well volume = (28.5' - 14.53')(0.16) = 2.24g x 3785mL = 8478mL
1236- Begin pumping of B53W015 @ 50 mL/min.
1239- Adjust purge rate to 150 mL/min.
1244- Begin purging of B53W015.
1332- Purging is complete on B53W015. Begin sampling.
1355- Complete Sampling of B53W015. Move to SLAPS to secure samples and offload.

Recorded By: Jon G. Hoover 11/13/23 QA: Hannah Hatter 11/20/23

DATE: 11/14/23

FIELD CREW: Lon Hoover & Jared King Witness: none

ZH | 11.14.23

WEATHER: Mostly Sunny, 40°F

JH | 11.14.23

DAILY TASK ACTIVITY: 0800 - Meet at SLAPS to calibrate Horiba and load equipment for groundwater sampling in N/C.

0825 - Arrive at B53W075 to sample for Rad. & metals.

0835 - Begin pumping B53W075 @ 60 mL/min.

1 well volume = (36' - 21.16')(0.16) = 2.4 gal. x 3785 = 8963 mL

0907 - Adjusting flow rate of B53W075

0914 - It was determined that we are (or may be) losing enough head in well to draw water to surface with the peristaltic pump. The water level of B53W075 is below 20' (BTC) and as we began pumping, we were seeing an increased amount of air in the tubing coming to the surface. Parameters were stable enough that we decided to begin sampling in order to not lose the opportunity to do so due to low water level at this location.

Note: This is a good case to install bladder pump in B53W075.

Recorded By: Lon S. Hoover QA: Hannah Hall 11/20/23

COC: LE11162023-05 TA
~~LE11162023-10TA~~ #11/27/23
LE11162023-04MC

DATE: 11/14/23

FIELD CREW: Lon Hoover, Jared King Witness: none

WEATHER: Mostly Sunny, 57°F

WELL ID: B53W075D SAMPLE ID: SVP27011?

TOTAL DEPTH: 87' WELL DIAMETER: 2"

SCREEN INTERVAL: 77.5' - 87.5' MIDDLE OF SCREEN: 82.5'

STARTING WATER LEVEL: 10.85' FINAL WATER LEVEL: 11.00

EVACUATION METHOD: Micro purging with peristaltic pump.

EQUIPMENT SERIAL #'S: Horiba = GLW103285 WLI = GLW103228
peristaltic pump = D1400 5732

PURGE START TIME: 1111 PURGE END TIME: 1350 TOTAL VOLUME PURGED: 47,800 mL

SAMPLE START TIME: 1350 SAMPLE END TIME: 1400

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (mS/cm) ~~(µS/cm)~~	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1111	200	400	7.09	0.993	85.4	13.37	16.20	36	10.92
1114	200	1000	7.12	1.00	58.7	3.25	15.86	-116	10.96
1117	200	1600	7.10	1.00	50.4	1.87	15.53	-137	10.97
1120	300	2500	7.09	1.01	40.8	1.45	15.34	-145	10.99
1123	300	3400	7.08	0.991	35.5	1.18	15.26	-153	10.99
1126	300	4300	7.09	0.995	34.1	1.10	15.18	-155	11.00
1129	300	5200	7.08	0.998	30.3	1.01	15.13	-157	11.01
1139	↓	8200	7.07	1.01	37.2	0.86	15.15	-162	11.01
1149		11200	7.06	1.00	40.1	0.80	15.12	-163	11.00
1159		14200	7.05	1.00	41.9	0.73	15.12	-162	11.00
1218		20200	6.95	0.993	37.6	0.64	15.14	-158	11.00
1238		26200	7.00	1.00	37.2	0.56	15.19	-158	11.00
1258		32200	7.04	1.00	40.4	0.50	15.23	-163	11.00
1318*	↓	38200	7.03	1.01	40.5	0.49	15.23	-162	11.00

Recorded By: Lon S. Hoover 11/14/23 QA: Hannah Hall 11/20/23

* = continued on pg. # 64

DATE: 11/14/23

FIELD CREW: See pg. #63

WEATHER: See pg. #63

WELL ID: B53WΦ7D SAMPLE ID: SVPΦ7Φ117

TOTAL DEPTH: 89' WELL DIAMETER: 2"

SCREEN INTERVAL: 77.5' - 87.5' MIDDLE OF SCREEN: 82.5'

STARTING WATER LEVEL: 1Φ.85 FINAL WATER LEVEL: 11.ΦΦ

EVACUATION METHOD: See pg. #63

EQUIPMENT SERIAL #'S: See pg. #63

11.14.23

PURGE START TIME: 1111 PURGE END TIME: 135Φ TOTAL VOLUME PURGED: 47,8ΦΦ mL

SAMPLE START TIME: 135Φ SAMPLE END TIME: 14ΦΦ

Continued from pg. #63:

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (mS/cm) ~~(µS/cm)~~	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1338	3ΦΦ	4420Φ	7.Φ5	1.Φ1	39.3	Φ.48	15.23	-162	11.ΦΦ
135Φ	↓	47,8ΦΦ	7.Φ3	1.Φ1	41.Φ	Φ.44	15.21	-16Φ	11.ΦΦ

11.14.23

Recorded By: L. Hoover 11/14/23 QA ~~Hannah Hicks~~ 11/20/23

COC: LE11162023-10TA
LE11162023-07ML

DATE: 11/15/23

FIELD CREW: Lou Hoover & Jared King Witness: none

WEATHER: Mostly sunny, 48°F

WELL ID: B53WΦ65 SAMPLE ID: SVPΦ7Φ116

TOTAL DEPTH: 36' WELL DIAMETER: 2"

SCREEN INTERVAL: 3Φ'-35' MIDDLE OF SCREEN: 32.5'

STARTING WATER LEVEL: 16.92' FINAL WATER LEVEL: 22.56'

EVACUATION METHOD: Micro purging with bladder pump.

EQUIPMENT SERIAL #'S: Ho.Bq = GLW1Φ3285, WLI = GLW1Φ3228, Pump controller = GLW1Φ3249

PURGE START TIME: ΦΦ41 PURGE END TIME: 11Φ5 TOTAL VOLUME PURGED: 11,7ΦΦ mL

SAMPLE START TIME: 11Φ5 SAMPLE END TIME: 1125

4 mL removed before purging began

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (mS/cm) ~~(µS/cm)~~	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
ΦΦ41	75	9ΦΦ*	6.64	1.83	91.7	11.43	15.55	259	17.9Φ
ΦΦ44	↓	1125	6.68	1.73	92.4	4.21	15.36	256	18.Φ6
ΦΦ47		135Φ	6.68	1.61	84.9	2.97	15.33	254	18.21
ΦΦ5Φ		1575	6.68	1.53	76.6	2.57	15.31	253	18.37
ΦΦ53		18ΦΦ	6.67	1.46	63.Φ	2.4Φ	15.27	251	18.52
ΦΦ56		2Φ25	6.67	1.41	52.6	2.25	15.17	25Φ	18.67
ΦΦ59		225Φ	6.66	1.36	45.9	2.Φ7	15.16	249	18.79
ΦΦ02		2475	6.66	1.32	41.8	2.ΦΦ	15.12	248	18.92
ΦΦ17		36ΦΦ	6.63	1.22	25.5	1.66	15.ΦΦ	244	19.61
ΦΦ32		4725	6.62	1.24	18.4	1.58	15.14	24Φ	2Φ.26
ΦΦ47		585Φ	6.62	1.29	15.4	1.54	15.27	237	2Φ.82
1Φ02		6975	6.62	1.32	12.1	1.49	15.34	235	21.24
1Φ17		81ΦΦ	6.62	1.41	1Φ.7	1.38	15.39	232	21.63
1Φ32*	↓	9225	6.63	1.48	9.6	1.38	15.51	23Φ	21.88

Recorded By: L. Hoover 11/15/23 QA ~~Hannah Hicks~~ 11/20/23

* = continued on pg. #68

DATE: 11/14/23

FIELD CREW: See pg. #62

ZH 11.14.23

WEATHER: See pg. #62

ZH 11.14.23

DAILY TASK ACTIVITY: Continued from pg. # 62:

1105 - Complete sampling of B53W070. Move to B53W070 to Sample for Rad. & metals.

B53W070

1107 - Begin pumping of B53W070 @ 100 mL/min.

1 well volume = (89' - 10.85') (.016) = 12.5g. x 3785 = 47,313 mL

1108 - Adjust purge rate to 200 mL/min. on B53W070.

1120 - Adjusted purge rate to 300 mL/min. on B53W070.

1350 - Complete purging of B53W070 and begin sampling.

1400 - Complete sampling of B53W070 and return to SLAPS to secure sample(s) and off-load equipment.

11.14.23

ZH

Recorded By: J. S. Horn 11/14/23 QA: Hannah Hatton 11/20/23

DATE: 11/15/23

FIELD CREW: Lou Hosier & Jared King Witness: none

ZH 11.15.23

WEATHER: Mostly Sunny, 48°F

ZH 11.15.23

DAILY TASK ACTIVITY: 0800 - Meet at SLAPS to calibrate Horiba and load equipment for groundwater monitoring out N/C.

0820 - Arrive at B53W065 to sample for Rad & metals.

1 well volume = ~~(36' - 10.92') (.16) = 4g. x 3785 = 15,140 mL~~ ZH 11.15.23

(36' - 16.92') (.16) = 3.05g x 3785 = 11,555 mL

0829 - Begin pumping B53W065 at 75 mL/min.

0841 - Begin purging of B53W065.

1105 - Complete purging of B53W065 and begin sampling.

1125 - Complete sampling of B53W065 and break for lunch.

1220 - Arrive at MW31-98 to sample for Rad. & metals.

1 well volume = (34' - 19.35') (.16) = 2.3g. x 3785 = 8705 mL

1239 - Begin pumping MW31-98 @ 100 mL/min.

1246 - Begin purging of MW31-98 @ 120 mL/min.

1404 - Complete purging and begin sampling of MW31-98.

1420 - Complete sampling of MW31-98 and move to SLAPS to secure samples.

Recorded By: J. S. Horn 11/15/23 QA: Hannah Hatton 11/20/23

DATE: 11/15/23

FIELD CREW: See pg. #65

WEATHER: See pg. #65

WELL ID: B53WΦ65 SAMPLE ID: SVP27Φ116

TOTAL DEPTH: 36' WELL DIAMETER: 2"

SCREEN INTERVAL: 3Φ'-35' MIDDLE OF SCREEN: 32.5'

STARTING WATER LEVEL: 16.92 FINAL WATER LEVEL: 27.56'

EVACUATION METHOD: See pg. #65

EQUIPMENT SERIAL #'S: See p# 65

ZH 11.15.23

PURGE START TIME: ΦΦ841 PURGE END TIME: 1105 TOTAL VOLUME PURGED: 117ΦΦ mL

SAMPLE START TIME: 1105 SAMPLE END TIME: 1125

continued from pg. #65:

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (mS/cm) ~~(µS/cm)~~ ZH 11.15.23	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1ΦΦ7	75	1ΦΦ5Φ	6.62	1.5Φ	8.5	1.34	15.52	228	22.Φ9
1ΦΦ2 ~~1ΦΦ5Φ~~	↓	11475	6.62	1.56	7.8	1.32	15.69	226	22.21
1105	↓	117ΦΦ	6.62	1.54	7.6	1.29	15.7Φ	226	22.25

ZH

Recorded By: Lor E. Hoover 11/15/23 QA: Hannah Hoover 11/20/23

COC: LE11162023-07MC
LE11162023-08TA

DATE: 11/15/23

FIELD CREW: Lea Hoover & Jaled King Witness: none

WEATHER: Mostly Sunny, 71°F

WELL ID: MW31-9B SAMPLE ID: SVP27Φ121

TOTAL DEPTH: 34' WELL DIAMETER: 2"

SCREEN INTERVAL: 18.4' - 33.4' MIDDLE OF SCREEN: 25.9'

STARTING WATER LEVEL: 19.35' FINAL WATER LEVEL: 2Φ.17'

EVACUATION METHOD: Micropurging with peristaltic pump.

EQUIPMENT SERIAL #'S: Horiba = GLW1Φ3285, WLI = GLW1Φ3278
peristaltic pump = D14ΦΦ5132

PURGE START TIME: 1246 PURGE END TIME: 14Φ4 TOTAL VOLUME PURGED: 9,Φ6Φ mL

SAMPLE START TIME: 14Φ4 SAMPLE END TIME: 142Φ

tub removed before purging began

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. mS/cm ~~(µS/cm)~~ ZH 11.15.23	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1246	12Φ	7ΦΦ*	6.97	2.24	2Φ.2	17.82	17.3Φ	19Φ	19.51
1249	↓	1Φ6Φ	6.98	2.28	17.8	4.99	16.93	193	19.54
1252	↓	142Φ	6.96	2.27	15.Φ	2.96	16.9Φ	193	19.58
1255	↓	178Φ	6.96	2.27	13.Φ	2.46	16.8Φ	194	19.6Φ
1258	↓	214Φ	6.96	2.28	11.9	2.11	16.79	193	19.63
131Φ1	↓	25ΦΦ	6.95	2.27	11.6	1.86	16.75	193	19.66
1304	↓	286Φ	6.95	2.27	1Φ.2	1.66	16.76	193	19.68
1314	↓	3Φ6Φ	6.94	2.26	8.8	1.27	16.86	193	19.76
1324	↓	426Φ	6.94	2.29	8.5	1.ΦΦ8	16.74	192	19.83
1334	↓	546Φ	6.94	2.27	8.5	Φ.99	16.64	192	19.9Φ
1344	↓	666Φ	6.93	2.27	7.9	Φ.94	16.61	191	19.98
1354	↓	786Φ	6.89	2.26	7.8	Φ.92	16.66	192	2Φ.Φ3
14Φ4	↓	9Φ6Φ	6.89	2.19	7.9	Φ.89	16.62	193	2Φ.11

ZH 11.15.23

Recorded By: Lor E. Hoover 11/15/23 QA: Hannah Hoover 11/20/23

COC: LE11162023-10TA
LE11162023-09M

DATE: 11/16/23

FIELD CREW: Lon Hoover & Jared King Witness: none

WEATHER: Mostly Sunny, 59°F

WELL ID: PW42 SAMPLE ID: SVF270125

TOTAL DEPTH: 85.1' WELL DIAMETER: 2"

SCREEN INTERVAL: 83' - 85' MIDDLE OF SCREEN: ~~82~~ 84'

STARTING WATER LEVEL: 10.54' FINAL WATER LEVEL: 35.44'

EVACUATION METHOD: Micro purging with peristaltic pump

EQUIPMENT SERIAL #'S: Horiba = 6LW1003285, WLI = 6LW1003228
peristaltic pump = D1400 5132

PURGE START TIME: 0858 PURGE END TIME: 1126 TOTAL VOLUME PURGED: 4530 mL

SAMPLE START TIME: 1126 SAMPLE END TIME: 1151

* mL removed before purging began

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (mS/cm) ~~(µS/cm)~~	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
0858	300	1200 *	6.59	0.589	24.3	14.69	16.58	71	12.88
0901		2100	6.99	0.586	23.7	3.59	16.50	30	13.79
0904		3000	7.20	0.582	25.8	2.10	16.39	-5	14.58
0907		3900	7.31	0.578	22.7	1.66	16.36	-54	15.32
0910		4800	7.36	0.577	21.1	1.48	16.29	-86	16.02
0913		5700	7.39	0.575	17.3	1.38	16.27	-107	16.74
0916		6300	7.40	0.574	16.9	1.31	16.23	-120	17.42
0919		7200	7.41	0.576	14.8	1.27	16.21	-127	18.02
0939		13200	7.42	0.605	15.0	1.11	16.20	-149	22.05
0959		19200	7.42	0.620	14.9	1.05	16.14	-152	25.61
1019		25200	7.41	0.635	17.9	1.11	16.15	-145	28.49
1039		31200	7.39	0.626	17.2	1.09	16.15	-139	30.94
1059		37200	7.39	0.630	19.0	1.21	16.19	-134	32.41
1119X		43200	7.40	0.631	18.5	1.20	16.19	-132	34.61

Recorded By: Lon S. Hoover 11/16/23 QA: ~~Hannah Hunt~~ 11/20/23

X = PW42 was purged for an additional 7 minutes to achieve 1 well volume.

DATE: 11/16/23

FIELD CREW: Lon Hoover & Jared King Witness: none

7/A 11.16.23

WEATHER: Mostly Sunny, 59°F

7/A 11.16.23

DAILY TASK ACTIVITY: 0800 - Arrive at SLAPS to calibrate Horiba and load equipment for groundwater sampling at N/C.
0845 - Arrive at PW42 to sample for Rad. & metals.
0850 - Begin pumping PW42 @ 150 mL/min. Going to adjust purge rate higher to achieve 1 well volume criteria.
1 well volume = (85.1' - 10.54')(0.16) = 11.9 g x 3785 = 45042 mL.
1126 - Complete purging of PW42 and begin sampling after lowering purge rate to 50 mL/min to minimize draw-down.
1151 - Complete sampling of PW42. Move to B53W095 to sample for Rad. & metals: 1 well volume = (36' - 16.55')(0.16) = 3.1 g. x 3785 = 11779 mL.
1154 - Begin pumping of B53W095 @ 45 mL/min. but adjusting rate.
1201 - Begin purging of B53W095 @ 150 mL/min.
1319 - Complete purging of B53W095 and begin sampling.
1330 - Complete sampling of B53W095 and return to SLAPS to secure samples and off-load equipment.

Recorded By: Lon S. Hoover 11/16/23 QA: ~~Hannah Hunt~~ 11/20/23

DATE: 11/20/23

FIELD CREW: Lou Hoover & Jared King Witness: none

ZH | 11.20.23

WEATHER: Cloudy, Rain, 46°F

ZH | 11.20.23

DAILY TASK ACTIVITY: 0800 – Meet at SLAPS to calibrate Horiba and load equipment for groundwater sampling at HISS.
0820 - Arrive at HISS-195 to sample for Rad.'s Metals.
1 well volume = (29.6'-14.84)(0.65) = 9.5 g x3785 = 35957 mL
0836 - Begin pumping of HISS-195 at 100 mL/min. We will begin adjusting flow rate by increasing pump adjustment.
0841 - Begin purging of HISS-195 @ 250 mL/min.
1107 - Complete purging of HISS-195 and begin sampling.
1120 - Complete sampling of HISS-195 and return to SLAPS to secure samples and off-load equipment.

11.20.23
ZH

Recorded By: Lou E. Hoover 11/20/23 QA Hannaford 11/27/23

COC: LE11162023-07 ML
LE11162023-10ML

DATE: 11/16/23

FIELD CREW: Lou Hoover & Jared King Witness: none

WEATHER: Mostly Cloudy, 60°F

WELL ID: B53W095 SAMPLE ID: SVP270119

TOTAL DEPTH: 36' WELL DIAMETER: 2"

SCREEN INTERVAL: 30'-35' MIDDLE OF SCREEN: 32.5'

STARTING WATER LEVEL: 16.55' FINAL WATER LEVEL:

EVACUATION METHOD: Micro purging with bladder pump.

EQUIPMENT SERIAL #'S: Horiba = GLW103285, WLI = GLW103228, Pump controller = GLW103249

PURGE START TIME: 1201 PURGE END TIME: 1319 TOTAL VOLUME PURGED: 11,915 mL

SAMPLE START TIME: 1319 SAMPLE END TIME: 1330

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (mS/cm) ~~(µS/cm)~~	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1201	150	315	6.96	1.00	7.0	16.01	16.71	-10	17.38
1204		765	6.96	1.00	7.4	14.53	16.69	-12	17.53
1207		1115	6.96	1.00	7.1	4.32	16.49	-17	17.66
1210		1565	6.96	1.01	8.6	2.75	16.46	-22	17.80
1213		2015	6.96	1.01	6.3	1.95	16.48	-26	17.87
1216		2465	6.96	1.02	6.1	1.53	16.55	-29	17.92
1219		2915	6.94	1.02	6.2	1.26	16.51	-32	17.96
1222		3365	6.93	1.03	5.6	1.04	16.50	-34	17.98
1232		4865	6.89	1.05	5.0	0.78	16.63	-76	17.98
1242		6365	6.87	1.07	5.5	0.73	16.59	-36	18.03
1252		7865	6.86	1.08	4.8	0.67	16.58	-35	18.09
1302		9365	6.85	1.07	4.5	0.59	16.59	-34	18.11
1312		10865	6.84	1.07	4.5	0.57	16.61	-33	18.11
1319		11915	6.85	1.07	4.6	0.55	16.58	-32	18.14

Recorded By: Lou E. Hoover 11/16/23 QA Hannaford 11/20/23

COC: LE11222023-01ML
LE11222023-02TA

DATE: 11/20/23

FIELD CREW: Lon Hoover & Jared King Witness: none

WEATHER: Cloudy, Rain, 46°F

WELL ID: HISS-19S SAMPLE ID: HIS27Φ133

TOTAL DEPTH: 29.61' WELL DIAMETER: 4"

SCREEN INTERVAL: 14.3' - 24.3' MIDDLE OF SCREEN: 19.3'

STARTING WATER LEVEL: 14.84' FINAL WATER LEVEL: 17.85'

EVACUATION METHOD: Micro purging with Peristaltic Pump.

EQUIPMENT SERIAL #'S: Horiba = GLW1Φ3288 WLI = GLW1Φ3228
Peristaltic pump = D14ΦΦ5132

PURGE START TIME: Φ841 PURGE END TIME: 1103 TOTAL VOLUME PURGED: 36,ΦΦΦmL

SAMPLE START TIME: 1103 SAMPLE END TIME: 1129

*mL removed before purging began

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (mS/cm) ~~(µS/cm)~~ 4%	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
Φ841	1ΦΦ	5ΦΦ*	6.55	1.Φ7	6.8	7.95	16.91	135	15.Φ1
Φ844	25Φ	125Φ	6.73	1.Φ6	5.Φ	2.55	16.94	58	15.1Φ
Φ847		2ΦΦΦ	6.77	1.Φ5	3.3	1.81	16.79	-52	15.17
Φ85Φ		275Φ	6.78	1.Φ5	1.9	1.55	11.97	-85	15.24
Φ853		35ΦΦ	6.78	1.Φ5	Φ.8	1.44	16.9Φ	-92	15.3Φ
Φ856		425Φ	6.78	1.Φ5	Φ.7	1.3Φ	16.82	-1Φ2	15.37
Φ911		8ΦΦΦ	6.78	1.Φ5	Φ.8	Φ.99	16.76	-119	15.66
Φ926		1175Φ	6.78	1.Φ5	Φ.Φ	Φ.84	16.73	-124	15.92
Φ941		155ΦΦ	6.77	1.Φ4	Φ.Φ	Φ.75	16.63	-126	16.17
Φ956		1925Φ	6.76	1.Φ4	Φ.Φ	Φ.7Φ	16.59	-127	16.36
1Φ11		23ΦΦΦ	6.75	1.Φ4	Φ.Φ	Φ.65	16.55	-126	16.61
1Φ26		2675Φ	6.74	1.Φ3	Φ.Φ	Φ.6Φ	16.66	-124	16.88
1Φ41		3Φ,5ΦΦ	6.73	1.Φ2	Φ.Φ	Φ.58	16.68	-122	17.07
1Φ56		3425Φ	6.72	1.Φ3	Φ.Φ	Φ.56	16.65	-121	17.3
1103	25Φ	36ΦΦΦ	6.71	1.Φ2	Φ.Φ	Φ.54	16.67	-12Φ	17.42

Recorded By: J. S. Brown 11/20/23 QA: Hannah Hatton 11/27/23

COC: LE11222023-03ML
LE11222023-04TA

DATE: 11/21/23

FIELD CREW: Lon Hoover &, Jared King Witness: none

WEATHER: Mostly Cloudy, 43°F

WELL ID: PW-36 SAMPLE ID: SVP27Φ124

TOTAL DEPTH: 88' WELL DIAMETER: 2"

SCREEN INTERVAL: 83' - 87.9' MIDDLE OF SCREEN: 85.5'

STARTING WATER LEVEL: 1Φ.Φ2 FINAL WATER LEVEL: 1Φ.24'

EVACUATION METHOD: Micro purging with peristaltic pump.

EQUIPMENT SERIAL #'S: Horiba = GLW1Φ3288, WLI = GLW1Φ3228
Peristaltic pump = D14ΦΦ5132

PURGE START TIME: Φ849 PURGE END TIME: 1122 TOTAL VOLUME PURGED: 47,500 mL ~~41Φ~~ 11.21.23

SAMPLE START TIME: 1122 SAMPLE END TIME: 1134

*mL removed before purging began FIELD PARAMETERS continued on pg # 78

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (mS/cm) ~~(µS/cm)~~ 4%	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
Φ849	3ΦΦ	21ΦΦ*	5.98	Φ.22Φ	544	4.14	16.Φ8	268	10.15
Φ852		3ΦΦΦ	6.6Φ	Φ.282	381	1.64	15.93	245	1Φ.17
Φ855		39ΦΦ	6.83	Φ.321	197	1.24	15.85	219	1Φ.18
Φ858		48ΦΦ	6.98	Φ.351	162	1.Φ2	15.73	149	1Φ.18
Φ9Φ1		57ΦΦ	7.Φ6	Φ.373	13Φ	Φ.91	15.76	3Φ	1Φ.18
Φ9Φ4		63ΦΦ	7.12	Φ.4Φ3	112	Φ.8Φ	15.7Φ	-58	1Φ.18
Φ9Φ7		7ΦΦΦ	7.14	Φ.415	95.3	Φ.77	15.71	-74	1Φ.18
Φ91Φ		79ΦΦ	7.15	Φ.429	88.8	Φ.74	15.63	-85	1Φ.18
Φ913		88ΦΦ	7.17	Φ.442	1ΦΦ	Φ.7Φ	15.65	-1ΦΦ	1Φ.18
Φ916		97ΦΦ	7.19	Φ.458	92.1	Φ.67	15.65	-1Φ9	1Φ.19
Φ931		142ΦΦ	7.22	Φ.496	5Φ.8	Φ.53	15.49	-136	1Φ.2Φ
Φ946		187ΦΦ	7.23	Φ.529	64.4	Φ.46	15.45	-147	1Φ.2Φ
1ΦΦ1		232ΦΦ	7.24	Φ.562	41.1	Φ.42	15.39	-153	1Φ.21
1Φ16		277ΦΦ	7.24	Φ.593	21.Φ	Φ.38	15.31	-156	1Φ.21

Recorded By: J. S. Brown 11/21/23 QA: Hannah Hatton 11/27/23

DATE: 11/21/23

FIELD CREW: Lon Hoover ; Jared King Witness: none

ZH | 11.21.23

WEATHER: Mostly Cloudy, 43°F

ZH | 11.21.23

DAILY TASK ACTIVITY: Ø800 - Arrive at SLAPS to calibrate Horiba and load equipment for groundwater sampling of PW-36 ; PW-35.
Ø830 - Arrive at PW36 to sample for Rad. ; metals
1 well volume = (88' - 10.02)(Ø.16) = 12.5g. x 3785 = 47225 mL
Ø842 - Begin pumping PW-36 @ 300 mL/min.
Ø849 - Begin purging of PW36.
1122 - Complete purging and begin sampling of PW-46. (36) ZH 11.21.23
1130 - Complete sampling of PW-36. Move to SLAPS to get tape.
1155 - Arrive at PW-35 to sample for Rad. ; metals
1 well volume = (115' - 10.33')(Ø.16) = 16.8g. x 3785 = 63,588 mL
1200 - Begin pumping of PW35 at 300 mL/min
1205 - Adjusting purge rate to 350 mL/min.
1225 - Begin purging of PW-35.
1503 - Complete purging of PW-35 and begin sampling.
1510 - Complete sampling of PW-35 and move to SLAPS to secure samples and off-load equipment.

Recorded By: [signature] 11/21/23 QA: Hannah Hutton 11/27/23

DATE:

FIELD CREW:

WEATHER:

DAILY TASK ACTIVITY:

11.22.23

Recorded By: QA: Hannah Hutton 11/27/23

DATE: 11/21/23

FIELD CREW: See pg. #75

WEATHER: See pg. #75

WELL ID: PW-46 (11/22 #36) SAMPLE ID: SVP27Φ124

TOTAL DEPTH: 88' WELL DIAMETER: 2"

SCREEN INTERVAL: 83'-87.9' MIDDLE OF SCREEN: 85.5'

STARTING WATER LEVEL: 1Φ.Φ2' FINAL WATER LEVEL: 1Φ.24

EVACUATION METHOD: See pg. #75

EQUIPMENT SERIAL #'S: See pg. #75

PURGE START TIME: ΦΦ849 PURGE END TIME: 1122 TOTAL VOLUME PURGED: 47,500 mL 47500 mL (11/22 #)

SAMPLE START TIME: 1122 SAMPLE END TIME: 113Φ

-continued From pg. #75:

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed (3ΦΦ)	pH (SUs) (11/22 #)	Sp. Cond. (mS/cm) (µS/cm)	Turb. (NTUs) (11/20 #)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1Φ31	3ΦΦ	~~28ΦΦΦ~~	7.24	Φ.624	14.5	ΦΦ.35	15.44	-159	1Φ.22
1Φ46	1	367ΦΦ	7.24	Φ.637	12.1	Φ.32	15.41	-161	1Φ.22
11Φ1		412ΦΦ	7.24	Φ.65Φ	13.6	Φ.3(	15.36	-162	1Φ.23
1116		457ΦΦ	7.24	Φ.668	11.8	Φ.3Φ	15.33	-163	1Φ.23
~~11Φ6~~ (11/21 #)		472ΦΦ	7.23	Φ.672	11.2	Φ.3Φ	15.32	-163	1Φ.23
1122		475ΦΦ	7.24	Φ.674	12.Φ	Φ.29	15.35	-163	1Φ.24

11/21/23

Recorded By: Jon E. Hoover 11/21/23 QA: Hannah Jutson 11/27/23

COC: LG 11222023-Φ3ΠA
LG 11222023-Φ4ΠA

DATE: 11/21/23

FIELD CREW: Lou Hoover ?, Jared King Witness: none

WEATHER: Mostly Cloudy, 45°F ; Windy

WELL ID: PW-35 SAMPLE ID: SVP27Φ123

TOTAL DEPTH: 115' WELL DIAMETER: 2"

SCREEN INTERVAL: 1Φ4'- 114.9' MIDDLE OF SCREEN: 1Φ7.5'

STARTING WATER LEVEL: 10.23 FINAL WATER LEVEL: 18.3Φ'

EVACUATION METHOD: Micro purging with peristaltic pump.

EQUIPMENT SERIAL #'S: Horiba = GLW1Φ3288, WLI = GLW1Φ3228.
peristaltic pump = D14ΦΦ5132

PURGE START TIME: 1225 PURGE END TIME: 15Φ3 TOTAL VOLUME PURGED: 638ΦΦ mL

SAMPLE START TIME: 15Φ3 SAMPLE END TIME: 151Φ

~1 removed before purging began

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (mS/cm) ~~(µS/cm)~~ (11/20 #)	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1225	35Φ	85ΦΦ	7.7Φ	1.36	278	12.15	15.19	-4	11.6Φ
1228	1	955Φ	7.85	1.27	168	7.54	15.4Φ	-66	12.28
1231		1Φ6ΦΦ	7.71	1.26	11Φ	6.69	15.37	-112	12.89
1234		1165Φ	7.58	1.34	12Φ	6.51	15.39	-122	13.42
1237		127ΦΦ	7.52	1.35	11Φ	6.24	15.43	-125	13.74
124Φ		1375Φ	7.48	1.26	89.6	6.12	15.39	-125	14.ΦΦ
13ΦΦ		~~2Φ75Φ~~ (11/21 #) ~~148ΦΦ~~	7.4Φ	Φ.912	21.7	6.12	15.Φ7	-1Φ8	15.41
132Φ		~~2775Φ~~ ~~1585Φ~~	7.37	Φ.768	1Φ.8	5.91	15.13	-1Φ1	16.47
134Φ		~~3475Φ~~ ~~1685Φ~~	7.4Φ	Φ.589	1Φ.1	6.1Φ	14.98	-1Φ1	17.35
14ΦΦ		41,75Φ ~~1775Φ~~	7.38	Φ.576	8.9	5.91	14.89	-1Φ3	17.94
142Φ		4875Φ	7.35	Φ.579	9.3	6.25	14.83	-98	18.14
144Φ		5575Φ	7.31	Φ.6Φ2	8.8	6.21	14.84	-94	18.25
15ΦΦ		6275Φ	7.32	Φ.612	8.7	6.22	14.85	-92	18.1Φ
15Φ3		638ΦΦ	7.32	Φ.611	8.6	6.23	14.79	-91	18.ΦΦ

Recorded By: Jon E. Hoover 11/21/23 QA: Hannah Jutson 11/27/23

HIS270129 [COC: LE11222023-05ML, LE11222023-06TA HIS270130 [LE11222023-05ML

DATE: 11-22-2023

FIELD CREW: Jared King & Lon Hoover Witness: none

WEATHER: 40° F, cloudy

WELL ID: HISS-10 SAMPLE ID: JK 11-22-23 HIS270129 / HIS270130

TOTAL DEPTH: 25.7 WELL DIAMETER: 2"

SCREEN INTERVAL: 18.7 - 23.4 MIDDLE OF SCREEN: 21.1

STARTING WATER LEVEL: 8.80 FINAL WATER LEVEL: 9.44

EVACUATION METHOD: micropurge with peristaltic

EQUIPMENT SERIAL #'S: Horiba: GLW10-3285, WLI: GLW10-3220

Peristaltic pump: D1400-5132

PURGE START TIME: 0845 JK 11-22-23 53 PURGE END TIME: 1055 TOTAL VOLUME PURGED: 31,150

SAMPLE START TIME: 0932 / 1055 SAMPLE END TIME: 0940 / 1101

* - ml removed before purging began

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (mS/cm) ~~(µS/cm)~~	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
JK 11-22-23 ~~0845~~			~~4.68~~		~~301~~	~~14.45~~	~~17.67~~		
0853	250	1,400*	6.29	1.22	7.7	9.01	15.88	216	9.33
0856		2,150	6.56	1.20	8.5	3.01	15.82	212	9.34
0859		2,900	6.70	1.19	7.4	2.17	15.83	205	9.37
0902		3,650	6.78	1.18	6.3	1.77	15.83	196	9.38
0905		4,400	6.83	1.17	6.0	1.57	15.83	192	9.39
0908		5,150	6.85	1.17	4.9	1.47	15.83	189	9.40
0911		5,900	6.86	1.17	4.8	1.38	15.79	186	9.41
0914		6,650	6.87	1.16	3.7	1.33	15.71	183	9.41
0917		7,400	6.88	1.16	4.1	1.29	15.72	181	9.41
0932		11,150	6.89	1.14	4.3	1.24	15.70	172	9.42
0955		16,150	6.91	1.12	2.7	1.40	15.70	162	9.45
1010		19,900	6.92	1.11	3.1	1.32	15.73	157	9.44
1025		23,650	6.93	1.10	2.7	1.27	15.70	153	9.44

Recorded By: J. King 11-22-2023 QA: Hannah Hess 11/29/23

DATE: 11-22-2023

FIELD CREW: Jared King & Lon Hoover Witness: none

JK / 11-22-23

WEATHER: 40° F, cloudy.

JK / 11-22-23

DAILY TASK ACTIVITY: 0800 - Arive at SLAPS to calibrate instruments and load equipment for groundwater sampling of HISS-10.

0830 - Arive at HISS-10 to sample groundwater for Rad, metals, and 3 well volume informational.

1 well volume = (25.7 - 8.80) .16 = 2.704 gal

2.704 gal x 3785 ml/gal = 10,234 mls

10,234 ml x 3 = 30,702 mls in 3 well volumes

0845 - started pumping at 150 mls/minute.

0851 - adjusted purge rate to 250 mls/minute.

0863 - Began purging HISS-10.

0932 - Began sampling for Rad & metals after 1 well volume.

0940 - Concluded Rad & metals sampling. Resumed micropurging to get to 3 well volumes.

1,250 mls removed while sampling.

0955 - Reached 3 well volumes pumped, began sampling the informational bottle.

1101 - Completed informational sample Loaded up equipment & returned to SLAPS.

Recorded By: J. King 11-22-2023 QA: Hannah Hess 11/29/23

DATE: 11-22-23

FIELD CREW: see page 80 witness: none

WEATHER: see page 80

WELL ID: HISS-10 SAMPLE ID: see page 80

TOTAL DEPTH: 25.7 WELL DIAMETER: 2"

SCREEN INTERVAL: 18.7 - 23.4 MIDDLE OF SCREEN: 21.1

STARTING WATER LEVEL: 8.80 FINAL WATER LEVEL: 9.44

EVACUATION METHOD: see page 80

EQUIPMENT SERIAL #'S: see page 80

JK 11-22-23

PURGE START TIME: 0853 PURGE END TIME: 1055 TOTAL VOLUME PURGED: 31,150

SAMPLE START TIME: 0932 / 1055 SAMPLE END TIME: 0940 / 1101

Continued from page 80

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (mS/cm) ~~(µS/cm)~~	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1040	250	27,400	6.92	1.12	2.8	1.21	15.69	148	9.44
1055	↓	31,150	6.93	1.11	2.8	1.20	15.73	144	9.44

JK 11-22-23

Recorded By: 11-22-23 QA: 11/29/23

COC: SLA270112 [LG11282023-05ML, LG11282023-06TA] SLA270113 [LG11282023-05ML]

DATE: 11/27/23

FIELD CREW: Hannah Hutton and Lon Hoover witness: none

WEATHER: 30°f and Sunny

WELL ID: PW46 SAMPLE ID: SLA270112 / SLA270113

TOTAL DEPTH: 23.0 WELL DIAMETER: 2"

SCREEN INTERVAL: 17.5 - 22.5 MIDDLE OF SCREEN: 20.0

STARTING WATER LEVEL: 15.44 FINAL WATER LEVEL: 17.53

EVACUATION METHOD: micropurge with peristaltic pump

EQUIPMENT SERIAL #'S: Horiba: GLW103288, WLI: GLW103228, peristaltic pump: D1400S132

PURGE START TIME: 0846 PURGE END TIME: 1014 TOTAL VOLUME PURGED: 13850

SAMPLE START TIME: 0913 / 1014 SAMPLE END TIME: 0924 / 1023

*mL removed before purging began FIELD PARAMETERS continued on page 84

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (mS/cm) ~~(µS/cm)~~	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
0846	150	650*	6.33	2.47	0.0	7.55	14.30	255	15.63
0849	150	1100	6.45	2.44	0.0	2.61	14.07	253	15.72
0852	150	1550	6.49	2.42	0.0	2.03	13.94	251	15.80
0855	150	2000	6.50	2.41	0.0	1.70	14.02	245	15.87
0858	150	2450	6.50	2.41	0.0	1.50	14.09	235	15.95
0901	150	2900	6.50	2.38	0.0	1.40	14.14	221	16.02
0904	150	3350	6.50	2.39	0.0	1.30	14.15	197	16.19
0907	150	3800	6.50	2.39	0.0	1.24	14.17	174	16.16
0910	150	4250	6.50	2.43	0.0	1.19	14.17	154	16.20
0913	150	4700	6.51	2.43	0.0	1.14	14.13	131	16.25
0924	150	6350	6.52	2.41	0.0	1.18	13.59	86	16.44
0934	150	7850	6.51	2.43	0.0	.96	14.19	69	16.57
0944	150	9350	6.53	2.44	0.0	.90	14.28	59	16.71
0954	150	10850	6.54	2.46	0.0	.87	14.54	53	16.91

Recorded By: Hannah Hutton 11/27/23 QA: 11/27/23

DATE: 11/27/23

FIELD CREW: Hannah Hutton and Ian Hoover witness: none

WEATHER: 30°F and Sunny

WELL ID: PW46 SAMPLE ID: SLA270112 / SLA270113

TOTAL DEPTH: 23.0 WELL DIAMETER: 2"

SCREEN INTERVAL: 17.5 - 22.5 MIDDLE OF SCREEN: 20.5

STARTING WATER LEVEL: 15.44 FINAL WATER LEVEL: 17.53

EVACUATION METHOD: See page 83

EQUIPMENT SERIAL #'S: See page 83

HH 11/27/23

PURGE START TIME: 0846 PURGE END TIME: 1014 TOTAL VOLUME PURGED: 13850

SAMPLE START TIME: 0913 / 1014 SAMPLE END TIME: 0924 / ~~1023~~ HH 11/27/23 1023

FIELD PARAMETERS

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (mS/cm) ~~(µS/cm)~~ HH 11-28-23	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
1004	150	12,350	6.54	2.48	0.0	.83	14.62	51	17.18
1014	150	13850	6.53	2.47	0.0	.83	14.84	51.	17.30

HH 11/27/23

Recorded By: Hannah Hutton 11/27/23 QA: Ian S. Hoover 11/28/23

DATE: 11/27/23

FIELD CREW: Hannah Hutton and Ian Hoover witness: none

HH 11/27/23

WEATHER: 30°F and Sunny

HH 11/27/23

DAILY TASK ACTIVITY: 0800 arrive at SLAPS to calibrate instruments and load equipment for groundwater sampling at PW46. Safety topic: cold weather.
0830: arrive at PW46 to sample groundwater for Rad, metals and ≥3 well volume informational.

1 well volume = (23.0 - 15.44)(.16) = 1.21 Gl (3785) = 4578 mL

4578 mL x 3 = 13,734 mL in 3 well volumes

0841 started pumping at 50 mL/min

0842 adjusted purge rate to 150 mL/min

0846 began purging PW46

0913 began sampling for rad and metals after 1 well volume

0924 completed rad and metals sampling. resumed micropurging to get to 3 well volumes. 1650 mL removed while sampling.

1014 reached 3 well volumes pumped, began sampling the informational bottle.

1023 completed informational sample. Loaded up equipment and returned to SLAPS to secure samples.

Recorded By: Hannah Hutton 11/27/23 QA: Ian S. Hoover 11/28/23

DATE: 11/28/23

FIELD CREW: Lon Hoover & Jaled King Witness: none

ZH | 11.28.23

WEATHER: Mostly Sunny, 23°F

ZH | 11.28.23

DAILY TASK ACTIVITY: 0800 - Meet at SLAPS to calibrate Horiba and load equipment for groundwater sampling at N/C.
0835 - Arrive at B53W175 to sample for: Rad & metals
1 well volume = (35.5' - 16.82')(0.65) = 12 g. .3785 = 45,430 mL
0850 - Begin pumping B53W175 @ 150 mL/min.
0855 - Adjust purge rate of B53W175 to 250 mL/min
0858 - Begin purging of B53W175.
1136 - We will continue purging B53W175 for an additional 14 minutes to achieve the required 1 well volume. The field parameters for last purge reading are documented below:
1150 => pH = 6.54, Sp. Cond. = 5.57, Turb. = 0, D.O. = 0.28, Temp. = 13.98, ORP = 172, Water Level = 17.52. Begin sampling of B53W175.
1200 - Complete sampling of B53W175 and move back to SLAPS to secure samples and off-load equipment.

Recorded By: Lon S. Hoover 11/28/23 QA: Lon S. Hoover 11/28/23

COC: LG11282023-07ML
LG11282023-08TA

DATE: 11/28/23

FIELD CREW: Lon Hoover & Jaled King Witness: none

WEATHER: Mostly Sunny, 23°F

WELL ID: B53W175 SAMPLE ID: SVP27012000

TOTAL DEPTH: 35.5' WELL DIAMETER: 4"

SCREEN INTERVAL: 20.3' - 30.3' MIDDLE OF SCREEN: 25.3'

STARTING WATER LEVEL: 16.82' FINAL WATER LEVEL: 17.51'

EVACUATION METHOD: Micro purging with Bladder Pump

EQUIPMENT SERIAL #'S: Horiba = GLW1003285, WLI = GLW1003228
Pump controller = GLW1003249

PURGE START TIME: 0858 PURGE END TIME: 1150 TOTAL VOLUME PURGED: 45,550 mL

SAMPLE START TIME: 1150 SAMPLE END TIME: 1200

*mL removed before purging began **FIELD PARAMETERS**

Time	Purge Rate (mL/min)	mLs Removed	pH (SUs)	Sp. Cond. (mS/cm) ~~µS/cm~~	Turb. (NTUs)	D.O. (mg/L)	Temp. (°C)	ORP (mV)	Water Level (ft/BTOC)
0858	250	2750*	5.94	5.43	0	4.50	13.70	285	17.09
0901		3500	6.41	5.42	0	1.94	13.13	263	17.15
0904		4250	6.49	5.43	0	1.50	12.95	257	17.20
0907		4800	6.52	5.41	0	1.38	12.57	252	17.24
0910		5550	6.52	5.45	0	1.33	11.67	250	17.25
0913		6300	6.52	5.46	0	1.17	12.37	247	17.26
0916		7050	6.54	5.47	0	1.01	12.49	245	17.27
0936		12050	6.54	5.45	0	0.77	12.85	232	17.35
0956		17050	6.54	5.47	0	0.62	13.04	220	17.44
1016		22050	6.53	5.49	0	0.56	12.55	210	17.47
1036		27050	6.54	5.50	0	0.53	12.90	202	17.48
1056		32050	6.53	5.54	0	0.47	13.09	193	17.51
1116		37050	6.53	5.56	0	0.42	13.19	184	17.51
1136'		42050	6.54	5.58	0	0.38	13.07	176	17.51

Recorded By: Lon S. Hoover 11/28/23 QA: [illegible] 11/29/23

' = see note(s) on pg. # 86

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APPENDIX I

DOSE ASSESSMENT ASSUMPTIONS

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DOSE ASSESSMENT ASSUMPTIONS

DOSE FROM THE LATTY AVENUE PROPERTIES TO A MAXIMALLY EXPOSED INDIVIDUAL

The TEDE to a hypothetical maximally exposed individual was calculated for an area adjacent to the VP-40A railroad tracks. Dose from the remainder of the Latty Avenue Properties is considered negligible.

This section discusses the estimated TEDE to a hypothetical maximally exposed individual assumed to work in an area directly adjacent to the railroad tracks on VP-40A near the fence on the boundary of VP-40A and Futura. No private residences are adjacent to the site. Therefore, all calculations of dose equivalent due to the applicable pathway assume a realistic residence time that is less than 100 percent. A full-time-employee business receptor was considered the maximally exposed individual for the Latty Avenue Properties.

The exposure scenario assumptions are as follows:

- Exposure to external gamma radiation and radon from Futura/VP-40A sources occurs to the maximally exposed individual while working full time outside at the receptor location (i.e., Futura) located approximately 50 m east from the area identified as having the highest external gamma level in the area adjacent to Futura. Exposure time is 2,000 hours per year (Leidos 2024b).
- Exposure from external gamma radiation was calculated using environmental TLD monitoring data at the perimeter between the source and the receptor. The site is assumed to represent a line-source to the receptor (Leidos 2024b).
- Exposure from Rn-222 (and decay chain isotopes) was calculated using a dispersion factor and Rn-222 (ATD) monitoring data at the site perimeter between the source and the receptor (Leidos 2024b).

Airborne Radioactive Particulates

No RA excavations near the Latty Avenue Properties were performed in CY 2023, and potentially contaminated soil is covered by asphalt/concrete, gravel/railroad ballast, and vegetative ground cover; therefore, dose due to air particulate emissions was assumed to be negligible.

External Gamma Pathway

The Futura/VP-40A TLDs measured an average above background annual exposure of 5.9 mrem per year based on 8,760 hours of continuous exposure. The dose equivalent due to gamma exposure for the maximally exposed individual is estimated by assuming the site approximates a line source with a source strength (H_1) that is the average of the TLD measurements between the source and the receptor (Cember 1996).

$$H_1 = 5.9 \text{ mrem/year}$$

Based on a 100-percent occupancy rate, the exposure rate (H_2) to the receptor was calculated.

$$H_2 = H_1 \times \frac{h_1}{h_2} * \frac{\tan^{-1}(L/h_2)}{\tan^{-1}(L/h_1)}$$

$$H_2 = 3.1E\text{-}01 \text{ mrem/year}$$

where:

H_2 = exposure rate to the receptor (continuous exposure)
H_1 = exposure rate to TLDs
h_2 = distance from source to receptor = 50 m
h_1 = distance from source to TLDs = 5 m
L = average distance from centerline of the line source (H_1) to the end of the line source = 50 m

The actual dose to the maximally exposed individual, who is present during a normal work year only, was calculated.

$$H_{MEI} = H_2 \times \frac{2{,}000 \text{ hours per work year}}{8{,}760 \text{ hours per total year}} = 7.2\text{-}02 \text{ mrem/year}$$

$$H_{MEI} = <0.1 \text{ mrem/year}$$

Airborne Radon Pathway

The Futura/VP-40A ATDs measured an average above background annual exposure of 0.03 pCi/L based on 8,760 hours of continuous exposure. Exposure to the receptor from radon (and decay chain isotopes) was estimated using a dispersion factor (C_2) and the average ATD monitoring data (S_1) at the site perimeter between the source and the receptor (Leidos 2024b).

To calculate the dispersion factor, the radon concentrations were determined for a receptor located at 1 m and 50 m east of the monitored area on Futura/VP-40A by inputting a radon release rate of 1 Ci per year, the St. Louis – Lambert International Airport wind file, and a surface area of 300 m^2 into the CAP88-PC model. The CAP88-PC input data and the result of the CAP88-PC run are highlighted and presented in Appendix B. The radon dispersion factor (C_2) for the site was calculated as follows.

$$C_2 = (1.65E\text{-}02)/(2.25E\text{-}02) = 0.73$$

The average of ATD monitoring data (S_1) at the site perimeter (Futura fence line) was calculated as follows.

$$S_1 = 0.03 \text{ pCi/L}$$

The actual radon exposure dose to the hypothetical maximally exposed individual was calculated.

$$S_{MEI} = S_1 \times F \times DCF \times T \times C_1 \times C_2$$

$$S_{MEI} = 0.03 \text{ pCi/L} * 0.007 \text{ WL/pCi.L} * 1{,}250 \text{ mrem/WLM} * 2{,}000 \text{ hours/year} * 1 \text{ month/170 hours} * 0.73$$

$$S_{MEI} = 2.0 \text{ mrem/year}$$

where:

S_{MEI} = radon exposure to the hypothetical maximally exposed individual
S_1 = fenceline average of ATD measurements between source and receptor
F = equilibrium fraction based on Section 4 of *Measurement of Radon and Radon Daughters in Air,* 1 WL = 100 pCi/L and 0.7 outdoor equilibrium factor (NRCP 1988)
DCF = dose conversion factor (USEPA 1989b) = 1,250 mrem per WLM
T = exposure time = 2,000 hours per year
C_1 = occupancy factor constant = 1 month per 170 hours

C_2 = constant derived using CAP88-PC Version 4.1, the Lambert – St. Louis International Airport wind file (assuming a distance of 50 m), and an impacted surface area of 300 m^2). Calculation assumes a 1 Ci per year radon release rate, then ratios the concentrations at 1 m and 50 m to determine the constant.
WL = working level (concentration unit)
WLM = working level month (exposure unit)

Total Effective Dose Equivalent

Based on the exposure scenario and assumptions described previously, a maximally exposed individual working outside at the receptor facility 50 m east of the area adjacent to Futura identified as having the highest external gamma level would have received less than 0.1 mrem per year from airborne particulates, less than 0.1 mrem per year from external gamma, and 2.0 mrem per year from Rn-222, for a TEDE of 2.1 mrem per year (Leidos 2024b).

$$TEDE = CEDE\ (airborne\ particulates) + H_{MEI}\ (external\ gamma) + S_{MEI}\ (airborne\ radon)$$

$$TEDE = negligible + <0.1\ mrem/year + 2.0\ mrem/year = 2.1\ mrem/year$$

DOSE FROM THE ST. LOUIS AIRPORT SITE TO A MAXIMALLY EXPOSED INDIVIDUAL

A full-time-employee business receptor was evaluated to determine the maximally exposed individual from the SLAPS. The business receptor worked full time at a facility located approximately 200 m west-northwest of the center of the SLAPS Loadout area. Exposure time was 2,000 hours per year (250 days per year).

Gamma radiation and radon exposure measured at the SLAPS perimeter assumes a hypothetical member of the public would be at the same location 24 hours per day, 365 days per year. Dose to the nearest member of the public is dependent upon the member's proximity to the gamma source and amount of time spent at the affected site. A residence-based exposure assumes a 100-percent occupancy rate at a given location. No public areas or residences exist near the SLAPS; therefore, exposure to a residence-based receptor is greatly reduced due to the distance relative to the site. A worker exposure assumes that a worker's occupancy rate is 23 percent, based on 40 hours per week for 50 weeks per year. The worker-based receptor is a more realistic choice to represent the hypothetical maximally exposed individual, because of the proximity of the receptor. A realistic assessment of dose can be performed using conservative assumptions of occupancy rate and distance from the source.

The following dose assessment is for a maximally exposed individual who works full time (2,000 hours per year) at a location approximately 200 m west-northwest of the center of the SLAPS Loadout area.

Airborne Radioactive Particulates

The EDE of 0.4 mrem per year to the receptor was calculated using activity fractions and air particulate monitoring data to determine source terms, and then using the USEPA CAP88-PC modeling code to calculate doses to the receptor at 200 m west-northwest of the center of the SLAPS Loadout area, 200 m east-southeast of the IA-09 Ballfield excavations, and 400 m west of the James S McDonnell Boulevard excavations (Leidos 2024c). Details related to calculation of EDEs for the exposed receptors are contained in Appendix B of this EMDAR.

External Gamma Pathway

The SLAPS TLDs measured an average above background annual exposure of 14.2 mrem per year based on 8,760 hours of continuous exposure. The dose equivalent due to gamma exposure for the maximally exposed individual is estimated by assuming the site approximates a line source with a source strength (H_1) that is the average of the TLD measurements between the source and the receptor (Cember 1996).

$$H_1 = 19.5 \text{ mrem/year}$$

Based on a 100-percent occupancy rate, the exposure rate (H_2) to the receptor was calculated.

$$H_2 = H_1 \times \frac{h_1}{h_2} * \frac{\tan^{-1}(L/h_2)}{\tan^{-1}(L/h_1)}$$

$$H_2 = 2.7 \text{ mrem/year}$$

where:

H_2 = exposure rate to the receptor (continuous exposure)
H_1 = exposure rate to TLDs
h_2 = distance from source to receptor = 200 m
h_1 = distance from source to TLDs = 70 m
L = average distance from centerline of the line source (H_1) to the end of the line source = 50 m

The actual dose to the maximally exposed individual, who is present during a normal work year only, was calculated.

$$H_{MEI} = H_2 \times \frac{2{,}000 \text{ hours per work year}}{8{,}760 \text{ hours per total year}} = 0.6 \text{ mrem/year}$$

$$H_{MEI} = 0.6 \text{ mrem/year}$$

Airborne Radon Pathway

The SLAPS ATDs measured an average above background annual exposure of 0.01 pCi/L based on 8,760 hours of continuous exposure.

Exposure to the receptor from radon (and decay chain isotopes) was estimated using a dispersion factor (C2) and the average ATD monitoring data (S1) at the site perimeter between the source and the receptor (Leidos 2024c).

To calculate the dispersion factor, the radon concentrations were determined for a receptor located at 1.0 m and 200 m west-northwest of the SLAPS Loadout pile by inputting a radon release rate of 1.0 Ci per year, the St. Louis – Lambert International Airport wind file, and a surface area of 5,000 m^2 into the CAP88-PC model. Effective surface area was determined by summing the time-weighted average annual open surface areas for the SLAPS Loadout area. The CAP88-PC input data and the result of the CAP88-PC run are highlighted and contained in Appendix B. The radon dispersion factor (C2) for the site was calculated as follows.

$$C2 = (1.39E\text{-}03)/(7.43E\text{-}03) = 0.19$$

The average of ATD monitoring data (S_1) at the site perimeter (the SLAPS Loadout area) was calculated as follows.

$$S_1 = (0 + 0.01 + 0 + 0.03) / 4 = 0.01 \text{ pCi/L}$$

The actual radon exposure dose to the hypothetical maximally exposed individual was calculated.

$$S_{MEI} = S_1 \times F \times DCF \times T \times C_1 \times C_2$$

$$S_{MEI} = 0.1 \text{ pCi/L} * 0.007 \text{ WL/pCi/L} * 1250 \text{ mrem/WLM} * 2000 \text{ hours/year} * 1 \text{ month}/170 \text{ hours} * 0.19$$

$$S_{MEI} = 0.2 \text{ mrem/year}$$

where:

- S_{MEI} = radon exposure to the hypothetical maximally exposed individual
- S_1 = fenceline average of ATD measurements between source and receptor
- F = equilibrium fraction based on Section 4 of *Measurement of Radon and Radon Daughters in Air,* 1 WL = 100 pCi/L and 0.7 outdoor equilibrium factor (NRCP 1988)
- DCF = dose conversion factor (USEPA 1989b) = 1,250 mrem per WLM
- T = exposure time = 2,000 hours per year
- C_1 = occupancy factor constant = 1 month per 170 hours
- C_2 = constant derived using CAP88-PC Version 4.1, the Lambert – St. Louis International Airport wind file (assuming a distance of 200 m, and an impacted surface area of 5,000 m^2). Calculation assumes a 1 Ci per year radon release rate, then ratios the concentrations at 70 m (source to detector) and 200 m (source to receptor) to determine the constant.
- WL = working level (concentration unit)
- WLM = working level month (exposure unit)

Total Effective Dose Equivalent

$$TEDE = CEDE \text{ (airborne particulates)} + H_{MEI} \text{ (external gamma)} + S_{MEI} \text{ (airborne radon)}$$

$$TEDE = 0.4 \text{ mrem/year} + 0.6 \text{ mrem/year} + 0.2 \text{ mrem/year} = 1.2 \text{ mrem/year}$$

DOSE FROM THE ST. LOUIS AIRPORT SITE VICINITY PROPERTIES TO A MAXIMALLY EXPOSED INDIVIDUAL

A full-time, residence-based receptor was evaluated to determine the maximally exposed individual from the SLAPS VPs, because the RA work conducted on the SLAPS VPs occurred in the vicinity of the receptor. The residence-based receptor lived full-time during CY 2023 at a location approximately 50 m east of the CWC-386, CWC-387, and CWC-388 (Northwest Bank of CWC) excavation areas. Exposure time was 8,760 hours per year (365 days per year).

Gamma radiation and radon exposure were considered negligible at the excavation area. Therefore, only exposure to airborne radioactive particulates was considered in the dose estimate calculation.

Airborne Radioactive Particulates

An EDE of 3.5 mrem per year to the residential receptor was calculated using activity fraction and air particulate monitoring data to determine a source term, and then using the USEPA CAP88-PC modeling code to calculate dose to the receptor at 50 m east of the CWC-386, CWC-387, and CWC-388 (Northwest Bank of CWC) excavation areas (Leidos 2024c). Details related to calculation of EDEs for the exposed receptors are contained in Appendix B of this EMDAR.

Total Effective Dose Equivalent

$$TEDE = CEDE\ (\text{airborne particulates}) + H_{MEI}\ (\text{external gamma}) + S_{MEI}\ (\text{airborne radon})$$

$$TEDE_{CWC\text{-}386,\ -387,\ \text{and}\ -388\ (\text{Northwest Bank of CWC})} = 3.5\ \text{mrem/year} + \text{negligible} + \text{negligible} = 3.5\ \text{mrem/year}$$

DOSE FROM COLDWATER CREEK TO A MAXIMALLY EXPOSED INDIVIDUAL

The following dose assessment is for a maximally exposed individual assumed to be a youth (10-year-old child) who spends time at CWC for recreational purposes.

Contaminated Water Ingestion (Leidos 2024d)

The UCL_{95} values of the average contamination values measured in CWC surface water in CY 2023 at each monitoring station (Table I-1) were used to calculate the EDE to the receptor from an intake of contaminated water. Assumptions follow.

The receptor visits CWC as a recreational user once every 2 weeks (26 visits per year), and the receptor drinks 2 L per day of contaminated water from CWC during each visit (USEPA 1989c).

The TEDE due to ingestion of surface water ($TEDE_W$) was calculated.

$$TEDE_W = \Sigma\ (TEDE_{Tot\text{-}U},\ TEDE_{Th\text{-}228},\ TEDE_{Th\text{-}230},\ TEDE_{Th\text{-}232},\ TEDE_{Ra\text{-}226},\ TEDE_{Ra\text{-}228})$$

$$TEDE_i = (\text{Average})\ \text{pCi/L} \times 2.0\ \text{L/day} \times 26\ \text{days/year} \times \text{DCF mrem/pCi}$$

Table I-1. Average Values for Radionuclides for CY 2023

Radionuclides	Average Concentration	Unit
Ra-226	0.78	pCi/L
Th-228	0.71	pCi/L
Th-230	0.94	pCi/L
Th-232	0.60	pCi/L
Total U	2.14	pCi/L

The dose conversion factors (DCFs) (ORNL 2014) for radionuclides present in CWC surface water are presented in Table I-2.

Table I-2. Radionuclide Dose Conversion Factors for CY 2023

Radionuclides	DCF[a]	Unit
Ra-226	2.97E-03	mrem/pCi
Th-228	5.07E-04	mrem/pCi
Th-230	9.10E-04	mrem/pCi
Th-232	1.07E-03	mrem/pCi
Total U	2.63E-04	mrem/pCi

[a] For a youth (10-year-old child).

Therefore:

$$TEDE_{Ra\text{-}226} = 0.78\ \text{pCi/L} \times 2.0\ \text{L/day} \times 26\ \text{day/year} \times 2.97\text{E-}03\ \text{mrem/pCi} = 1.21\text{E-}01\ \text{mrem/year}$$

$$TEDE_{Th\text{-}228} = 0.71\ \text{pCi/L} \times 2.0\ \text{L/day} \times 26\ \text{day/year} \times 5.07\text{E-}04\ \text{mrem/pCi} = 1.86\text{E-}02\ \text{mrem/year}$$

$$TEDE_{Th\text{-}230} = 0.94 \text{ pCi/L} \times 2.0 \text{ L/day} \times 26 \text{ day/year} \times 9.10E\text{-}04 \text{mrem/pCi}$$
$$= 4.44E\text{-}02 \text{ mrem/year}$$

$$TEDE_{Th\text{-}232} = 0.60 \text{ pCi/L} \times 2.0 \text{ L/day} \times 26 \text{ day/year} \times 1.07E\text{-}3 \text{ mrem/pCi}$$
$$= 3.36E\text{-}02 \text{ mrem/year}$$

$$TEDE_{Tot\text{-}U} = 2.14 \text{ pCi/L} \times 2.0 \text{ L/day} \times 26 \text{ day/year} \times 2.63E\text{-}04 \text{ mrem/pCi}$$
$$= 2.93E\text{-}02 \text{ mrem/year}$$

$$TEDE_W = 2.47E\text{-}01 \text{ mrem/year}$$

Contaminated Sediment Ingestion (Leidos 2024d)

The UCL_{95} values of the average contamination values measured in CWC sediment in CY 2023 at each monitoring station (Table I-3) were used to calculate the EDE to the receptor from an intake of contaminated sediment. Assumptions follow.

The receptor visits CWC as a recreational user once every 2 weeks (26 visits per year). The receptor ingests 50 mg per day of contaminated sediment from CWC during each visit (USEPA 1989c).

The TEDE due to ingestion of contaminated sediment ($TEDE_S$) was calculated.

$$TEDE_S = \Sigma (TEDE_{Tot\text{-}U}, TEDE_{Th\text{-}228}, TEDE_{Th\text{-}230}, TEDE_{Th\text{-}232}, TEDE_{Ra\text{-}226}, TEDE_{Ra\text{-}228})$$

$$TEDE_i = \text{(Average) pCi/g} \times 0.05 \text{ g/day} \times 26 \text{ days/year} \times \text{DCF mrem/pCi}$$

Table I-3. Average Values for Radionuclide for CY 2023

Radionuclides	Average Concentration	Unit
Ra-226	1.21	pCi/g
Ra-228	0.76	pCi/g
Th-228	1.18	pCi/g
Th-230	6.31	pCi/g
Th-232	0.99	pCi/g
Total U	2.37	pCi/g

The DCFs (ORNL 2014) for radionuclides present in CWC sediment are presented in Table I-4.

Table I-4. Radionuclide Dose Conversion Factors for CY 2023

Radionuclides	DCF[a]	Unit
Ra-226	2.97E-03	mrem/pCi
Ra-228	1.45E-02	mrem/pCi
Th-228	5.07E-04	mrem/pCi
Th-230	9.10E-04	mrem/pCi
Th-232	1.07E-03	mrem/pCi
Total U	2.63E-04	mrem/pCi

[a] For a youth (10-year-old child).

Therefore:

$$TEDE_{Ra\text{-}226} = 1.21 \text{ pCi/g} \times 0.05 \text{ g/day} \times 26 \text{ day/year} \times 2.97E\text{-}03 \text{ mrem/pCi}$$
$$= 4.66E\text{-}03 \text{ mrem/year}$$

$$TEDE_{Ra\text{-}228} = 0.76 \text{ pCi/g} \times 0.05 \text{ g/day} \times 26 \text{ day/year} \times 1.45E\text{-}02 \text{ mrem/pCi}$$
$$= 1.43E\text{-}02 \text{ mrem/year}$$

$$TEDE_{Th\text{-}228} = 1.18\ pCi/g \times 0.05\ g/day \times 26\ day/year \times 5.07E\text{-}04\ mrem/pCi$$
$$= 7.75E\text{-}04\ mrem/year$$

$$TEDE_{Th\text{-}230} = 6.31\ pCi/g \times 0.05\ g/day \times 26\ day/year \times 9.10E\text{-}04\ mrem/pCi$$
$$= 7.46E\text{-}03\ mrem/year$$

$$TEDE_{Th\text{-}232} = 0.99\ pCi/g \times 0.05\ g/day \times 26\ day/year \times 1.07E\text{-}3\ mrem/pCi2$$
$$= 1.37E\text{-}03\ mrem/year$$

$$TEDE_{Tot\text{-}U} = 2.37\ pCi/g \times 0.05\ g/day \times 26\ day/year \times 2.63E\text{-}4\ mrem/pCi$$
$$= 8.11E\text{-}04\ mrem/year$$

$$TEDE_S = 2.94E\text{-}02\ mrem/year$$

Total Effective Dose Equivalent

$$TEDE = TEDE_W + TEDE_S$$

$$TEDE = 2.47E\text{-}01\ mrem/year + 2.94E\text{-}02\ mrem/year = 0.3\ mrem/year$$