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DEPARTMENT OF ENERGY
Environmental Management Los Alamos Field Office (EM-LA)
Los Alamos, New Mexico 87544

EMLA-24-BF103-2-1

December 22, 2023



Mr. Rick Shean
Designated Agency Manager
Hazardous Waste Bureau
New Mexico Environment Department
2905 Rodeo Park Drive East, Building 1
Santa Fe, NM 87505-6313

Subject: Submittal of the Solid Waste Management Unit Assessment Report for the Middle DP Road Site

Dear Mr. Shean:

Enclosed please find two hard copies with electronic files of the "Solid Waste Management Unit Assessment Report for the Middle DP Road Site." This report documents the work executed in accordance with the "Solid Waste Management Unit Assessment Work Plan for Middle DP Road Site, Revision 1," as approved by the New Mexico Environment Department on April 5, 2021. Submittal of this report fulfills section 7 of the work plan, which requires a report 6 months after completion of field execution. Field execution was completed on July 21, 2023.

If you have any questions, please contact Brenda Bowlby at (360) 930-4353 (brenda.bowlby@em-la.doe.gov) or Susan Wacaster at (505) 709-8704 (susan.wacaster@em.doe.gov).

Sincerely,

Digitally signed by Brian G. Harcek
Date: 2023.12.21 15:21:12 -07'00'

Arturo Q. Duran For
Compliance and Permitting Manager
U.S. Department of Energy
Environmental Management
Los Alamos Field Office

Enclosure(s):
1. Two hard copies with electronic files:
   Solid Waste Management Unit Assessment Report for the Middle DP Road Site (EM2023-0739)

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December 2023
EM2023-0739

Solid Waste Management Unit Assessment Report for the Middle DP Road Site

N3B Los Alamos

Newport News Nuclear BWXT-Los Alamos, LLC (N3B), under the U.S. Department of Energy Office of Environmental Management Contract No. 89303318CEM000007 (the Los Alamos Legacy Cleanup Contract), has prepared this document pursuant to the Compliance Order on Consent, signed June 24, 2016. The Compliance Order on Consent contains requirements for the investigation and cleanup, including corrective action, of contamination at Los Alamos National Laboratory. The U.S. government has rights to use, reproduce, and distribute this document. The public may copy and use this document without charge, provided that this notice and any statement of authorship are reproduced on all copies.

EM2023-0739

Solid Waste Management Unit Assessment Report for the Middle DP Road Site

December 2023

Responsible N3B program director:

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Printed Name	Signature	Title	Organization	Date

Responsible N3B representative:

Troy Thomson		Program Manager	N3B Environmental Remediation Program	12/15/23
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Responsible DOE EM-LA representative:

Arturo Q. Duran	Digitally signed by Brian G. Harcek Date: 2023.12.21 11:47:30 -07'00'	Compliance and Permitting Manager	Office of Quality and Regulatory Compliance	
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EXECUTIVE SUMMARY

This solid waste management unit (SWMU) assessment report (SAR) evaluates the nature and extent of contamination and potential human health and ecological risks associated with areas of debris and potentially contaminated soil recently discovered on former U.S. Department of Energy (DOE) property currently owned by Los Alamos County (LAC). The property is situated within portions of two tracts of land that have been conveyed to LAC. The areas of debris and potential soil contamination are located within portions of land conveyance and transfer tracts A-8-a and A-16-a, which were conveyed from DOE and the National Nuclear Security Administration to LAC for future development. The areas of potential contamination within tracts A-8-a and A-16-a are designated as the Middle DP Road (MDPR) site.

A SWMU assessment work plan was prepared by DOE to identify the characterization activities required to evaluate the nature and extent of contamination for the MDPR site and to determine whether this site should be included in Appendix A of the 2016 Compliance Order on Consent (Consent Order) as a newly discovered SWMU or area of concern, or if no further Consent Order action is required. This SAR describes the investigation activities implemented in accordance with the SWMU assessment work plan and evaluates the potential human health and ecological risks. Based on the results of data evaluations presented in this SAR, the extent of contamination has been defined and a determination has been made that no further sampling for extent is warranted within the MDPR site. Human health and ecological risk assessments for the MDPR site demonstrate no potential unacceptable human-health risks under the residential, industrial, construction worker, and recreational scenarios and no potential unacceptable risk to ecological receptors. Based on the investigation results and remediation activities, no further actions under the 2016 Consent Order are needed. Pursuant to Section X.C.1 of the Consent Order, the MDPR site should not be added to Appendix A as a new SWMU or area of concern.

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Attachments

Attachment 1 White Paper on Manganese at the Middle DP Road Site and New Mexico Environment Department Response

Attachment 2 White Paper on Arsenic at the Middle DP Road Site and New Mexico Environment Department Response

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1.0 INTRODUCTION

Los Alamos National Laboratory (LANL or the Laboratory) is a multidisciplinary research facility owned by the U.S. Department of Energy (DOE) and managed by Triad National Security, LLC (Triad). The Laboratory is located in north-central New Mexico, approximately 60 mi northeast of Albuquerque and 20 mi northwest of Santa Fe. The Laboratory site covers approximately 36 mi^2 of the Pajarito Plateau, which consists of a series of fingerlike mesas separated by deep canyons that contain perennial and intermittent streams running from west to east. Mesa tops range in elevation from approximately 6200 to 7800 ft above mean sea level.

The mission of the DOE Environmental Management Los Alamos Field Office (EM-LA) is to safely, efficiently, and transparently complete the cleanup of legacy contamination and waste resulting from nuclear weapons development and government-sponsored nuclear research before 1999 at the Laboratory. EM-LA's cleanup scope under the 2016 Compliance Order on Consent (Consent Order) with the New Mexico Environment Department (NMED) includes waste, soil, and groundwater remediation. The cleanup sites are designated as either solid waste management units (SWMUs) or areas of concern (AOCs). EM-LA's cleanup contractor, Newport News Nuclear BWXT-Los Alamos, LLC (N3B), implements the Los Alamos Legacy Cleanup Contract.

This SWMU assessment report (SAR) addresses a former DOE property adjacent to Technical Area 21 (TA-21), which is currently owned by Los Alamos County (LAC). On February 20, 2020, DOE made a verbal notification to NMED that on February 14, 2020, an LAC public utilities subcontractor encountered debris during excavation activities for a new sewer utility line designed to serve two new housing complexes and existing facilities along DP Road within the west end of TA-21. EM-LA and DOE's National Nuclear Security Administration Field Office (NA-LA), along with N3B and Triad, prepared and submitted details of the event on March 9, 2020 (DOE 2020, 700839), which also included an initial, joint response to the February 28, 2020, request for information from NMED (2020, 700783). The area where the debris was encountered is within land conveyance and transfer tracts A-8-a and A-16-a, south of DP Road and west of TA-21. The areas of potential contamination within tracts A-8-a and A-16-a have been designated as the Middle DP Road (MDPR) site (Figure 1.0-1).

Hazardous chemicals and radionuclides from historical Laboratory operations at TA-21 were believed to be the source of the soil contamination discovered at the MDPR site. Corrective actions at the Laboratory are subject to the Consent Order. The Consent Order was issued pursuant to the New Mexico Hazardous Waste Act, New Mexico Statutes Annotated (NMSA) 1978, Section 74-4-10, and the New Mexico Solid Waste Act, NMSA 1978, Section 74-9-36(D). DOE regulates cleanup of radioactive contamination, pursuant to DOE Order 458.1, Change 4, "Radiation Protection of the Public and the Environment," and DOE Order 435.1, "Radioactive Waste Management." Information on radioactive materials and radionuclides, including the results of sampling and analysis of radioactive constituents, is voluntarily provided to NMED in accordance with DOE policy.

The purpose of this SAR is to comply with Section X.C of the Consent Order, which states that "DOE shall develop and implement a preliminary screening plan (including sampling and investigation activities and schedule for those activities) for such newly discovered potential SWMU or AOC, and provide NMED with the results of the preliminary screening." This SAR presents the results of site characterization and remediation activities, as well as the human health and ecological risk assessments conducted at the MDPR site.

1.1 SAR Overview

Following the March 9, 2020, submittal of the initial joint response to NMED's February 28, 2020, request for information (NMED 2020, 700783; DOE 2020, 700839), NMED requested on April 7, 2020, that DOE submit a preliminary screening plan for the MDPR site in accordance with Section X.C of the Consent Order (NMED 2020, 700838). EM-LA and N3B prepared and submitted the "Solid Waste Management Unit Assessment Work Plan for Middle DP Road Site" to NMED in December 2020 (N3B 2020, 701169). In March 2021, EM-LA and N3B prepared and submitted revision 1 of the "Solid Waste Management Unit Assessment Work Plan for Middle DP Road Site, Revision 1" (hereafter, MDPR WP R1) to NMED (N3B 2021, 701344). NMED approved the revised MDPR work plan in April 2021 (NMED 2021, 701368). The objective of the investigation activities described in the MDPR WP R1, was to determine the nature and extent of potential contamination associated with the MDPR site. Based on the results of this assessment, a determination was to be made whether this site should be included in Appendix A of the Consent Order as a newly discovered SWMU or AOC. This determination was to be based on whether the site poses a potential unacceptable risk to human health under the residential scenario. This SAR describes the work activities that were completed in accordance with the Consent Order and the approved MDPR WP R1 (N3B 2021, 701344; NMED 2021, 701368).

Section 2 of this SAR provides background information, including the history of the MDPR site. Section 3 describes the scope of site characterization activities conducted at the MDPR site in accordance with the approved SWMU assessment work plan, and section 4 provides data evaluation. Section 5 presents the results of the characterization activities, including identification of chemicals of potential concern (COPCs), evaluation of nature and extent of contamination, and assessment of potential risk to human health and ecological receptors. Conclusions and recommendations are presented in Section 6. Section 7 presents references. Appendix A contains acronyms and abbreviations, a metric conversion table, and data qualifier definitions. Appendix B provides a summary report of field activities. Appendix C presents the analytical suites and results and analytical reports (on DVD included with this document). Appendix D presents the results of statistical analysis of data, and Appendix E describes management of waste. Appendix F contains the risk assessments, including ProUCL input and output files and dioxin/furan toxicity equivalency calculation results. Appendix G provides the DOE Order 458.1 compliance report, and Appendix H contains photographs of fieldwork at the MDPR site. Attachments 1 and 2 provide the technical white papers evaluating extent of manganese and arsenic in the soil and tuff at MDPR site and NMED responses.

1.2 SAR Objectives

The first objective of this SAR is to detail the results of investigations performed at the MDPR site in accordance with the approved MDPR WP R1 (N3B 2021, 701344). The investigation activities were conducted to determine the extent of hazardous and radionuclide constituents present at the MDPR site and to assess whether contamination from this site poses a potential unacceptable risk to human health under the residential and/or construction worker scenarios or to ecological receptors. Specifically, site characterization activities identified where inorganic and organic chemicals were present above residential and/or construction worker soil screening levels (SSLs) (NMED 2022, 702484), radionuclide constituents were present above residential screening action levels (SALs) (LANL 2015, 600929), and/or chemicals and radionuclides were present above ecological preliminary remediation goals (Eco-PRGs) (LANL 2018, 602891). All locations where residential SSLs and/or SALs were exceeded, construction worker SSL for manganese were exceeded, and/or where Eco-PRGs were exceeded were excavated and confirmation samples were collected until results were below residential SSLs and/or SALs, the construction worker SSL for manganese, and/or Eco-PRGs.

The second objective is to determine whether this site should be included in Appendix A of the Consent Order as a newly discovered SWMU or AOC or if no further action related to this site should be taken. The sampling also provided data to verify that any residual radioactivity at the site meets the requirements of DOE Order 458.1, Change 4, "Radiation Protection of the Public and the Environment." This report presents details and results of the investigation activities conducted in accordance with the approved MDPR WP R1 (N3B 2021, 701344; NMED 2021, 701368).

2.0 BACKGROUND

2.1 General Site Information

The MDPR site is located on DP Mesa on the northern boundary of the Laboratory and is immediately east-southeast of the Los Alamos townsite (Figure 1.0-1). DP Mesa extends from the mesa top to the stream channels in three adjacent canyons, DP Canyon to the north and BV and Los Alamos Canyons to the south (Figure 2.1-1). The MDPR site is located to the west of TA-21 along DP Road. It is situated between the western end of former Material Disposal Area (MDA) B and the eastern end of tract A-8-b. Access to the site is from DP Road. The MDPR site is located within the footprint of tracts A-8-a and A-16-a and is directly east of tract A-8-b (Figure 2.1-1).

Tract A-8-a is an approximately 22-acre parcel located on DP Mesa between the eastern edge of the Los Alamos townsite and the western edge of TA-21 (Figure 2.1-1). Tract A-8 was originally one tract but was divided into tracts A-8-a and A-8-b in 2005. Tract A-8-a is adjacent to tract A-11 to the west, tract A-8-b to the east and north, and tract A-16-a to the north and includes the finger mesa between BV and Los Alamos Canyons. The area of the MDPR site within tract A-8-a is approximately 1.3 acres. Tract A-8-a was transferred to LAC in 2007.

Tract A-16-a is an approximately 30-acre parcel located on DP Mesa between the eastern edge of the Los Alamos townsite and the western edge of TA-21 (Figure 2.1-1). The tract consists of disturbed and undeveloped mesa top. It is adjacent to tract A-8-b to the west and tract A-8-a to the south, DP Road to the north, and TA-21 to the east. Eight SWMUs and six AOCs are located within tract A-16-a. The western portion of former MDA B (SWMU 21-015) is located within tract A-16-a; this is the only SWMU or AOC in tract A-16-a within the MDPR site boundary. The area of the MDPR site within tract A-16-a is approximately 1.8 acres. Tract A-16-a was conveyed from DOE to LAC in 2018.

Detailed information about the land transfer tracts within and adjacent to the MDPR site and the historical operations and investigations conducted within and adjacent to the land transfer tracts associated with the MDPR site can be found in the approved MDPR WP R1 (N3B 2021, 701344; NMED 2021, 701368). After the initial discovery of potentially hazardous and radioactive debris on February 14, 2020, the site was closed to the public and is accessible only to Laboratory employees or subcontractors with a badge.

2.2 History of the MDPR Site

The assessment boundary for the MDPR site was determined by DOE based on historical document reviews and site investigations previously conducted in the area. The MDPR site boundary follows the western edge of tract A-8-b, which is the former location of a residential trailer park and playground area from 1951 to 1974 (Figure 2.1-1). No Consent Order investigation activities were proposed for tract A-8-b because the location of the trailer park is known, and there is no evidence to indicate the A-8-b portion of the former trailer park was built on top of a former disposal area. The boundaries to the north and east were determined by the areas remediated in the western portion of MDA B in 2010 and 2011. The boundary to the south includes the area used as a construction laydown area in the 1940s and extends to

the current DOE property boundary (Figure 2.1-1). The MDPR site boundary encompasses the area referred to in a 1945 memorandum that described a pit located southeast of a coal storage yard (Dow 1945, 006713). Both commercial and LANL properties lie immediately north of the MDPR site. During the course of the MDPR site investigation, the MDPR site boundary was expanded three times to encompass additional areas requiring sampling and remediation. The location of the MDPR site and expansion areas, with respect to surrounding landholdings, are shown in Figure 1.0-1.

The activities conducted at the MDPR site between February 20, 2020, when debris was first encountered at the site, and March 2021, when Revision 1 of the MDPR work plan was approved, are described in detail in the following documents:

- the March 9, 2020, joint response to the February 28, 2020, request for information from NMED (NMED 2020, 700783), prepared by EM-LA and NA-LA, along with N3B and Triad, to provide details of the event (DOE 2020, 700839);
- the December 2020 "Solid Waste Management Unit Assessment Work Plan for Middle DP Road Site" (N3B 2020, 701169);
- the N3B "Response to Draft New Mexico Environment Department Comments on the Solid Waste Management Unit Assessment Work Plan for Middle DP Road Site," dated January 29, 2021 (N3B 2021, 701344); and
- the approved MDPR WP R1 (N3B 2021, 701344; NMED 2021, 701368).

In addition, results from the geophysical surveys conducted at the site were provided to NMED on January 14, 2021 (DOE 2021, 701189) and in Appendix C of the approved MDPR WP R1 (N3B 2021, 701344; NMED 2021, 701368).

3.0 SCOPE OF ACTIVITY

This section presents an overview of field activities performed during the implementation of the approved MDPR WP R1 (N3B 2021, 701344; NMED 2021, 701368) and subsequent activities needed to meet the objectives of the work plan. The objective of the investigation activities described in the MDPR work plan was to determine the nature and extent of potential contamination associated with the MDPR site. The investigation approach focused on identifying areas within tracts A-8-a and A-16-a where historical debris is located, defining the extent of contamination associated with the debris, removing any contaminated debris, and removing soil and tuff exceeding residential SSLs and SALs, the construction worker SSL for manganese, and/or Eco-PRGs.

The scope of the approved MDPR WP R1 included site access and premobilization activities; geodetic surveys; potholing/trenching; surface and shallow subsurface sampling; borehole drilling, sampling, and abandonment; health and safety monitoring; excavation and removal of contaminated media; and waste management activities. Appendix B describes the methods and procedures used in completing this scope.

3.1 Field Activities

The following sections describe the field activities conducted during the April 2021 through July 2023 investigation and remediation of the MDPR site. Additional details regarding the field methods and procedures used to perform these field activities are presented in Appendix B. The analytical data were evaluated to identify COPCs and to identify potentially unacceptable human health risks associated with COPCs.

The site assessment approach identified in the approved MDPR WP R1 (N3B 2021, 701344; NMED 2021, 701368) consisted of the following major activities for tracts A-8-a and A-16-a:

- excavate areas where anomalies were identified from geophysical surveys to determine if debris or waste disposal areas are present;
- excavate previously identified debris locations to define extent of debris;
- conduct potholing to determine if debris or waste disposal areas are present;
- remove all contaminated debris associated with past Laboratory operations;
- collect confirmation samples within and surrounding excavation areas to confirm removal of contaminated soil (confirmation sampling);
- collect additional samples, if needed, to define lateral and vertical extent of any remaining contamination and define the boundaries of any areas where additional soil removal is required (extent sampling);
- perform additional soil removal and extent sampling until cleanup goals are met and lateral and vertical extent of contamination are defined; and
- evaluate risk to human health and ecological receptors.

Before field mobilization, the issue of public access was reviewed, and measures were taken to provide a secure and safe work area. Premobilization activities also included the training and badging of on-site personnel, including training to newly implemented COVID-19 policies and procedures; development of site work documents; obtaining a permit requirements identification form; completing excavation permits; requesting sampling paperwork from N3B's Sample Management Office (SMO); and conducting the preparedness reviews before each mobilization.

3.1.1 Identification of Potential Waste Disposal Areas

Between February 14 and June 22, 2020, areas of contaminated debris were encountered in four excavations at the MDPR site (historical debris sites [HDSs]). Several field investigation methods were used to identify additional waste disposal areas, including geophysical surveys, potholing, and trenching. Before preparation of the MDPR work plan (N3B 2020, 701169), four test pits (pits 1–4) were dug near the original sewer line trench where debris was first located by LAC contractors. On May 18, 2020, debris that consisted primarily of wood with residual radioactivity was located in test pit 2. Figure 3.1-1 shows the locations of the initial HDSs, former sewer line trench, and test pits 1–4. Geophysical surveys were conducted in November 2020, and seven anomalies were identified for potholing and trenching. As described in the approved MDPR WP R1 (N3B 2021, 701344; NMED 2021, 701368), 53 locations within each tract were selected for gridded potholing to identify potential waste disposal areas. Figures 3.1-2 and 3.1-3 show gridded and geophysical anomaly pothole locations at tracts A-8-a and A-16-a, respectively. Excavation of the potholes within each tract began in April 2021. Potholing and trenching within the identified anomaly areas within each tract began in May 2021. Excavation of the two HDSs within tract A-16-a began in July 2021 and of the two HDSs within tract A-8-a began in August 2021. Excavation locations were determined using investigation results from potholing, investigation of geophysical anomaly areas, and observations from the four 2020 test pits located within each tract.

3.1.2 Sampling Locations and Depth Intervals

Samples collected at the MDPR site included confirmation samples collected after debris removal and extent samples collected to define the vertical and lateral extent of contamination and to determine if additional soil removal was required. Confirmation sampling and extent sampling are discussed in the following sections.

3.1.2.1 Confirmation Sampling

During the implementation of the approved MDPR WP R1 (N3B 2021, 701344; NMED 2021, 701368), areas with contaminated debris were discovered, requiring excavation and confirmatory sampling activities. HDS areas ranged in size from approximately 160 ft^2 to 4800 ft^2. The initial potholing and debris removal from the HDSs and potholes were completed in October 2021, and a total of 3344 yd^3 of waste and soil was excavated. The objective of the debris cleanup activities also included removing all soil contaminated with inorganic and organic chemicals at concentrations above residential and construction worker SSLs and/or SALs. The work plan specified collection of confirmation samples following excavation of all debris locations. The confirmation samples were to be collected at two depths beneath excavation areas (0 to 1 ft and 3 to 4 ft below the bottom of the excavation), at four depths at step-out locations (0 to 1 ft, 4 to 5 ft, and 7 to 8 ft below ground surface [bgs] and at the soil-tuff interface) surrounding excavation areas, and at the soil-tuff interface, with actual depth intervals adjusted in the field based on the actual depth to the soil-tuff interface.

Hand-auger confirmation sampling began in November 2021, and hollow-core auger confirmation sampling began in January 2022 within and adjacent to areas of the MDPR site that were excavated in 2021. Figures 3.1-4, 3.1-5, and 3.1-6 show the excavation areas and confirmation sampling locations for tract A-8-a and the northern and southern portions of tract A-16-a, respectively. Confirmation sample collection was completed in January 2022. The post-cleanup confirmation soil sampling results were evaluated to identify samples where residential and construction worker SSLs and/or SALs were exceeded, and these locations and depth intervals were identified for removal. A total of 263 post-cleanup confirmation samples were collected from 104 locations within tracts A-8-a and A-16-a at the MDPR site and analyzed for some or all of the following analytes: target analyte list (TAL) metals, volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), nitrate, perchlorate, total cyanide, pH, explosive compounds, dioxins/furans, polychlorinated biphenyls (PCBs), americium-241, gamma-emitting radionuclides, isotopic plutonium, isotopic uranium, strontium-90, and tritium.

3.1.2.2 Extent Sampling

The results from confirmation samples collected at the MDPR site were evaluated to determine if lateral and vertical extent of contamination were defined. If lateral extent was not defined at a confirmation sampling location, additional step-out locations were collected 5 ft from that location in the direction(s) that extent was not defined. Lateral extent samples were collected from the same depth intervals as the original confirmation sample for which extent was not defined. If vertical extent was not defined at a confirmation sampling location, additional samples were collected at two additional depth intervals. The additional sampling needed to define extent was documented in the “Extent Sampling Work Plan for Middle DP Road Site” (ESWP) (BGI 2023, 702948).

Confirmation sampling results were also evaluated to determine if additional soil removal was required to reduce human health or ecological risk. Additional soil removal was deemed necessary at locations where results exceeded residential SSLs and SALs, the construction worker SSL for manganese, and/or Eco-PRGs. If additional soil removal was required at a location, sampling results from neighboring locations

were evaluated to determine whether the lateral extent of the area was adequately bounded. If not, additional step-out samples were collected. If residential SSLs/SALs were less than 10 times concentrations in the deepest sampling interval at that location, additional samples were collected to define vertical extent. The locations and depths of soil requiring removal were also documented in the ESWP.

Extent sampling results were then evaluated to determine if lateral and vertical extent were defined and if additional soil removal was required. If so, additional extent samples were collected. This process was repeated, with the ESWP revised, until the sampling objectives were met (i.e., lateral and vertical extent were defined and there was no potential unacceptable risk to human health or ecological receptors). The final extent sampling results were also reviewed to determine whether additional sampling would be needed to meet the requirements for radiological release of the site under DOE Order 458.1, Change 4, "Radiological Protection of the Public and the Environment." No additional radiological sampling needs were identified.

Extent sampling began in March 2022 within and adjacent to areas of the MDPR site that were excavated in 2021–2023. Extent sample collection was completed in June 2023. The post-cleanup extent soil sampling results were evaluated to identify samples where residential SSLs and SALs, the construction worker SSL for manganese, and/or Eco-PRGs were exceeded, and these locations and depth intervals were identified for removal. A total of 611 extent samples were collected from 198 locations within tracts A-8-a and A-16-a at the MDPR site and analyzed for some or all of the following analytes: TAL metals, VOCs, SVOCs, nitrate, perchlorate, total cyanide, pH, explosive compounds, dioxins/furans, PCBs, americium-241, gamma-emitting radionuclides, isotopic plutonium, isotopic uranium, strontium-90, and tritium.

All excavation areas and confirmatory and extent sampling locations at tract A-8-a and the northern and southern excavation portions of tract A-16-a are shown in Figure 3.1-7, Plate 1, and Figure 3.1-8, respectively. Sampling results for constituents that exceeded residential SSLs and SALs, the construction worker SSL for manganese, and/or Eco-PRGs are shown. The extent samples collected and analyses requested are presented in Tables 3.1-1 and 3.1-2 for tracts A-8-a and A-16-a, respectively.

3.1.3 Sampling Analysis

The SMO shipped all investigation samples to off-site contract analytical laboratories for the requested analyses. In accordance with the approved MDPR WP R1 (N3B 2021, 701344; NMED 2021, 701368), analytical suites for MDPR site characterization samples included TAL metals, nitrate, perchlorate, total cyanide, pH, VOCs, SVOCs, PCBs, explosive compounds, dioxins and furans, americium-241, gamma-emitting radionuclides, isotopic plutonium, isotopic uranium, strontium-90, and tritium. Analytical methods are summarized in Table 3.1-3.

Laboratory analytical data were validated as outlined in N3B documents N3B-PLN-SDM-1000, "Sample and Data Management Plan"; N3B-AP-SDM-3000, "General Guidelines for Data Validation"; N3B-AP-SDM-3014, "Examination and Verification of Analytical Laboratory Data"; and additional method-specific analytical data validation guidelines. All procedures have been developed, where applicable, from the U.S. Environmental Protection Agency (EPA) QA/G-8 guidance on environmental data verification and data validation (EPA 2002, 702975), U.S. Department of Defense/DOE "Consolidated Quality Systems Manual for Environmental Laboratories" (DoD and DOE 2019, 702976), and the EPA national functional guidelines for data review (https://www.epa.gov/clp/superfund-clp-national-functional-guidelines-data-review). N3B-PLN-SDM-1000 sets the validation frequency criteria at 100% examination/verification of data and a minimum 10% full validation of data. Data collected at the MDPR site underwent 100% examination/verification and 25% full validation.

3.1.4 Investigation Methods

Field methods used during the characterization and remediation of the MDPR site are described in Appendix B. These methods include performing geodetic surveys, collecting surface and subsurface samples, collecting quality assurance/quality control samples, decontaminating equipment, and managing investigation-derived waste. Appendix C also includes copies of sample chain-of-custody records and field-screening results.

Radiological field screening was also used to identify contaminated debris or media during potholing and excavation activities. Analytical samples of the debris were collected only if radiological readings exceeded surface contamination values specified in procedure N3B-P121, "Radiation Protection." Potentially contaminated debris or media was excavated, characterized, packaged, and disposed of at an appropriate waste disposal facility. Where practicable, debris was characterized by direct sampling of the waste (e.g., glassware, metal objects, plastics, concrete, etc.). For debris that was difficult to characterize, acceptable knowledge was used whenever possible, supplemented by sampling as needed. A radiological control technician conducted radiological field-screening during fieldwork activities. Radiological screening was performed using calibrated, portable instrumentation in accordance with N3B radiation protection instrument procedures. Radiological control technicians recorded local environmental background levels of gross-alpha, -beta, and -gamma radioactivity a minimum of once a day.

3.1.5 Field Activities at Tract A-8-a

3.1.5.1 Identification of Waste Disposal Area at Tract A-8-a

In accordance with the approved MDPR WP R1 (N3B 2021, 701344; NMED 2021, 701368), 53 locations were identified in tract A-8-a for potholing based on triangular grid spacing of approximately 35 ft to determine if debris or waste disposal areas were present (Figure 3.1-2). The grid spacing was based on a 100% probability of locating a 40-ft × 80-ft waste pit, as referenced by Tribby (1945, 033817). This grid spacing also provided a 95% probability of locating a waste pit with an approximate 1000-ft^2 area (17.5-ft radius). Pothole excavation within tract A-8-a began in April 2021. The potholes were excavated down to the top of tuff at each location. If contaminated debris was encountered, the excavation area was expanded to define the extent of the debris. The debris was removed, containerized, and characterized, and confirmation samples were collected at depth intervals of 0–1 ft and 3–4 ft below the bottom of the excavation. Confirmation sampling was also conducted at step-out locations surrounding the excavation, from depth intervals of 0–1 ft, 4–5 ft, and 7–8 ft bgs and at the soil/tuff interface. If debris was not encountered, the pothole was backfilled, and samples were not collected. Contaminated debris was encountered at pothole locations 15 and 22 within HDS-1 and HDS-2 directly west and southwest of the new LAC sanitary lift station in the central portion of tract A-8-a (Figure 3.1-4). No debris was encountered in the other 51 potholes excavated within tract A-8-a.

As described in the approved MDPR WP R1 (N3B 2021, 701344; NMED 2021, 701368), geophysical surveys were conducted within the MDPR site boundary of tract A-8-a to identify potential locations of buried debris or former waste disposal areas. The geophysical survey identified two anomaly areas (anomaly areas A and E) in the south central portion of tract A-8-a (Figure 3.1-2). In May 2021, a backhoe was used to excavate pothole location A-2 within anomaly area A and to excavate pothole location A-1 within anomaly area E. Contaminated debris was not encountered within either anomaly area. Therefore, the excavations were backfilled, and samples were not collected.

As described in the approved MDPR WP R1 (N3B 2021, 701344; NMED 2021, 701368), contaminated debris was encountered by an LAC public utilities subcontractor at 8 ft bgs in June 2020 during excavation for the new sanitary lift station. The debris was found at two locations directly southwest and south of the

new lift station, within the central portion of tract A-8-a. The sanitary lift station excavation area is located south of the tract A-16-a boundary and south of the test pit locations where contaminated debris was initially encountered in February 2020 (Figure 3.1-1). The material encountered in June 2020 contained processed, oxidized uranium-234 and uranium-238, and this material was removed and containerized. In accordance with the MDPR WP R1 (N3B 2021, 701344; NMED 2021, 701368), the two locations where debris was encountered, designated HDS-1 and HDS-2, were excavated to remove the debris and identify the extent of debris disposal (Figure 3.1-4). The excavation of HDS-1 began in August 2021 and was completed in October 2021, and the excavation of HDS-2 began in September 2021 and was completed in October 2021. The debris encountered consisted of glass, paper, wood, metal sheeting, wires, and laboratory waste. The excavations for HDS-1 and HDS-2 eventually joined to compose one excavation area designated as HDS-1/2. The final footprint of this excavation was 2690 ft^2 and the depth was approximately 14 ft bgs. A total of 1182 yd^3 of contaminated soil, tuff, and debris were removed. Confirmation samples were collected and the excavation was backfilled with clean fill and overburden between October and November 2021. All contaminated soil, tuff, and debris was disposed of at an approved facility (Appendix E).

3.1.5.2 Confirmation Sampling at Tract A-8-a

Confirmation sampling within and around the HDS-1/2 excavation area in tract A-8-a was the only confirmation sampling conducted within this tract and began on November 23, 2021; it was completed on January 21, 2021. A total of 71 confirmation samples were collected at 26 locations within the HDS-1/2 excavation area at depth intervals of 0–1 ft and 3–4 ft below the bottom of the excavation and at 12 step-out locations around the excavation from depth intervals 0–1 ft, 4–5 ft, and 7–8 ft bgs and at the soil/tuff interface (Figure 3.1-4). The confirmation samples collected and analyses requested are included in Table 3.1-1.

3.1.5.3 Extent Sampling at Tract A-8-a

Confirmation sampling data from samples collected within and around the HDS-1/2 excavation area within tract A-8-a were evaluated to determine if lateral and vertical extent of contamination were defined. If lateral extent was not defined at a confirmation sampling location, additional step-out locations were collected 5 ft from that location in the direction(s) that extent was not defined. Lateral extent samples were collected from the same depth intervals as the original confirmation sample. If vertical extent was not defined at a confirmation sampling location, additional samples were collected at two additional depth intervals. Extent sampling within and around HDS-1/2 excavation area within tract A-8-a began in April 2022 and was completed in July 2022. A total of 123 extent samples were collected at 29 locations within and around the HDS-1/2 excavation (Figure 3.1-7). Extent samples for the HDS-1/2 excavation area within tract A-8-a were collected at 1-ft intervals from 0 to 18 ft bgs. Samples where concentrations exceeded residential SSLs and SALs, the construction worker SSL for manganese, and/or Eco-PRGs were identified for removal. This process was repeated until the sampling objectives were met (i.e., lateral and vertical extent were defined, and there was no potential unacceptable risk to human health or ecological receptors). Soil removal was required from three excavations at tract A-8-a (Figure 3.1-7). Depths of excavations ranged from 4 to 13 ft bgs, and a total of 105 yd^3 of contaminated soil and tuff were removed. All contaminated soil and tuff was disposed of at an approved facility (Appendix E). The extent samples collected and analyses requested are summarized in Table 3.1-1.

3.1.6 Field Activities at Tract A-16-a

3.1.6.1 Identification of Waste Disposal Area at Tract A-16-a

In accordance with the approved MDPR WP R1 (N3B 2021, 701344; NMED 2021, 701368), 53 locations were identified in tract A-16-a for potholing based on triangular grid spacing of approximately 35 ft to determine if debris or waste disposal areas were present within tract A-16-a (Figure 3.1-3). The grid spacing was based on a 100% probability of locating a 40-ft × 80-ft waste pit, as referenced by Tribby (1945, 033817). This grid spacing also provided a 95% probability of locating a waste pit with an approximate 1000-ft^2 area (17.5-ft radius). Pothole excavation within tract A-16-a began in April 2021. The potholes were excavated down to the top of tuff at each location. If contaminated debris was encountered, the excavation area was expanded to define the extent of the debris. The debris was removed, containerized, and characterized, and confirmation samples were collected at depth intervals of 0–1 ft and 3–4 ft below the bottom of the excavation. Confirmation sampling was also conducted at step-out locations surrounding the excavation, from depth intervals of 0–1 ft, 4–5 ft, and 7–8 ft bgs and at the soil/tuff interface. Contaminated debris was encountered at pothole locations 1A, 3, 16, and 23 within tract A-16-a (Figure 3.1-3). Debris was not encountered in the other 49 potholes excavated within tract A-16-a. If debris was not encountered, the pothole was backfilled, and samples were not collected.

As described in the approved MDPR WP R1 (N3B 2021, 701344; NMED 2021, 701368), geophysical surveys were conducted within the MDPR site boundary of tract A-16-a to identify potential locations of buried debris or former waste disposal areas. The geophysical survey identified three anomaly areas (anomaly areas B, C, and D) within tract A-16-a (Figure 3.1-3). During May and June of 2021, a backhoe was used to excavate trenches at pothole locations A-3 and A-4 within anomaly area B in the southwest corner of tract A-16-a. Contaminated debris was not encountered in any of the trenches; however, a large concrete slab was encountered approximately 5 ft south of anomaly pothole location A-4 at 1 ft bgs. The slab extended to a depth of 11 ft bgs and measured 12 ft long by 8 ft wide (see Appendix H, Figure H-2). LAC indicated the concrete slab was part of a former sanitary lift station. No VOC or radiological contamination was detected on the concrete slab; therefore, it was left in place, the excavations were backfilled, and samples were not collected. In June 2021, a backhoe was used to excavate trenches at pothole locations A-5 and A-6 within anomaly area D within the central portion of tract A-16-a. Contaminated debris was not encountered within any of the trenches. Therefore, the excavations were backfilled, and samples were not collected.

Excavation of gridded and anomaly pothole locations within anomaly area C took place from May to July 2021. During potholing activities at location 1A, a 1.5-in.-diameter piece of uranium was encountered at approximately 2 ft bgs and removed. The excavation had a final footprint of 89 ft^2 with a depth of approximately 8 ft bgs (Figure 3.1-5). A total of 16 yd^3 of contaminated soil was removed. In June and July 2021, excavation of anomaly pothole location A-7A was conducted. During the potholing activities at location A-7A, a small piece of radioactively contaminated metal, later determined to be contaminated with uranium, was encountered at approximately 3 ft bgs and removed (see Appendix H, Figure H-4). In July 2021, asbestos-containing material was discovered west of geophysical anomaly pothole A-7A and at pothole location 3. Potholing activities were stopped and excavation of the asbestos-containing material areas resumed in September 2021. The excavations were completed in October 2021 and were subsequently backfilled. The excavations had a final combined footprint of 882 ft^2 with a depth of approximately 8 ft bgs (Figure 3.1-5). A total of 312 yd^3 of contaminated soil, tuff, and debris was removed. Confirmation samples were collected at 14 locations in the excavations and 16 step-out locations (Figure 3.1-5). The confirmation samples collected and analyses requested are included in Table 3.1-2.

As described in the approved MDPR WP R1 (N3B 2021, 701344; NMED 2021, 701368), on February 14, 2020, an LAC public utilities subcontractor encountered debris during excavation activities for a new sewer utility line designed to serve two new housing complexes and existing facilities along DP Road. The debris was found at 7 to 8 ft bgs at two locations on the southern end of the former sewer line trench along the western boundary of tract A-16-a (Figure 3.1-1). The material encountered in February 2020 consisted of a 5-in. × 8-in. crucible metal piece, and the associated contaminated soil, and this material was removed and containerized. In accordance with the MDPR WP R1 (N3B 2021, 701344; NMED 2021, 701368), the two locations where debris was encountered, designated HDS-3 and HDS-4, were excavated (Figure 3.1-6). The excavation of HDS-4 began in July 2021 and was completed in October 2021, and the excavation of HDS-3 began in September 2021 and was completed in October 2021. The debris encountered consisted of wire, metal, paper, wood, and photonegatives contaminated with residual radioactivity. Additionally, a bottle of unknown liquid was discovered and soil staining was visible (see Appendix H, Figure H-3). The excavations for HDS-3 and HDS-4 eventually joined to compose one excavation area designated as HDS-3/4 (Figure 3.1-6). The final footprint of this excavation was 4792 ft^2 and resulted in the removal of 1906 yd^3 of soil and debris. After the debris from HDS-3/4 was removed, containerized, and characterized, and all confirmation samples had been collected, the excavation was backfilled with clean fill and overburden by December 2021. All contaminated soil, tuff, and debris was disposed of at an approved facility (Appendix E).

3.1.6.2 Confirmation Sampling at Tract A-16-a

Confirmation sampling within tract A-16-a was conducted between November 23, 2021, and January 24, 2022. A total of 73 confirmation and step-out samples were collected from 30 confirmation sampling locations within and around the A-7A and 1A excavation areas; and 104 confirmation and step-out samples were collected from 43 confirmation sampling locations within and around the HDS-3/4 excavation area. Five biased confirmation sample locations (locations 54–58 in Figure 3.1-3) were collected from the overburden used to backfill the 2020 sewer line trench north of the HDS-3/4 excavation area to ensure results from the material were below residential SSLs and SALs. Confirmation sampling locations are shown in Figures 3.1-5 and 3.1-6 for the northern and southern portions of tract A-16-a, respectively. Confirmation samples were collected from depth intervals of 0–1 ft and 3–4 ft below the bottom of each excavation area. At step-out locations around each excavation area, samples were collected from depth intervals of 0–1 ft, 4–5 ft, and 7–8 ft bgs and at the soil/tuff interface. The confirmation samples collected and analyses requested are summarized in Table 3.1-2.

3.1.6.3 Extent Sampling at Tract A-16-a

Confirmation sampling data from samples collected within and around the A-7A, 1A, and HDS-3/4 excavation areas within tract A-16-a were evaluated to determine if lateral and vertical extent of contamination were defined. If lateral extent was not defined at a confirmation sampling location, additional step-out locations were collected 5 ft from that location in the direction(s) that extent was not defined. Lateral extent samples were collected from the same depth intervals as the original confirmation sample. If vertical extent was not defined at a confirmation sampling location, additional samples were collected at two additional depth intervals. Extent sampling within and around the A-7A and 1A excavation areas within tract A-16-a began in April 2022 and was completed in June 2023. A total of 418 extent samples were collected at 139 locations within and around the A-7A and 1A excavations (Plate 1). Extent sampling within and around the HDS-3/4 excavation area within tract A-16-a began in March 2022 and was completed in July 2022. A total of 70 extent samples were collected at 20 locations within and around the HDS-3/4 excavation area (Figure 3.1-8). Extent samples for the A-7A, 1A, and HDS-3/4 excavation areas within tract A-16-a were collected at 1-ft intervals from 0–20 ft bgs. Samples where concentrations

exceeded residential SSLs and SALs, the construction worker SSL for manganese, and/or Eco-PRGs were identified for removal. This process was repeated until the sampling objectives were met (i.e., lateral and vertical extent were defined and there was no potential unacceptable risk to human health or ecological receptors). Soil removal was required from 12 excavations in the northern portion of tract A-16-a, with depths ranging from 3 to 17 ft bgs. A total of 1248 yd^3 of contaminated soil and tuff was removed. Soil removal was required from one excavation in the southern portion of tract A-16-a, with a depth of 13 ft bgs. A total of 47 yd^3 of contaminated soil and tuff was removed. All contaminated soil and tuff was disposed of at an approved facility (Appendix E). The extent samples collected and analyses requested are summarized in Table 3.1-2.

3.1.7 Site Restoration

Site restoration activities were conducted as specified by the stormwater pollution prevention plan, as well as in coordination with LAC officials. Excavations were backfilled with clean fill material using a front-end loader. Additional site restoration activities included installation of turf reinforcement matting and reseeding with native seed mixture. Stormwater features were added to the site to prevent erosion and potential migration of contaminants. In tract A-8-a, the area near the LAC lift station was regraded and drainage into BV Canyon was leveled by adding clean fill, seed mixture, and filling in previously abandoned manholes. In tract A-16-a, fragmented rock and a swale were added to redirect water flow at the north end of DP Mesa. All waste containers and temporary fencing have been removed from the site. The area is surrounded by a fence installed previously by LAC but is accessible to the public. Appendix H includes photos of post-restoration site conditions.

4.0 DATA EVALUATION

4.1 Identification of Chemicals of Potential Concern

The analytical data were evaluated to identify chemicals of potential concern (COPCs) and to identify potentially unacceptable human-health risks associated with COPCs. The purpose of the data review was to define the nature and extent of contaminant releases for each land tract investigated at the MDPR site. The nature of a contaminant release refers to the specific contaminants that are present, the affected media, and associated concentrations. The nature of contamination is defined through identification of COPCs, which is discussed below. A COPC is identified because it is present at a site based on the criteria discussed below, but it might be present because of adjacent and/or upgradient operations and/or infrastructure typical of industrial and metropolitan development. If such origins are evident, the constituents might be excluded from the data analyses and risk assessments. The extent of contamination refers to the spatial distribution of COPCs, with an emphasis on the distribution of COPCs potentially posing a risk or requiring corrective action. The process for determining the extent of contamination and for concluding no further sampling for extent is warranted is discussed in section 4.2. Data were also evaluated to determine whether soil contamination at the tracts posed an unacceptable risk to human health under residential and construction worker scenarios or unacceptable risk to ecological receptors. The processes for assessing human health and ecological risk are discussed in section 4.3.

COPCs are chemicals and radionuclides that may be present as a result of releases from past Laboratory operations. Inorganic chemicals and some radionuclides occur naturally, and inorganic chemicals and radionuclides detected because of natural background are not considered COPCs. Similarly, some radionuclides may be present as a result of fallout from historical nuclear weapons testing, and these radionuclides are also not considered COPCs. The Laboratory has collected data on background

concentrations of many inorganic chemicals, naturally occurring radionuclides, and fallout radionuclides. These data have been used to develop media-specific background values (BVs) and fallout values (FVs) (LANL 1998, 059730). For inorganic chemicals and radionuclides for which BVs or FVs exist, identification of COPCs involves background comparisons, which are described in sections 4.1.1 and 4.1.2. If no BVs or FVs are available or if samples are collected where FVs are not appropriate (i.e., greater than 1 ft in depth or in rock), COPCs are identified based on detection status (i.e., if the inorganic chemical or radionuclide is detected, it is identified as a COPC unless available information indicates it is not present as a result of a release from past Laboratory operations).

Organic chemicals may also be present as a result of anthropogenic activities unrelated to past Laboratory operations or, to a lesser extent, from natural sources. Because there are no background data for organic chemicals, background comparisons cannot be performed in the same manner as for inorganic chemicals or radionuclides. Therefore, organic COPCs are identified on the basis of detection status (i.e., the organic chemical is detected). When assessing the nature of contamination, the history of site operations may be evaluated to determine whether an organic COPC is present because of a release from past Laboratory operations or is present from non-site-related sources. Organic chemicals that are present from sources other than releases from past Laboratory operations may be eliminated as COPCs and are not evaluated further.

4.1.1 Inorganic Chemical and Radionuclide Background Comparisons

COPCs are identified for inorganic chemicals and radionuclides in accordance with N3B-SOP-ER-2004, "Background Comparisons for Inorganic Chemicals," and N3B-SOP-ER-2005, "Background Comparisons for Radionuclides." Inorganic COPCs are identified by comparing site data with BVs, making statistical comparisons, and presenting other lines of evidence, as applicable (LANL 1998, 059730). The upper end of the background data set may be used for comparison if one or more of the following conditions exist:

- The statistically determined BV is significantly greater than the maximum background concentration.
- Statistical tests cannot be performed because of insufficient data (fewer than eight samples and/or five detections per medium) or a high percentage of nondetections.
- A sufficient number of samples have been collected to determine nature and extent, but results are predominately nondetections.
- Site history does not indicate the constituent is directly related to site activities or to a dominant waste stream.
- Spatial analyses do not show a pattern or trend indicating contamination.
- The maximum detected concentration is statistically determined to be an outlier. (Note: A sufficient number of samples must be collected to show a point is an outlier and not indicative of a hot spot.)

Radionuclides are identified as COPCs based on background comparisons or statistical methods if BVs or FVs are available, based on detection status if BVs or FVs have not been established, or based on other lines of evidence, as applicable.

Background data are generally available for inorganic chemicals in soil, sediment, and tuff (LANL 1998, 059730). However, some analytes (e.g., nitrate, perchlorate, and hexavalent chromium) have no BVs. A BV may be either a calculated value from the background data set (upper tolerance limit [UTL] or the 95% upper confidence bound on the 95th quantile) or a detection limit (DL). When a BV is based on a DL, there is no corresponding background data set for that analyte/media combination.

For inorganic chemicals, data are evaluated by sample media to facilitate the comparison with media-specific background data. To identify inorganic COPCs, the first step is to compare the sampling result with BVs. If sampling results are above the BV and sufficient data are available (eight or more sampling results and five or more detections), statistical tests are used to compare the site sample data with the background data set for the appropriate media. If statistical tests cannot be performed because of insufficient data or a high percentage of nondetections, the sampling results are compared with the BV and the upper end of the background data set for the appropriate media. If concentrations are above the BV, but no results are greater than the upper end of the background data set, lines of evidence are presented to determine whether the inorganic chemical is or is not a COPC. If at least one sampling result is above the BV and the upper end of the background data set, the inorganic chemical is identified as a COPC. The same evaluation is performed using DLs when an inorganic chemical is not detected but has a DL above the BV. If no BV is available, detected inorganic chemicals are identified as COPCs.

Radionuclides are identified as COPCs based on comparisons with BVs for naturally occurring radionuclides or with FVs for fallout radionuclides. Thorium-228, thorium-230, thorium-232, uranium-234, uranium-235/236, and uranium-238 are naturally occurring radionuclides. Americium-241, cesium-137, plutonium-238, plutonium-239/240, strontium-90, and tritium are fallout radionuclides.

Naturally occurring radionuclides detected at activities above their respective BVs are identified as COPCs unless lines of evidence can be presented to establish that a particular radionuclide is not a COPC. If there is no associated BV and the radionuclide is detected, it is retained as a COPC.

The FVs for the fallout radionuclides apply to the top 0 to 1 ft of soil and fill and to sediment regardless of depth. If a fallout radionuclide is detected in a soil or fill sample collected below 1 ft bgs or in tuff samples, the radionuclide is identified as a COPC. For soil and fill samples from 1 ft bgs or less, if the activity of a fallout radionuclide is greater than the FV, comparisons of the top 0 to 1 ft sampling data are made with the fallout data set. The radionuclide is eliminated as a COPC if activities are similar to fallout activities or lines of evidence can be presented to establish the radionuclide is not a COPC. Sediment results are evaluated in the same manner, although all data are included, not only the data from 0 to 1 ft bgs.

The FV for tritium in surface soil (LANL 1998, 059730) is in units of pCi/mL. This FV requires using sample percent moisture to convert sample tritium data from pCi/g (as provided by analytical laboratories) to the corresponding values in units of pCi/mL. Sample percent moisture historically has been determined using a variety of methods, often undocumented. In accordance with N3B-SOP-ER-2005, “Background Comparisons for Radionuclides,” identification of tritium as a COPC in soil is based on detection status.

Sample media encountered during investigations at the MDPR site include soil (all soil horizons, designated by the media code ALLH or SOIL), fill material (media code FILL), and Bandelier Tuff (media code Qbt 3). Because no separate BVs are available for fill material, fill samples are evaluated by comparison with soil BVs (LANL 1998, 059730). In this report, the discussions of site contamination in soil include fill samples with soil samples in sample counts and comparisons with background. Fill samples are not discussed separately from soil. The upper units of the Bandelier Tuff (Qbt 2, Qbt 3, and Qbt 4) are likewise evaluated together with respect to background (LANL 1998, 059730).

4.1.2 Statistical Methods Overview

A variety of statistical methods may be applied to each of the data sets. The use of any of these methods depends on how appropriate the method is for the available data. The results of the statistical tests are presented in Appendix D tables.

4.1.2.1 Distributional Comparisons

Comparisons between site-specific data and Laboratory background data are performed using a variety of statistical methods. These methods begin with a simple comparison of site data with a UTL estimated from the background data (the 95% upper confidence bound on the 95th quantile). The UTLs are used to represent the upper end of the concentration distribution and are referred to as BVs. The UTL comparisons are then followed, when appropriate, by statistical tests that evaluate potential differences between the distributions. These tests are used for testing hypotheses about data from two potentially different distributions (e.g., a test of the hypothesis that site concentrations are elevated above background levels). Nonparametric tests most commonly performed include the Gehan test (modification of the Wilcoxon Rank Sum test) and the quantile test (Gehan 1965, 055611; Gilbert and Simpson 1990, 055612).

The Gehan test is recommended when between 10% and 50% of the data sets are nondetections. It handles data sets with nondetections reported at multiple DLs in a statistically robust manner (Gehan 1965, 055611; Millard and Deverel 1988, 054953). The Gehan test is not recommended if either of the two data sets has more than 50% nondetections. If there are no nondetected concentrations in the data, the Gehan test is equivalent to the Wilcoxon Rank Sum test. The Gehan test is the preferred test because of its applicability to a majority of environmental data sets and its recognition and recommendation in EPA-sponsored workshops and publications.

The quantile test is better suited to assessing shifts in a subset of the data. The quantile test determines whether more of the observations in the top chosen quantile of the combined data set come from the site data set than would be expected by chance, given the relative sizes of the site and background data sets. If the relative proportion of the two populations being tested is different in the top chosen quantile of the data from that of the remainder of the data, the distributions may be partially shifted because of a subset of site data. This test is capable of detecting a statistical difference when only a small number of concentrations are elevated (Gilbert and Simpson 1992, 054952). The quantile test is the most useful distribution shift test where samples from a release represent a small fraction of the overall data collected. The quantile test is applied at a prespecified quantile or threshold, usually the 80th percentile. The test cannot be performed if more than 80% (or, in general, more than the chosen percentile) of the combined data are nondetected values. It can be used when the frequency of nondetections is approximately the same as the quantile being tested. For example, in a case with 75% nondetections in the combined background and site data set, application of a quantile test comparing 80th percentiles is appropriate. However, the test cannot be performed if nondetections occur in the top chosen quantile. The threshold percentage can be adjusted to accommodate the detection rate of an analyte or to look for differences further into the distribution tails. The quantile test is more powerful than the Gehan test for detecting differences when only a small percentage of the site concentrations is elevated.

If the differences between two distributions appear to occur far into the tails, the slippage test may be performed. This test evaluates the potential for some of the site data to be greater than the maximum concentration in the background data set if, in fact, the site data and background data came from the same distribution. This test is based on the maximum concentration in the background data set and the number (“n”) of site concentrations that exceed the maximum concentration in the background set (Gilbert and Simpson 1990, 055612, pp. 5–8). The result (p-value) of the slippage test is the probability that “n” site samples (or more) exceed the maximum background concentration by chance alone. The test accounts for the number of samples in each data set (number of samples from the site and number of samples from background) and determines the probability of “n” (or more) exceedances if the two data sets came from identical distributions. This test is similar to the BV comparison in that it evaluates the

largest site measurements but is more useful than the BV comparison because it is based on a statistical hypothesis test, not simply on a statistic calculated from the background distribution.

Statistical tests for radionuclides are performed only in limited cases. Although there are BVs for naturally occurring radionuclides in soil or tuff based on elemental analyses and assumed isotopic distributions, there are not background data sets for specific isotopes. Therefore, statistics were not performed if there were any detections of uranium isotopes above BV in soil or tuff. Although there are background data sets for fallout radionuclides in soil, the background data are limited to the depth range of 0 to 1 ft bgs for evaluation of fallout radionuclides. Therefore, statistical tests were not performed for fallout radionuclides in soil unless there were also no detections in soil below 1 ft bgs and no detections in tuff. Fallout values are not applicable for tuff, so statistical tests cannot be performed. Background data sets are available for naturally occurring and fallout radionuclides in sediment, and background evaluations for sediment are not limited to the depth range of 0 to 1 ft bgs. Therefore, statistical tests can be performed for radionuclides in sediment. However, statistical tests for radionuclides in sediment were not performed for a site if there were also detections of naturally occurring radionuclides above BV in soil, detections of fallout radionuclides above FV in soil in the 0 to 1 ft bgs depth range, detections of fallout radionuclides in soil below 1 ft bgs, and/or detections of fallout radionuclides in tuff.

For all statistical tests, a p-value less than 0.05 will be the criterion for accepting the null hypothesis that site sampling results are different from background.

4.1.2.2 Graphical Presentation

Box plots are provided in Appendix D for a visual representation of the data and to help illustrate the presence of outliers or other anomalous data that might affect statistical results and interpretations. The plots allow a visual comparison among data distributions. The differences of interest may include an overall shift in concentration (shift of central location) or, when the centers are nearly equal, a difference between the upper tails of the two distributions (elevated concentrations in a small fraction of one distribution). The plots may be used in conjunction with the statistical tests (distributional comparisons) described above. Unless otherwise noted, the nondetected concentrations are included in the plots at their reported DL.

The box plots presented in Appendix D of this report consist of a box, a line across the box, whiskers (lines extended beyond the box and terminated with a short perpendicular line), and points outside the whiskers. The box area of the plot is the region between the 25th percentile and the 75th percentile of the data (the interquartile range or middle half of the data). The horizontal line within the box represents the median (50th percentile) of the data. The whiskers extend to the most extreme point that is not considered an outlier, with a maximum whisker length of 1.5 times the interquartile range, outside of which data may be evaluated for their potential to be outliers. The concentrations are plotted as points overlying the box plot. When a data set contains both detected concentrations and nondetected concentrations reported as DLs, the detected concentrations are plotted as Xs and the nondetected concentrations are plotted as Os.

4.2 Extent of Contamination

Spatial concentration trends are initially used to determine whether the extent of contamination is defined. Evaluation of spatial concentration data considers the conceptual site model of the release and subsequent migration. The conceptual site model should define where the highest concentrations would be expected if a release had occurred and how these concentrations should vary with distance and depth.

If the results are different from the conceptual site model, it could indicate that no release has occurred or there are other sources of contamination.

In general, both laterally and vertically decreasing concentrations are used to define extent. If concentrations are increasing or not changing, other factors are considered to determine whether extent is defined or if additional extent sampling is warranted. These factors include

- the magnitude of concentrations and rate of increase compared with SSLs/SALs,
- the magnitude of concentrations of inorganic chemicals or radionuclides compared with the maximum background concentrations for the medium,
- concentrations of organic chemicals compared with estimated quantitation limits (EQLs), and
- results from nearby sampling locations.

The primary focus for defining the extent of contamination is characterizing contamination that potentially poses an unacceptable risk and might require additional corrective action. As such, comparison with SSLs/SALs is used as an additional step following a determination of whether extent is defined by decreasing concentrations with depth and distance and whether concentrations are below EQLs or DLs. The initial SSL/SAL comparison uses the residential SSL/SAL (regardless of whether the current and reasonably foreseeable future land use is residential) because this value is typically the most protective. If the current and reasonably foreseeable future land use is not residential, and if the residential SSL/SAL is exceeded by or is similar to COPC concentrations, comparison with the relevant SSL/SAL may also be conducted. For the MDPR site, the current and reasonably foreseeable future land use is residential or commercial.

The SSL/SAL comparison is not necessary if all COPC concentrations are decreasing with depth and distance. If, however, concentrations increase with depth and distance or do not display any obvious trends, the SSLs/SALs are used to determine whether additional sampling for extent is warranted. If the COPC concentrations are sufficiently below the SSL/SAL (e.g., the residential and/or industrial SSL/SAL is 10 times [an order of magnitude] or more than all concentrations), the COPC does not pose a potential unacceptable risk and no further sampling for extent is warranted. The validity of the assumption that the COPC does not pose a risk is confirmed with the results of the risk-screening assessment. The calculation of risk also assists in determining whether additional sampling is warranted to define the extent of contamination needing additional corrective actions.

Calcium, magnesium, potassium, and sodium may be COPCs for some sites. These constituents are essential nutrients, and their maximum concentrations are compared with NMED's essential nutrient screening levels (NMED 2022, 702484). If the maximum concentration is less than the screening level(s), no additional sampling for extent is warranted and the inorganic chemical is eliminated from further evaluation in the risk assessment.

4.3 Human-Health and Ecological Risk Screening Evaluations

After COPCs were identified, human health risk-screening evaluations and ecological risk-screening assessments were conducted for the MDPR SWMU assessment using NMED risk assessment guidance (NMED 2022, 702484) and the N3B procedure for performing human and ecological risk screening assessments, N3B-SOP-ER-2009. The human health risk-screening assessments (Appendix F) were performed on inorganic and organic COPCs using NMED SSLs for the industrial, construction worker, and residential scenarios (NMED 2022, 702484). When an NMED SSL was not available for a COPC, industrial and residential SSLs were obtained from EPA regional tables

(https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables) (adjusted to a risk level of 1×10^{-5} for carcinogens) and construction worker SSLs were calculated using the equations outlined in the NMED soil screening guidance (NMED 2022, 702484), incorporating toxicity and chemical-specific parameters from EPA regional tables. The recreational scenario was evaluated using recreational SSLs (N3B 2020, 701072). Radionuclides were assessed using the Laboratory SALs for the same scenarios (LANL 2015, 600929). Surrogate SSLs were used for some COPCs for which no SSLs were available based on structural similarity or breakdown products.

The specific screening levels used in the risk evaluation and corrective-action decision process at a site depend on the current and reasonably foreseeable future land use(s). The current and reasonably foreseeable future land use(s) for a site determine the receptors and exposure scenarios used to select screening and cleanup levels. The land within and surrounding the MDPR site is currently owned by LAC and will be used for residential and commercial purposes; this use should continue for the foreseeable future. The residential and construction worker scenarios are evaluated for comparison purposes per the Consent Order and are the decision scenarios for sites that do not require future controls. A construction worker scenario is evaluated because underground utilities are present near or within the boundaries of the MDPR site and maintenance or repair of these underground utilities is a reasonable possibility in the foreseeable future.

Carcinogenic risk was evaluated for all inorganic and organic COPCs having a carcinogenic endpoint for the residential and construction worker scenarios. The carcinogenic risk for each COPC was calculated by dividing the exposure point concentration (EPC) by the SSL and multiplying by 1×10^{-5}. The risks for each COPC were then summed to determine the total risk, which was compared to NMED's target of 1×10^{-5}.

Noncarcinogenic risk was evaluated for all inorganic and organic COPCs having a noncarcinogenic endpoint for the residential and construction worker scenarios. The noncarcinogenic hazard quotient (HQ) for each COPC was calculated by dividing the EPC by the SSL. The HQs for each COPC were then summed to determine the hazard index (HI), which was compared to NMED's target of 1.

In addition to carcinogenic and noncarcinogenic risk, the potential radiological dose for the residential and construction worker scenarios will also be evaluated for all radionuclide COPCs. Dose was evaluated using the Laboratory's SALs (LANL 2015, 600929). The dose for each radionuclide COPC was evaluated by dividing the EPC by the residential SAL and multiplying by 25 mrem/yr. The doses for each COPC were then summed to determine the total dose, which was compared with the target dose of 25 mrem/yr, as authorized by DOE Order 458.1.

The ecological risk-screening assessments (Appendix F) were conducted using ecological screening levels (ESLs) obtained from the ECORISK Database, Release 4.3 (N3B 2022, 702057) in accordance with N3B SOP-ER-2009, "Performing Human and Ecological Risk Screening Assessments." The ESLs are based on similar species and are derived from experimentally determined no observed adverse effect levels (NOAELs), lowest observed adverse effect levels (LOAELs), or doses determined lethal to 50% of the test population. Information relevant to the calculation of ESLs, including concentration equations, dose equations, bioconcentration factors, transfer factors, and toxicity reference values, are presented in the ECORISK Database, Release 4.3 (N3B 2022, 702057).

5.0 RESULTS

5.1 Tract A-8-a

5.1.1 Results of Sample Analysis

For the portion of MDPR site located within tract A-8-a, Table 5.1-1 presents the inorganic chemicals detected above BVs, detected with no BV, or not detected with detection limits above BVs; Table 5.1-2 presents the detected organic chemicals; and Table 5.1-3 presents radionuclides detected above BVs/FVs or detected with no BV/FV. Sampling locations are presented in Figure 3.1-7.

5.1.2 COPC Identification

A total of 194 samples were collected from 55 locations, including excavation samples, which are not evaluated below. Decision-level data for the portion of MDPR site located within tract A-8-a consist of the results from 186 samples (95 soil and 91 tuff) from 55 locations collected during the 2020–2023 MDPR site investigation.

5.1.2.1 Inorganic Chemicals

A total of 186 samples (95 soil and 91 tuff) were collected at tract A-8-a and analyzed for TAL metals, nitrate, nitrite, perchlorate, and cyanide. Table 5.1-1 presents inorganic chemicals above BVs and detected inorganic chemicals with no BVs.

Aluminum was detected above the soil and Qbt 2,3,4 BVs (29,200 mg/kg and 7340 mg/kg, respectively) in 1 soil sample and 22 tuff samples with a maximum concentration of 39,200 mg/kg. The quantile and slippage tests indicated site concentrations of aluminum in soil are not statistically different from background (Figure D-1 and Table D-1). The Gehan and quantile tests indicated site concentrations of aluminum in tuff are statistically different from background (Figure D-2 and Table D-2). Aluminum is retained as a COPC.

Antimony was detected above the soil and Qbt 2,3,4 BVs (0.83 mg/kg and 0.5 mg/kg, respectively) in 4 soil samples and 1 tuff sample with a maximum concentration of 1.32 mg/kg and was not detected but had DLs (0.541 mg/kg to 5.74 mg/kg) above the soil and Qbt 2,3,4 BVs in 3 soil samples and 15 tuff samples. Antimony is retained as a COPC.

Arsenic was detected above the Qbt 2,3,4 BV (2.79 mg/kg) in 12 samples with a maximum concentration of 3.94 mg/kg. The Gehan and quantile tests indicated site concentrations of arsenic in tuff are statistically different from background (Figure D-3 and Table D-2). Arsenic is retained as a COPC.

Barium was detected above the soil and Qbt 2,3,4 BVs (295 mg/kg and 46 mg/kg, respectively) in 1 soil sample and 25 tuff samples with a maximum concentration of 377 mg/kg. The Gehan and quantile tests indicated site concentrations of barium in soil are not statistically different from background (Figure D-4 and Table D-1). The Gehan and quantile test indicated site concentrations of barium in tuff are statistically different from background (Figure D-5 and Table D-2). Barium is retained as a COPC.

Beryllium was detected above the soil and Qbt 2,3,4 BVs (1.83 mg/kg and 1.21 mg/kg, respectively) in one soil sample and five tuff samples with a maximum concentration of 2.77 mg/kg. The Gehan and quantile tests indicated site concentrations of beryllium in soil and tuff are not statistically different from background (Figure D-6 and Table D-1 for soil, Figure D-7 and Table D-2 for tuff). Beryllium is not a COPC.

Cadmium was detected above the soil BV (0.4 mg/kg) in one sample at a concentration of 0.853 mg/kg. The detection was only 0.453 mg/kg above the BV and was less than the two highest concentrations in the soil background data set (2.6 mg/kg and 1.4 mg/kg). Cadmium was not detected or detected above BV in 185 other samples (detected below BV in 154 samples). Cadmium is not a COPC.

Calcium was detected above the soil and Qbt 2,3,4 BVs (6120 mg/kg and 2200 mg/kg, respectively) in 20 soil samples and 21 tuff samples with a maximum concentration of 17,300 mg/kg. The Gehan and quantile tests indicated site concentrations of calcium in soil and tuff are statistically different from background (Figure D-8 and Table D-1 for soil, Figure D-9 and Table D-2 for tuff). Calcium is retained as a COPC.

Chromium was detected above the soil and Qbt 2,3,4 BVs (19.3 mg/kg and 7.14 mg/kg, respectively) in 1 soil sample and 41 tuff samples with a maximum concentration of 26.5 mg/kg. The quantile and slippage tests indicated site concentrations of chromium in soil are not statistically different from background (Figure D-10 and Table D-1). The Gehan and quantile tests indicated site concentrations of chromium in tuff are statistically different from background (Figure D-11 and Table D-2). Chromium is retained as a COPC.

Cobalt was detected above the soil and Qbt 2,3,4 BVs (8.64 mg/kg and 3.14 mg/kg, respectively) in two soil samples and eight tuff samples with a maximum concentration of 11.4 mg/kg. The Gehan and quantile tests indicated site concentrations of cobalt in soil and tuff are not statistically different from background (Figure D-12 and Table D-1 for soil, Figure D-13 and Table D-2 for tuff). Cobalt is not a COPC.

Copper was detected above the soil and Qbt 2,3,4 BVs (14.7 mg/kg and 4.66 mg/kg, respectively) in 1 soil sample and 17 tuff samples with a maximum concentration of 17 mg/kg. The Gehan and quantile tests indicated site concentrations of copper in soil and tuff are statistically different from background (Figure D-14 and Table D-1 for soil, Figure D-15 and Table D-2 for tuff). Copper is retained as a COPC.

Iron was detected above the soil and Qbt 2,3,4 BVs (21,500 mg/kg and 14,500 mg/kg, respectively) in one soil sample and two tuff samples with a maximum concentration of 23,000 mg/kg. The Gehan and quantile tests indicated site concentrations of iron in soil are not statistically different from background (Figure D-16 and Table D-1). The quantile and slippage tests indicated site concentrations of iron in tuff are not statistically different from background (Figure D-17 and Table D-2). Iron is not a COPC.

Lead was detected above the soil and Qbt 2,3,4 BVs (22.3 mg/kg and 11.2 mg/kg, respectively) in two soil samples and three tuff samples with a maximum concentration of 24.3 mg/kg. The Gehan and quantile tests indicated site concentrations of lead in soil and tuff are not statistically different from background (Figure D-18 and Table D-1 for soil, Figure D-19 and Table D-2 for tuff). Lead is not a COPC.

Magnesium was detected above the soil and Qbt 2,3,4 BVs (4610 mg/kg and 1690 mg/kg, respectively) in one soil sample and six tuff samples with a maximum concentration of 5480 mg/kg. The Gehan and quantile tests indicated site concentrations of magnesium in soil are not statistically different from background (Figure D-20 and Table D-1). The quantile and slippage tests indicated site concentrations of magnesium in tuff are not statistically different from background (Figure D-21 and Table D-2). Magnesium is not a COPC.

Mercury was detected above the soil and Qbt 2,3,4 BVs (0.1 mg/kg for both) in four soil samples and one tuff sample with a maximum concentration of 0.361 mg/kg. Mercury is retained as a COPC.

Nickel was detected above the soil and Qbt 2,3,4 BVs (15.4 mg/kg and 6.58 mg/kg, respectively) in 1 soil sample and 28 tuff samples with a maximum concentration of 20.1 mg/kg. The quantile and slippage tests indicated site concentrations of nickel in soil are not statistically different from background (Figure D-22 and Table D-1). The quantile and slippage tests indicated site concentrations of nickel in tuff are statistically different from background (Figure D-23 and Table D-2). Nickel is retained as a COPC.

Nitrate was detected in 170 samples with a maximum concentration of 16.1 mg/kg. Nitrate is retained as a COPC.

Nitrite was detected in one sample at a concentration of 0.771 mg/kg. Nitrite is retained as a COPC.

Perchlorate was detected in 165 samples with a maximum concentration of 1.26 mg/kg. Perchlorate is retained as a COPC.

Selenium was detected above the soil and Qbt 2,3,4 BVs (1.52 mg/kg and 0.3 mg/kg, respectively) in 27 soil samples and 91 tuff samples with a maximum concentration of 3.99 mg/kg. The Gehan and quantile tests indicated site concentrations of selenium in soil are statistically different from background (Figure D 24 and Table D-1). Selenium is retained as a COPC.

Sodium was detected above the soil BV (915 mg/kg) in one sample at a concentration of 1070 mg/kg. The quantile and slippage tests indicated site concentrations of sodium in soil are not statistically different from background (Figure D-25 and Table D-1). Sodium is not a COPC.

Vanadium was detected above the Qbt 2,3,4 BV (17 mg/kg) in three samples with a maximum concentration of 21.1 mg/kg. The quantile and slippage tests indicated site concentrations of vanadium in tuff are not statistically different from background (Figure D-26 and Table D-2). Vanadium is not a COPC.

Zinc was detected above the soil and Qbt 2,3,4 BVs (48.8 mg/kg and 63.5 mg/kg, respectively) in four soil samples and one tuff sample with a maximum concentration of 134 mg/kg. The Gehan and quantile tests indicated site concentrations of zinc in soil and tuff are not statistically different from background (Figure D-27 and Table D-1 for soil, Figure D-28 and Table D-2 for tuff). Zinc is not a COPC.

5.1.2.2 Organic Chemicals

A total of 186 samples (95 soil and 91 tuff) were collected at tract A-8-a and analyzed for SVOCs and VOCs. In addition, 29 samples (12 soil and 17 tuff) were analyzed for PCBs and explosive compounds, and 28 samples (12 soil and 16 tuff) were analyzed for dioxins/furans. Table 5.1-2 summarizes the analytical results for detected organic chemicals.

Organic chemicals detected at tract A-8-a include acenaphthene; acetone; acetonitrile; anthracene; Aroclor-1254; Aroclor-1260; benzene; benzo(a)anthracene; benzo(a)pyrene; benzo(b)fluoranthene; benzo(g,h,i)perylene; benzo(k)fluoranthene; benzyl alcohol; bis(2-ethylhexyl)phthalate; 2-butanone; butylbenzylphthalate; chrysene; di-n-butylphthalate; di-n-octylphthalate; dibenz(a,h)anthracene; 1,4-dioxane; fluoranthene; fluorene; 1,2,3,4,6,7,8-heptachlorodibenzodioxin; 1,2,3,4,6,7,8-heptachlorodibenzofuran; 1,2,3,4,7,8,9-heptachlorodibenzofuran; 1,2,3,6,7,8-hexachlorodibenzodioxin; 1,2,3,4,7,8-hexachlorodibenzofuran; indeno(1,2,3 cd)pyrene; methylene chloride; 1-methylnaphthalene; 2-methylnaphthalene; naphthalene; 4-nitrophenol; 1,2,3,4,6,7,8,9-octachlorodibenzodioxin; 1,2,3,4,6,7,8,9-octachlorodibenzofuran; 1,2,3,7,8-pentachlorodibenzofuran; 2,3,4,7,8-pentachlorodibenzofuran; phenanthrene; pyrene; 2,3,7,8-tetrachlorodibenzofuran; toluene; and 1,2,4-trimethylbenzene. The detected organic chemicals are retained as COPCs.

5.1.2.3 Radionuclides

A total of 186 samples (95 soil and 91 tuff) were analyzed for americium-241, isotopic plutonium, isotopic uranium, isotopic thorium, gamma-emitting radionuclides, strontium-90, technetium-99, and tritium. Table 5.1-3 presents the radionuclides detected or detected above BVs/FVs.

Plutonium-239/240 was detected above the soil FV (0.054 pCi/g) in 7 samples, was detected in soil below 1 ft bgs in 12 samples, and was detected in 16 tuff samples with a maximum activity of 1.97 pCi/g. Plutonium-239/240 is retained as a COPC.

Strontium-90 was detected in soil below 1 ft bgs in one sample and was detected in five tuff samples with a maximum activity of 0.643 pCi/g. Strontium-90 is retained as a COPC.

Thorium-228 was detected above the soil and Qbt 2,3,4 BVs (2.28 pCi/g and 2.52 pCi/g, respectively) in two soil samples and one tuff sample with a maximum activity of 3.34 pCi/g. Thorium-228 is retained as a COPC.

Thorium-230 was detected above the Qbt 2,3,4 BV (1.98 pCi/g) in two samples with a maximum activity of 2.77 pCi/g. Thorium-230 is retained as a COPC.

Thorium-232 was detected above the Qbt 2,3,4 BV (2.52 pCi/g) in one sample at an activity of 2.7 pCi/g. Thorium-232 is retained as a COPC.

Tritium was detected in two samples with a maximum activity of 7.74 pCi/g. Tritium is retained as a COPC.

Uranium-234 was detected above the soil and Qbt 2,3,4 BVs (2.59 pCi/g and 1.98 pCi/g, respectively) in 4 soil samples and 35 tuff samples with a maximum activity of 38.4 pCi/g. Uranium-234 is retained as a COPC.

Uranium-235/236 was detected above the soil and Qbt 2,3,4 BVs (0.2 pCi/g and 0.09 pCi/g, respectively) in 4 soil samples and 40 tuff samples with a maximum activity of 2.15 pCi/g. Uranium-235/236 is retained as a COPC.

Uranium-238 was detected above the soil and Qbt 2,3,4 BVs (2.29 pCi/g and 1.93 pCi/g, respectively) in 5 soil samples and 38 tuff samples with a maximum activity of 39.2 pCi/g. Uranium-238 is retained as a COPC.

5.1.3 Nature and Extent of Contamination – Tract A-8-a

The nature and extent of inorganic, organic, and radionuclide COPCs at tract A-8-a are discussed below. The spatial distribution of COPCs was evaluated using the data presented in Tables 5.1-1, 5.1-2, and 5.1-3. Sampling locations are presented in Figure 3.1-7.

5.1.3.1 Inorganic Chemicals

Inorganic COPCs at tract A-8-a include aluminum, antimony, arsenic, barium, calcium, chromium, copper, mercury, nickel, nitrate, nitrite, perchlorate, and selenium.

Aluminum was detected above the soil and Qbt 2,3,4 BVs in 1 soil sample and 22 tuff samples with a maximum concentration of 39,200 mg/kg. Concentrations increased with depth at locations 00-242 and 00-61715; concentrations did not change substantially with depth (1100 mg/kg) at location 00-61663; and

concentrations decreased with depth at all other locations (the concentrations in shallow samples at locations 00-174, 00-182, 00-189, 00-61524, 00-61525, 00-61530, 00-61635, and 00-61663 were below the soil BV [see Appendix C, Pivot Tables]). Vertical extent at location 00-61596 is defined by higher concentrations in shallower samples that were excavated (see Appendix C, Pivot Tables). Concentrations decreased laterally. The residential SSL was approximately 4.3 times and the industrial SSL was approximately 71 times the maximum concentration where vertical extent was not defined (18,100 mg/kg at location 00-61715). At all locations where vertical extent was not defined, aluminum was only detected above BV in tuff, and all overlying soil sampling results were below BV. The vertical distribution of aluminum results is not indicative of a release. The lateral extent of aluminum is defined, and further sampling for vertical extent is not warranted.

Antimony was detected above the soil and Qbt 2,3,4 BVs in 4 soil samples and 1 tuff sample with a maximum concentration of 1.32 mg/kg and was not detected but had DLs (0.541 mg/kg to 5.74 mg/kg) above the soil and Qbt 2,3,4 BVs in 3 soil samples and 15 tuff samples. Concentrations increased with depth at location 00-61710 and decreased with depth at locations 00-189, 00-61530, and 00-61595. Concentrations increased laterally. The residential SSL was approximately 24 times the maximum detected concentration. The residential SSL was approximately 6 times and the industrial SSL was approximately 90 times the maximum DL. Further sampling for lateral and vertical extent of antimony is not warranted.

Arsenic was detected above the Qbt 2,3,4 BV in 12 samples with a maximum concentration of 3.94 mg/kg. Concentrations increased with depth at location 00-194; did not change substantially with depth (0.07 mg/kg to 0.19 mg/kg) at locations 00-18, 00-61663, 00-61715; and decreased with depth at locations 00-189, 00-191, 00-61525, 00-61595, 00-61636, 00-61644, and 00-61647 (concentrations in shallow samples at locations 00-182, 00-189, 00-61525, 00-61663, and 00-61715 were below the soil BV [see Appendix C, Pivot Tables]). Concentrations increased laterally. The residential SSL was approximately 1.8 times and the industrial SSL was approximately 9.1 times the maximum concentration. The maximum concentration was only 1.15 mg/kg above the Qbt 2,3,4 BV and was 1.06 mg/kg below the maximum Qbt 2,3,4 background concentration. For all locations where arsenic was detected above BV in tuff, arsenic was not detected above BV in shallower, overlying soil samples. The vertical distribution of arsenic results is not indicative of a release, as described in Attachment 2. Further sampling for lateral and vertical extent of arsenic is not warranted.

Barium was detected above the soil and Qbt 2,3,4 BVs in 1 soil sample and 25 tuff samples with a maximum concentration of 377 mg/kg. Concentrations increased with depth at locations 00-242, 00-251, and 00-61617; concentrations did not change substantially with depth (4 mg/kg) at location 00-61715; and concentrations decreased with depth at all other locations (concentrations in shallow samples at locations 00-174, 00-1824, 00-189, 00-61530, 00-61604, 00-61617, 00-61663, and 00-61715 were below the soil BV [see Appendix C, Pivot Tables]). Vertical extent at location 00-61596 is defined by higher concentrations in shallower samples that were excavated (see Appendix C, Pivot Tables). Concentrations decreased laterally. The residential SSL was approximately 41 times the maximum concentration. The lateral extent of barium is defined, and further sampling for vertical extent is not warranted.

Calcium was detected above the soil and Qbt 2,3,4 BVs in 20 soil samples and 21 tuff samples with a maximum concentration of 17,300 mg/kg. Concentrations increased with depth at locations 00-242, 00-61596, and 00-61715, and concentrations decreased with depth at all other locations (the concentrations in the shallow samples at locations 00-189, 00-61525, 00-61696, and 00-61663 were below the soil BV [see Appendix C, Pivot Tables]). Concentrations increased laterally. The residential essential nutrient SSL was approximately 751 times the maximum concentration. Further sampling for lateral and vertical extent of calcium is not warranted.

Chromium was detected above the soil and Qbt 2,3,4 BVs in 1 soil sample and 41 tuff samples with a maximum concentration of 26.5 mg/kg. Concentrations increased with depth at locations 00-61639, 00-61646, and 00-61715; concentrations did not change substantially with depth (0 mg/kg to 0.6 mg/kg) at locations 00-182, 00-61598, 00-61634, and 00-61645; and concentrations decreased with depth at all other locations (concentrations in shallow samples at locations 00-174, 00-182, 00-189, 00-61525, 00-61596, 00-61617, 00-61634, 00-61635, 00-61644, 00-61645, and 00-61663 were below the soil BV [see Appendix C, Pivot Tables]). Concentrations decreased laterally. Because there was no known use of hexavalent chromium at this site, the results were compared with the residential SSL for trivalent chromium (117,000 mg/kg). The residential trivalent chromium SSL was approximately 4400 times the maximum concentration. The lateral extent of chromium is defined, and further sampling for vertical extent of chromium is not warranted.

Copper was detected above the soil and Qbt 2,3,4 BVs in 1 soil sample and 17 tuff samples with a maximum concentration of 17 mg/kg. Concentrations increased with depth at location 00-242, concentrations did not change substantially with depth (0.53 mg/kg) at location 00-61649, and concentrations decreased with depth at all other locations (concentrations in shallow samples at locations 00-174, 00-182, 00-189, 00-61525, 00-61649, 00-61663, and 00-61715 were below the soil BV [see Appendix C, Pivot Tables]). Vertical extent at location 00-61596 is defined by higher concentrations in shallower samples that were excavated (see Appendix C, Pivot Tables). Concentrations increased laterally. The residential SSL was approximately 180 times the maximum concentration. Further sampling for lateral and vertical extent of copper is not warranted.

Mercury was detected above the soil and Qbt 2,3,4 BVs in four soil samples and one tuff sample with a maximum concentration of 0.361 mg/kg. Concentrations increased with depth at location 00-61644; decreased with depth at locations 00-174, 00-61530, and 00-61639; and increased laterally. The residential SSL was approximately 66 times the maximum concentration. Further sampling for lateral and vertical extent of mercury is not warranted.

Nickel was detected above the soil and Qbt 2,3,4 BVs in 1 soil sample and 28 tuff samples with a maximum concentration of 20.1 mg/kg. Concentrations increased with depth at locations 00-182 and 00-61715, concentrations did not change substantially with depth (0.05 mg/kg and 0.7 mg/kg) at locations 00-61598 and 00-61635, and concentrations decreased with depth at all other locations (concentrations in shallow samples at locations 00-174, 00-189, 00-61525, 00-61596, 00-61635, 00-61639, 00-61645, and 00-61646 were below the soil BV [see Appendix C, Pivot Tables]). Concentrations decreased laterally. The residential SSL was approximately 78 times the maximum concentration. Lateral extent of nickel is defined, and further sampling for vertical extent is not warranted.

Nitrate was detected in 170 samples with a maximum concentration of 16.1 mg/kg. Concentrations increased with depth at locations 00-250, 00-61529, 00-61617, and 00-61663; did not change substantially with depth (0.20 mg/kg) at location 00-252; and concentrations decreased with depth at all other locations. Vertical extent at locations 00-61596 and 00-61597 is defined by higher concentrations in shallower samples that were excavated (see Appendix C, Pivot Tables). Concentrations decreased laterally. The residential SSL was approximately 7800 times the maximum concentration. Lateral extent of nitrate is defined, and further sampling for vertical extent is not warranted.

Nitrite was detected in one sample at a concentration of 0.771 mg/kg. Concentrations decreased with depth at location 00-61603 and decreased laterally. The vertical and lateral extent of nitrite is defined.

Perchlorate was detected in 165 samples with a maximum concentration of 1.26 mg/kg. Concentrations increased with depth at locations 00-172, 00-178, 00-194, 00-241, 00-246, 00-247, 00-252, 00-61524, 00-61530, 00-61617, 00-61635, 00-61636, 00-61640, 00-61641, 00-61643, 00-61644, 00-61645,

00-61663, 00-61710, and 00-61715; concentrations did not change substantially with depth (0.005 mg/kg and 0.0001 mg/kg) at locations 00-253 and 00-61604; and concentrations decreased with depth at all other locations. Vertical extent at locations 00-248, 00-61596, and 00-61597 is defined by higher concentrations in shallower samples that were excavated (see Appendix C, Pivot Tables). Concentrations decreased laterally. The residential SSL was approximately 44 times the maximum concentration. The lateral extent of perchlorate is defined, and further sampling for vertical extent is not warranted.

Selenium was detected above the soil and Qbt 2,3,4 BVs in 27 soil samples and 91 tuff samples with a maximum concentration of 3.99 mg/kg. Concentrations increased with depth at locations 00-174, 00-176, 00-180, 00-182, 00-189, 00-194, 00-61525, 00-61603, 00-61604, 00-61635, 00-61640, 00-61641, 00-61645, 00-61646, and 00-61715; concentrations did not change substantially with depth (0.01 mg/kg to 0.1 mg/kg) at locations 00-172, 00-242, 00-243, 00-248, 00-250, 00-251, 00-252, 00-253, 00-61596, 00-61642, 00-61643, and 00-61718; and concentrations decreased with depth at all other locations (concentrations in shallow samples at locations 00-61529 and 00-61531 were below the soil BV [see Appendix C, Pivot Tables]). Vertical extent at locations 00-61597 and 00-61617 is defined by higher concentrations in shallower samples that were excavated (see Appendix C, Pivot Tables). Concentrations increased laterally. The residential SSL was approximately 98 times the maximum concentration. Further sampling for lateral and vertical extent of selenium is not warranted.

5.1.3.2 Organic Chemicals

Organic COPCs at tract A-8-a include acenaphthene; acetone; acetonitrile; anthracene; Aroclor-1254; Aroclor-1260; benzene; benzo(a)anthracene; benzo(a)pyrene; benzo(b)fluoranthene; benzo(g,h,i)perylene; benzo(k)fluoranthene; benzyl alcohol; bis(2-ethylhexyl)phthalate; 2-butanone; butylbenzylphthalate; chrysene; di-n-butylphthalate; di-n-octylphthalate; dibenz(a,h)anthracene; 1,4-dioxane; fluoranthene; fluorene; 1,2,3,4,6,7,8-heptachlorodibenzodioxin; 1,2,3,4,6,7,8-heptachlorodibenzofuran; 1,2,3,4,7,8,9-heptachlorodibenzofuran; 1,2,3,6,7,8-hexachlorodibenzodioxin; 1,2,3,4,7,8-hexachlorodibenzofuran; indeno(1,2,3 cd)pyrene; methylene chloride; 1-methylnaphthalene; 2-methylnaphthalene; naphthalene; 4-nitrophenol; 1,2,3,4,6,7,8,9-octachlorodibenzodioxin; 1,2,3,4,6,7,8,9-octachlorodibenzofuran; 1,2,3,7,8-pentachlorodibenzofuran; 2,3,4,7,8-pentachlorodibenzofuran; phenanthrene; pyrene; 2,3,7,8-tetrachlorodibenzofuran; toluene; and 1,2,4-trimethylbenzene.

Acenaphthene was detected in two samples with a maximum concentration of 0.036 mg/kg. Concentrations decreased with depth at locations 00-61640 and 00-61641. Concentrations decreased laterally. The lateral and vertical extent of acenaphthene are defined.

Acetone was detected in one sample at a concentration of 0.00238 mg/kg. Concentrations decreased with depth at location 00-61648 and increased laterally. The residential SSL was approximately 27,900,000 times the detected concentration. The vertical extent of acetone is defined, and further sampling for lateral extent is not warranted.

Acetonitrile was detected in one sample at a concentration of 0.012 mg/kg. Concentrations increased with depth at location 00-61524 and increased laterally. The residential SSL was approximately 68,000 times the detected concentration. Further sampling for lateral and vertical extent of acetonitrile is not warranted.

Anthracene was detected in seven samples with a maximum concentration of 0.122 mg/kg. Concentrations decreased with depth at locations 00-61530, 00-61567, 00-61634, 00-61640, 00-61641, and 00-61710. Concentrations decreased laterally. The lateral and vertical extent of anthracene are defined.

Aroclor-1254 was detected in three samples with a maximum concentration of 0.0536 mg/kg. Concentrations decreased with depth at locations 00-61633, 00-61642, and 00-61644. Concentrations decreased laterally. The lateral and vertical extent of Aroclor-1254 is defined.

Aroclor-1260 was detected in 20 samples with a maximum concentration of 0.141 mg/kg. Only one depth was sampled at location 00-61595, and concentrations decreased with depth at locations 00-61633, 00-61642, 00-61643, and 00-61644. Concentrations increased laterally. The residential SSL was approximately 17 times the maximum concentration. Further sampling for lateral and vertical extent of Aroclor-1260 is not warranted.

Benzene was detected in two samples with a maximum concentration of 0.00128 mg/kg. Concentrations decreased with depth at locations 00-189 and 00-61529 and increased laterally. The residential SSL was approximately 14,000 times the maximum concentration. The vertical extent of benzene is defined, and further sampling for lateral extent is not warranted.

Benzo(a)anthracene was detected in 40 samples with a maximum concentration of 0.526 mg/kg. Concentrations increased with depth at locations 00-61617 and 00-61663, decreased with depth at all other locations, and decreased laterally. The residential SSL was approximately 119 times the maximum concentration where vertical extent was not defined (0.0129 mg/kg at location 00-61663). The lateral extent of benzo(a)anthracene is defined, and further sampling for vertical extent is not warranted.

Benzo(a)pyrene was detected in 42 samples with a maximum concentration of 0.396 mg/kg. Concentrations increased with depth at locations 00-61617 and 00-61663, decreased with depth at all other locations, and decreased laterally. The residential SSL was approximately 102 times the maximum concentration where vertical extent was not defined (0.011 mg/kg at location 00-61663). The lateral extent of benzo(a)pyrene is defined, and further sampling for vertical extent is not warranted.

Benzo(b)fluoranthene was detected in 58 samples with a maximum concentration of 0.54 mg/kg. Concentrations increased with depth at location 00-61617, did not change substantially with depth (0.0003 mg/kg) at location 00-61663, and decreased with depth at all other locations. Concentrations decreased laterally. The residential SSL was approximately 2.8 times and the industrial SSL was approximately 60 times the maximum concentration. The lateral extent of benzo(b)fluoranthene is defined, and further sampling for vertical extent is not warranted.

Benzo(g,h,i)perylene was detected in 36 samples with a maximum concentration of 0.108 mg/kg. Concentrations increased with depth at locations 00-191, 00-61524, and 00-61617; did not change substantially with depth (0.0002 mg/kg) at location 00-61663; and decreased with depth at all other locations. Concentrations decreased laterally. The residential SSL was approximately 16,000 times the maximum concentration. The lateral extent of benzo(g,h,i)perylene is defined, and further sampling for vertical extent is not warranted.

Benzo(k)fluoranthene was detected in 15 samples with a maximum concentration of 0.245 mg/kg. Concentrations decreased with depth at all locations and decreased laterally. The lateral and vertical extent of benzo(k)fluoranthene are defined.

Benzyl alcohol was detected in six samples with a maximum concentration of 0.5 mg/kg. Concentrations increased with depth at locations 00-241, 00-243, and 00-253; decreased with depth at locations 00-172 and 00-251; and decreased laterally. The residential SSL was 13,000 times the maximum concentration. The lateral extent of benzyl alcohol is defined, and further sampling for vertical extent is not warranted.

Bis(2-ethylhexyl)phthalate was detected in 12 samples with a maximum concentration of 0.381 mg/kg. Concentrations increased with depth at locations 00-182, 00-61604, 00-61636, and 00-61710; decreased with depth at locations 00-61595 and 00-61603; and decreased laterally. The residential SSL was approximately 997 times the maximum concentration. The lateral extent of bis(2-ethylhexyl)phthalate is defined, and further sampling for vertical extent is not warranted.

Butanone[2-] was detected in one sample at a concentration of 0.00176 mg/kg. Concentrations decreased with depth at location 00-61648 and increased laterally. The residential SSL was approximately 21,000,000 times the detected concentration. The vertical extent of 2-butanone is defined, and further sampling for lateral extent is not warranted.

Butylbenzylphthalate was detected in seven samples with a maximum concentration of 3.63 mg/kg. Concentrations decreased with depth at all locations and decreased laterally. The lateral and vertical extent of butylbenzylphthalate are defined.

Chrysene was detected in 46 samples with a maximum concentration of 0.461 mg/kg. Concentrations increased with depth at location 00-61617, did not change substantially with depth (0.0002 mg/kg) at location 00-61663, and decreased with depth at all other locations. Concentrations decreased laterally. The residential SSL was approximately 332 times the maximum concentration. The lateral extent of chrysene is defined, and further sampling for vertical extent is not warranted.

Di-n-butylphthalate was detected in 25 samples with a maximum concentration of 1.92 mg/kg. Concentrations increased with depth at locations 00-182, 00-61603, 00-61604, 00-61633, 00-61642, 00-61644, 00-61715, and 00-61718; decreased with depth at all other locations; and increased laterally. The residential SSL was approximately 3200 times the maximum concentration. Further sampling for lateral and vertical extent of di-n-butylphthalate is not warranted.

Di-n-octylphthalate was detected in one sample at a concentration of 0.0438 mg/kg. Concentrations increased with depth at location 00-248 and decreased laterally. The residential SSL was approximately 14,000 times the detected concentration. The lateral extent of di-n-octylphthalate is defined, and further sampling for vertical extent is not warranted.

Dibenz(a,h)anthracene was detected in one sample at a concentration of 0.00323 mg/kg. Concentrations decreased with depth at location 00-61530 and increased laterally. The residential SSL was approximately 47 times the detected concentration. The vertical extent of dibenz(a,h)anthracene is defined, and further sampling for lateral extent is not warranted.

Dioxane[1,4-] was detected in one sample at a concentration of 0.0192 mg/kg. Concentrations increased with depth at location 00-191 and decreased laterally. The residential SSL was approximately 2800 times the detected concentration. The lateral extent of 1,4-dioxane is defined, and further sampling for vertical extent is not warranted.

Fluoranthene was detected in 67 samples with a maximum concentration of 1.22 mg/kg. Concentrations increased with depth at locations 00-182, 00-61524, 00-61617, and 00-61663; decreased with depth at all other locations; and decreased laterally. The residential SSL was approximately 1900 times the maximum concentration. The lateral extent of fluoranthene is defined, and further sampling for vertical extent is not warranted.

Fluorene was detected in two samples with a maximum concentration of 0.0277 mg/kg. Concentrations decreased with depth at locations 00-61530 and 00-61640 and decreased laterally. The lateral and vertical extent of fluorene are defined.

Heptachlorodibenzodioxin[1,2,3,4,6,7,8-] was detected in 20 samples with a maximum concentration of 0.0000217 mg/kg. Concentrations decreased with depth at all locations and increased laterally. The toxicity-equivalent residential SSL was approximately 227 times the maximum concentration. The vertical extent of 1,2,3,4,6,7,8-heptachlorodibenzodioxin is defined, and further sampling for lateral extent is not warranted.

Heptachlorodibenzofuran[1,2,3,4,6,7,8-] was detected in 17 samples with a maximum concentration of 0.00000622 mg/kg. Concentrations decreased with depth at all locations and increased laterally. The toxicity-equivalent residential SSL was approximately 788 times the maximum concentration. The vertical extent of 1,2,3,4,6,7,8-hexachlorodibenzofuran is defined, and further sampling for lateral extent is not warranted.

Heptachlorodibenzofuran[1,2,3,4,7,8,9-] was detected in three samples with a maximum concentration of 0.000000739 mg/kg. Concentrations decreased with depth at locations 00-61643 and 00-61644 and increased laterally. The toxicity-equivalent residential SSL was approximately 6630 times the maximum concentration. The vertical extent of 1,2,3,4,7,8,9-hexachlorodibenzofuran is defined, and further sampling for lateral extent is not warranted..

Hexachlorodibenzodioxin[1,2,3,6,7,8-] was detected in three samples with a maximum concentration of 0.000000815 mg/kg. Concentrations decreased with depth at locations 00-61643 and 00-61644 and increased laterally. The toxicity-equivalent residential SSL was approximately 601 times the maximum concentration. The vertical extent of 1,2,3,6,7,8-hexachlorodibenzodioxin is defined, and further sampling for lateral extent of is not warranted.

Hexachlorodibenzofuran[1,2,3,4,7,8-] was detected in seven samples with a maximum concentration of 0.00000187 mg/kg. Concentrations decreased with depth at locations 00-61642, 00-61643, and 00-61644 and decreased laterally. The lateral and vertical extent of 1,2,3,4,7,8-hexachlorodibenzofuran are defined.

Indeno(1,2,3-cd)pyrene was detected in 19 samples with a maximum concentration of 0.108 mg/kg. Concentrations decreased with depth at all locations and decreased laterally. The lateral and vertical extent of indeno(1,2,3-cd)pyrene are defined.

Methylene chloride was detected in 12 samples with a maximum concentration of 0.241 mg/kg. Concentrations decreased with depth at all locations and decreased laterally. The lateral and vertical extent of methylene chloride are defined.

Methylnaphthalene[1-] was detected in 21 samples with a maximum concentration of 0.347 mg/kg. Concentrations increased with depth at location 00-61604, decreased with depth at all other locations, and increased laterally. The residential SSL was approximately 496 times the maximum concentration. Further sampling for lateral and vertical extent of 1-methylnaphthalene is not warranted.

Methylnaphthalene[2-] was detected in 25 samples with a maximum concentration of 0.439 mg/kg. Concentrations increased with depth at location 00-61604, decreased with depth at all other locations, and increased laterally. The residential SSL was approximately 529 times the maximum concentration. Further sampling for lateral and vertical extent of 2-methylnaphthalene is not warranted.

Naphthalene was detected in 22 samples with a maximum concentration of 0.324 mg/kg. Concentrations increased with depth at location 00-61604, decreased with depth at all other locations, and increased laterally. The residential SSL was approximately 70 times the maximum concentration. Further sampling for lateral and vertical extent of naphthalene is not warranted.

Nitrophenol[4-] was detected in one sample at a concentration of 0.158 mg/kg. Concentrations decreased with depth at location 00-61567 and decreased laterally. The lateral and vertical extent of 4-nitrophenol are defined.

Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-] was detected in 22 samples with a maximum concentration of 0.000257 mg/kg. Concentrations decreased with depth at all locations and increased laterally. The toxicity-equivalent residential SSL was approximately 636 times the maximum concentration. The vertical extent of 1,2,3,4,6,7,8,9-octachlorodibenzodioxin is defined, and further sampling for lateral extent is not warranted.

Octachlorodibenzofuran[1,2,3,4,6,7,8,9-] was detected in 15 samples with a maximum concentration of 0.0000197 mg/kg. Concentrations decreased with depth at all locations and increased laterally. The toxicity-equivalent residential SSL was approximately 8290 times the maximum concentration. The vertical extent of 1,2,3,4,6,7,8,9-octachlorodibenzofuran is defined, and further sampling for lateral extent is not warranted.

Pentachlorodibenzofuran[1,2,3,7,8-] was detected in eight samples with a maximum concentration of 0.00000262 mg/kg. Concentrations decreased with depth at all locations and decreased laterally. The lateral and vertical extent of 1,2,3,7,8-pentachlorodibenzodfuran are defined.

Pentachlorodibenzofuran[2,3,4,7,8-] was detected in two samples with a maximum concentration of 0.000000517 mg/kg. Concentrations decreased with depth at locations 00-61643 and 00-61644 and decreased laterally. The lateral and vertical extent of 2,3,4,7,8-pentachlorodibenzodfuran are defined.

Phenanthrene was detected in 55 samples with a maximum concentration of 0.728 mg/kg. Concentrations increased with depth at locations 00-182, 00-191, 00-61524, 00-61617, 00-61643, and 00-61663; decreased with depth at all other locations; and decreased laterally. The residential SSL was approximately 2500 times the maximum concentration. The lateral extent of phenanthrene is defined, and further sampling for vertical extent is not warranted.

Pyrene was detected in 60 samples with a maximum concentration of 1 mg/kg. Concentrations increased with depth at locations 00-182, 00-61617, and 00-61663; decreased with depth at all other locations; and decreased laterally. The residential SSL was 1700 times the maximum concentration. The lateral extent of pyrene is defined, and further sampling for vertical extent of pyrene is not warranted.

Tetrachlorodibenzofuran[2,3,7,8-] was detected in five samples with a maximum concentration of 0.000000667 mg/kg. Concentrations decreased with depth at locations 00-61642, 00-61643, and 00-61644 and decreased laterally. The lateral and vertical extent of 2,3,7,8-tetrachlorodibenzodfuran are defined.

Toluene was detected in two samples with a maximum concentration of 0.00243 mg/kg. Concentrations decreased with depth at locations 00-189 and 00-61529 and increased laterally. The residential SSL was approximately 2,200,000 times the maximum concentration. The vertical extent of toluene is defined, and further sampling for lateral extent is not warranted.

Trimethylbenzene[1,2,4-] was detected in one sample at a concentration of 0.000523 mg/kg. Concentrations decreased with depth at location 00-61636 and decreased laterally. The lateral and vertical extent of 1,2,4-trimethylbenzene are defined.

5.1.3.3 Radionuclides

Radionuclide COPCs at tract A-8-a include plutonium--239/240, strontium-90, thorium-228, thorium-230, thorium-232, tritium, uranium-234, uranium-235/236, and uranium-238.

Plutonium-239/240 was detected above the soil FV in 7 samples, was detected in soil below 1 ft bgs in 12 samples, and was detected in 16 tuff samples with a maximum activity of 1.97 pCi/g. Activities increased with depth at locations 00-61597 and 00-61644, activities did not change substantially with depth (0.003 pCi/g) at location 00-61637, and activities decreased with depth at all other locations. Activities decreased laterally. The residential SAL was approximately 40 times the maximum activity. The lateral extent of plutonium-239/240 is defined, and further sampling for vertical extent is not warranted.

Strontium-90 was detected in soil below 1 ft bgs in one sample and was detected in five tuff samples with a maximum activity of 0.643 pCi/g. Activities increased with depth at locations 00-246 and 00-252, decreased with depth at all other locations, and increased laterally. The residential SAL was approximately 23 times the maximum activity. Further sampling for lateral and vertical extent of strontium-90 is not warranted.

Thorium-228 was detected above the soil and Qbt 2,3,4 BVs in two soil samples and one tuff sample with a maximum activity of 3.34 pCi/g. Activities increased with depth at location 00-61524, decreased with depth at locations 00-61530 and 00-61663, and increased laterally. The residential SAL was approximately 1.4 times and the industrial SAL was approximately 5.1 times the maximum activity. The low frequency and spatial distribution of detections above BV are not indicative of a release from the site. Thorium-228 does not pose an unacceptable residential dose at tract A-8-a (8.68 mrem/yr, see Appendix F, Table F-4.2-16). Further sampling for lateral and vertical extent of thorium-228 is not warranted.

Thorium-230 was detected above the Qbt 2,3,4 BV in two samples with a maximum activity of 2.77 pCi/g. Activities decreased with depth at locations 00-61635 and 00-61644 and decreased laterally. The lateral and vertical extent of thorium-230 are defined.

Thorium-232 was detected above the Qbt 2,3,4 BV in one sample at an activity of 2.7 pCi/g. Activities increased with depth at location 00-61524 and increased laterally. The residential and industrial SALs were approximately 1.8 times the maximum activity. The SALs apply to the upper 15 cm (0.5 ft) of soil, and the detection above BV was from a depth interval of 15–16 ft bgs. The low frequency and spatial distribution of detections above BV are not indicative of a release from the site. Further sampling for lateral and vertical extent of thorium-232 is not warranted.

Tritium was detected in two samples with a maximum activity of 7.74 pCi/g. Activities increased with depth at location 00-61525, decreased with depth at location 00-61530, and increased laterally. The residential SAL was approximately 220 times the maximum activity. Further sampling for lateral and vertical extent of tritium is not warranted.

Uranium-234 was detected above the soil and Qbt 2,3,4 BVs in 4 soil samples and 35 tuff samples with a maximum activity of 38.4 pCi/g. Activities increased with depth at locations 00-61638, 00-61642, and 00-61646; did not change substantially with depth (0.22 pCi/g to 0.29 pCi/g) at locations 00-251, 00-61598, 00-61637, 00-61644, and 00-61645; and decreased with depth at all other locations (the activity in a shallow sample at location 00-61524 was below the soil BV [see Appendix C, Pivot Tables]). Vertical extent at location 00-61597 is defined by higher concentrations in shallower samples that were excavated (see Appendix C, Pivot Tables). Activities decreased laterally. The residential SAL was approximately 30 times the maximum activity where vertical extent was not defined (9.71 pCi/g at

location 00-61646). The lateral extent of uranium-234 is defined, and further sampling for vertical extent is not warranted.

Uranium-235/236 was detected above the soil and Qbt 2,3,4 BVs in 4 soil samples and 40 tuff samples with a maximum activity of 2.15 pCi/g. Activities increased with depth at locations 00-245, 00-252, 00-61598, 00-61637, 00-61638, 00-61644, and 00-61646; activities did not change substantially with depth (0.009 pCi/g) at location 00-61645; and activities decreased with depth at all other locations. Vertical extent at location 00-61597 is defined by higher concentrations in shallower samples that were excavated (see Appendix C, Pivot Tables). Activities decreased laterally. The residential SAL was approximately 20 times the maximum activity and 78 times the maximum activity where vertical extent was not defined (0.538 pCi/g at location 00-61646). The lateral extent of uranium-235/236 is defined, and further sampling for vertical extent is not warranted.

Uranium-238 was detected above the soil and Qbt 2,3,4 BVs in 5 soil samples and 38 tuff samples with a maximum activity of 39.2 pCi/g. Activities increased with depth at locations 00-242, 00-61637, 00-61638, and 00-61646; activities did not change substantially with depth (0.06 pCi/g to 0.32 pCi/g) at locations 00-245, 00-251, 00-61598, 00-61642, 00-61644, and 00-61645; and activities decreased with depth at all other locations. Vertical extent at location 00-61597 is defined by higher concentrations in shallower samples that were excavated (see Appendix C, Pivot Tables). Activities decreased laterally. The residential SAL was approximately 16 times the maximum activity where vertical extent was not defined (9.65 pCi/g at location 00-61646). The lateral extent of uranium-238 is defined, and further sampling for vertical extent is not warranted.

5.1.4 Human-Health and Ecological Risk Screening Results – Tract A-8-a

Appendix F presents screening-level human-health and ecological risk evaluations for tract A-8-a. The results of these evaluations are summarized below.

5.1.4.1 Summary of Human Health Screening – Tract A-8-a

Industrial Scenario

The total excess cancer risk for the industrial scenario is 3×10^{-7}, which is less than the NMED target risk level of 1×10^{-5} (NMED 2022, 702484). The industrial HI is 0.002, which is less than the NMED target HI of 1 (NMED 2022, 702484). Radionuclide EPCs were less than SALs, and the total estimated dose using the zero-substitution process for negative values is 0.000972 mrem/yr. No negative UCLs were calculated for this data set, so only the maximum or single detected concentration for tritium was needed to calculate the unsubstituted EPC, which resulted in a dose of 0.000897 mrem/yr.

Recreational Scenario

The total excess cancer risk for the recreational scenario is 3×10^{-7}, which is less than the NMED target risk level of 1×10^{-5} (NMED 2022, 702484). The recreational HI is 0.006, which is less than the NMED target HI of 1 (NMED 2022, 702484). Radionuclide EPCs were less than SALs, and the total estimated dose using the zero-substitution process is 0.000867 mrem/yr. The unsubstituted EPC resulted in a dose of 0.000798 mrem/yr.

Construction Worker Scenario

The total excess cancer risk for the construction worker scenario is 4×10^{-7}, which is less than the NMED target risk level of 1×10^{-5} (NMED 2022, 702484). The construction worker HI is 0.5, which is less than the NMED target HI of 1 (NMED 2022, 702484). Radionuclide EPCs were less than SALs, and the total estimated dose using the zero-substitution process is 2.81 mrem/yr. The unsubstituted EPC also resulted in a dose of 2.81 mrem/yr.

Residential Scenario

The total excess cancer risk for the residential scenario is 7×10^{-6}, which is less than the NMED target risk level of 1×10^{-5} (NMED 2022, 702484). The residential HI is 0.5, which is less than the NMED target HI of 1 (NMED 2022, 702484). Radionuclide EPCs were less than SALs, and the total estimated dose using the zero-substitution process is 10.24 mrem/yr. The unsubstituted EPC resulted in a dose of 10.57 mrem/yr.

Lead

Lead was not a COPC for the industrial, recreational, construction worker, and residential scenarios for tract A-8-a.

Vapor Intrusion

Some VOCs were detected, and buildings may be constructed on-site in the future. Therefore, the future vapor-intrusion pathway is potentially complete based upon NMED guidance (NMED 2022, 702484). However, multiple lines of evidence indicate that no further evaluation is necessary.

Based on the risk-screening assessment results, no potential unacceptable risks or doses exist for the industrial, recreational, construction worker, and residential scenarios at the portion of the MDPR site located within tract A-8-a.

5.1.4.2 Summary of Ecological Risk Screening – Tract A-8-a

Based on evaluations of the minimum ESLs, HI analyses, potential effects to populations (individuals for threatened and endangered [T&E] species), LOAEL analyses, multiple lines of evidence, and chemicals of potential ecological concern (COPECs) without ESLs, no potential ecological risks to the Mexican spotted owl, earthworm, generic plant, American robin, American kestrel, deer mouse, montane shrew, mountain cottontail, or gray fox exist for the portion of the MDPR site located within tract A-8-a.

5.2 Tract A-16-a

5.2.1 Results of Sample Analysis

For the portion of MDPR site located within tract A-16-a, Table 5.2-1 presents the inorganic chemicals detected above BVs, detected with no BV, or not detected with detection limits above BVs; Table 5.2-2 presents the detected organic chemicals; and Table 5.2-3 presents radionuclides detected above BVs/FVs or detected with no BV/FV. Sampling locations are presented in Plate 1 and Figure 3.1-8 for the northern and southern portions of tract A-16-a, respectively.

5.2.2 COPC Identification

A total of 672 samples were collected from 234 locations, including excavation samples which are not evaluated below. Decision-level data for the portion of MDPR site located within tract A-16-a consists of the results from 527 samples (253 soil and 274 tuff) from 202 locations collected during the 2020–2023 MDPR site investigation.

5.2.2.1 Inorganic Chemicals

A total of 527 samples (253 soil and 274 tuff) were collected at tract A-16-a and analyzed for TAL metals, nitrate, nitrite, perchlorate, and cyanide. Table 5.2-1 presents the inorganic chemicals above BVs and detected inorganic chemicals with no BVs.

Aluminum was detected above the Qbt 2,3,4 BV (7340 mg/kg) in 57 samples with a maximum concentration of 23,800 mg/kg. The Gehan and quantile tests indicated site concentrations of aluminum in tuff are statistically different from background (Figure D-29 and Table D-4). Aluminum is retained as a COPC.

Antimony was detected above the soil and Qbt 2,3,4 BVs (0.83 mg/kg and 0.5 mg/kg, respectively) in 8 soil samples and 10 tuff samples with a maximum concentration of 19.7 mg/kg and was not detected but had DLs (0.51 mg/kg to 3.26 mg/kg) above the soil and Qbt 2,3,4 BVs in 11 soil samples and 25 tuff samples. Antimony is retained as a COPC.

Arsenic was detected above the Qbt 2,3,4 BV (2.79 mg/kg) in 31 samples with a maximum concentration of 16.1 mg/kg. The Gehan and quantile tests indicated site concentrations of arsenic in tuff are statistically different from background (Figure D-30 and Table D-4). Arsenic is retained as a COPC.

Barium was detected above the soil and Qbt 2,3,4 BVs (295 mg/kg and 46 mg/kg, respectively) in 1 soil sample and 74 tuff samples with a maximum concentration of 305 mg/kg. The Gehan and quantile tests indicated site concentrations of barium in soil are not statistically different from background (Figure D-31 and Table D-3). The Gehan and quantile tests indicated site concentrations of barium in tuff are statistically different from background (Figure D-32 and Table D-4). Barium is retained as a COPC.

Beryllium was detected above the Qbt 2,3,4 BV (1.21 mg/kg) in three samples with a maximum concentration of 1.72 mg/kg. The Gehan and quantile tests indicated site concentrations of beryllium in tuff are not statistically different from background (Figure D-33 and Table D-4). Beryllium is not a COPC.

Cadmium was detected above the soil and Qbt 2,3,4 BVs (0.4 mg/kg and 1.63 mg/kg, respectively) in 16 soil samples and 1 tuff sample with a maximum concentration of 8.59 mg/kg. The quantile and slippage tests indicated site concentrations of cadmium in soil are not statistically different from background (Figure D-34 and Table D-3). The Gehan and quantile tests indicated site concentrations of cadmium in tuff are not statistically different from background (Figure D-35 and Table D-4). Cadmium is not a COPC.

Calcium was detected above the soil and Qbt 2,3,4 BVs (6120 mg/kg and 2200 mg/kg, respectively) in 25 soil samples and 54 tuff samples with a maximum concentration of 19,400 mg/kg. The Gehan and quantile tests indicated site concentrations of calcium in soil and tuff are statistically different from background (Figure D-36 and Table D-3 for soil, Figure D-37 and Table D-4 for tuff). Calcium is retained as a COPC.

Chromium was detected above the soil and Qbt 2,3,4 BVs (19.3 mg/kg and 7.14 mg/kg, respectively) in 1 soil sample and 31 tuff samples with a maximum concentration of 26.2 mg/kg. The Gehan and quantile tests indicated site concentrations of chromium in soil are not statistically different from background, but the Gehan and quantile tests indicated site concentrations of chromium in tuff are statistically different from background (Figure D-38 and Table D-3 for soil, Figure D-39 and Table D-4 for tuff). Chromium is retained as a COPC.

Cobalt was detected above the soil and Qbt 2,3,4 BVs (8.64 mg/kg and 3.14 mg/kg, respectively) in two soil samples and nine tuff samples with a maximum concentration of 9.99 mg/kg. The Gehan and quantile tests indicated site concentrations of cobalt in soil and tuff are not statistically different from background (Figure D-40 and Table D-3 for soil, Figure D-41 and Table D-4 for tuff). Cobalt is not a COPC.

Copper was detected above the soil and Qbt 2,3,4 BVs (14.7 mg/kg and 4.66 mg/kg, respectively) in 94 soil samples and 87 tuff samples with a maximum concentration of 3070 mg/kg. The Gehan and quantile tests indicated site concentrations of copper in soil and tuff are statistically different from background (Figure D-42 and Table D-3 for soil, Figure D-43 and Table D-4 for tuff). Copper is retained as a COPC.

Cyanide was detected above the soil and Qbt 2,3,4 BVs (0.5 mg/kg for each) in two soil samples and one tuff sample with a maximum concentration of 1 mg/kg and was not detected but had a DL above the soil BV in one sample. Cyanide is retained as a COPC.

Iron was detected above the soil BV (21,500 mg/kg) in two samples with a maximum concentration of 25,000 mg/kg. The Gehan and quantile tests indicated site concentrations of iron in soil are not statistically different from background (Figure D-44 and Table D-3). Iron is not a COPC.

Lead was detected above the soil and Qbt 2,3,4 BVs (22.3 mg/kg and 11.2 mg/kg, respectively) in 54 soil samples and 47 tuff samples with a maximum concentration of 260 mg/kg. The Gehan and quantile tests indicated site concentrations of lead in soil are statistically different from background, but the Gehan and quantile tests indicated site concentrations of lead in tuff are not statistically different from background (Figure D-45 and Table D-3 for soil, Figure D-46 and Table D-4 for tuff). Lead is retained as a COPC.

Magnesium was detected above the Qbt 2,3,4 BV (1690 mg/kg) in three samples with a maximum concentration of 3450 mg/kg. The quantile and slippage tests indicated site concentrations of magnesium in tuff are not statistically different from background (Figure D-47 and Table D-4). Magnesium is not a COPC.

Manganese was detected above the soil and Qbt 2,3,4 BVs (671 mg/kg and 482 mg/kg, respectively) in four soil samples and three tuff samples with a maximum concentration of 1140 mg/kg. The Gehan and quantile tests indicated site concentrations of manganese in soil are not statistically different from background (Figure D-48 and Table D-3). The quantile and slippage tests indicated site concentrations of manganese in tuff are not statistically different from background (Figure D-49 and Table D-4). Manganese is not a COPC.

Mercury was detected above the soil and Qbt 2,3,4 BVs (0.1 mg/kg for both) in six soil samples and four tuff samples with a maximum concentration of 0.998 mg/kg. Mercury is retained as a COPC.

Nickel was detected above the soil and Qbt 2,3,4 BVs (15.4 mg/kg and 6.58 mg/kg, respectively) in 2 soil samples and 33 tuff samples with a maximum concentration of 18.2 mg/kg. The Gehan and quantile tests indicated site concentrations of nickel in soil are not statistically different from background (Figure D-50

and Table D-3). The quantile and slippage tests indicated site concentrations of nickel in tuff are statistically different from background (Figure D-51 and Table D-4). Nickel is retained as a COPC.

Nitrate was detected in 401 samples with a maximum concentration of 35.3 mg/kg. Nitrate is retained as a COPC.

Nitrite was detected in eight samples with a maximum concentration of 2.42 mg/kg. Nitrite is retained as a COPC.

Perchlorate was detected in 294 samples with a maximum concentration of 1.64 mg/kg. Perchlorate is retained as a COPC.

Selenium was detected above the soil and Qbt 2,3,4 BVs (1.52 mg/kg and 0.3 mg/kg, respectively) in 34 soil samples and 266 tuff samples with a maximum concentration of 36 mg/kg and was not detected but had DLs (0.317 mg/kg to 0.373 mg/kg) above the Qbt 2,3,4 BV in 3 samples. The Gehan and quantile tests indicated site concentrations of selenium in soil are statistically different from background (Figure D-52 and Table D-3). Selenium is retained as a COPC.

Silver was detected above the soil and Qbt 2,3,4 BVs (1 mg/kg for both) in 31 soil samples and 12 tuff samples with a maximum concentration of 12.5 mg/kg. Silver is retained as a COPC.

Thallium was detected above the soil BV (0.73 mg/kg) in one sample at a concentration of 0.79 mg/kg. The Gehan and quantile tests indicated site concentrations of thallium in soil are not statistically different from background (Figure D 53 and Table D-3). Thallium is not a COPC.

Vanadium was detected above the Qbt 2,3,4 BV (17 mg/kg) in two samples with a maximum concentration of 20.2 mg/kg. The quantile and slippage tests indicated site concentrations of vanadium in tuff are not statistically different from background (Figure D-54 and Table D-4). Vanadium is not a COPC.

Zinc was detected above the soil and Qbt 2,3,4 BVs (48.8 mg/kg and 63.5 mg/kg, respectively) in 72 soil samples and 27 tuff samples with a maximum concentration of 5360 mg/kg. The Gehan and quantile tests indicated site concentrations of zinc in soil are statistically different from background (Figure D-55 and Table D-3) but the Gehan and quantile tests indicated site concentrations of zinc in tuff are not statistically different from background (Figure D-56 and Table D-4). Zinc is retained a COPC.

5.2.2.2 Organic Chemicals

A total of 514 samples (246 soil and 268 tuff) were collected at tract A-16-a and analyzed for SVOCs and VOCs. In addition, 120 samples (72 soil and 48 tuff) were analyzed for PCBs, explosive compounds, and dioxins/furans. Table 5.2-2 summarizes the analytical results for detected organic chemicals.

Organic chemicals detected at tract A-16-a include acenaphthene; acenaphthylene; acetone; acetonitrile; anthracene; Aroclor-1254; Aroclor-1260; benzene; benzo(a)anthracene; benzo(a)pyrene; benzo(b)fluoranthene; benzo(g,h,i)perylene; benzo(k)fluoranthene; benzoic acid; benzyl alcohol; bis(2-ethylhexyl)phthalate; 1-butanol; 2-butanone; butylbenzylphthalate; carbazole; chloroform; 2-chloronaphthalene; chrysene; di-n-butylphthalate; di n-octylphthalate; dibenz(a,h)anthracene; dibenzofuran; diethyl ether; diethylphthalate; dimethyl phthalate; 1,4-dioxane; fluoranthene; fluorene; 1,2,3,4,6,7,8-heptachlorodibenzodioxin; 1,2,3,4,6,7,8-heptachlorodibenzofuran; 1,2,3,4,7,8,9-heptachlorodibenzofuran; 1,2,3,4,7,8-hexachlorodibenzodioxin; 1,2,3,6,7,8-hexachlorodibenzodioxin; 1,2,3,7,8,9-hexachlorodibenzodioxin; 1,2,3,4,7,8,9-hexachlorodibenzofuran; 1,2,3,6,7,8-hexachlorodibenzofuran;

1,2,3,7,8-hexachlorodibenzofuran; 2,3,4,6,7,8-hexachlorodibenzofuran; indeno(1,2,3-cd)pyrene; 4-isopropyltoluene; methylene chloride; 1-methylnaphthalene; 2-methylnaphthalene; naphthalene; 1,2,3,4,6,7,8,9-octachlorodibenzodioxin; 1,2,3,4,6,7,8,9-octachlorodibenzofuran; 1,2,3,7,8-pentachlorodibenzodioxin; 1,2,3,7,8-pentachlorodibenzofuran; 2,3,4,7,8-pentachlorodibenzofuran; phenanthrene; pyrene; RDX (hexahydro-1,3,5-trinitro-1,3,5-triazine); 2,3,7,8-tetrachlorodibenzofuran; toluene; trichloroethene; 1,2,4-trimethylbenzene; 1,2-xylene; and 1,3-xylene+1,4-xylene. The detected organic chemicals are retained as COPCs.

5.2.2.3 Radionuclides

A total of 515 samples (246 soil and 269 tuff) were analyzed for americium-241, isotopic plutonium, isotopic uranium, isotopic thorium, gamma-emitting radionuclides, strontium-90, technetium-99, and tritium. Table 5.2-3 presents the radionuclides detected or detected above BVs/FVs.

Americium-241 was detected in soil below 1 ft bgs in one sample and was detected in two tuff samples with a maximum activity of 0.125 pCi/g. Americium-241 is retained as a COPC.

Cesium-137 was detected in soil below 1 ft bgs in three samples with a maximum activity of 0.142 pCi/g. Cesium-137 is retained as a COPC.

Cobalt-60 was detected in one tuff sample with an activity of 0.251 pCi/g. Cobalt-60 is retained as a COPC.

Plutonium-238 was detected above the soil FV (0.023 pCi/g) in four samples from 0 to 1 ft bgs, was detected in soil below 1 ft bgs in four samples, and was detected in one tuff sample with a maximum activity of 0.079 pCi/g. Plutonium-238 is retained as a COPC.

Plutonium-239/240 was detected above the soil FV (0.054 pCi/g) in 97 samples from 0 to 1 ft bgs, was detected in soil below 1 ft bgs in 73 samples, and was detected in 98 tuff samples with a maximum activity of 24.1 pCi/g.

Strontium-90 was detected above the soil FV (1.31 pCi/g) in one sample from 0 to 1 ft bgs, was detected in soil below 1 ft bgs in five samples, and was detected in nine tuff samples with a maximum activity of 2.2 pCi/g.

Technetium-99 was detected in two soil samples with a maximum activity of 3.95 pCi/g. Technetium-99 was the only radionuclide detected or detected above BV/FV in one sample and was detected with a low activity (0.28 pCi/g) of plutonium-239/240 in the other sample. Technetium-99 is not associated with historical activities at TA-21, and the very low frequency of detection (2 of 515 samples) and absence of other fission products in the samples where technetium-99 was detected do not indicate that the detected technetium-99 was associated with historical site activities. Technetium-99 is not a COPC.

Thorium-228 was detected above the soil and Qbt 2,3,4 BVs (2.28 pCi/g and 2.52 pCi/g, respectively) in one soil sample and one tuff sample with a maximum activity of 2.78 pCi/g. Thorium-228 is retained as a COPC.

Thorium-230 was detected above the soil and Qbt 2,3,4 BVs (2.21 pCi/g and 1.98 pCi/g, respectively) in two soil samples and one tuff sample with a maximum activity of 3.81 pCi/g. Thorium-230 is retained as a COPC.

Uranium-234 was detected above the soil and Qbt 2,3,4 BVs (2.59 pCi/g and 1.98 pCi/g, respectively) in 10 soil samples and 16 tuff samples with a maximum activity of 22.2 pCi/g. Uranium-234 is retained as a COPC.

Uranium-235/236 was detected above the soil and Qbt 2,3,4 BVs (0.2 pCi/g and 0.09 pCi/g, respectively) in 4 soil samples and 28 tuff samples with a maximum activity of 1.39 pCi/g. Uranium-235/236 is retained as a COPC.

Uranium-238 was detected above the soil and Qbt 2,3,4 BVs (2.29 pCi/g and 1.93 pCi/g, respectively) in 11 soil samples and 18 tuff samples with a maximum activity of 22.3 pCi/g. Uranium-238 is retained as a COPC.

5.2.3 Nature and Extent of Contamination – Tract A-16-a

The nature and extent of inorganic, organic, and radionuclide COPCs at tract A-16-a are discussed below. The spatial distribution of COPCs was evaluated using the data presented in Tables 5.2-1, 5.2-2, and 5.2-3. Sampling locations are presented in Plate 1 and Figure 3.1-8 for the northern and southern portions of tract A-16-a, respectively.

5.2.3.1 Inorganic Chemicals

Inorganic COPCs at tract A-16-a include aluminum, antimony, arsenic, barium, calcium, chromium, copper, cyanide, lead, mercury, nickel, nitrate, nitrite, perchlorate, selenium, silver, and zinc.

Aluminum was detected above the Qbt 2,3,4 BV in 57 samples with a maximum concentration of 23,800 mg/kg. Concentrations increased with depth at location 00-61738. Vertical extent at locations 00-206, 00-61581, 00-61582, 00-61622, and 00-61700 is defined by higher concentrations in shallower samples that were excavated (see Appendix C, Pivot Tables). Concentrations did not change substantially with depth (170 mg/kg and 400 mg/kg) at locations 00-61583 and 00-61612 and decreased with depth at all other locations (the concentrations in shallow samples at locations 00-186, 00-200, 00-204, 00-210, 00-218, 00-226, 00-259, 00-260, 00-61519, 00-61520, 00-61526, 00-61553, 00-61572, 00-61583, 00-61590, 00-61591, 00-61593, 00-61594, 00-61600, 00-61612, 00-61653, 00-61654, 00-61661, 00-61712, 00-61714, 00-61737, 00-61740, 00-61741, 00-61744, 00-61747, 00-61762, 00-61783, and 00-61784 were below the soil BV [see Appendix C, Pivot Tables]). Concentrations increased laterally. The residential SSL was approximately 3.3 times and the industrial SSL was approximately 54 times the maximum concentration. Aluminum was not detected above the soil BV in any of the 246 soil samples collected. Further sampling for lateral and vertical extent of aluminum is not warranted.

Antimony was detected above the soil and Qbt 2,3,4 BVs in 8 soil samples and 10 tuff samples with a maximum concentration of 19.7 mg/kg and was not detected but had DLs (0.51 mg/kg to 3.26 mg/kg, respectively) above the soil and Qbt 2,3,4 BVs in 11 soil samples and 25 tuff samples. Concentrations increased with depth at locations 00-61712, 00-61757, and 00-61805. Vertical extent at location 00-61599 is defined by higher concentrations in shallower samples that were excavated (see Appendix C, Pivot Tables). Concentrations decreased with depth at all other locations. Concentrations increased laterally. The residential SSL was approximately 1.6 times and the industrial SSL was approximately 26 times the maximum concentration. Antimony does not pose an unacceptable residential risk at tract A-16-a (H = 0.0153, Appendix F, Table F-4.2-30). Further sampling for lateral and vertical extent of antimony is not warranted.

Arsenic was detected above the Qbt 2,3,4 BV in 31 samples with a maximum concentration of 16.1 mg/kg. Concentrations increased with depth at locations 00-259, 00-260, 00-61741, 00-61744, 00-61745, 00-61747, 00-61750, 00-61775, 00-61783, 00-61793, 00-61804, 00-61808, 00-61811, and 00-61817. Vertical extent at locations 00-61581, 00-61582, 00-61739, and 00-61805 is defined by higher concentrations in shallower samples that were excavated (see Appendix C, Pivot Tables). Concentrations decreased with depth at all other locations (concentrations in shallow samples were below the soil BV [see Appendix C, Pivot Tables]). Concentrations decreased laterally from locations 00-61739 and 00-61805 where the maximum excavated concentrations were detected (58.6 mg/kg and 102 mg/kg, respectively). The residential SSL was approximately 1.1 times and the industrial SSL was approximately 5.8 times the maximum concentration where vertical extent is not defined (6.16 mg/kg at location 00-61817). Arsenic does not pose an unacceptable residential risk at tract A-16-a (cancer risk = 3.27×10^{-6}, HI = 0.178, Appendix F, Tables F-4.2-29 and F-4.2-30). Arsenic was not detected above the soil BV in any of the 246 soil samples collected. The lateral extent of arsenic is defined, and further sampling for vertical extent is not warranted.

Barium was detected above the soil and Qbt 2,3,4 BVs in 1 soil sample and 74 tuff samples with a maximum concentration of 305 mg/kg. Concentrations increased with depth at locations 00-211, 00-61583, 00-61612, and 00-61738. Vertical extent at locations 00-254, 00-256, 00-257, 00-61581, 00-61582, 00-61622, 00-61700, and 00-61776 is defined by higher concentrations in shallower samples that were excavated (see Appendix C, Pivot Tables). Only one depth was sampled at location 00-61628. Concentrations decreased with depth at all other locations (concentrations in shallow samples at locations 00-186, 00-196, 00-200, 00-204, 00-208, 00-210, 00-218, 00-220, 00-222, 00-226, 00-232, 00-259, 00-261, 00-61519, 00-61520, 00-61523, 00-61553, 00-61572, 00-61577, 00-61590, 00-61591, 00-61592, 00-61593, 00-61594, 00-61600, 00-61612, 00-61653, 00-61654, 00-61658, 00-61661, 00-61712, 00-61714, 00-61737, 00-61740, 00-61741, 00-61762, 00-61782, 00-61783, 00-61784, 00-61792, 00-61794, 00-61817, and 00-61818 were below the soil BV [see Appendix C, Pivot Tables]). Concentrations increased laterally. The residential SSL was approximately 51 times the maximum concentration. Further sampling for lateral and vertical extent of barium is not warranted.

Calcium was detected above the soil and Qbt 2,3,4 BVs in 25 soil samples and 54 tuff samples with a maximum concentration of 19,400 mg/kg. Concentrations increased with depth at locations 00-196, 00-208, 00-210, 00-228, 00-61520, 00-61553, 00-61583, 00-61616, 00-61630, 00 61714, 00-61737, 00-61751, 00-61813, 00-61816, and 00-61817. Vertical extent at locations 00-206, 00-257, 00-61622, and 00-61725 is defined by higher concentrations in shallower samples that were excavated (see Appendix C, Pivot Tables). Concentrations decreased with depth at all other locations (concentrations in shallow samples at locations 00-218, 00-228, 00-232, 00-61519, 00-61526, 00-61572, 00-61600, 00-61654, 00-61661, 00-61712, 00-61738, and 00-61783 were below the soil BV [see Appendix C, Pivot Tables]). Concentrations decreased laterally. The residential essential nutrient SSL was approximately 670 times the maximum concentration. The lateral extent of calcium is defined, and further sampling for vertical extent is not warranted.

Chromium was detected above the soil and Qbt 2,3,4 BV in 1 soil sample and 31 tuff samples with a maximum concentration of 26.2 mg/kg. Concentrations increased with depth at locations 00-61519, 00-61553, 00-61581, 00-61583, 00-61623, 00-61624, 00-61661, 00-61747, and 00-61805. Vertical extent at locations 00-257 and 00-61622 is defined by higher concentrations in shallower samples that were excavated (see Appendix C, Pivot Tables). Concentrations decreased with depth at all other locations (concentrations in shallow samples at locations 00-212, 00-226, 00-61572, 00-61589, 00-61612, 00-61654, 00-61712, 00-61714, 00-61738, 00-61740, and 00-61783 were below the soil BV [see Appendix C, Pivot Tables]). Concentrations increased laterally. Because there was no known use of hexavalent chromium at this site, the results were compared with the residential SSL for trivalent

chromium (117,000 mg/kg). The residential trivalent chromium SSL was approximately 4500 times the maximum concentration. Further sampling for lateral and vertical extent of chromium is not warranted.

Copper was detected above the soil and Qbt 2,3,4 BV in 94 soil samples and 87 tuff samples with a maximum concentration of 3070 mg/kg. Concentrations increased with depth at locations 00-196, 00-212, 00-61601, 00-61612, 00-61618, 00-61620, 00-61621, 00-61624, 00-61712, 00-61736, 00-61738, and 00-61775. Vertical extent at locations 00-206, 00-256, 00-257, 00-61581, 00-61582, 00-61599, 00-61622, 00-61700, 00-61701, 00-61725, 00-61728, 00-61765, and 00-61779 is defined by higher concentrations in shallower samples that were excavated (see Appendix C, Pivot Tables). Concentrations decreased with depth at all other locations (concentrations in shallow samples at locations 00-200, 00-202, 00-226, 00-61583, 00-61661, 00-61714, and 00-61817 were below the soil BV [see Appendix C, Pivot Tables]). Concentrations decreased laterally. The residential SSL was approximately 4.6 times and the industrial SSL was approximately 75 times the maximum concentration where vertical extent is not defined (688 mg/kg at location 00-61738). Copper does not pose an unacceptable residential risk at tract A-16-a (HI = 0.296, Appendix F, Table F-4.2-30). The lateral extent of copper is defined, and further sampling for vertical extent is not warranted.

Cyanide was detected above the soil and Qbt 2,3,4 BVs in two soil samples and one tuff sample with a maximum concentration of 1 mg/kg and was not detected but had a DL above the soil BV in one sample. Concentrations increased with depth at locations 00-61765, 00-61813, and 00-61816. Concentrations increased laterally. The residential SSL was approximately 11 times and the industrial SSL was approximately 63 times the maximum concentration. Further sampling for lateral and vertical extent of cyanide is not warranted.

Lead was detected above the soil and Qbt 2,3,4 BVs in 54 soil samples and 47 tuff samples with a maximum concentration of 260 mg/kg. Concentrations increased with depth at locations 00-212, 00-61612, 00-61618, 00-61620, 00-61717, 00-61744, 00-61750, 00-61762, 00-61783, 00-61793, 00-61794, 00-61797, 00-61608, and 00-61815. Vertical extent at locations 00-206, 00-256, 00-257, 00-61739, 00-61779, and 00-61805 is defined by higher concentrations in shallower samples that were excavated (see Appendix C, Pivot Tables). Concentrations did not change substantially with depth (0.9 mg/kg) at location 00-61747 and decreased with depth at all other locations (concentrations in shallow samples at locations 00-200, 00-210, and 00-61747 were below the soil BV [see Appendix C, Pivot Tables]). Concentrations decreased laterally. The residential SSL is approximately 1.5 times and the industrial SSL is approximately 3 times the maximum concentration. Lead does not pose an unacceptable residential risk at tract A-16-a (HI = 0.04, Appendix F, Table F-4.4-1). The lateral extent of lead is defined, and further sampling for vertical extent is not warranted.

Mercury was detected above the soil and Qbt 2,3,4 BVs in six soil samples and four tuff samples with a maximum concentration of 0.998 mg/kg. Concentrations increased with depth at location 00-61600 and decreased with depth at all other locations. Vertical extent at location 00-257 is defined by higher concentrations in shallower samples that were excavated (see Appendix C, Pivot Tables). Concentrations decreased laterally. The residential SSL was approximately 24 times the maximum concentration. The lateral extent of mercury is defined, and further sampling for vertical extent is not warranted.

Nickel was detected above the soil and Qbt 2,3,4 BVs in 2 soil samples and 33 tuff samples with a maximum concentration of 18.2 mg/kg. Concentrations increased with depth at locations 00-196, 00-61553, 00-61572, 00-61582, 00-61661, 00-61738, and 00-61747. Vertical extent at locations 00-61581 and 00-61805 is defined by higher concentrations in shallower samples that were excavated (see Appendix C, Pivot Tables). Concentrations did not change substantially with depth (0.05 mg/kg to 0.59 mg/kg) at locations 00-226, 00-260, 00-61520, 00-61569, 00-61577, 00-61583, and 00-61712 and decreased with depth at all other locations (concentrations in shallow samples at

locations 00-226, 00-259, 00-260, 00-61519, 00-61520, 00-61569, 00-61577, 00-61583, 00-61591, 00-61712, 00-61714, and 00-61818 were below the soil BV [see Appendix C, Pivot Tables]). Concentrations increased laterally. The residential SSL was approximately 86 times the maximum concentration. Further sampling for lateral and vertical extent of nickel is not warranted.

Nitrate was detected in 401 samples with a maximum concentration of 35.3 mg/kg. Concentrations increased with depth at locations 00-203, 00-205, 00-216, 00-217, 00-219, 00-221, 00-225, 00-233, 00-234, 00-236, 00-239, 00-240, 00-61599, 00-61616, 00-61623, 00-61712, 00-61804, 00-61813, 00-61816, and 00-61817. Only one depth was sampled at location 00-61628, and concentrations decreased with depth at all other locations. Vertical extent at locations 00-206, 00-256, 00-257, 00-61581, 00-61582, 00-61584, 00-61622, 00-61739, 00-61779, and 00-61805 is defined by higher concentrations in shallower samples that were excavated (see Appendix C, Pivot Tables). Concentrations increased laterally. The residential SSL was approximately 3500 times the maximum concentration. Further sampling for lateral and vertical extent of nitrate is not warranted.

Nitrite was detected in eight samples with a maximum concentration of 2.42 mg/kg. Concentrations increased with depth at locations 00-61756, 00-61813, and 00-61816 and decreased with depth at locations 00-61736, 00-61743, 00-61764, 00-61785, and 00-61792. Concentrations increased laterally. The residential SSL was approximately 3200 times the maximum concentration. Further sampling for lateral and vertical extent of nitrite is not warranted.

Perchlorate was detected in 294 samples with a maximum concentration of 1.64 mg/kg. Concentrations increased with depth at locations 00-186, 00-192, 00-203, 00-205, 00-211, 00-213, 00-217, 00-219, 00-225, 00-229, 00-233, 00-234, 00-236, 00-239, 00-240, 00-61520, 00-61526, 00-61553, 00-61581, 00-61582, 00-61583, 00-61584, 00-61591, 00-61602, 00-61612, 00-61616, 00-61619, 00-61623, 00-61627, 00-61700, 00-61716, 00-61717, 00-61729, 00-61737, 00-61748, 00-61778, 00-61781, 00-61783, and 00-61795. Concentrations did not change substantially with depth (0.000011 mg/kg to 0.00012 mg/kg) at locations 00-196, 00-209, 00-210, 00-260, 00-61546, 00-61653, 00-61654, 00-61751, and 00-61767 and decreased with depth at all other locations. Vertical extent at locations 00-61622 and 00-61776 is defined by higher concentrations in shallower samples that were excavated (see Appendix C, Pivot Tables). Concentrations decreased laterally. The residential SSL was approximately 33 times the maximum concentration. The lateral extent of perchlorate is defined, and further sampling for vertical extent is not warranted.

Selenium was detected above the soil and Qbt 2,3,4 BVs in 34 soil samples and 266 tuff samples with a maximum concentration of 36 mg/kg and was not detected but had DLs (0.317 mg/kg to 0.373 mg/kg) above the Qbt 2,3,4 BV in 3 samples. Concentrations increased with depth at locations 00-173, 00-175, 00-177, 00-183, 00-184, 00-185, 00-186, 00-187, 00-192, 00-196, 00-197, 00-200, 00-202, 00-204, 00-206, 00-210, 00-212, 00-213, 00-215, 00-216, 00-220, 00-222, 00-223, 00-226, 00-227, 00-228, 00-231, 00-232, 00-249, 00-255, 00-256, 00-259, 00-260, 00-261, 00-61519, 00-61520, 00-61526, 00-61528, 00-61546, 00-61550, 00-61569, 00-61570, 00-61571, 00-61572, 00-61573, 00-61574, 00-61576, 00-61577, 00-61581, 00-61586, 00-61589, 00-61590, 00-61591, 00-61592, 00-61599, 00-61600, 00-61601, 00-61602, 00-61609, 00-61611, 00-61618, 00-61622, 00-61627, 00-61651, 00-61653, 00-61654, 00-61655, 00-61657, 00-61659, 00-61660, 00-61661, 00-61700, 00-61701, 00-61706, 00-61707, 00-61711, 00-61712, 00-61714, 00-61725, 00-61726, 00-61728, 00-61729, 00-61737, 00-61740, 00-61741, 00-61745, 00-61746, 00-61747, 00-61751, 00-61752, 00-61762, 00-61763, 00-61764 ,00-61765, 00-61767, 00-61768, 00-61775, 00-61776, 00-61778, 00-61779, 00-61780, 00-61782, 00-61785, 00-61786, 00-61787, 00-61790, 00-61791, 00-61792, 00-61793, 00-61794, 00-61797, 00-61799, 00-61804, 00-61808, 00-61811, 00-61815, 00-61816, and 00-61817. Only one depth was sampled at locations 00-61628 and 00-61709. Concentrations did not change or

change substantially with depth (0 mg/kg to 0.12 mg/kg) at locations 00-179, 00-181, 00-193, 00-199, 00-203, 00-207, 00-209, 00-211, 00-217, 00-219, 00-221, 00-236, 00-240, 00-61568, 00-61620, 00-61621, 00-61623, 00-61624, 00-61705, 00-61708, 00-61736, 00-61738/, 00-61739, 00-61743, 00-61744, 00-61748, and 00-61795 and decreased with depth at all other locations (concentrations in shallow samples at locations 00-208, 00-214, 00-218, 00-61547, 00-61553, 00-61568, 00-61575, 00-61588, 00-61593, 00-61594, 00-61612, 00-61625, 00-61658, 00-61705, 00-61722, 00-61738, 00-61744, 00-61756, 00-61757, 00-61758, 00-61783, and 00-61784 were below the soil BV [see Appendix C, Pivot Tables]). Vertical extent at locations 00-254, 00-257, 00-61584, and 00-61805 is defined by higher concentrations in shallower samples that were excavated (see Appendix C, Pivot Tables). Concentrations decreased laterally. The residential SSL was approximately 11 times the maximum concentration. The lateral extent of selenium is defined, and further sampling for vertical extent is not warranted.

Silver was detected above the soil and Qbt 2,3,4 BVs in 31 soil samples and 12 tuff samples with a maximum concentration of 12.5 mg/kg. Concentrations increased with depth at locations 00-61612, 00-61738, 00-61751, 00-61757, and 00-61758. Vertical extent at location 00-256 is defined by higher concentrations in shallower samples that were excavated (see Appendix C, Pivot Tables). Concentrations decreased with depth at all other locations. Concentrations increased laterally. The residential SSL was approximately 31 times the maximum concentration. Further sampling for lateral and vertical extent of silver is not warranted.

Zinc was detected above the soil and Qbt 2,3,4 BVs in 72 soil samples and 27 tuff samples with a maximum concentration of 5360 mg/kg. Concentrations increased with depth at locations 00-212, 00-256, 00-61612, 00-61618, 00-61620, 00-61621, 00-61717, and 00-61738. Vertical extent at locations 00-206, 00-257, 00-61582, 00-61701, 00-61725, and 00-61779 is defined by higher concentrations in shallower samples that were excavated (see Appendix C, Pivot Tables). Concentrations decreased with depth at all other locations and decreased laterally. The residential SSL was approximately 36 times the maximum concentration where lateral extent is not defined (656 mg/kg at location 00-61727) and 16 times the maximum concentration where vertical extent is not defined (1430 mg/kg at location 00-61757). The lateral extent of zinc is defined, and further sampling for vertical extent is not warranted.

5.3.2.2 Organic Chemicals

Organic COPCs at tract A-16-a include acenaphthene; acenaphthylene; acetone; acetonitrile; anthracene; Aroclor-1254; Aroclor-1260; benzene; benzo(a)anthracene; benzo(a)pyrene; benzo(b)fluoranthene; benzo(g,h,i)perylene; benzo(k)fluoranthene; benzoic acid; benzyl alcohol; bis(2-ethylhexyl)phthalate; 1-butanol; 2-butanone; butylbenzylphthalate; carbazole; chloroform; 2-chloronaphthalene; chrysene; di-n-butylphthalate; di-n-octylphthalate; dibenz(a,h)anthracene; dibenzofuran; diethyl ether; diethylphthalate; dimethyl phthalate; 1,4-dioxane; fluoranthene; fluorene; 1,2,3,4,6,7,8-heptachlorodibenzodioxin; 1,2,3,4,6,7,8-heptachlorodibenzofuran; 1,2,3,4,7,8,9-heptachlorodibenzofuran; 1,2,3,4,7,8-hexachlorodibenzodioxin; 1,2,3,6,7,8-hexachlorodibenzodioxin; 1,2,3,7,8,9-hexachlorodibenzodioxin; 1,2,3,4,7,8,9-hexachlorodibenzofuran; 1,2,3,6,7,8-hexachlorodibenzofuran; 1,2,3,7,8-hexachlorodibenzofuran; 2,3,4,6,7,8-hexachlorodibenzofuran; indeno(1,2,3-cd)pyrene; 4-isopropyltoluene; methylene chloride; 1-methylnaphthalene; 2-methylnaphthalene; naphthalene; 1,2,3,4,6,7,8,9-octachlorodibenzodioxin; 1,2,3,4,6,7,8,9-octachlorodibenzofuran; 1,2,3,7,8-pentachlorodibenzodioxin; 1,2,3,7,8-pentachlorodibenzofuran; 2,3,4,7,8-pentachlorodibenzofuran; phenanthrene; pyrene; RDX; 2,3,7,-tetrachlorodibenzofuran; toluene; trichloroethene; 1,2,4-trimethylbenzene; 1,2-xylene; and 1,3-xylene+1,4-xylene.

Acenaphthene was detected in 22 samples with a maximum concentration of 0.263 mg/kg. Concentrations increased with depth at locations 00-61739, 00-61762, and 00-61795 and decreased with depth at all other locations. Vertical extent at locations 00-61725 and 61728 is defined by higher concentrations in shallower samples that were excavated (see Appendix C, Pivot Tables). Concentrations increased laterally. The residential SSL was approximately 13,000 times the maximum concentration. Further sampling for lateral and vertical extent of acenaphthene is not warranted.

Acenaphthylene was detected in 10 samples with a maximum concentration of 0.064 mg/kg. Concentrations increased with depth at location 00-61714 and decreased with depth at all other locations. Concentrations decreased laterally. The residential SSL was approximately 27,000 times the maximum concentration. The lateral extent of acenaphthylene is defined, and further sampling for vertical extent is not warranted.

Acetone was detected in four samples with a maximum concentration of 4.14 mg/kg. Concentrations increased with depth at locations 00-61714 and 00-61717 and decreased with depth at location 00-179. Vertical extent at location 00-61776 is defined by higher concentrations in shallower samples that were excavated (see Appendix C, Pivot Tables). Concentrations increased laterally. The residential SSL was approximately 16,000 times the maximum concentration. Further sampling for lateral and vertical extent of acetone is not warranted.

Acetonitrile was detected in three samples with a maximum concentration of 0.0108 mg/kg. Concentrations increased with depth at locations 00-205, 00-209, and 00-61716. Concentrations increased laterally. The residential SSL was approximately 75,000 times the maximum concentration. Further sampling for lateral and vertical extent of acetonitrile is not warranted.

Anthracene was detected in 51 samples with a maximum concentration of 0.421 mg/kg. Concentrations increased with depth at locations 00-61714, 00-61748, 00-61753, and 00-61795 and decreased with depth at all other locations. Vertical extent at location 00-61739 is defined by higher concentrations in shallower samples that were excavated (see Appendix C, Pivot Tables). Concentrations decreased laterally. The residential SSL was approximately 41,000 times the maximum concentration. The lateral extent of anthracene is defined, and further sampling for vertical extent is not warranted.

Aroclor-1254 was detected in three samples with a maximum concentration of 0.0275 mg/kg. Concentrations decreased with depth at locations 00-202, 00-61570, and 00-61589. Concentrations decreased laterally. The lateral and vertical extent of Aroclor-1254 are defined.

Aroclor-1260 was detected in 40 samples with a maximum concentration of 0.423 mg/kg. Concentrations increased with depth at locations 00-210 and 00-232; only one depth was sampled at locations 00-257 and 00-61628; and concentrations decreased with depth at all other locations. Concentrations decreased laterally. The residential SSL was approximately 610 times the maximum concentration where vertical extent is not defined (0.00396 mg/kg at location 00-61628). The lateral extent of Aroclor-1260 is defined, and further sampling for vertical extent is not warranted.

Benzene was detected in 20 samples with a maximum concentration of 0.00625 mg/kg. Concentrations increased with depth at locations 00-257, 00-61550, 00-61569, 00-61654, 00-61714, 00-61729, 00-61740, 00-61745, and 00-61753, and concentrations decreased with depth at all other locations. Vertical extent at location 00-61599 is defined by higher concentrations in shallower samples that were excavated (see Appendix C, Pivot Tables). Concentrations increased laterally. The residential SSL was approximately 2800 times the maximum concentration. Further sampling for lateral and vertical extent of benzene is not warranted.

Benzo(a)anthracene was detected in 160 samples with a maximum concentration of 0.659 mg/kg. Concentrations increased with depth at locations 00-61587, 00-61612, 00-61616, 00-61753, 00-61795, and 00-61816; concentrations did not change substantially with depth (0 mg/kg and 0.00049 mg/kg) at locations 00-61654 and 00-61748; and concentrations decreased with depth at all other locations. Vertical extent at locations 00-61584, 00-61728, 00-61739, and 00-61765 is defined by higher concentrations in shallower samples that were excavated (see Appendix C, Pivot Tables). Concentrations decreased laterally. The residential SSL was approximately 14 times the maximum concentration where vertical extent is not defined (0.107 mg/kg at location 00-61795). The lateral extent of benzo(a)anthracene is defined, and further sampling for vertical extent is not warranted.

Benzo(a)pyrene was detected in 129 samples with a maximum concentration of 0.485 mg/kg. Concentrations increased with depth at locations 00-61616, 00-61714, 00-61739, 00-61753, and 00-61795, and concentrations decreased with depth at all other locations. Vertical extent at locations 00-61584, 00-61728, and 00-61765 is defined by higher concentrations in shallower samples that were excavated (see Appendix C, Pivot Tables). Concentrations decreased laterally. The residential SSL was approximately 15 times the maximum concentration where vertical extent is not defined (0.0745 mg/kg at location 00-61795). The lateral extent of benzo(a)pyrene is defined, and further sampling for vertical extent is not warranted.

Benzo(b)fluoranthene was detected in 179 samples with a maximum concentration of 0.745 mg/kg. Concentrations increased with depth at locations 00-61612, 00-61616, and 00-61795; concentrations did not change substantially with depth (0.00002 mg/kg and 0.0003 mg/kg) at locations 00-61751 and 00-61816; and concentrations decreased with depth at all other locations. Vertical extent at locations 00-61584, 00-61728, 00-61765, and 00-61779 is defined by higher concentrations in shallower samples that were excavated (see Appendix C, Pivot Tables). Concentrations decreased laterally. The residential SSL was approximately 13 times the maximum concentration where vertical extent is not defined (0.116 mg/kg at location 00-61795). The lateral extent of benzo(b)fluoranthene is defined, and further sampling for vertical extent is not warranted.

Benzo(g,h,i)perylene was detected in 131 samples with a maximum concentration of 0.302 mg/kg. Concentrations increased with depth at locations 00-184, 00-61584, 00-61616, 00-61753, 00-61795, and 00-61816 and decreased with depth at all other locations. Vertical extent at locations 00-61728, 00-61739, 00-61765, and 00-61776 is defined by higher concentrations in shallower samples that were excavated (see Appendix C, Pivot Tables). Concentrations decreased laterally. The residential SSL was approximately 5800 times the maximum concentration. The lateral extent of benzo(g,h,i)perylene is defined, and further sampling for vertical extent is not warranted.

Benzo(k)fluoranthene was detected in 61 samples with a maximum concentration of 0.28 mg/kg. Concentrations increased with depth at locations 00-61616, 00-61714, 00-61722, 00-61728, 00-61768, and 00-61795; did not change substantially with depth (0.00012 mg/kg) at location 00-61658; and decreased with depth at all other locations. Concentrations decreased laterally. The residential SSL was approximately 55 times the maximum concentration. The lateral extent of benzo(k)fluoranthene is defined, and further sampling for vertical extent is not warranted.

Benzoic acid was detected in 17 samples with a maximum concentration of 2.67 mg/kg. Concentrations increased with depth at locations 00-187, 00-211, and 00-225; did not change substantially with depth (0.009 mg/kg) at location 00-61784; and decreased with depth at all other locations. Concentrations decreased laterally. The residential SSL was approximately 94,000 times the maximum concentration. The lateral extent of benzoic acid is defined, and further sampling for vertical extent is not warranted.

Benzyl alcohol was detected in 49 samples with a maximum concentration of 1.4 mg/kg. Concentrations increased with depth at locations 00-173, 00-175, 00-177, 00-179, 00-181, 00-185, 00-187, 00-195, 00-199, 00-201, 00-205, 00-213, 00-216, 00-225, 00-229, 00-231, 00-234, 00-235, 00-236, and 00-237; did not change substantially with depth (0.004 mg/kg and 0.008 mg/kg) at locations 00-197 and 00-209; and decreased with depth at all other locations. Concentrations decreased laterally. The residential SSL was approximately 4500 times the maximum concentration. The lateral extent of benzyl alcohol is defined, and further sampling for vertical extent is not warranted.

Bis(2-ethylhexyl)phthalate was detected in 17 samples with a maximum concentration of 0.459 mg/kg. Concentrations increased with depth at locations 00-261, 00-61660, 00-61717, 00-61758, and 00-61818 and decreased with depth at locations 00-61550, 00-61587, 00-61729, 00-61749, 00-61750, 00-61780, and 00-61817. Concentrations increased laterally. The residential SSL was approximately 830 times the maximum concentration. Further sampling for lateral and vertical extent of bis(2-ethylhexyl)phthalate is not warranted.

Butanol[1-] was detected in one sample at a concentration of 9.62 mg/kg. Concentrations increased with depth at location 00-61717 and increased laterally. The residential SSL was approximately 810 times the maximum concentration. Further sampling for lateral and vertical extent of 1-butanol is not warranted.

Butanone[2-] was detected in three samples with a maximum concentration of 0.258 mg/kg. Concentrations decreased with depth at locations 00-61568, 00-61589, and 00-61659 and decreased laterally. The vertical and lateral extent of 2-butanone are defined.

Butylbenzylphthalate was detected in 30 samples with a maximum concentration of 0.149 mg/kg. Concentrations increased with depth at locations 00-171, 00-179, 00-187, 00-205, 00-209, 00-213, and 00-238; did not change substantially with depth (0.0015 mg/kg) at location 00-175; and decreased with depth at all other locations. Concentrations decreased laterally. The residential SSL was approximately 19,000 times the maximum concentration. The lateral extent of butylbenzylphthalate is defined, and further sampling for vertical extent is not warranted.

Carbazole was detected in 10 samples with a maximum concentration of 0.196 mg/kg. Concentrations increased with depth at locations 00-61728 and 00-61795 and decreased with depth at locations 00-261, 00-61653, 00-61726, 00-61729, and 00-61787. Concentrations decreased laterally. The residential SSL was approximately 400 times the maximum concentration. The lateral extent of carbazole is defined, and further sampling for vertical extent is not warranted.

Chloroform was detected in 12 samples with a maximum concentration of 0.55 mg/kg. Concentrations decreased with depth at locations 00-61782, 00-61783, 00-61784, 00-61813, and 00-61818 and increased laterally. The residential SSL was approximately 11 times and the industrial SSL was approximately 52 times the maximum concentration. The vertical extent of chloroform is defined, and further sampling for lateral extent is not warranted.

Chloronaphthalene[2-] was detected in five samples with a maximum concentration of 0.00489 mg/kg. Concentrations decreased with depth at all locations and increased laterally. The residential SSL was approximately 1,300,000 times the maximum concentration. The vertical extent of 2-chloronaphthalene is defined, and further sampling for lateral extent is not warranted.

Chrysene was detected in 200 samples with a maximum concentration of 0.607 mg/kg. Concentrations increased with depth at locations 00-61568, 00-61581, 00-61612, 00-61616, 00-61654, 00-61726, 00-61748, and 00-61795; did not change substantially with depth (0.00002 mg/kg and 0.0005 mg/kg) at locations 00-61708 and 00-61751; and decreased with depth at all other locations. Vertical extent at

locations 00-61584, 00-61728, 00-61739, 00-61765, 00-61776, and 00-61779 is defined by higher concentrations in shallower samples that were excavated (see Appendix C, Pivot Tables). Concentrations decreased laterally. The residential SSL was approximately 250 times the maximum concentration. The lateral extent of chrysene is defined, and further sampling for vertical extent is not warranted.

Di-n-butylphthalate was detected in 67 samples with a maximum concentration of 0.393 mg/kg. Concentrations increased with depth at locations 00-177, 00-179, 00-185, 00-186, 00-190, 00-259, 00-261, 00-61590, 00-61592, 00-61599, 00-61612, 00-61627, 00-61651, 00-61700, 00-61722, 00-61728, 00-61751, and 00-61753 and decreased with depth at all other locations. Vertical extent at location 00-61779 is defined by higher concentrations in shallower samples that were excavated (see Appendix C, Pivot Tables). Concentrations decreased laterally. The residential SSL was approximately 16,000 times the maximum concentration. The lateral extent of di-n-butylphthalate is defined, and further sampling for vertical extent is not warranted.

Di-n-octylphthalate was detected in six samples with a maximum concentration of 0.158 mg/kg. Concentrations increased with depth at locations 00-226, 00-254, and 00-61795 and decreased with depth at locations 00-61587 and 00-61739. Concentrations decreased laterally. The residential SSL was approximately 4000 times the maximum concentration. The lateral extent of di-n-octylphthalate is defined, and further sampling for vertical extent is not warranted.

Dibenz(a,h)anthracene was detected in 21 samples with a maximum concentration of 0.087 mg/kg. Concentrations increased with depth at locations 00-61722 and 00-61795 and decreased with depth at all other locations. Concentrations decreased laterally. The residential SSL was approximately 19 times the maximum concentration where vertical extent is not defined (0.00805 mg/kg at location 00-61795). The lateral extent of dibenz(a,h)anthracene is defined, and further sampling for vertical extent is not warranted.

Dibenzofuran was detected in two samples with a maximum concentration of 0.193 mg/kg. Concentrations decreased with depth at locations 00-61780 and 00-61787. Concentrations increased laterally. The residential SSL was approximately 400 times the maximum concentration. The vertical extent of dibenzofuran is defined, and further sampling for lateral extent is not warranted.

Diethyl ether was detected in two samples with a maximum concentration of 36.9 mg/kg. Concentrations increased with depth at locations 00-214 and 00-61713 and increased laterally. The residential SSL was approximately 420 times the maximum concentration. Further sampling for lateral and vertical extent of diethyl ether is not warranted.

Diethylphthalate was detected in four samples with a maximum concentration of 0.0231 mg/kg. Concentrations increased with depth at locations 00-61750 and 00-61753 and decreased with depth at locations 00-61729 and 00-61745. Concentrations increased laterally. The residential SSL was approximately 2,100,000 times the maximum concentration. Further sampling for lateral and vertical extent of diethylphthalate is not warranted.

Dimethyl phthalate was detected in one sample at a concentration of 0.0193 mg/kg. Concentrations decreased with depth at location 00-61716 and increased laterally. The residential SSL was approximately 3,200,000 times the maximum concentration. The vertical extent of dimethyl phthalate is defined, and further sampling for lateral extent is not warranted.

Dioxane[1,4-] was detected in four samples with a maximum concentration of 0.42 mg/kg. Concentrations decreased with depth at locations 00-61594 and 00-61612. Concentrations increased laterally. The residential SSL was approximately 130 times the maximum concentration. The vertical extent of 1,4-dioxane is defined, and further sampling for lateral extent is not warranted.

Fluoranthene was detected in 197 samples with a maximum concentration of 1.84 mg/kg. Concentrations increased with depth at locations 00-232, 00-61568, 00-61612, 00-61616, 00-61795, 00-61813, and 00-61816 and decreased with depth at all other locations. Vertical extent at locations 00-61584, 00-61728, 00-61739, 00-61765, and 00-61779 is defined by higher concentrations in shallower samples that were excavated (see Appendix C, Pivot Tables). Concentrations decreased laterally. The residential SSL was approximately 1300 times the maximum concentration. The lateral extent of fluoranthene is defined, and further sampling for vertical extent is not warranted.

Fluorene was detected in 12 samples with a maximum concentration of 0.262 mg/kg. Concentrations increased with depth at location 00-61795, decreased with depth at all other locations, and increased laterally. The residential SSL was approximately 8800 times the maximum concentration. Further sampling for lateral and vertical extent of fluorene is not warranted.

Heptachlorodibenzodioxin[1,2,3,4,6,7,8-] was detected in 104 samples with a maximum concentration of 0.000091 mg/kg. Concentrations increased with depth at locations 00-196, 00-61630, 00-61775, and 00-61813; only one depth was sampled at locations 00-61628 and 00-257; and concentrations decreased with depth at all other locations. Vertical extent at locations 00-206 and 00-61622 is defined by higher concentrations in shallower samples that were excavated (see Appendix C, Pivot Tables). Concentrations increased laterally. The toxicity-equivalent residential SSL was approximately 54 times the maximum concentration. Further sampling for lateral and vertical extent of 1,2,3,4,6,7,8-heptachlorodibenzodioxin is not warranted.

Heptachlorodibenzofuran[1,2,3,4,6,7,8-] was detected in 86 samples with a maximum concentration of 0.0000355 mg/kg. Concentrations increased with depth at locations 00-218, 00-61630, 00-61712, and 00-61813; only one depth was sampled at locations 00-228, 00-257, and 00-61628; concentrations did not change substantially with depth (0.00000001 mg/kg) at location 00-196; and concentrations decreased with depth at all other locations. Vertical extent at locations 00-206 and 00-61622 is defined by higher concentrations in shallower samples that were excavated (see Appendix C, Pivot Tables). Concentrations increased laterally. The toxicity-equivalent residential SSL was approximately 138 times the maximum concentration. Further sampling for lateral and vertical extent of 1,2,3,4,6,7,8-heptachlorodibenzofuran is not warranted.

Heptachlorodibenzofuran[1,2,3,4,7,8,9-] was detected in four samples with a maximum concentration of 0.00000355 mg/kg. Concentrations decreased with depth at all locations and decreased laterally. The lateral and vertical extent of 1,2,3,4,7,8,9-heptachlorodibenzofuran are defined.

Hexachlorodibenzodioxin[1,2,3,4,7,8-] was detected in five samples with a maximum concentration of 0.00000708 mg/kg. Concentrations decreased with depth at all locations and increased laterally. The toxicity-equivalent residential SSL was approximately 700 times the maximum concentration. The vertical extent of 1,2,3,4,7,8-hexachlorodibenzodioxin is defined, and further sampling for lateral extent is not warranted.

Hexachlorodibenzodioxin[1,2,3,6,7,8-] was detected in 25 samples with a maximum concentration of 0.00000704 mg/kg. Concentrations increased with depth at location 00-196, decreased with depth at all other locations, and increased laterally. The toxicity-equivalent residential SSL was approximately

70 times the maximum concentration. Further sampling for lateral and vertical extent of 1,2,3,6,7,8-hexachlorodibenzodioxin is not warranted.

Hexachlorodibenzodioxin[1,2,3,7,8,9-] was detected in 18 samples with a maximum concentration of 0.00000457 mg/kg. Concentrations decreased with depth at all locations and increased laterally. The toxicity-equivalent residential SSL was approximately 100 times the maximum concentration. The vertical extent of 1,2,3,7,8,9-hexachlorodibenzodioxin is defined, and further sampling for lateral extent is not warranted.

Hexachlorodibenzofuran[1,2,3,4,7,8-] was detected in 22 samples with a maximum concentration of 0.0000248 mg/kg. Concentrations decreased with depth at all locations and decreased laterally. The lateral and vertical extent of 1,2,3,4,7,8-hexachlorodibenzofuran are defined.

Hexachlorodibenzofuran[1,2,3,6,7,8-] was detected in 14 samples with a maximum concentration of 0.00000255 mg/kg. Concentrations decreased with depth at all locations and decreased laterally. The lateral and vertical extent of 1,2,3,6,7,8-hexachlorodibenzofuran are defined.

Hexachlorodibenzofuran[1,2,3,7,8,9-] was detected in one sample at a concentration of 0.000000802 mg/kg. Concentrations decreased with depth at location 00-202 and decreased laterally. The lateral and vertical extent of 1,2,3,7,8,9-hexachlorodibenzofuran are defined.

Hexachlorodibenzofuran[2,3,4,6,7,8-] was detected in 21 samples with a maximum concentration of 0.00000163 mg/kg. Concentrations decreased with depth at all locations and decreased laterally. The lateral and vertical extent of 2,3,4,6,7,8-hexachlorodibenzofuran are defined.

Indeno(1,2,3-cd)pyrene was detected in 69 samples with a maximum concentration of 0.236 mg/kg. Concentrations increased with depth at locations 00-61616, 00-61722, 00-61739, 00-61753, 00-61765, and 00-61795. Concentrations decreased with depth at all other locations and decreased laterally. Vertical extent at location 00-61584 is defined by higher concentrations in shallower samples that were excavated (see Appendix C, Pivot Tables). The residential SSL was approximately 44 times the maximum concentration where vertical extent was not defined (0.0346 mg/kg at location 00-61795). The lateral extent of indeno(1,2,3-cd)pyrene is defined, and further sampling for vertical extent is not warranted.

Isopropyltoluene[4-] was detected in five samples with a maximum concentration of 0.00222 mg/kg. Concentrations decreased with depth at all locations and increased laterally. The residential SSL was approximately 1,000,000 times the maximum concentration. The vertical extent of 4-isopropyltoluene is defined, and further sampling for lateral extent is not warranted.

Methylene chloride was detected in 88 samples with a maximum concentration of 0.719 mg/kg. Concentrations increased with depth at locations 00-61594, 00-61655, 00-61712, 00-61713, 00-61737, 00-61748, 00-61751, 00-61753, 00-61776, and 00-61783. Only one depth was sampled at location 00-61709. Concentrations did not change substantially with depth (0.00005 mg/kg to 0.00055 mg/kg) at locations 00-205, 00-225, 00-229, and 00-231. Concentrations decreased with depth at all other locations and increased laterally. Vertical extent at locations 00-206, 00-257, and 00-61728 is defined by higher concentrations in shallower samples that were excavated (see Appendix C, Pivot Tables). The residential SSL was approximately 570 times the maximum concentration. Further sampling for lateral and vertical extent of methylene chloride is not warranted.

Methylnaphthalene[1-] was detected in 300 samples with a maximum concentration of 0.784 mg/kg. Concentrations increased with depth at locations 00-210, 00-232, 00-61546, 00-61568, 00-61582, 00-61612, 00-61616, 00-61618, 00-61623, 00-61626, 00-61654, 00-61708, 00-61714, 00-61739,

00-61748, 00-61753, 00-61754, 00-61757, 00-61783, 00-61795, 00-61813, 00-61816, and 00-61817. Only one depth was sampled at location 00-61709. Concentrations decreased with depth at all other locations and decreased laterally. Vertical extent at locations 00-256, 00-257, 00-61581, 00-61599, 00-61622, 00-61700, 00-61701, 00-61725, 00-61728, 00-61765, 00-61776, and 00-61779 is defined by higher concentrations in shallower samples that were excavated (see Appendix C, Pivot Tables). The residential SSL was approximately 220 times the maximum concentration. The lateral extent of 1-methylnaphthalene is defined, and further sampling for vertical extent is not warranted.

Methylnaphthalene[2-] was detected in 325 samples with a maximum concentration of 1.02 mg/kg. Concentrations increased with depth at locations 00-196, 00-232, 00-61546, 00-61568, 00-61582, 00-61612, 00-61616, 00-61618, 00-61623, 00-61624, 00-61626, 00-61630, 00-61654, 00-61708, 00-61714, 00-61739, 00-61748, 00-61753, 00-61754, 00-61757, 00-61775, 00-61783, 00-61795, 00-61816, and 00-61817. Only one depth was sampled at location 00-61709. Concentrations decreased with depth at all other locations and decreased laterally. Vertical extent at locations 00-256, 00-257, 00-61581, 00-61584, 00-61599, 00-61622, 00-61700, 00-61701, 00-61725, 00-61728, 00-61765, 00-61776, and 00-61779 is defined by higher concentrations in shallower samples that were excavated (see Appendix C, Pivot Tables). The residential SSL was approximately 230 times the maximum concentration. The lateral extent of 2-methylnaphthalene is defined, and further sampling for vertical extent is not warranted.

Naphthalene was detected in 292 samples with a maximum concentration of 0.871 mg/kg. Concentrations increased with depth at locations 00-210, 00-237, 00-61546, 00-61568, 00-61582, 00-61612, 00-61616, 00-61618, 00-61623, 00-61624, 00-61626, 00-61654, 00-61708, 00-61714, 00-61617, 00-61739, 00-61745, 00-61748, 00-61753, 00-61754, 00-61757, 00-61783, 00-61795, 00-61816, and 00-61817. Only one depth was sampled at location 00-61709. Concentrations did not change substantially with depth (0.0001 mg/kg and 0.00014 mg/kg) at locations 00-61661 and 00-61705 and decreased with depth at all other locations. Vertical extent at locations 00-256, 00-61581, 00-61599, 00-61700, 00-61701, 00-61725, 00-61728, 00-61765, 00-61776, and 00-61779 is defined by higher concentrations in shallower samples that were excavated (see Appendix C, Pivot Tables). Concentrations increased laterally. The residential SSL was approximately 26 times the maximum concentration. Further sampling for lateral and vertical extent of naphthalene is not warranted.

Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-] was detected in 102 samples with a maximum concentration of 0.00118 mg/kg. Concentrations increased with depth at locations 00-196, 00-232, and 00-61630; only one depth was sampled at location 00-257; concentrations did not change substantially with depth (0.00000004 mg/kg) at location 00-61775; and concentrations decreased with depth at all other locations. Vertical extent at locations 00-206 and 00-61622 is defined by higher concentrations in shallower samples that were excavated (see Appendix C, Pivot Tables). Concentrations increased laterally. The toxicity-equivalent residential SSL was approximately 140 times the maximum concentration. Further sampling for lateral and vertical extent of 1,2,3,4,6,7,8,9-octachlorodibenzodioxin is not warranted.

Octachlorodibenzofuran[1,2,3,4,6,7,8,9-] was detected in 70 samples with a maximum concentration of 0.0000414 mg/kg. Concentrations increased with depth at locations 00-196, 00-218, and 00-61712; only one depth was sampled at location 00-228; and concentrations decreased with depth at all other locations. Vertical extent at location 00-206 is defined by higher concentrations in shallower samples that were excavated (see Appendix C, Pivot Tables). Concentrations increased laterally. The toxicity-equivalent residential SSL was approximately 3900 times the maximum concentration. Further sampling for lateral and vertical extent of 1,2,3,4,6,7,8,9-octachlorodibenzofuran is not warranted.

Pentachlorodibenzodioxin[1,2,3,7,8-] was detected in seven samples with a maximum concentration of 0.000000962 mg/kg. Concentrations decreased with depth at all locations and decreased laterally. The lateral and vertical extent of 1,2,3,7,8-pentachlorodibenzodioxin are defined.

Pentachlorodibenzofuran[1,2,3,7,8-] was detected in 38 samples with a maximum concentration of 0.0000345 mg/kg. Concentrations decreased with depth at all locations and decreased laterally. The lateral and vertical extent of 1,2,3,7,8-pentachlorodibenzofuran are defined.

Pentachlorodibenzofuran[2,3,4,7,8-] was detected in 28 samples with a maximum concentration of 0.00000239 mg/kg. Concentrations increased with depth at location 00-61813, decreased with depth at all other locations, and increased laterally. The toxicity-equivalent residential SSL was approximately 47 times the maximum concentration. Further sampling for lateral and vertical extent of 2,3,4,7,8-pentachlorodibenzofuran is not warranted.

Phenanthrene was detected in 276 samples with a maximum concentration of 1.76 mg/kg. Concentrations increased with depth at locations 00-61568, 00-61582, 00-61612, 00-61616, 00-61618, 00-61623, 00-61626, 00-61654, 00-61708, 00-61714, 00-61739, 00-61748, 00-61753, 00-61754, 00-61795, and 00-61816. Concentrations did not change substantially with depth (0.0001 mg/kg) at location 00-61783 and decreased with depth at all other locations. Vertical extent at locations 00-257, 00-61581, 00-61584, 00-61599, 00-61700, 00-61701, 00-61725, 00-61728, 00-61765, 00-61776, and 00-61779 is defined by higher concentrations in shallower samples that were excavated (see Appendix C, Pivot Tables). Concentrations decreased laterally. The residential SSL was approximately 1000 times the maximum concentration. The lateral extent of phenanthrene is defined, and further sampling for vertical extent is not warranted.

Pyrene was detected in 205 samples with a maximum concentration of 1.36 mg/kg. Concentrations increased with depth at locations 00-232, 00-61568, 00-61612, 00-61616, 00-61654, 00-61739, 00-61795, and 00-61816; decreased with depth at all other locations; and decreased laterally. Vertical extent at locations 00-61581, 00-61584, 00-61728, 00-61765, and 00-61779 is defined by higher concentrations in shallower samples that were excavated (see Appendix C, Pivot Tables). The residential SSL was approximately 1300 times the maximum concentration. The lateral extent of pyrene is defined, and further sampling for vertical extent is not warranted.

RDX was detected in three samples with a maximum concentration of 0.628 mg/kg. Concentrations decreased with depth at locations 00-61611, 00-61712, and 00-61713 and increased laterally. The residential SSL was approximately 132 times the maximum concentration. The vertical extent of RDX is defined, and further sampling for lateral extent is not warranted.

Tetrachlorodibenzofuran[2,3,7,8-] was detected in 26 samples with a maximum concentration of 0.0000041 mg/kg. Concentrations increased with depth at locations 00-200, 00-232, 00-61749, and 00-61794; decreased with depth at all other locations; and decreased laterally. The residential SSL was approximately 120 times the maximum concentration. The lateral extent of 2,3,7,8-tetrachlorodibenzofuran is defined, and further sampling for vertical extent is not warranted.

Toluene was detected in 48 samples with a maximum concentration of 0.00609 mg/kg. Concentrations increased with depth at locations 00-222, 00-61547, 00-61593, 00-61594, 00-61602, 00-61612, 00-61654, 00-61657, 00-61658, 00-61707, 00-61713, 00-61716, 00-61729, 00-61740, 00-61745, and 00-61753. Concentrations decreased with depth at all other locations and increased laterally. Vertical extent at locations 00-257, 00-61599, and 00-61701 is defined by higher concentrations in shallower samples that were excavated (see Appendix C, Pivot Tables). The residential SSL was approximately 860,000 times the maximum concentration. Further sampling for lateral and vertical extent of toluene is not warranted.

Trichloroethene was detected in two samples with a maximum concentration of 0.000389 mg/kg. Concentrations decreased with depth at location 00-261 and decreased laterally. Vertical extent at location 00-257 is defined by higher concentrations in shallower samples that were excavated (see Appendix C, Pivot Tables). The lateral and vertical extent of trichloroethene are defined.

Trimethylbenzene[1,2,4-] was detected in one sample at a concentration of 0.000564 mg/kg. Concentrations decreased with depth at location 00-261 and decreased laterally. The lateral and vertical extent of 1,2,4-trimethylbenzene are defined.

Xylene[1,2-] was detected in five samples with a maximum concentration of 0.0014 mg/kg. Concentrations increased with depth at location 00-61717 and decreased with depth at locations 00-61651, 00-61714, and 00-61762. Concentrations increased laterally. The residential SSL was approximately 580,000 times the maximum concentration. Further sampling for lateral and vertical extent of 1,2-xylene is not warranted.

Xylene[1,3-]+xylene[1,4-] was detected in six samples with a maximum concentration of 0.0012 mg/kg. Concentrations increased with depth at locations 00-61654, 00-61717, and 00-61740; decreased with depth at locations 00-61651 and 00-61714; and increased laterally. The residential SSL was approximately 730,000 times the maximum concentration. Further sampling for lateral and vertical extent of 1,3-xylene+1,4-xylene is not warranted.

5.3.2.3 Radionuclides

Radionuclide COPCs at tract A-16-a include americium-241, cesium-137, cobalt-60, plutonium-238, plutonium-239/240, strontium-90, thorium-228, thorium-230, uranium-234, uranium-235/236, and uranium-238.

Americium-241 was detected in soil below 1 ft bgs in one sample and was detected in two tuff samples with a maximum activity of 0.125 pCi/g. Activities increased with depth at location 00-203 and decreased with depth at locations 00-211 and 00-61707. Activities decreased laterally. The residential SAL was 664 times the maximum activity. The lateral extent of americium-241 is defined, and further sampling for vertical extent is not warranted.

Cesium-137 was detected in soil below 1 ft bgs in three samples with a maximum activity of 0.142 pCi/g. Activities decreased with depth at locations 00-61519, 00-61705, and 00-61748 and increased laterally. The residential SAL was approximately 84 times the maximum activity. The vertical extent of cesium-137 is defined, and further sampling for lateral extent is not warranted.

Cobalt-60 was detected in one tuff sample with an activity of 0.251 pCi/g. Activities decreased with depth at location 00-61716 and increased laterally. The residential SAL is approximately 10 times and the industrial SAL is approximately 36 times the maximum activity. The vertical extent of cobalt-60 is defined, and further sampling for lateral extent is not warranted.

Plutonium-238 was detected above the soil FV in four samples from 0 to 1 ft bgs, was detected in soil below 1 ft bgs in four samples, and was detected in one tuff sample with a maximum activity of 0.079 pCi/g. Activities decreased with depth at all locations and increased laterally. The residential SAL was approximately 1100 times the maximum activity. The vertical extent of plutonium-238 is defined, and further sampling for the lateral extent is not warranted.

Plutonium-239/240 was detected above the soil FV in 97 samples from 0 to 1 ft bgs, was detected in soil below 1 ft bgs in 72 samples, and was detected in 98 tuff samples with a maximum activity of 24.1 pCi/g. Activities increased with depth at locations 00-196, 00-217, 00-256, 00-260, 00-61582, 00-61612, 00-61618, 00-61620, 00-61623, 00-61628, 00-61701, 00-61708, 00-61751, 00-61793, 00-61813, and 00-61816; decreased with depth at all other locations; and decreased laterally. Vertical extent at locations 00-206, 00-257, 00-61584, 00-61622, 00-61776, and 00-61805 is defined by higher concentrations in shallower samples that were excavated (see Appendix C, Pivot Tables). The residential SAL was approximately 3.3 times and the industrial SAL was approximately 50 times the maximum activity. Plutonium-239/240 does not pose an unacceptable residential dose at tract A-16-a (0.166 mrem/yr, Appendix F, Table F-4.2-32). The lateral extent of plutonium-239/240 is defined, and further sampling for vertical extent is not warranted.

Strontium-90 was detected above the soil FV in one sample from 0 to 1 ft bgs, was detected in soil below 1 ft bgs in five samples, and was detected in nine tuff samples with a maximum activity of 2.2 pCi/g. Activities increased with depth at locations 00-187, 00-201, 00-215, 00-61619, and 00-61661; decreased with depth at all other locations; and increased laterally. Vertical extent at location 00-206 is defined by higher concentrations in shallower samples that were excavated (see Appendix C, Pivot Tables). The residential SAL was approximately 6.8 times and the industrial SAL was approximately 1100 times the maximum activity. Strontium-90 does not pose an unacceptable residential dose at tract A-16-a (0.0483 mrem/yr, Appendix F, Table F-4.2-32). Further sampling for the lateral and vertical extent of strontium-90 is not warranted.

Thorium-228 was detected above the soil and Qbt 2,3,4 BVs in one soil sample and one tuff sample with a maximum activity of 2.78 pCi/g. Activities increased with depth at location 00-249, decreased with depth at location 00-222, and decreased laterally. The residential SAL was approximately 1.6 times and the industrial SAL was approximately 6.1 times the maximum activity. Thorium-228 does not pose an unacceptable residential dose at tract A-16-a (8.89 mrem/yr, Appendix F, Table F-4.2-32). The lateral extent of thorium-228 is defined, and further sampling for vertical extent is not warranted.

Thorium-230 was detected above the soil and Qbt 2,3,4 BVs in two soil samples and one tuff sample with a maximum activity of 3.81 pCi/g. Activities decreased with depth at locations 00-61623, 00-61781, and 00-61813 and increased laterally. The residential and industrial SALs were approximately 1.31 times the maximum activity. Thorium was detected above BV in only 3 of 515 samples collected at tract A-16-a, and the spatial distribution of the detections are not indicative of a release. Thorium-230 does not pose an unacceptable residential dose at tract A-16-a (6.44 mrem/yr, Appendix F, Table F-4.2-32). Further sampling for the lateral and vertical extent of thorium-230 is not warranted.

Uranium-234 was detected above the soil and Qbt 2,3,4 BVs in 10 soil samples and 16 tuff samples with a maximum activity of 22.2 pCi/g. Activities increased with depth at locations 00-205, 00-234, and 00-240; decreased with depth at all other locations; and decreased laterally. Vertical extent at locations 00-206, 00-257, 00-61581, 00-61584, 00-61700, and 00-61701 is defined by higher concentrations in shallower samples that were excavated (see Appendix C, Pivot Tables). The residential SAL was approximately 13 times the maximum activity and approximately 87 times the maximum activity where vertical extent was not defined (3.32 pCi/g at location 00-234). The lateral extent of uranium-234 is defined, and further sampling for vertical extent is not warranted.

Uranium-235/236 was detected above the soil and Qbt 2,3,4 BVs in 4 soil samples and 28 tuff samples with a maximum activity of 1.39 pCi/g. Activities increased with depth at locations 00-187, 00-205, 00-211, 00-234, 00-240, and 00-61757 and decreased with depth at all other locations (activities in shallow samples at locations 00-218, 00-61738, and 00-61744 were below the soil BV [see Appendix C, Pivot Tables]). Vertical extent at locations 00-206, 00-257, 00-61581, 00-61584, 00-61700, and 00-61701

is defined by higher concentrations in shallower samples that were excavated (see Appendix C, Pivot Tables). Activities decreased laterally. The residential SAL was approximately 30 times the maximum activity. The lateral extent of uranium-235/236 is defined, and further sampling for vertical extent is not warranted.

Uranium-238 was detected above the soil and Qbt 2,3,4 BVs in 11 soil samples and 18 tuff samples with a maximum activity of 22.3 pCi/g. Activities increased with depth at locations 00-205, 00-234, and 00-240; decreased with depth at all other locations; and decreased laterally. Vertical extent at locations 00-206, 00-257, 00-61581, 00-61584, 00-61700, and 00-61701 is defined by higher concentrations in shallower samples that were excavated (see Appendix C, Pivot Tables).The residential SAL was approximately 6.7 times and the industrial SAL was approximately 32 times the maximum activity. The residential SAL was approximately 46 times the maximum activity where vertical extent was not defined (3.25 pCi/g at location 00-234). The lateral extent of uranium-238 is defined, and further sampling for vertical extent is not warranted.

5.2.4 Human-Health and Ecological Risk Screening Results – Tract A-16-a

Appendix F presents screening-level human-health and ecological risk evaluations for tract A-16-a. The results of these evaluations are summarized below.

5.2.4.1 Summary of Human Health Risk Screening – Tract A-16-a

Industrial Scenario

The total excess cancer risk for the industrial scenario is 1×10^{-7}, which is less than the NMED target risk level of 1×10^{-5} (NMED 2022, 702484). The industrial HI is 0.0.008, which is less than the NMED target HI of 1 (NMED 2022, 702484). Radionuclide EPCs were less than SALs, and the total estimated dose using the zero-substitution process is 6.50 mrem/yr. The unsubstituted EPC resulted in a dose of 6.52 mrem/yr.

Recreational Scenario

The total excess cancer risk for the recreational scenario is 1×10^{-7}, which is less than the NMED target risk level of 1×10^{-5} (NMED 2022, 702484). The recreational HI is 0.02, which is less than the NMED target HI of 1 (NMED 2022, 702484). Radionuclide EPCs were less than SALs, and the total estimated dose using the zero-substitution process is 6.46 mrem/yr. The unsubstituted EPC resulted in a dose of 6.47 mrem/yr.

Construction Worker Scenario

The total excess cancer risk for the construction worker scenario is 3×10^{-7}, which is less than the NMED target risk level of 1×10^{-5} (NMED 2022, 702484). The construction worker HI is 0.4, which is less than the NMED target HI of 1 (NMED 2022, 702484). Radionuclide EPCs were less than SALs, and the total estimated dose using the zero-substitution process is 10.13 mrem/yr. The unsubstituted EPC resulted in a dose of 13.30 mrem/yr.

Residential Scenario

The total excess cancer risk for the residential scenario is 5×10^{-6}, which is less than the NMED target risk level of 1×10^{-5} (NMED 2022, 702484). The residential HI is 0.4, which is less than the NMED target HI of 1 (NMED 2022, 702484). Radionuclide EPCs were less than SALs, and the total estimated dose

using the zero-substitution process is 18.64 mrem/yr. The unsubstituted EPC resulted in a dose of 29.99 mrem/yr and is based upon the use of maximum detected concentrations for cesium-137, plutonium-238, plutonium-239/240, and strontium-90 (0.277 pCi/g, 0.079 pCi/g, 24.1 pCi/g and 2.2 pCi/g, respectively). Using the maximum detected concentrations is an unreasonable overestimation of the dose because the maximum concentrations do not represent the average exposure to receptors due to the large area of the site. Furthermore, these maximum concentrations are less than their respective SALs, which indicates that the dose based on these maximum concentrations is an overestimation.

Lead

Lead was identified as a COPC for the industrial, recreational, construction worker, and residential scenarios. The back-calculated SSL from NMED for lead was used for the industrial, recreational, construction worker, and residential scenarios (NMED 2022, 702484). The industrial lead HQ was 0.03, the recreational lead HQ was 0.02, the construction worker lead HQ was 0.02, and the residential lead HQ was 0.04.

Vapor Intrusion

Some VOCs were detected, and buildings may be constructed on-site in the future. Therefore, the future vapor intrusion pathway is potentially complete based upon NMED guidance (NMED 2022, 702484). However, multiple lines of evidence indicate that no further evaluation is necessary.

Based on the risk-screening assessment results, no potential unacceptable risks or doses exist for the industrial, recreational, construction worker, and residential scenarios at the portion of the MDPR site located within tract A-16-a.

5.2.4.2 Summary of Ecological Risk Screening – Tract A-16-a

Based on evaluations of the minimum ESLs, HI analyses, potential effects to populations (individuals for T&E species), LOAEL analyses, multiple lines of evidence, and COPECs without ESLs, no potential ecological risks to the Mexican spotted owl, earthworm, generic plant, American robin, American kestrel, deer mouse, montane shrew, mountain cottontail, or gray fox exist for the portion of the MDPR site located within tract A-16-a.

5.3 MDPR Site

The combined data for tracts A-8-a and A-16-a were used to evaluate risk for the MDPR site. The combined data set was not evaluated for nature and extent because the results would not be different from the results for the individual tracts. The COPCs for the combined data set were the same as for the individual tract data sets with two exceptions. Lead and zinc were not retained as COPCs for tract A-8-a because the data in soil and tuff were not statistically different from background but were retained as COPCs for tract A-16-a and for the MDPR site. Evaluating the lead and zinc data from tract A-8-a for extent would not indicate the need for additional sampling because the results are not statistically different from background. Results of statistical tests for inorganic chemicals in tuff and soil at the MDPR site are presented in Appendix D, Tables D-5 and D-6, respectively. Box plots for inorganic chemicals detected above BVs in soil and tuff at the MDPR site are presented in Appendix D, Figures D-57 through D-94.

The human-health and ecological risk screening evaluations for the MDPR site are presented in Appendix F, and the results are summarized below.

5.3.1 Human-Health and Ecological Risk Screening Results – MDPR Site

5.3.1.1 Summary of Human Health Risk Screening – MDPR Site

Industrial Scenario

The total excess cancer risk for the industrial scenario is 2×10^{-7}, which is less than the NMED target risk level of 1×10^{-5} (NMED 2022, 702484). The industrial HI is 0.007, which is less than the NMED target HI of 1 (NMED 2022, 702484). Radionuclide EPCs were less than SALs, and the total estimated dose using the zero-substitution process is 6.49 mrem/yr. The unsubstituted EPC resulted in a dose of 6.52 mrem/yr.

Recreational Scenario

The total excess cancer risk for the recreational scenario is 1×10^{-7}, which is less than the NMED target risk level of 1×10^{-5} (NMED 2022, 702484). The recreational HI is 0.02, which is less than the NMED target HI of 1 (NMED 2022, 702484). Radionuclide EPCs were less than SALs, and the total estimated dose using the zero-substitution process is 6.46 mrem/yr. The unsubstituted EPC resulted in a dose of 6.50 mrem/yr.

Construction Worker Scenario

The total excess cancer risk for the construction worker scenario is 3×10^{-7}, which is less than the NMED target risk level of 1×10^{-5} (NMED 2022, 702484). The construction worker HI is 0.4, which is less than the NMED target HI of 1 (NMED 2022, 702484). Radionuclide EPCs were less than SALs, and the total estimated dose using the zero-substitution process is 10.15 mrem/yr. The unsubstituted EPC resulted in a dose of 13.33 mrem/yr.

Residential Scenario

The total excess cancer risk for the residential scenario is 5×10^{-6}, which is less than the NMED target risk level of 1×10^{-5} (NMED 2022, 702484). The residential HI is 0.4, which is less than the NMED target HI of 1 (NMED 2022, 702484). Radionuclide EPCs were less than SALs, and the total estimated dose using the zero-substitution process is 18.36 mrem/yr. The unsubstituted EPC resulted in a dose of 30.05 mrem/yr and is based upon the use of maximum detected concentrations for cesium-137, plutonium-238, plutonium-239/240, and strontium-90 (0.277 pCi/g, 0.079 pCi/g, 24.1 pCi/g and 2.2 pCi/g, respectively). Using the maximum detected concentrations is an unreasonable overestimation of the dose because the maximum concentrations do not represent the average exposure to receptors due to the large area of the site. Furthermore, these maximum concentrations are less than their respective SALs, which indicates that the dose based on these maximum concentrations is an overestimation.

Lead

Lead was identified as a COPC for the industrial, recreational, construction worker, and residential scenarios. The back-calculated SSL from NMED for lead was used for the industrial, recreational, construction worker, and residential scenarios (NMED 2022, 702484). The industrial lead HQ was 0.02, the recreational lead HQ was 0.02, the construction worker lead HQ was 0.02, and the residential lead HQ was 0.04.

Vapor Intrusion

Some VOCs were detected, and buildings may be constructed on-site in the future. Therefore, the future vapor intrusion pathway is potentially complete based upon NMED guidance (NMED 2022, 702484). However, multiple lines of evidence indicate that no further evaluation is necessary.

Based on the risk-screening assessment results, no potential unacceptable risks or doses exist for the industrial, recreational, construction worker, and residential scenarios at the MDPR site.

5.3.1.2 Summary of Ecological Risk Screening – MDPR Site

Based on evaluations of the minimum ESLs, HI analyses, potential effects to populations (individuals for T&E species), LOAEL analyses, multiple lines of evidence, and COPECs without ESLs, no potential ecological risks to the Mexican spotted owl, earthworm, generic plant, American robin, American kestrel, deer mouse, montane shrew, mountain cottontail, or gray fox exist for the MDPR site.

6.0 CONCLUSIONS AND RECOMMENDATIONS

A total of 867 samples from 289 locations were collected, analyzed, and evaluated for nature and extent and human health and ecological risk assessments. A total of 5917 yd^3 of contaminated soil, tuff, and debris was removed.

The results of the human-health risk screening assessments conducted for the portions of the MDPR site located within tracts A-8-a and A-16-a, and for the MDPR site as a whole, indicate no unacceptable risk under the residential, industrial, construction worker, and recreational scenarios and no unacceptable risk to ecological receptors. Therefore, in accordance with Section X.C of the Consent Order, no further action is required for the MDPR site, and this site should not be added to Appendix A of the Consent Order as a new SWMU or AOC.

7.0 REFERENCES AND MAP DATA SOURCES

7.1 References

The following reference list includes documents cited in this report. Parenthetical information following each reference provides the author(s), publication date, and ERID, ESHID, or EMID. ERIDs were assigned by the Laboratory's Associate Directorate for Environmental Management (IDs through 599999); ESHIDs were assigned by the Laboratory's Associate Directorate for Environment, Safety, and Health (IDs 600000 through 699999); and EMIDs are assigned by N3B (IDs 700000 and above).

BGI (Banda Group International), August 23, 2023. "Extent Sampling Work Plan for Middle DP Road Site, Revision 16," White Rock, New Mexico. (BGI 2023, 702948)

DoD and DOE (U.S. Department of Defense and Department of Energy), 2019. "Department of Defense (DoD), Department of Energy (DOE) Consolidated Quality Systems Manual (QSM) for Environmental Laboratories," DoD/DOE QSM 5.3, Washington, D.C. (DoD and DOE 2019, 702976)

DOE (U.S. Department of Energy), March 9, 2020. "Response to the February 28, 2020 New Mexico Environment Department Request for Information on the Potential Newly Discovered Solid Waste Management Unit or Area of Concern Los Alamos National Laboratory (EPA ID #NM0890010515 HWB-LANL-MISC-CO)," U.S. Department of Energy letter (MAI: 08PM-2020-001227) to K. Pierard (NMED-HWB) from T. Johnson (EM-LA) and M.J. Weis (NA-LA), Los Alamos, New Mexico. (DOE 2020, 700839)

DOE (U.S. Department of Energy), January 14, 2021. "Submittal of the Geophysical Letter Report, Revised Pothole Location Maps, and Independent Review Comments for the Middle DP Road Site Solid Waste Management Unit Assessment Work Plan," U.S. Department of Energy letter (EMLA-2021-0128-02-001) to K. Pierard (NMED-HWB) from A. Duran (EM-LA), Los Alamos, New Mexico. (DOE 2021, 701189)

Dow, D., July 5, 1945. "New Disposal Pit for CM Division," Los Alamos Scientific Laboratory memorandum to G.R. Tyler from D. Dow, Los Alamos, New Mexico. (Dow 1945, 006713)

EPA (U.S. Environmental Protection Agency), November 2002. "Guidance on Environmental Data Verification and Data Validation," EPA QA/G-8, Office of Environmental Information, Washington, D.C. (EPA 2002, 702975)

Gehan, E.A., June 1965. "A Generalized Wilcoxon Test for Comparing Arbitrarily Singly-Censored Samples," *Biometrika,* Vol. 52, No. 1 and 2, pp. 203–223. (Gehan 1965, 055611)

Gilbert, R.O., and J.C. Simpson, November 1990. "Statistical Sampling and Analysis Issues and Needs for Testing Attainment of Background-Based Cleanup Standards at Superfund Sites," Proceedings of The Workshop on Superfund Hazardous Waste: Statistical Issues in Characterizing a Site: Protocols, Tools, and Research Needs, U.S. Environmental Protection Agency, Arlington, Virginia. (Gilbert and Simpson 1990, 055612)

Gilbert, R.O., and J.C. Simpson, December 1992. "Statistical Methods for Evaluating the Attainment of Cleanup Standards, Volume 3: Reference-Based Standards for Soils and Solid Media," document prepared for the U.S. Environmental Protection Agency, Pacific Northwest Laboratory, Richland, Washington. (Gilbert and Simpson 1992, 054952)

LANL (Los Alamos National Laboratory), September 22, 1998. "Inorganic and Radionuclide Background Data for Soils, Canyon Sediments, and Bandelier Tuff at Los Alamos National Laboratory," Los Alamos National Laboratory document LA-UR-98-4847, Los Alamos, New Mexico. (LANL 1998, 059730)

LANL (Los Alamos National Laboratory), September 2015. "Derivation and Use of Radionuclide Screening Action Levels, Revision 4," Los Alamos National Laboratory document LA-UR-15-24859, Los Alamos, New Mexico. (LANL 2015, 600929)

LANL (Los Alamos National Laboratory), February 2018. "Development of Ecological Preliminary Remediation Goals for Los Alamos National Laboratory, Revision 1.1," Los Alamos National Laboratory document LA-UR-18-20670, Los Alamos, New Mexico. (LANL 2018, 602891)

Millard, W.P., and S.J. Deverel, December 1988. "Nonparametric Statistical Methods for Comparing Two Sites Based on Data with Multiple Nondetect Limits," *Water Resources Research,* Vol. 24, No. 12, pp. 2087–2098. (Millard and Deverel 1988, 054953)

N3B (Newport News Nuclear BWXT-Los Alamos, LLC), October 2020. "Technical Approach for Calculating Recreational Soil Screening Levels for Chemicals, Revision 6," Newport News Nuclear BWXT-Los Alamos, LLC, document EM2020-0401, Los Alamos, New Mexico. (N3B 2020, 701072)

N3B (Newport News Nuclear BWXT-Los Alamos, LLC), December 2020. "Solid Waste Management Unit Assessment Work Plan for Middle DP Road Site," Newport News Nuclear BWXT-Los Alamos, LLC, document EM2020-0498, Los Alamos, New Mexico. (N3B 2020, 701169)

N3B (Newport News Nuclear BWXT-Los Alamos, LLC), March 2021. "Solid Waste Management Unit Assessment Work Plan for Middle DP Road Site, Revision 1," Newport News Nuclear BWXT-Los Alamos, LLC, document EM2021-0095, Los Alamos, New Mexico. (N3B 2021, 701344)

N3B (Newport News Nuclear BWXT-Los Alamos, LLC), September 2022. "ECORISK Database (Release 4.3)," on CD, Newport News Nuclear BWXT-Los Alamos, LLC, document EM2022-0358, Los Alamos, New Mexico. (N3B 2022, 702057)

NMED (New Mexico Environment Department), February 28, 2020. "Request for Information, Potential Newly Discovered Solid Waste Management Unit or Area of Concern," New Mexico Environment Department letter to D. Hintze (EM-LA) and M. Weis (NA-LA) from K. Pierard (NMED-HWB), Santa Fe, New Mexico. (NMED 2020, 700783)

NMED (New Mexico Environment Department), April 7, 2020. "Potential Newly Discovered SWMU or AOC, Middle DP Road Site," New Mexico Environment Department letter to T. Johnson (EM-LA) and M. Weis (NA-LA) from K. Pierard (NMED-HWB), Santa Fe, New Mexico. (NMED 2020, 700838)

NMED (New Mexico Environment Department), April 5, 2021. "Approval, Solid Waste Manangement [sic] Unit Assessment Work Plan for Middle DP Road Site, Revision 1," New Mexico Environment Department letter to A. Duran (EM-LA) from K. Pierard (NMED-HWB), Santa Fe, New Mexico. (NMED 2021, 701368)

NMED (New Mexico Environment Department), November 2022. "Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Soil Screening Guidance for Human Health Risk Assessments," Hazardous Waste Bureau and Ground Water Quality Bureau, Santa Fe, New Mexico. (NMED 2022, 702484)

7.2 Map Data Sources

LANL Boundary: As published; Triad SDE Spatial Geodatabase: GISPUBPRD1\PUB.Boundaries\ PUB.lanlarea; December 2020.

Tech Areas: As published; Triad SDE Spatial Geodatabase: GISPUBPRD1\PUB.Boundaries\ PUB.tecareas; December 2020.

Major Road: As published; Q:\16-Projects\16-0033\project_data.gdb\line\major_road; October 2019.

Structures: As published, County of Los Alamos GIS Server: (https://gis.losalamosnm.us/securegis/ rest/services/basemaps/basemap/FeatureServer); December 2020.

Drainage: As published, N3B/T2S, GIS projects folder; \\n3b-fs01\n3b-shares) (Q: GIS DATA) Project: 16-0033; project_data.gdb; line feature dataset; drainage_features; December 2020.

Paved Road: As published; Triad SDE Spatial Geodatabase: GISPUBPRD1\PUB.Infrastructure\ PUB.paved_rds_arc; December 2020.

MDPR Site Boundary: As published, N3B/T2S, GIS projects folder; \\n3b-fs01\n3b-shares) (Q: GIS DATA) Project: 20-0024; project_data.gdb; poly feature dataset; smaller_areas_A8a_A16a_merged; December 2020.

MDA Boundary: As published; Triad SDE Spatial Geodatabase: GISPUBPRD1\PUB.regulatory\ PUB.mda_boundary; December 2020.

Sample location: As published, N3B/T2S, GIS projects folder; \\n3b-fs01\n3b-shares) (Q: GIS DATA) Project: 20-0024; project_data.gdb; point feature dataset; xy_pit_locations_1; December 2020.

Triad environmental air sampler: As published, N3B/T2S, GIS projects folder; \\n3b-fs01\n3b-shares) (Q: GIS DATA) Project: 20-0024; project_data.gdb; point feature dataset; air_monitoring_station; December 2020.

LA county provided electric,gas,sewer, and water: As published, provided as an email attachment in zipped ESRI shapefile format sent from the County of Los Alamos to the U.S. Department of energy. December 2020.

Lift station features (future well and future dry well): As published, N3B/T2S, GIS projects folder; \\n3b-fs01\n3b-shares) (Q: GIS DATA) Project: 20-0024; project_data.gdb; poly feature dataset; site_feature_A8b; Site features digitized from Los Alamos County provided engineering drawings; Drawing provided upon request; December 2020.

New Manhole: As published, N3B/T2S, GIS projects folder; \\n3b-fs01\n3b-shares) (Q: GIS DATA) Project: 20-0024; project_data.gdb; point feature dataset; gps_manhole_location; Information field collected by Dave Frank, summer of 2020; Feature collected using a Leica Zeno 20 hand held GPS unit; June 2020.

MDA B excavation area: As published, N3B/T2S, GIS projects folder; \\n3b-fs01\n3b-shares) (Q: GIS DATA) Project: 11-0132; Q:\11-Projects\11-0132\ev_MDA_B\shp\all_enclosure_ polygons_merge.shp; 2011.

Trench line: As published, N3B/T2S, GIS projects folder; \\n3b-fs01\n3b-shares) (Q: GIS DATA) Project: 20-0024; project_data.gdb; line feature dataset; trench_lines; features digitized from N3B provided data; All data available upon request; December 2020.

Pits dug by Triad for sewer investigation: As published, N3B/T2S, GIS projects folder; \\n3b-fs01\n3b-shares) (Q: GIS DATA) Project: 20-0024; project_data.gdb; point feature dataset; triad_data_pit_locations; Information digitized from a Triad IFPROG prepared map; June 2020.

MDA B areas 9 and 10: As published, N3B/T2S, GIS projects folder; \\n3b-fs01\n3b-shares) (Q: GIS DATA) Project: 20-0024; project_data.gdb; line feature dataset; trench_areas; features digitized from N3B provided data; All data available upon request; December 2020.

Fences: As published; Triad SDE Spatial Geodatabase: GISPUBPRD1\PUB.Infrastructure\ PUB.fences_arc; December 2020.

County Boundary: As published, County of Los Alamos GIS Server: (https://gis.losalamosnm.us/securegis/rest/services/basemaps/basemap/FeatureServer); December 2020.

Land Parcel: As published; Triad SDE Spatial Geodatabase: GISPUBPRD1\PUB.Boundaries\ PUB.LCT_boundary; December 2020.

Index and Terrain Contours (40- and 5-ft Interval): As published, N3B/T2S, GIS projects folder; \\n3b-fs01\n3b-shares) (Q: GIS DATA) Project: 20-0024; project_data.gdb; line feature dataset; site_contour; All contours generated from the 2014 Bare Earth Elevation Model; N3B/T2S, GIS projects folder; \\n3b-fs01\n3b-shares) Q:\2014\Bare_Earth\BareEarth_DEM_Mosaic.gdb; December 2023.

SWMU or AOC Boundary: As published; Triad SDE Spatial Geodatabase: GISEMPRD1\PUB.regulatory\ PUB.prs_all_reg_admin; December 2020.

Mesa Tops: As published, N3B/T2S, GIS projects folder; \\n3b-fs01\n3b-shares) (Q: GIS DATA) Project: 22-0031; project_data.gdb; poly feature dataset; eco_canyon_mesa; December 2023.

Biased sampling location, Anomaly pothole location, Debris located and Gridded pothole location: As published, N3B/T2S, GIS projects folder; \\n3b-fs01\n3b-shares) (Q: GIS DATA) Project: 20-0024; project_data.gdb; point feature dataset; gridded_data_A8a_A16a_smaller; December 2023.

Geophysics anomaly area: As published, N3B/T2S, GIS projects folder; \\n3b-fs01\n3b-shares) (Q: GIS DATA) Project: 20-0024; project_data.gdb; poly feature dataset; targets_LANL; Data assumed to be provided by Banda Group International (BGI) or a geophysical subcontractor hired by BGI; December 2023.

HDS excavation boundary: As published, N3B/T2S, GIS projects folder; \\n3b-fs01\n3b-shares) (Q: GIS DATA) Project: 20-0024; project_data.gdb; from_BGI feature dataset; excavation_boundary_A8a; Data assumed to be surveyed and collected by Banda Group International (BGI); December 2023.

ESWP excavation boundary: As published, N3B/T2S, GIS projects folder; \\n3b-fs01\n3b-shares) (Q: GIS DATA) Project: 20-0024; project_data.gdb; from_BGI feature dataset; excavation_boundary_A8a; Data assumed to be surveyed and collected by Banda Group International (BGI); December 2023.

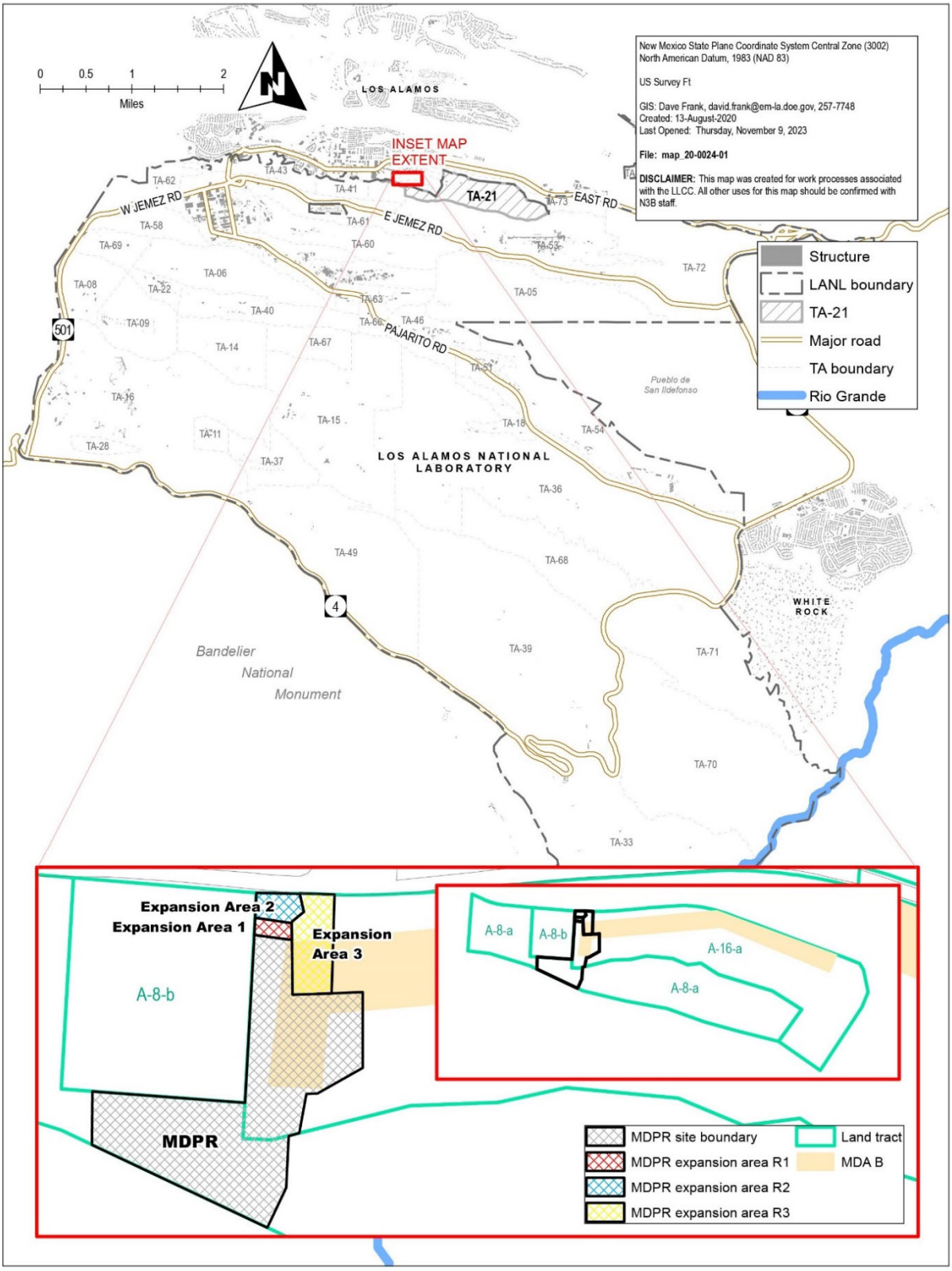


Figure 1.0-1 Locations of the original MDPR site and expansion areas with respect to LANL and surrounding landholdings

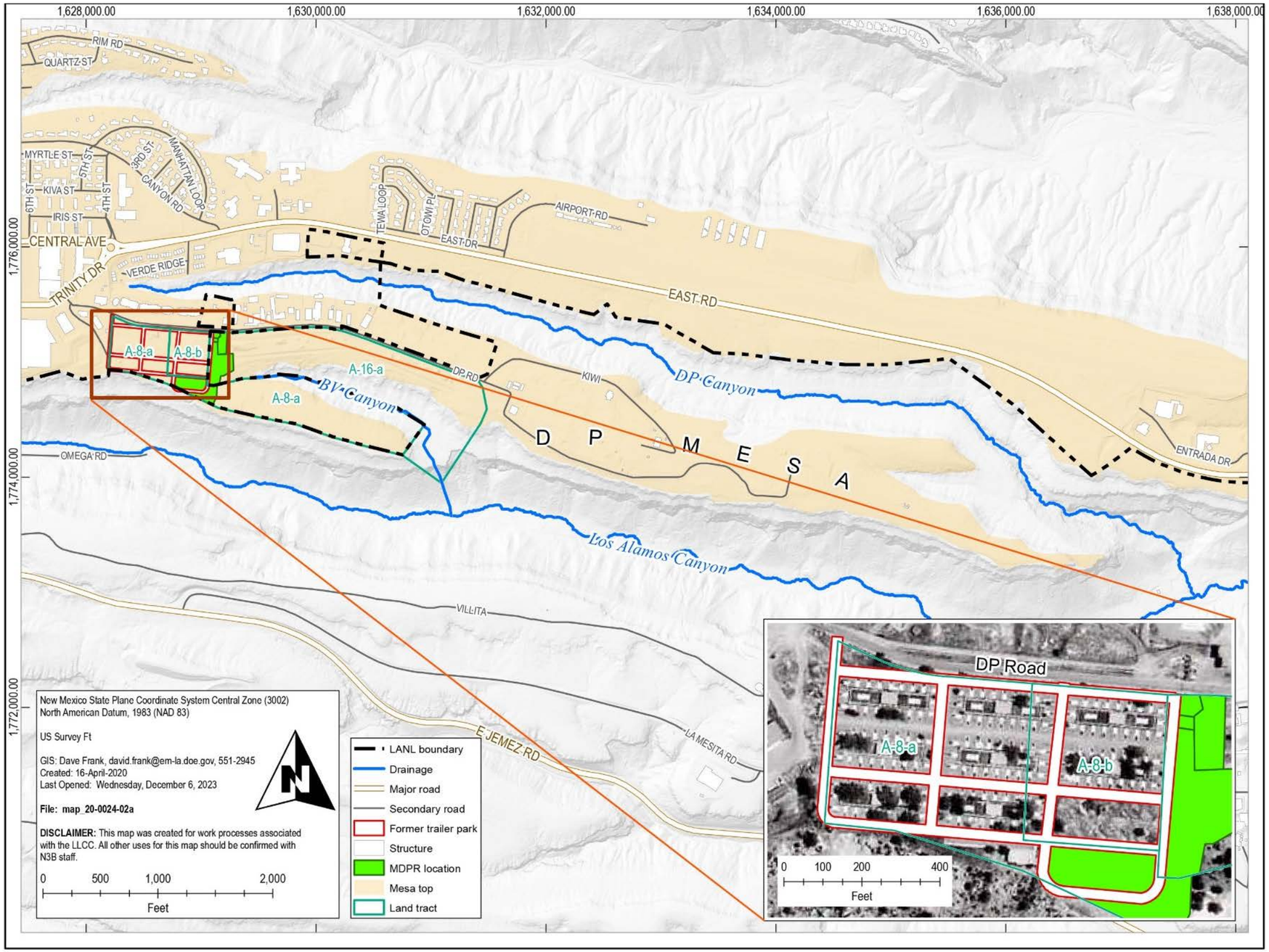


Figure 2.1-1 Location of MDPR site within DP Mesa

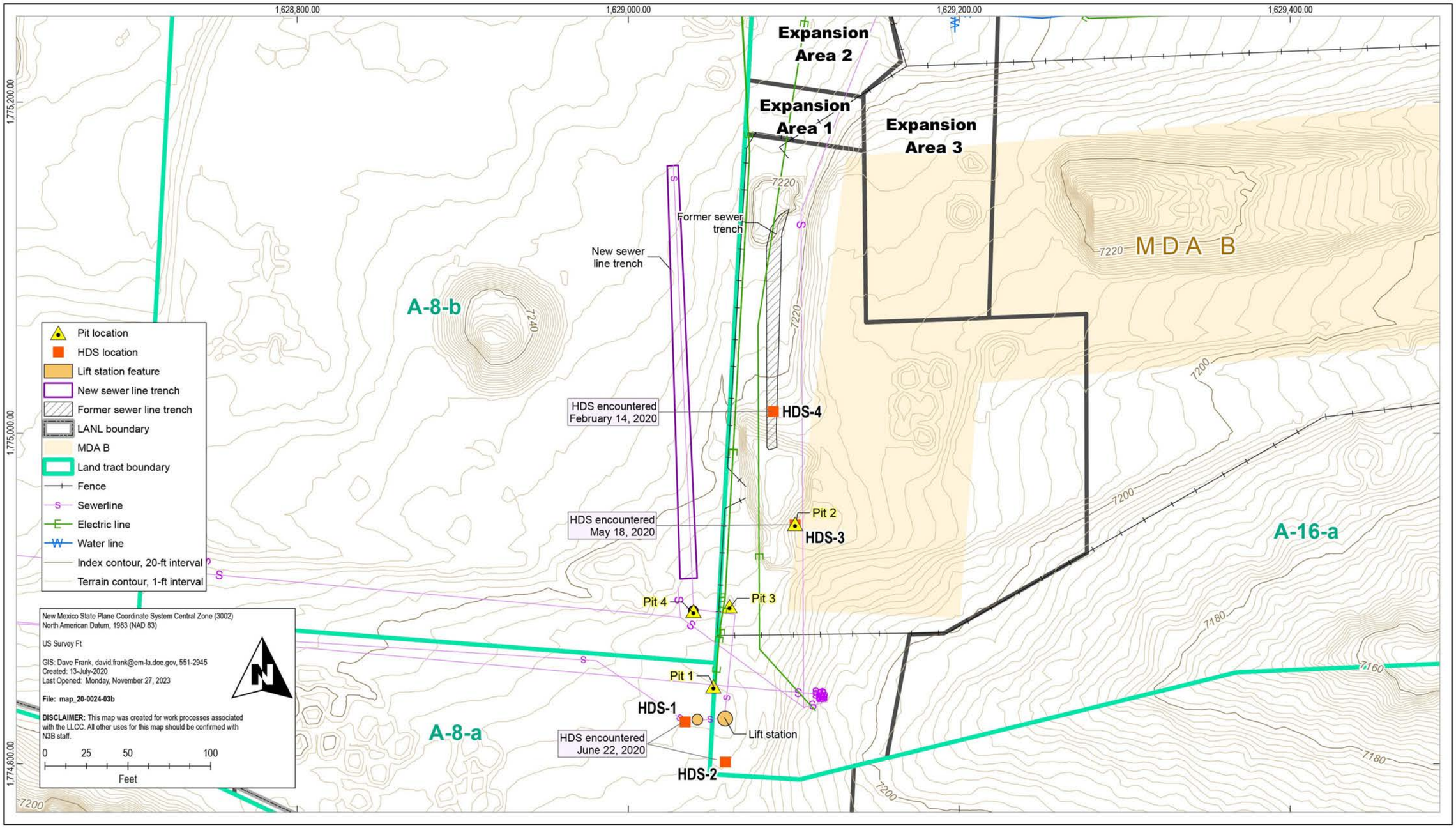


Figure 3.1-1 Site features before excavation began at the MDPR site, including locations of the initial HDSs, former sewer line trench, and pits 1–4

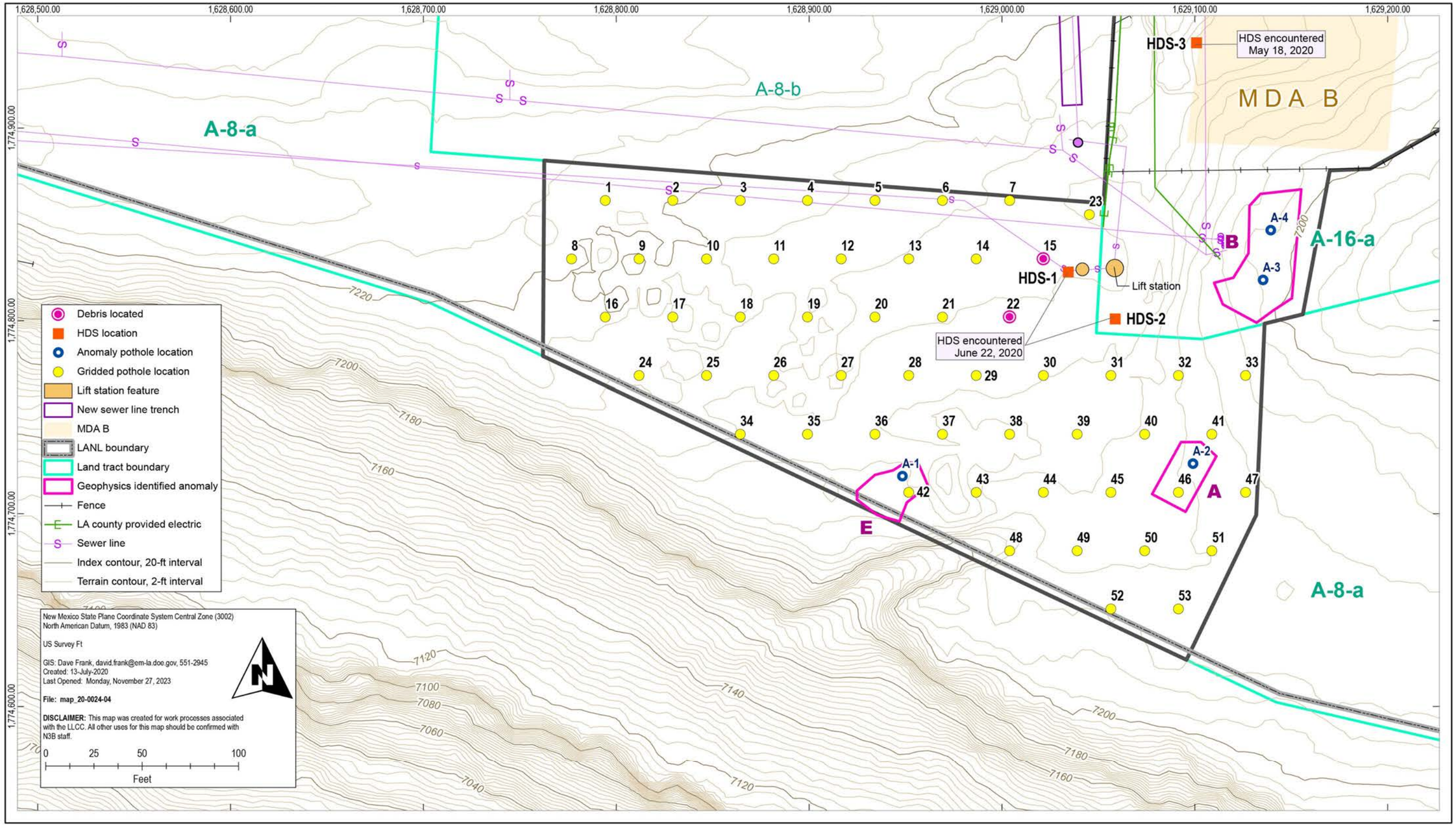


Figure 3.1-2 Gridded and geophysical anomaly pothole locations at tract A-8-a

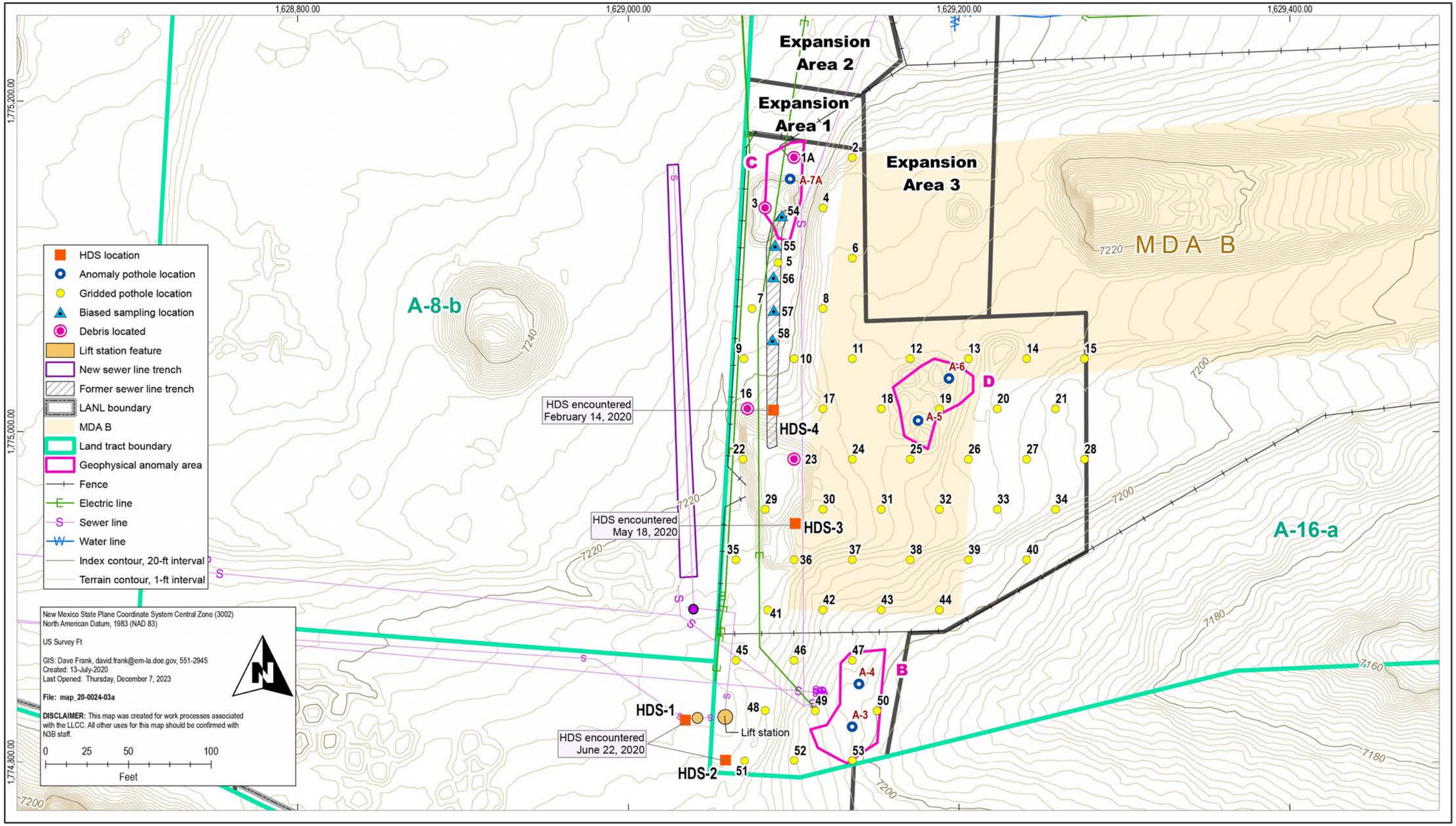


Figure 3.1-3 Gridded and geophysical anomaly pothole locations at tract A-16-a

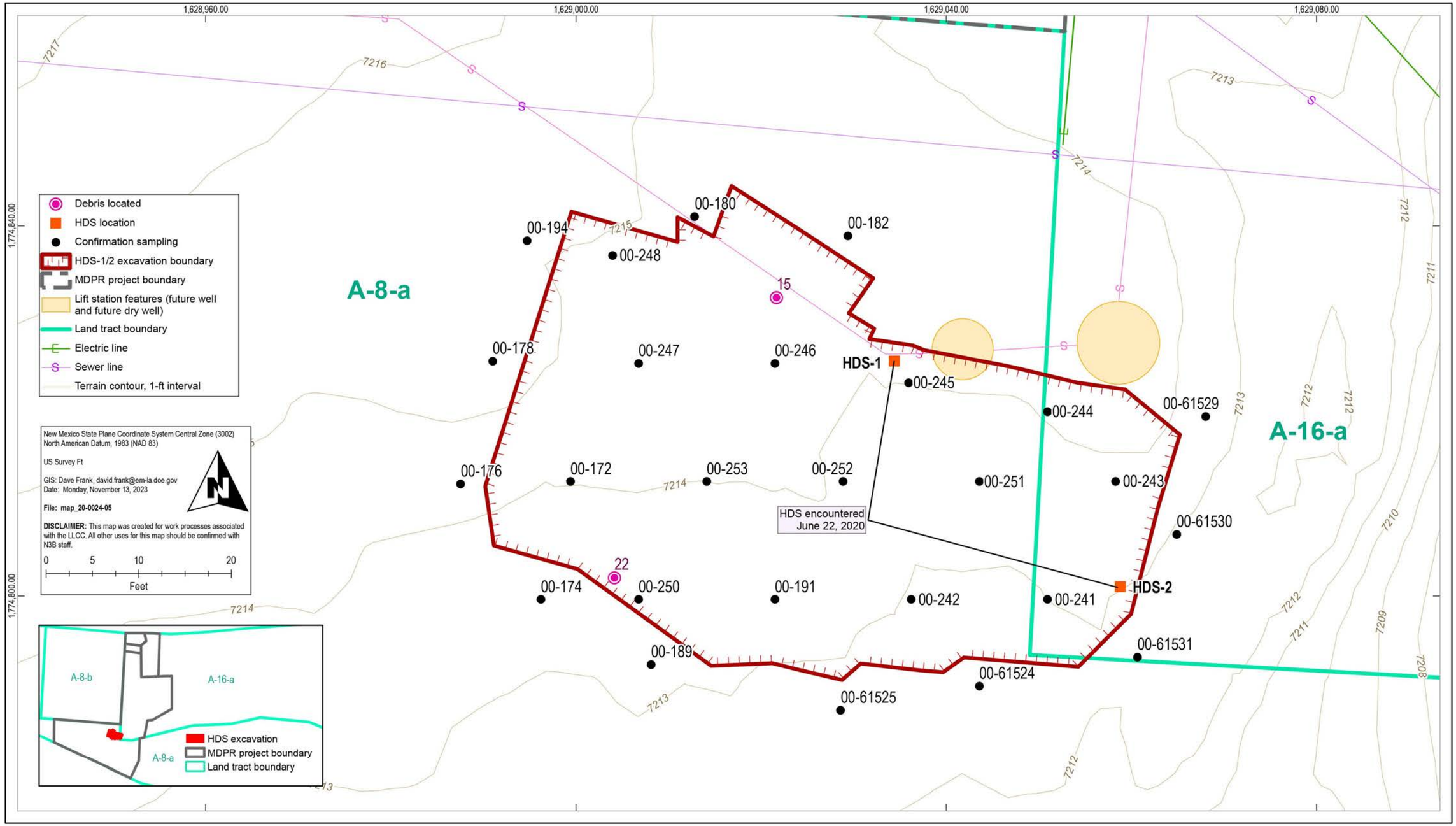


Figure 3.1-4 Excavation areas and confirmation sampling locations at tract A-8-a

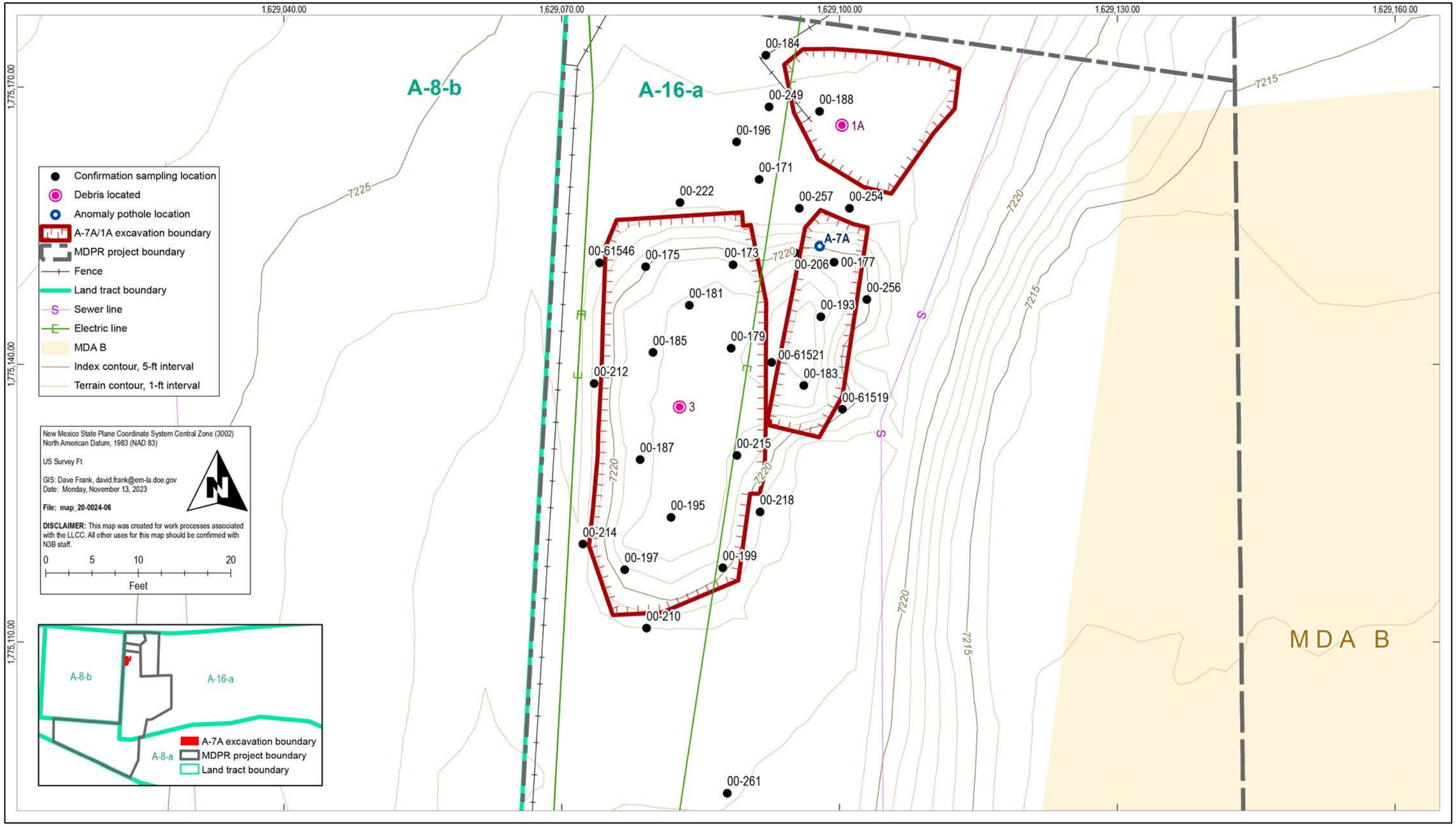


Figure 3.1-5 Excavation areas and confirmation sampling locations in the northern portion of tract A-16-a

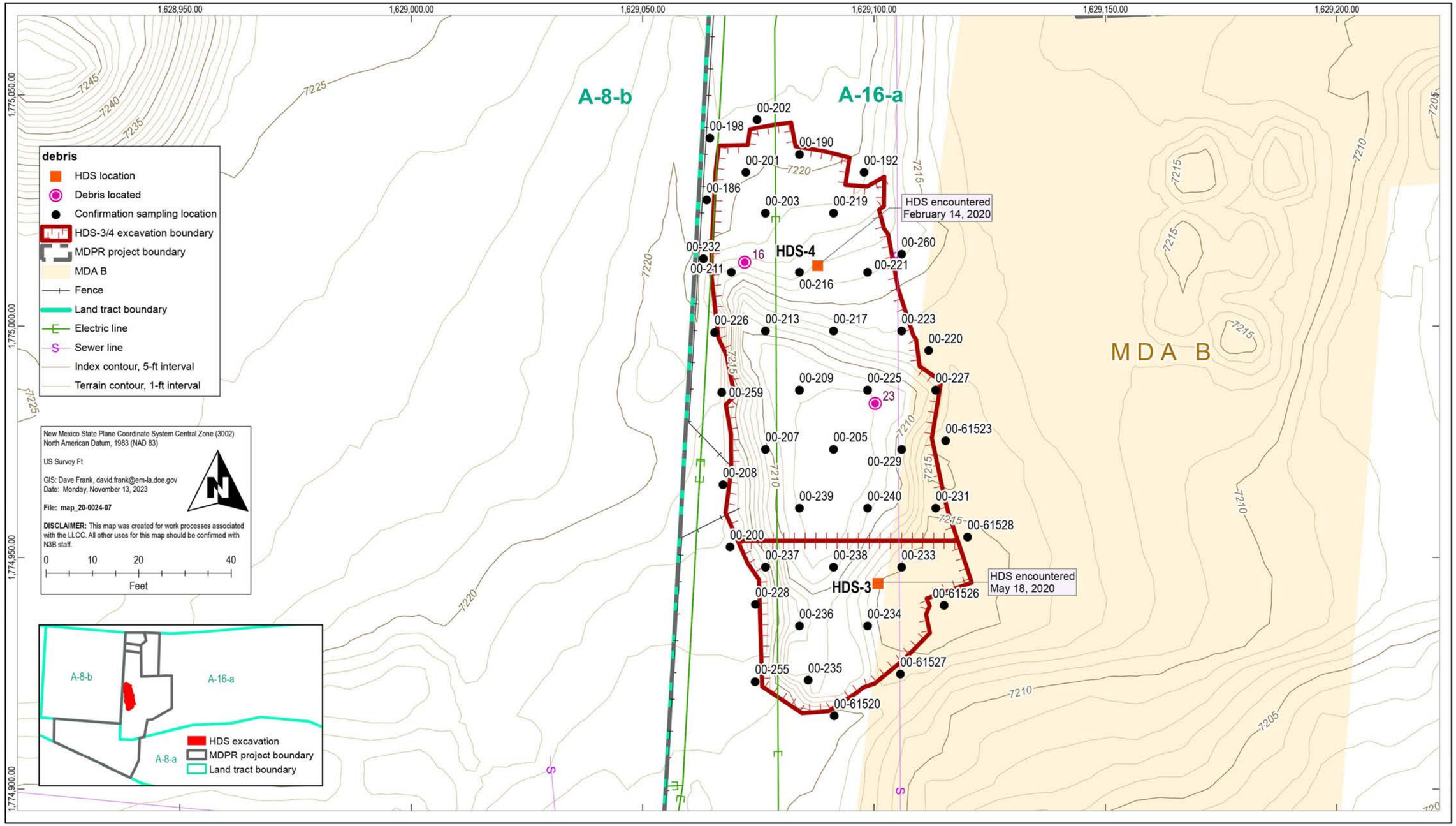


Figure 3.1-6 Excavation areas and confirmation sampling locations in the southern portion of tract A-16-a

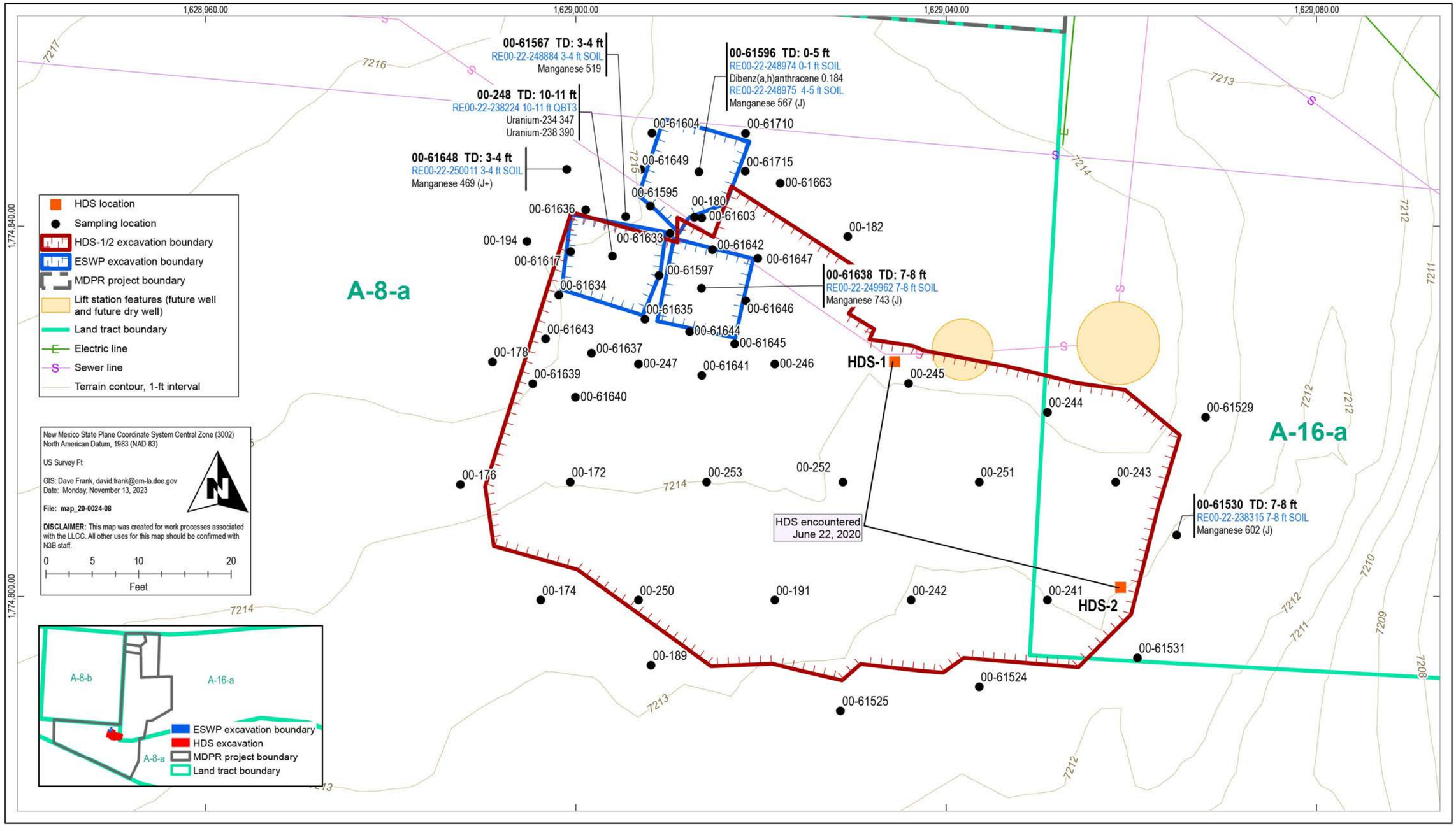


Figure 3.1-7 Excavations, confirmation and extent sampling locations, and constituents that exceeded screening levels and/or Eco-PRGs for tract A-8-a

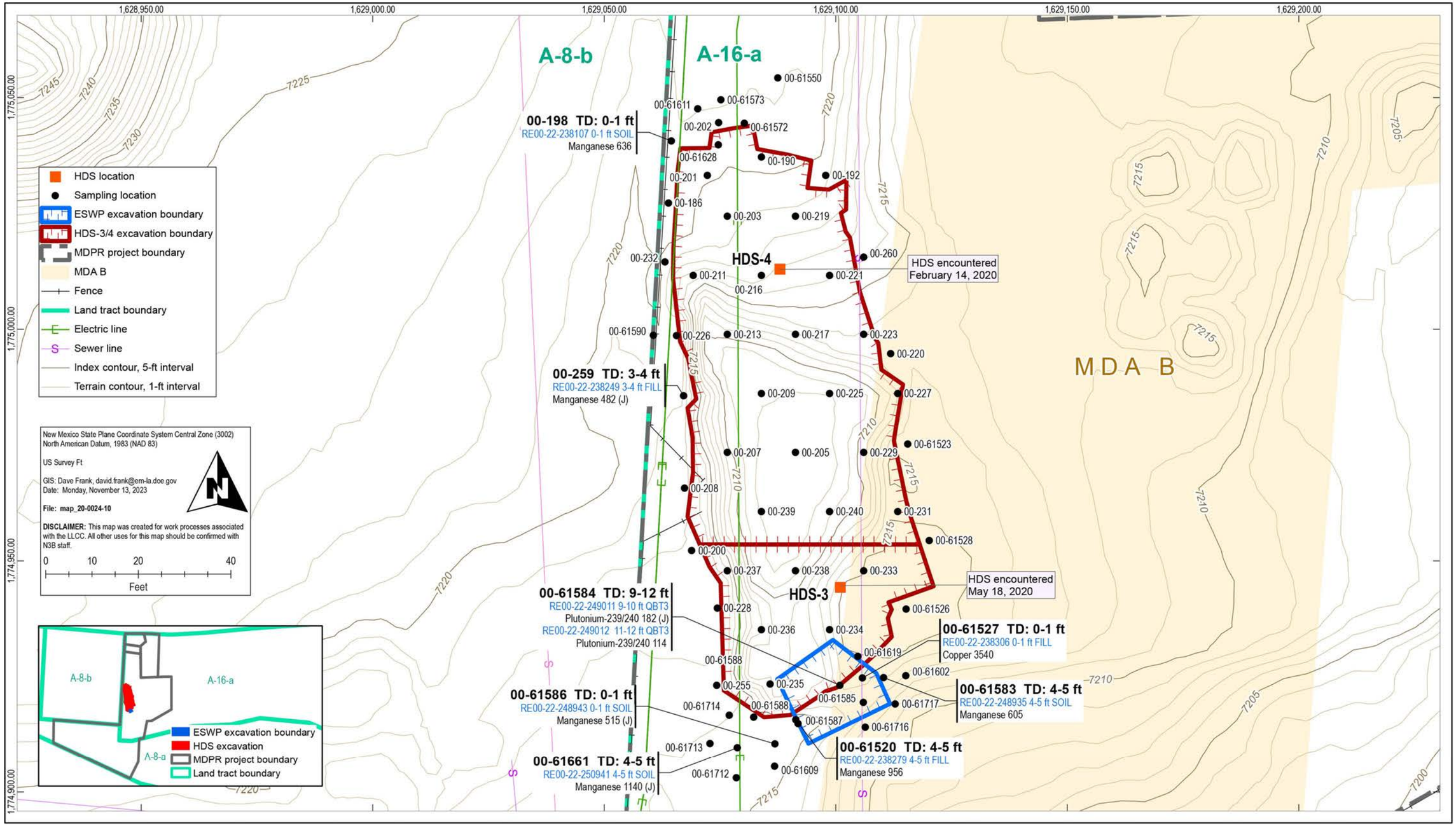


Figure 3.1-8 Excavations, confirmation and extent sampling locations, and constituents that exceeded screening levels and/or Eco-PRGs for the southern portion of tract A-16-a

Table 3.1-1
Samples Collected and Analyses Requested at MDPR Tract A-8-a

Sample ID	Location ID	Borehole ID	Depth (ft)	Media	TAL Metals	Perchlorate	Cyanide (Total)	Nitrate/Nitrite	VOCs	SVOCs	PCBs	Dioxins/Furans	Explosive Compounds
RE00-22-238044	00-172	41	12–13	QBT3	N3B-2022-727	N3B-2022-727	N3B-2022-727	N3B-2022-727	N3B-2022-727	N3B-2022-727	N3B-2022-727	N3B-2022-743	N3B-2022-727
RE00-22-238045	00-172	41	15–16	QBT3	N3B-2022-727	N3B-2022-727	N3B-2022-727	N3B-2022-727	N3B-2022-727	N3B-2022-727	N3B-2022-727	N3B-2022-743	N3B-2022-727
RE00-22-238048	00-174	34	0–1	ALLH	N3B-2022-458	N3B-2022-458	N3B-2022-458	N3B-2022-458	N3B-2022-458	N3B-2022-458	—*	—	—
RE00-22-238049	00-174	34	4–5	ALLH	N3B-2022-474	N3B-2022-474	N3B-2022-474	N3B-2022-474	N3B-2022-474	N3B-2022-474	—	—	—
RE00-22-238050	00-174	34	8–9	QBT3	N3B-2022-474	N3B-2022-474	N3B-2022-474	N3B-2022-474	N3B-2022-474	N3B-2022-474	—	—	—
RE00-22-238053	00-176	40	0–1	ALLH	N3B-2022-474	N3B-2022-474	N3B-2022-474	N3B-2022-474	N3B-2022-474	N3B-2022-474	—	—	—
RE00-22-238054	00-176	40	4–5	ALLH	N3B-2022-474	N3B-2022-474	N3B-2022-474	N3B-2022-474	N3B-2022-474	N3B-2022-474	—	—	—
RE00-22-238055	00-176	40	6.9–8	ALLH	N3B-2022-476	N3B-2022-476	N3B-2022-476	N3B-2022-476	N3B-2022-476	N3B-2022-476	—	—	—
RE00-22-238058	00-178	46	0–1.1	ALLH	N3B-2022-476	N3B-2022-476	N3B-2022-476	N3B-2022-476	N3B-2022-476	N3B-2022-476	—	—	—
RE00-22-238059	00-178	46	3–4	ALLH	N3B-2022-476	N3B-2022-476	N3B-2022-476	N3B-2022-476	N3B-2022-476	N3B-2022-476	—	—	—
RE00-22-238060	00-178	46	6–7	ALLH	N3B-2022-476	N3B-2022-476	N3B-2022-476	N3B-2022-476	N3B-2022-476	N3B-2022-476	—	—	—
RE00-22-238063	00-180	53	0–1	ALLH	N3B-2022-476	N3B-2022-476	N3B-2022-476	N3B-2022-476	N3B-2022-476	N3B-2022-476	—	—	—
RE00-22-238064	00-180	53	3–4.2	ALLH	N3B-2022-476	N3B-2022-476	N3B-2022-476	N3B-2022-476	N3B-2022-476	N3B-2022-476	—	—	—
RE00-22-238065	00-180	53	6.9–8	ALLH	N3B-2022-476	N3B-2022-476	N3B-2022-476	N3B-2022-476	N3B-2022-476	N3B-2022-476	—	—	—
RE00-22-238068	00-182	54	0–1	ALLH	N3B-2022-476	N3B-2022-476	N3B-2022-476	N3B-2022-476	N3B-2022-476	N3B-2022-476	—	—	—
RE00-22-238069	00-182	54	4–5.5	ALLH	N3B-2022-477	N3B-2022-477	N3B-2022-477	N3B-2022-477	N3B-2022-477	N3B-2022-477	—	—	—
RE00-22-238070	00-182	54	8.1–9	QBT3	N3B-2022-477	N3B-2022-477	N3B-2022-477	N3B-2022-477	N3B-2022-477	N3B-2022-477	—	—	—
RE00-22-238086	00-189	30	0–1	FILL	N3B-2022-496	N3B-2022-496	N3B-2022-496	N3B-2022-496	N3B-2022-496	N3B-2022-496	—	—	—
RE00-22-238087	00-189	30	4–5.4	ALLH	N3B-2022-496	N3B-2022-496	N3B-2022-496	N3B-2022-496	N3B-2022-496	N3B-2022-496	—	—	—
RE00-22-238088	00-189	30	10.3–11.3	QBT3	N3B-2022-514	N3B-2022-514	N3B-2022-514	N3B-2022-514	N3B-2022-514	N3B-2022-514	—	—	—
RE00-22-238091	00-191	36	11.4–12.4	QBT3	N3B-2022-514	N3B-2022-514	N3B-2022-514	N3B-2022-514	N3B-2022-514	N3B-2022-514	—	—	—
RE00-22-238092	00-191	36	14.5–15.5	QBT3	N3B-2022-828	N3B-2022-828	N3B-2022-828	N3B-2022-828	N3B-2022-828	N3B-2022-828	—	—	—
RE00-22-238098	00-194	52	0–1	ALLH	N3B-2022-476	N3B-2022-476	N3B-2022-476	N3B-2022-476	N3B-2022-476	N3B-2022-476	—	—	—
RE00-22-238099	00-194	52	5.5–6.5	QBT3	N3B-2022-476	N3B-2022-476	N3B-2022-476	N3B-2022-476	N3B-2022-476	N3B-2022-476	—	—	—
RE00-22-238210	00-241	38	17–18	QBT3	N3B-2022-724	N3B-2022-724	N3B-2022-724	N3B-2022-724	N3B-2022-724	N3B-2022-724	—	—	—
RE00-22-238211	00-241	38	20–21	QBT3	N3B-2022-724	N3B-2022-724	N3B-2022-724	N3B-2022-724	N3B-2022-724	N3B-2022-724	—	—	—
RE00-22-238212	00-242	37	13–14	QBT3	N3B-2022-724	N3B-2022-724	N3B-2022-724	N3B-2022-724	N3B-2022-724	N3B-2022-724	—	—	—
RE00-22-238213	00-242	37	16–17	QBT3	N3B-2022-724	N3B-2022-724	N3B-2022-724	N3B-2022-724	N3B-2022-724	N3B-2022-724	—	—	—
RE00-22-238214	00-243	45	14–15	QBT3	N3B-2022-724	N3B-2022-724	N3B-2022-724	N3B-2022-724	N3B-2022-724	N3B-2022-724	—	—	—
RE00-22-238215	00-243	45	17–18	QBT3	N3B-2022-724	N3B-2022-724	N3B-2022-724	N3B-2022-724	N3B-2022-724	N3B-2022-724	—	—	—

Table 3.1-1 (continued)

Sample ID	Location ID	Borehole ID	Depth (ft)	Media	TAL Metals	Perchlorate	Cyanide (Total)	Nitrate/Nitrite	VOCs	SVOCs	PCBs	Dioxins/Furans	Explosive Compounds
RE00-22-238216	00-244	50	13–14	QBT3	N3B-2022-753	N3B-2022-753	N3B-2022-753	N3B-2022-753	N3B-2022-753	N3B-2022-753	—	—	—
RE00-22-238217	00-244	50	16–17	QBT3	N3B-2022-753	N3B-2022-753	N3B-2022-753	N3B-2022-753	N3B-2022-753	N3B-2022-753	—	—	—
RE00-22-238218	00-245	49	11–12	QBT3	N3B-2022-753	N3B-2022-753	N3B-2022-753	N3B-2022-753	N3B-2022-753	N3B-2022-753	—	—	—
RE00-22-238219	00-245	49	14–15	QBT3	N3B-2022-753	N3B-2022-753	N3B-2022-753	N3B-2022-753	N3B-2022-753	N3B-2022-753	—	—	—
RE00-22-238220	00-246	48	11–12	QBT3	N3B-2022-753	N3B-2022-753	N3B-2022-753	N3B-2022-753	N3B-2022-753	N3B-2022-753	—	—	—
RE00-22-238221	00-246	48	14–15	QBT3	N3B-2022-753	N3B-2022-753	N3B-2022-753	N3B-2022-753	N3B-2022-753	N3B-2022-753	—	—	—
RE00-22-238222	00-247	47	15–16	QBT3	N3B-2022-776	N3B-2022-776	N3B-2022-776	N3B-2022-776	N3B-2022-776	N3B-2022-776	—	—	—
RE00-22-238223	00-247	47	18–19	QBT3	N3B-2022-776	N3B-2022-776	N3B-2022-776	N3B-2022-776	N3B-2022-776	N3B-2022-776	—	—	—
RE00-22-238225	00-248	55	13–14	QBT3	N3B-2022-832	N3B-2022-832	N3B-2022-832	N3B-2022-832	N3B-2022-832	N3B-2022-832	—	—	—
RE00-22-238228	00-250	35	12–13	QBT3	N3B-2022-724	N3B-2022-724	N3B-2022-724	N3B-2022-724	N3B-2022-724	N3B-2022-724	—	—	—
RE00-22-238229	00-250	35	15–16	QBT3	N3B-2022-724	N3B-2022-724	N3B-2022-724	N3B-2022-724	N3B-2022-724	N3B-2022-724	—	—	—
RE00-22-238230	00-251	44	15–16	QBT3	N3B-2022-724	N3B-2022-724	N3B-2022-724	N3B-2022-724	N3B-2022-724	N3B-2022-724	N3B-2022-724	N3B-2022-725	N3B-2022-724
RE00-22-238231	00-251	44	18–19	QBT3	N3B-2022-724	N3B-2022-724	N3B-2022-724	N3B-2022-724	N3B-2022-724	N3B-2022-724	N3B-2022-724	N3B-2022-725	N3B-2022-724
RE00-22-238233	00-252	43	14–15	QBT3	N3B-2022-727	N3B-2022-727	N3B-2022-727	N3B-2022-727	N3B-2022-727	N3B-2022-727	N3B-2022-727	N3B-2022-743	N3B-2022-727
RE00-22-238232	00-252	43	17–18	QBT3	N3B-2022-727	N3B-2022-727	N3B-2022-727	N3B-2022-727	N3B-2022-727	N3B-2022-727	N3B-2022-727	N3B-2022-743	N3B-2022-727
RE00-22-238234	00-253	42	14–15	QBT3	N3B-2022-727	N3B-2022-727	N3B-2022-727	N3B-2022-727	N3B-2022-727	N3B-2022-727	N3B-2022-727	N3B-2022-743	N3B-2022-727
RE00-22-238235	00-253	42	17–18	QBT3	N3B-2022-727	N3B-2022-727	N3B-2022-727	N3B-2022-727	N3B-2022-727	N3B-2022-727	N3B-2022-727	N3B-2022-743	N3B-2022-727
RE00-22-238303	00-61524	32	0–1	FILL	N3B-2022-514	N3B-2022-514	N3B-2022-514	N3B-2022-514	N3B-2022-514	N3B-2022-514	—	—	—
RE00-22-238298	00-61524	32	4–5	FILL	N3B-2022-514	N3B-2022-514	N3B-2022-514	N3B-2022-514	N3B-2022-514	N3B-2022-514	—	—	—
RE00-22-238293	00-61524	32	7.2–8.2	FILL	N3B-2022-514	N3B-2022-514	N3B-2022-514	N3B-2022-514	N3B-2022-514	N3B-2022-514	—	—	—
RE00-22-238288	00-61524	32	15–16	QBT3	N3B-2022-828	N3B-2022-828	N3B-2022-828	N3B-2022-828	N3B-2022-828	N3B-2022-828	—	—	—
RE00-22-238304	00-61525	31	0–1	FILL	N3B-2022-563	N3B-2022-563	N3B-2022-563	N3B-2022-563	N3B-2022-563	N3B-2022-563	—	—	—
RE00-22-238299	00-61525	31	4–5	FILL	N3B-2022-562	N3B-2022-562	N3B-2022-562	N3B-2022-562	N3B-2022-562	N3B-2022-562	—	—	—
RE00-22-238294	00-61525	31	7–8	ALLH	N3B-2022-562	N3B-2022-562	N3B-2022-562	N3B-2022-562	N3B-2022-562	N3B-2022-562	—	—	—
RE00-22-238289	00-61525	31	13.8–14.8	QBT3	N3B-2022-562	N3B-2022-562	N3B-2022-562	N3B-2022-562	N3B-2022-562	N3B-2022-562	—	—	—
RE00-22-238308	00-61529	51	0–1	FILL	N3B-2022-603	N3B-2022-603	N3B-2022-603	N3B-2022-603	N3B-2022-603	N3B-2022-603	—	—	—
RE00-22-238309	00-61529	51	3–4	FILL	N3B-2022-603	N3B-2022-603	N3B-2022-603	N3B-2022-603	N3B-2022-603	N3B-2022-603	—	—	—
RE00-22-238310	00-61529	51	6–7	ALLH	N3B-2022-828	N3B-2022-828	N3B-2022-828	N3B-2022-828	N3B-2022-828	N3B-2022-828	—	—	—
RE00-22-238311	00-61529	51	10–11	ALLH	N3B-2022-828	N3B-2022-828	N3B-2022-828	N3B-2022-828	N3B-2022-828	N3B-2022-828	—	—	—
RE00-22-238312	00-61529	51	14.5–15.5	QBT3	N3B-2022-828	N3B-2022-828	N3B-2022-828	N3B-2022-828	N3B-2022-828	N3B-2022-828	—	—	—
RE00-22-238313	00-61530	39	0–1	FILL	N3B-2022-563	N3B-2022-563	N3B-2022-563	N3B-2022-563	N3B-2022-563	N3B-2022-563	—	—	—
RE00-22-238314	00-61530	39	4–5	ALLH	N3B-2022-563	N3B-2022-563	N3B-2022-563	N3B-2022-563	N3B-2022-563	N3B-2022-563	—	—	—

Table 3.1-1 (continued)

Sample ID	Location ID	Borehole ID	Depth (ft)	Media	TAL Metals	Perchlorate	Cyanide (Total)	Nitrate/Nitrite	VOCs	SVOCs	PCBs	Dioxins/Furans	Explosive Compounds
RE00-22-238315	00-61530	39	7–8	ALLH	N3B-2022-563	N3B-2022-563	N3B-2022-563	N3B-2022-563	N3B-2022-563	N3B-2022-563	—	—	—
RE00-22-238316	00-61530	39	9–10	ALLH	N3B-2022-828	N3B-2022-828	N3B-2022-828	N3B-2022-828	N3B-2022-828	N3B-2022-828	—	—	—
RE00-22-238317	00-61530	39	17–18	QBT3	N3B-2022-828	N3B-2022-828	N3B-2022-828	N3B-2022-828	N3B-2022-828	N3B-2022-828	—	—	—
RE00-22-238318	00-61531	33	0–1	FILL	N3B-2022-531	N3B-2022-531	N3B-2022-531	N3B-2022-531	N3B-2022-531	N3B-2022-531	—	—	—
RE00-22-238322	00-61531	33	4–5	FILL	N3B-2022-531	N3B-2022-531	N3B-2022-531	N3B-2022-531	N3B-2022-531	N3B-2022-531	—	—	—
RE00-22-238321	00-61531	33	7–8	FILL	N3B-2022-531	N3B-2022-531	N3B-2022-531	N3B-2022-531	N3B-2022-531	N3B-2022-531	—	—	—
RE00-22-238319	00-61531	33	9–10	FILL	N3B-2022-531	N3B-2022-531	N3B-2022-531	N3B-2022-531	N3B-2022-531	N3B-2022-531	—	—	—
RE00-22-238276	00-61531	33	14–15	QBT3	N3B-2022-828	N3B-2022-828	N3B-2022-828	N3B-2022-828	N3B-2022-828	N3B-2022-828	—	—	—
RE00-22-248883	00-61567	55 5N	0–1	ALLH	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	—	—	—
RE00-22-248884	00-61567	55 5N	3–4	ALLH	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	—	—	—
RE00-22-248885	00-61567	55 5N	7–8	ALLH	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	—	—	—
RE00-22-248886	00-61567	55 5N	10–11	QBT3	N3B-2022-1330	N3B-2022-1330	N3B-2022-1330	N3B-2022-1330	N3B-2022-1330	N3B-2022-1330	—	—	—
RE00-22-248887	00-61567	55 5N	12–13	QBT3	N3B-2022-1330	N3B-2022-1330	N3B-2022-1330	N3B-2022-1330	N3B-2022-1330	N3B-2022-1330	—	—	—
RE00-22-248971	00-61595	53 5W	0–1	ALLH	N3B-2022-1248	N3B-2022-1248	N3B-2022-1248	N3B-2022-1248	N3B-2022-1248	N3B-2022-1248	—	—	—
RE00-22-248972	00-61595	53 5W	4–5	ALLH	N3B-2022-1248	N3B-2022-1248	N3B-2022-1248	N3B-2022-1248	N3B-2022-1248	N3B-2022-1248	—	—	—
RE00-22-248973	00-61595	53 5W	7–8	QBT3	N3B-2022-1248	N3B-2022-1248	N3B-2022-1248	N3B-2022-1248	N3B-2022-1248	N3B-2022-1248	—	—	—
RE00-22-249066	00-61595	53 5W	9–10	QBT3	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	—	N3B-2022-1596
RE00-22-249006	00-61595	53 5W	11–12	QBT3	N3B-2022-1618	N3B-2022-1618	N3B-2022-1618	N3B-2022-1618	N3B-2022-1618	N3B-2022-1618	—	—	—
RE00-22-248976	00-61596	53 5N	7–8	QBT3	N3B-2022-1248	N3B-2022-1248	N3B-2022-1248	N3B-2022-1248	N3B-2022-1248	N3B-2022-1248	—	—	—
RE00-22-248978	00-61597	55 5E	12–13	QBT3	N3B-2022-1273	N3B-2022-1273	N3B-2022-1273	N3B-2022-1273	N3B-2022-1273	N3B-2022-1273	—	—	—
RE00-22-248980	00-61598	55 5S	10–11	QBT3	N3B-2022-1273	N3B-2022-1273	N3B-2022-1273	N3B-2022-1273	N3B-2022-1273	N3B-2022-1273	—	—	—
RE00-22-248981	00-61598	55 5S	12–13	QBT3	N3B-2022-1273	N3B-2022-1273	N3B-2022-1273	N3B-2022-1273	N3B-2022-1273	N3B-2022-1273	—	—	—
RE00-22-248995	00-61603	53 10N	0–1	ALLH	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	—	—	—
RE00-22-248996	00-61603	53 10N	4–5	ALLH	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	—	—	—
RE00-22-248997	00-61603	53 10N	7–8	QBT3	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	—	—	—
RE00-22-249000	00-61604	53 10NW	0–1	ALLH	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	—	—	—
RE00-22-248999	00-61604	53 10NW	4–5	ALLH	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	—	—	—
RE00-22-248998	00-61604	53 10NW	7–8	QBT3	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	—	—	—
RE00-22-249034	00-61617	55 5W	12–13	QBT3	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	—	—	—
RE00-22-249935	00-61633	55 5NE	0–1	ALLH	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322	N3B-2022-1323	N3B-2022-1322
RE00-22-249936	00-61633	55 5NE	3–4	ALLH	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322	N3B-2022-1323	N3B-2022-1322
RE00-22-249937	00-61633	55 5NE	7–8	ALLH	N3B-2022-1344	N3B-2022-1344	N3B-2022-1344	N3B-2022-1344	N3B-2022-1344	N3B-2022-1344	N3B-2022-1344	N3B-2022-1345	N3B-2022-1344

Table 3.1-1 (continued)

Sample ID	Location ID	Borehole ID	Depth (ft)	Media	TAL Metals	Perchlorate	Cyanide (Total)	Nitrate/Nitrite	VOCs	SVOCs	PCBs	Dioxins/Furans	Explosive Compounds
RE00-22-249938	00-61633	55 5NE	10–11	QBT3	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1356	N3B-2022-1355
RE00-22-249939	00-61633	55 5NE	12–13	QBT3	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1356	N3B-2022-1355
RE00-22-249940	00-61634	55 5SW	0–1	ALLH	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322	—	—	—
RE00-22-249941	00-61634	55 5SW	3–4	ALLH	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322	—	—	—
RE00-22-249942	00-61634	55 5SW	7–8	QBT3	N3B-2022-1333	N3B-2022-1333	N3B-2022-1333	N3B-2022-1333	N3B-2022-1333	N3B-2022-1333	—	—	—
RE00-22-249944	00-61634	55 5SW	10–11	QBT3	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322	—	—	—
RE00-22-249943	00-61634	55 5SW	12–13	QBT3	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322	—	—	—
RE00-22-249946	00-61635	55 5SE	0–1	ALLH	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322	—	—	—
RE00-22-249947	00-61635	55 5SE	3–4	ALLH	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322	—	—	—
RE00-22-249948	00-61635	55 5SE	7–8	ALLH	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322	—	—	—
RE00-22-249949	00-61635	55 5SE	10–11	QBT3	N3B-2022-1344	N3B-2022-1344	N3B-2022-1344	N3B-2022-1344	N3B-2022-1344	N3B-2022-1344	—	—	—
RE00-22-249945	00-61635	55 5SE	12–13	QBT3	N3B-2022-1344	N3B-2022-1344	N3B-2022-1344	N3B-2022-1344	N3B-2022-1344	N3B-2022-1344	—	—	—
RE00-22-249950	00-61636	55 5NW	0–1	ALLH	N3B-2022-1344	N3B-2022-1344	N3B-2022-1344	N3B-2022-1344	N3B-2022-1344	N3B-2022-1344	—	—	—
RE00-22-249951	00-61636	55 5NW	3–4	ALLH	N3B-2022-1344	N3B-2022-1344	N3B-2022-1344	N3B-2022-1344	N3B-2022-1344	N3B-2022-1344	—	—	—
RE00-22-249952	00-61636	55 5NW	7–8	ALLH	N3B-2022-1375	N3B-2022-1375	N3B-2022-1375	N3B-2022-1375	N3B-2022-1375	N3B-2022-1375	—	—	—
RE00-22-249953	00-61636	55 5NW	10–11	QBT3	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	—	—	—
RE00-22-249954	00-61636	55 5NW	12–13	QBT3	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	—	—	—
RE00-22-249955	00-61637	55 10S	0–1	ALLH	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	—	—	—
RE00-22-249956	00-61637	55 10S	3–4	ALLH	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	—	—	—
RE00-22-249957	00-61637	55 10S	7–8	ALLH	N3B-2022-1375	N3B-2022-1375	N3B-2022-1375	N3B-2022-1375	N3B-2022-1375	N3B-2022-1375	—	—	—
RE00-22-249958	00-61637	55 10S	10–11	QBT3	N3B-2022-1376	N3B-2022-1376	N3B-2022-1376	N3B-2022-1376	N3B-2022-1376	N3B-2022-1376	—	—	—
RE00-22-249959	00-61637	55 10S	12–13	QBT3	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	—	—	—
RE00-22-249963	00-61638	55 10E	10–11	QBT3	N3B-2022-1369	N3B-2022-1369	N3B-2022-1369	N3B-2022-1369	N3B-2022-1369	N3B-2022-1369	—	—	—
RE00-22-249964	00-61638	55 10E	12–13	QBT3	N3B-2022-1390	N3B-2022-1390	N3B-2022-1390	N3B-2022-1390	N3B-2022-1390	N3B-2022-1390	—	—	—
RE00-22-249965	00-61639	55 15SW	0–1	ALLH	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	—	—	—
RE00-22-249966	00-61639	55 15SW	3–4	ALLH	N3B-2022-1376	N3B-2022-1376	N3B-2022-1376	N3B-2022-1376	N3B-2022-1376	N3B-2022-1376	—	—	—
RE00-22-249967	00-61639	55 15SW	7–8	ALLH	N3B-2022-1369	N3B-2022-1369	N3B-2022-1369	N3B-2022-1369	N3B-2022-1369	N3B-2022-1369	—	—	—
RE00-22-249968	00-61639	55 15SW	10–11	QBT3	N3B-2022-1390	N3B-2022-1390	N3B-2022-1390	N3B-2022-1390	N3B-2022-1390	N3B-2022-1390	—	—	—
RE00-22-249969	00-61639	55 15SW	12–13	QBT3	N3B-2022-1369	N3B-2022-1369	N3B-2022-1369	N3B-2022-1369	N3B-2022-1369	N3B-2022-1369	—	—	—
RE00-22-249970	00-61640	55 15S	0–1	ALLH	N3B-2022-1369	N3B-2022-1369	N3B-2022-1369	N3B-2022-1369	N3B-2022-1369	N3B-2022-1369	—	—	—
RE00-22-249971	00-61640	55 15S	3–4	ALLH	N3B-2022-1369	N3B-2022-1369	N3B-2022-1369	N3B-2022-1369	N3B-2022-1369	N3B-2022-1369	—	—	—
RE00-22-249972	00-61640	55 15S	7–8	ALLH	N3B-2022-1369	N3B-2022-1369	N3B-2022-1369	N3B-2022-1369	N3B-2022-1369	N3B-2022-1369	—	—	—

Table 3.1-1 (continued)

Sample ID	Location ID	Borehole ID	Depth (ft)	Media	TAL Metals	Perchlorate	Cyanide (Total)	Nitrate/Nitrite	VOCs	SVOCs	PCBs	Dioxins/Furans	Explosive Compounds
RE00-22-249973	00-61640	55 15S	10–11	QBT3	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	—	—	—
RE00-22-249974	00-61640	55 15S	12–13	QBT3	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	—	—	—
RE00-22-249975	00-61641	55 15SSE	0–1	ALLH	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	—	—	—
RE00-22-249976	00-61641	55 15SSE	3–4	ALLH	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	—	—	—
RE00-22-249977	00-61641	55 15SSE	7–8	ALLH	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	—	—	—
RE00-22-249978	00-61641	55 15SSE	10–11	QBT3	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	—	—	—
RE00-22-249979	00-61641	55 15SSE	12–13	QBT3	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	—	—	—
RE00-22-249980	00-61642	55 10NE	0–1	ALLH	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1356	N3B-2022-1355
RE00-22-249981	00-61642	55 10NE	3–4	ALLH	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1356	N3B-2022-1355
RE00-22-249982	00-61642	55 10NE	7–8	ALLH	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1356	N3B-2022-1355
RE00-22-249983	00-61642	55 10NE	10–11	QBT3	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1366	N3B-2022-1363
RE00-22-249984	00-61642	55 10NE	12–13	QBT3	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1366	N3B-2022-1363
RE00-22-249985	00-61643	55 10SW	0–1	ALLH	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1356	N3B-2022-1355
RE00-22-249986	00-61643	55 10SW	3–4	ALLH	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1356	N3B-2022-1355
RE00-22-249987	00-61643	55 10SW	7–8	ALLH	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1356	N3B-2022-1355
RE00-22-249988	00-61643	55 10SW	10–11	QBT3	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1366	N3B-2022-1363
RE00-22-249989	00-61643	55 10SW	12–13	QBT3	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1366	N3B-2022-1363
RE00-22-249990	00-61644	55 10SE	0–1	ALLH	N3B-2022-1369	N3B-2022-1369	N3B-2022-1369	N3B-2022-1369	N3B-2022-1369	N3B-2022-1369	N3B-2022-1369	N3B-2022-1370	N3B-2022-1369
RE00-22-249991	00-61644	55 10SE	3–4	ALLH	N3B-2022-1375	N3B-2022-1375	N3B-2022-1375	N3B-2022-1375	N3B-2022-1375	N3B-2022-1375	N3B-2022-1375	N3B-2022-1378	N3B-2022-1375
RE00-22-249992	00-61644	55 10SE	7–8	ALLH	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1366	N3B-2022-1363
RE00-22-249993	00-61644	55 10SE	10–11	QBT3	N3B-2022-1376	N3B-2022-1376	N3B-2022-1376	N3B-2022-1376	N3B-2022-1376	N3B-2022-1376	N3B-2022-1376	N3B-2022-1378	N3B-2022-1376
RE00-22-249994	00-61644	55 10SE	12–13	QBT3	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1366	N3B-2022-1363
RE00-22-249995	00-61645	55 15SE	0–1	ALLH	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	—	—	—
RE00-22-249996	00-61645	55 15SE	3–4	ALLH	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	—	—	—
RE00-22-249997	00-61645	55 15SE	7–8	ALLH	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	—	—	—
RE00-22-249998	00-61645	55 15SE	10–11	QBT3	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	—	—	—
RE00-22-249999	00-61645	55 15SE	12–13	QBT3	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	—	—	—
RE00-22-250000	00-61646	55 15E	0–1	ALLH	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	—	—	—
RE00-22-250001	00-61646	55 15E	3–4	ALLH	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	—	—	—
RE00-22-250002	00-61646	55 15E	7–8	ALLH	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	—	—	—
RE00-22-250003	00-61646	55 15E	10–11	QBT3	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	—	—	—
RE00-22-250004	00-61646	55 15E	12–13	QBT3	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	—	—	—

Table 3.1-1 (continued)

Sample ID	Location ID	Borehole ID	Depth (ft)	Media	TAL Metals	Perchlorate	Cyanide (Total)	Nitrate/Nitrite	VOCs	SVOCs	PCBs	Dioxins/Furans	Explosive Compounds
RE00-22-250005	00-61647	55 15NE	0–1	ALLH	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	—	—	—
RE00-22-250006	00-61647	55 15NE	3–4	ALLH	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	—	—	—
RE00-22-250007	00-61647	55 15NE	7–8	ALLH	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	—	—	—
RE00-22-250008	00-61647	55 15NE	10–11	QBT3	N3B-2022-1390	N3B-2022-1390	N3B-2022-1390	N3B-2022-1390	N3B-2022-1390	N3B-2022-1390	—	—	—
RE00-22-250009	00-61647	55 15NE	12–13	QBT3	N3B-2022-1390	N3B-2022-1390	N3B-2022-1390	N3B-2022-1390	N3B-2022-1390	N3B-2022-1390	—	—	—
RE00-22-252230	00-61647	55 15NE	13–14	QBT3	N3B-2022-1634	N3B-2022-1634	N3B-2022-1634	N3B-2022-1634	N3B-2022-1634	N3B-2022-1634	—	—	—
RE00-22-252231	00-61647	55 15NE	14–15	QBT3	N3B-2022-1677	N3B-2022-1677	N3B-2022-1677	N3B-2022-1677	N3B-2022-1677	N3B-2022-1677	—	—	—
RE00-22-250010	00-61648	55 10NW	0–1	ALLH	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	—	—	—
RE00-22-250011	00-61648	55 10NW	3–4	ALLH	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	—	—	—
RE00-22-250012	00-61648	55 10NW	7–8	QBT3	N3B-2022-1387	N3B-2022-1387	N3B-2022-1387	N3B-2022-1387	N3B-2022-1387	N3B-2022-1387	—	—	—
RE00-22-250013	00-61648	55 10NW	10–11	QBT3	N3B-2022-1387	N3B-2022-1387	N3B-2022-1387	N3B-2022-1387	N3B-2022-1387	N3B-2022-1387	—	—	—
RE00-22-250014	00-61648	55 10NW	12–13	QBT3	N3B-2022-1387	N3B-2022-1387	N3B-2022-1387	N3B-2022-1387	N3B-2022-1387	N3B-2022-1387	—	—	—
RE00-22-250015	00-61649	55 10N	0–1	ALLH	N3B-2022-1387	N3B-2022-1387	N3B-2022-1387	N3B-2022-1387	N3B-2022-1387	N3B-2022-1387	—	—	—
RE00-22-250016	00-61649	55 10N	3–4	ALLH	N3B-2022-1387	N3B-2022-1387	N3B-2022-1387	N3B-2022-1387	N3B-2022-1387	N3B-2022-1387	—	—	—
RE00-22-250017	00-61649	55 10N	7–8	QBT3	N3B-2022-1387	N3B-2022-1387	N3B-2022-1387	N3B-2022-1387	N3B-2022-1387	N3B-2022-1387	—	—	—
RE00-22-250018	00-61649	55 10N	10–11	QBT3	N3B-2022-1387	N3B-2022-1387	N3B-2022-1387	N3B-2022-1387	N3B-2022-1387	N3B-2022-1387	—	—	—
RE00-22-250019	00-61649	55 10N	12–13	QBT3	N3B-2022-1386	N3B-2022-1386	N3B-2022-1386	N3B-2022-1386	N3B-2022-1386	N3B-2022-1386	—	—	—
RE00-22-250946	00-61663	53 10ENE	0–1	ALLH	N3B-2022-1598	N3B-2022-1598	N3B-2022-1598	N3B-2022-1598	N3B-2022-1598	N3B-2022-1598	—	—	—
RE00-22-250947	00-61663	53 10ENE	4–5	ALLH	N3B-2022-1598	N3B-2022-1598	N3B-2022-1598	N3B-2022-1598	N3B-2022-1598	N3B-2022-1598	—	—	—
RE00-22-250948	00-61663	53 10ENE	7–8	QBT3	N3B-2022-1598	N3B-2022-1598	N3B-2022-1598	N3B-2022-1598	N3B-2022-1598	N3B-2022-1598	—	—	—
RE00-22-253183	00-61710	53 10NNE	0–1	ALLH	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243	—	—	—
RE00-22-253215	00-61710	53 10NNE	4–5	ALLH	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243	—	—	—
RE00-22-253216	00-61710	53 10NNE	7–8	ALLH	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243	—	—	—
RE00-22-253199	00-61715	53 10NE	0–1	ALLH	N3B-2022-2282	N3B-2022-2282	N3B-2022-2282	N3B-2022-2282	N3B-2022-2282	N3B-2022-2282	—	—	—
RE00-22-253200	00-61715	53 10NE	4–5	ALLH	N3B-2022-2282	N3B-2022-2282	N3B-2022-2282	N3B-2022-2282	N3B-2022-2282	N3B-2022-2282	—	—	—
RE00-22-253201	00-61715	53 10NE	7–8	QBT3	N3B-2022-2282	N3B-2022-2282	N3B-2022-2282	N3B-2022-2282	N3B-2022-2282	N3B-2022-2282	—	—	—
RE00-22-253212	00-61718	53 10ENEV	9–10	QBT3	N3B-2022-2282	N3B-2022-2282	N3B-2022-2282	N3B-2022-2282	N3B-2022-2282	N3B-2022-2282	—	—	—
RE00-22-253213	00-61718	53 10ENEV	11–12	QBT3	N3B-2022-2282	N3B-2022-2282	N3B-2022-2282	N3B-2022-2282	N3B-2022-2282	N3B-2022-2282	—	—	—

Table 3.1-1 (continued)

Sample ID	Location ID	Borehole ID	Depth (ft)	Media	Gamma-Emitting Radionuclides	Americium-241	Isotopic Plutonium	Isotopic Thorium	Isotopic Uranium	Strontium-90	Tritium	Technetium-99
RE00-22-238044	00-172	41	12–13	QBT3	N3B-2022-727	N3B-2022-727	N3B-2022-727	N3B-2022-1494	N3B-2022-727	N3B-2022-727	N3B-2022-727	N3B-2022-1494
RE00-22-238045	00-172	41	15–16	QBT3	N3B-2022-727	N3B-2022-727	N3B-2022-727	N3B-2022-1494	N3B-2022-727	N3B-2022-727	N3B-2022-727	N3B-2022-1494
RE00-22-238048	00-174	34	0–1	ALLH	N3B-2022-458	N3B-2022-458	N3B-2022-458	N3B-2022-1483	N3B-2022-458	N3B-2022-458	N3B-2022-458	N3B-2022-1483
RE00-22-238049	00-174	34	4–5	ALLH	N3B-2022-474	N3B-2022-474	N3B-2022-474	N3B-2022-1483	N3B-2022-474	N3B-2022-474	N3B-2022-474	N3B-2022-1483
RE00-22-238050	00-174	34	8–9	QBT3	N3B-2022-474	N3B-2022-474	N3B-2022-474	N3B-2022-1483	N3B-2022-474	N3B-2022-474	N3B-2022-474	N3B-2022-1483
RE00-22-238053	00-176	40	0–1	ALLH	N3B-2022-474	N3B-2022-474	N3B-2022-474	N3B-2022-1483	N3B-2022-474	N3B-2022-474	N3B-2022-474	N3B-2022-1483
RE00-22-238054	00-176	40	4–5	ALLH	N3B-2022-474	N3B-2022-474	N3B-2022-474	N3B-2022-1483	N3B-2022-474	N3B-2022-474	N3B-2022-474	N3B-2022-1483
RE00-22-238055	00-176	40	6.9–8	ALLH	N3B-2022-476	N3B-2022-476	N3B-2022-476	N3B-2022-1483	N3B-2022-476	N3B-2022-476	N3B-2022-476	N3B-2022-1483
RE00-22-238058	00-178	46	0–1.1	ALLH	N3B-2022-476	N3B-2022-476	N3B-2022-476	N3B-2022-1483	N3B-2022-476	N3B-2022-476	N3B-2022-476	N3B-2022-1483
RE00-22-238059	00-178	46	3–4	ALLH	N3B-2022-476	N3B-2022-476	N3B-2022-476	N3B-2022-1483	N3B-2022-476	N3B-2022-476	N3B-2022-476	N3B-2022-1483
RE00-22-238060	00-178	46	6–7	ALLH	N3B-2022-476	N3B-2022-476	N3B-2022-476	N3B-2022-1483	N3B-2022-476	N3B-2022-476	N3B-2022-476	N3B-2022-1483
RE00-22-238063	00-180	53	0–1	ALLH	N3B-2022-476	N3B-2022-476	N3B-2022-476	N3B-2022-1483	N3B-2022-476	N3B-2022-476	N3B-2022-476	N3B-2022-1483
RE00-22-238064	00-180	53	3–4.2	ALLH	N3B-2022-476	N3B-2022-476	N3B-2022-476	N3B-2022-1483	N3B-2022-476	N3B-2022-476	N3B-2022-476	N3B-2022-1483
RE00-22-238065	00-180	53	6.9–8	ALLH	N3B-2022-476	N3B-2022-476	N3B-2022-476	N3B-2022-1483	N3B-2022-476	N3B-2022-476	N3B-2022-476	N3B-2022-1483
RE00-22-238068	00-182	54	0–1	ALLH	N3B-2022-476	N3B-2022-476	N3B-2022-476	N3B-2022-1483	N3B-2022-476	N3B-2022-476	N3B-2022-476	N3B-2022-1483
RE00-22-238069	00-182	54	4–5.5	ALLH	N3B-2022-477	N3B-2022-477	N3B-2022-477	N3B-2022-1483	N3B-2022-477	N3B-2022-477	N3B-2022-477	N3B-2022-1483
RE00-22-238070	00-182	54	8.1–9	QBT3	N3B-2022-477	N3B-2022-477	N3B-2022-477	N3B-2022-1483	N3B-2022-477	N3B-2022-477	N3B-2022-477	N3B-2022-1483
RE00-22-238086	00-189	30	0–1	FILL	N3B-2022-496	N3B-2022-496	N3B-2022-496	N3B-2022-1484	N3B-2022-496	N3B-2022-496	N3B-2022-496	N3B-2022-1484
RE00-22-238087	00-189	30	4–5.4	ALLH	N3B-2022-496	N3B-2022-496	N3B-2022-496	N3B-2022-1484	N3B-2022-496	N3B-2022-496	N3B-2022-496	N3B-2022-1484
RE00-22-238088	00-189	30	10.3–11.3	QBT3	N3B-2022-514	N3B-2022-514	N3B-2022-514	N3B-2022-1484	N3B-2022-514	N3B-2022-514	N3B-2022-514	N3B-2022-1484
RE00-22-238091	00-191	36	11.4–12.4	QBT3	N3B-2022-514	N3B-2022-514	N3B-2022-514	N3B-2022-1484	N3B-2022-514	N3B-2022-514	N3B-2022-514	N3B-2022-1484
RE00-22-238092	00-191	36	14.5–15.5	QBT3	N3B-2022-828	N3B-2022-828	N3B-2022-828	N3B-2022-1496	N3B-2022-828	N3B-2022-828	N3B-2022-828	N3B-2022-1496
RE00-22-238098	00-194	52	0–1	ALLH	N3B-2022-476	N3B-2022-476	N3B-2022-476	N3B-2022-1483	N3B-2022-476	N3B-2022-476	N3B-2022-476	N3B-2022-1483
RE00-22-238099	00-194	52	5.5–6.5	QBT3	N3B-2022-476	N3B-2022-476	N3B-2022-476	N3B-2022-1483	N3B-2022-476	N3B-2022-476	N3B-2022-476	N3B-2022-1483
RE00-22-238210	00-241	38	17–18	QBT3	N3B-2022-724	N3B-2022-724	N3B-2022-724	N3B-2022-1494	N3B-2022-724	N3B-2022-724	N3B-2022-724	N3B-2022-1494
RE00-22-238211	00-241	38	20–21	QBT3	N3B-2022-724	N3B-2022-724	N3B-2022-724	N3B-2022-1494	N3B-2022-724	N3B-2022-724	N3B-2022-724	N3B-2022-1494
RE00-22-238212	00-242	37	13–14	QBT3	N3B-2022-724	N3B-2022-724	N3B-2022-724	N3B-2022-1494	N3B-2022-724	N3B-2022-724	N3B-2022-724	N3B-2022-1494
RE00-22-238213	00-242	37	16–17	QBT3	N3B-2022-724	N3B-2022-724	N3B-2022-724	N3B-2022-1494	N3B-2022-724	N3B-2022-724	N3B-2022-724	N3B-2022-1494
RE00-22-238214	00-243	45	14–15	QBT3	N3B-2022-724	N3B-2022-724	N3B-2022-724	N3B-2022-1494	N3B-2022-724	N3B-2022-724	N3B-2022-724	N3B-2022-1494
RE00-22-238215	00-243	45	17–18	QBT3	N3B-2022-724	N3B-2022-724	N3B-2022-724	N3B-2022-1494	N3B-2022-724	N3B-2022-724	N3B-2022-724	N3B-2022-1494

Table 3.1-1 (continued)

Sample ID	Location ID	Borehole ID	Depth (ft)	Media	Gamma-Emitting Radionuclides	Americium-241	Isotopic Plutonium	Isotopic Thorium	Isotopic Uranium	Strontium-90	Tritium	Technetium-99
RE00-22-238216	00-244	50	13–14	QBT3	N3B-2022-753	N3B-2022-753	N3B-2022-753	N3B-2022-1495	N3B-2022-753	N3B-2022-753	N3B-2022-753	N3B-2022-1495
RE00-22-238217	00-244	50	16–17	QBT3	N3B-2022-753	N3B-2022-753	N3B-2022-753	N3B-2022-1495	N3B-2022-753	N3B-2022-753	N3B-2022-753	N3B-2022-1495
RE00-22-238218	00-245	49	11–12	QBT3	N3B-2022-753	N3B-2022-753	N3B-2022-753	N3B-2022-1495	N3B-2022-753	N3B-2022-753	N3B-2022-753	N3B-2022-1495
RE00-22-238219	00-245	49	14–15	QBT3	N3B-2022-753	N3B-2022-753	N3B-2022-753	N3B-2022-1495	N3B-2022-753	N3B-2022-753	N3B-2022-753	N3B-2022-1495
RE00-22-238220	00-246	48	11–12	QBT3	N3B-2022-753	N3B-2022-753	N3B-2022-753	N3B-2022-1495	N3B-2022-753	N3B-2022-753	N3B-2022-753	N3B-2022-1495
RE00-22-238221	00-246	48	14–15	QBT3	N3B-2022-753	N3B-2022-753	N3B-2022-753	N3B-2022-1495	N3B-2022-753	N3B-2022-753	N3B-2022-753	N3B-2022-1495
RE00-22-238222	00-247	47	15–16	QBT3	N3B-2022-776	N3B-2022-776	N3B-2022-776	N3B-2022-1495	N3B-2022-776	N3B-2022-776	N3B-2022-776	N3B-2022-1495
RE00-22-238223	00-247	47	18–19	QBT3	N3B-2022-776	N3B-2022-776	N3B-2022-776	N3B-2022-1495	N3B-2022-776	N3B-2022-776	N3B-2022-776	N3B-2022-1495
RE00-22-238225	00-248	55	13–14	QBT3	N3B-2022-832	N3B-2022-832	N3B-2022-832	N3B-2022-1496	N3B-2022-832	N3B-2022-832	N3B-2022-832	N3B-2022-1496
RE00-22-238228	00-250	35	12–13	QBT3	N3B-2022-724	N3B-2022-724	N3B-2022-724	N3B-2022-1494	N3B-2022-724	N3B-2022-724	N3B-2022-724	N3B-2022-1494
RE00-22-238229	00-250	35	15–16	QBT3	N3B-2022-724	N3B-2022-724	N3B-2022-724	N3B-2022-1495	N3B-2022-724	N3B-2022-724	N3B-2022-724	N3B-2022-1495
RE00-22-238230	00-251	44	15–16	QBT3	N3B-2022-724	N3B-2022-724	N3B-2022-724	N3B-2022-1494	N3B-2022-724	N3B-2022-724	N3B-2022-724	N3B-2022-1494
RE00-22-238231	00-251	44	18–19	QBT3	N3B-2022-724	N3B-2022-724	N3B-2022-724	N3B-2022-1495	N3B-2022-724	N3B-2022-724	N3B-2022-724	N3B-2022-1495
RE00-22-238233	00-252	43	14–15	QBT3	N3B-2022-727	N3B-2022-727	N3B-2022-727	N3B-2022-1495	N3B-2022-727	N3B-2022-727	N3B-2022-727	N3B-2022-1495
RE00-22-238232	00-252	43	17–18	QBT3	N3B-2022-727	N3B-2022-727	N3B-2022-727	N3B-2022-1495	N3B-2022-727	N3B-2022-727	N3B-2022-727	N3B-2022-1495
RE00-22-238234	00-253	42	14–15	QBT3	N3B-2022-727	N3B-2022-727	N3B-2022-727	N3B-2022-1495	N3B-2022-727	N3B-2022-727	N3B-2022-727	N3B-2022-1495
RE00-22-238235	00-253	42	17–18	QBT3	N3B-2022-727	N3B-2022-727	N3B-2022-727	N3B-2022-1495	N3B-2022-727	N3B-2022-727	N3B-2022-727	N3B-2022-1495
RE00-22-238303	00-61524	32	0–1	FILL	N3B-2022-514	N3B-2022-514	N3B-2022-514	N3B-2022-1485	N3B-2022-514	N3B-2022-514	N3B-2022-514	N3B-2022-1485
RE00-22-238298	00-61524	32	4–5	FILL	N3B-2022-514	N3B-2022-514	N3B-2022-514	N3B-2022-1485	N3B-2022-514	N3B-2022-514	N3B-2022-514	N3B-2022-1485
RE00-22-238293	00-61524	32	7.2–8.2	FILL	N3B-2022-514	N3B-2022-514	N3B-2022-514	N3B-2022-1484	N3B-2022-514	N3B-2022-514	N3B-2022-514	N3B-2022-1484
RE00-22-238288	00-61524	32	15–16	QBT3	N3B-2022-828	N3B-2022-828	N3B-2022-828	N3B-2022-1496	N3B-2022-828	N3B-2022-828	N3B-2022-828	N3B-2022-1496
RE00-22-238304	00-61525	31	0–1	FILL	N3B-2022-563	N3B-2022-563	N3B-2022-563	N3B-2022-1486	N3B-2022-563	N3B-2022-563	N3B-2022-563	N3B-2022-1486
RE00-22-238299	00-61525	31	4–5	FILL	N3B-2022-562	N3B-2022-562	N3B-2022-562	N3B-2022-1486	N3B-2022-562	N3B-2022-562	N3B-2022-562	N3B-2022-1486
RE00-22-238294	00-61525	31	7–8	ALLH	N3B-2022-562	N3B-2022-562	N3B-2022-562	N3B-2022-1485	N3B-2022-562	N3B-2022-562	N3B-2022-562	N3B-2022-1485
RE00-22-238289	00-61525	31	13.8–14.8	QBT3	N3B-2022-562	N3B-2022-562	N3B-2022-562	N3B-2022-1485	N3B-2022-562	N3B-2022-562	N3B-2022-562	N3B-2022-1485
RE00-22-238308	00-61529	51	0–1	FILL	N3B-2022-603	N3B-2022-603	N3B-2022-603	N3B-2022-1487	N3B-2022-603	N3B-2022-603	N3B-2022-603	N3B-2022-1487
RE00-22-238309	00-61529	51	3–4	FILL	N3B-2022-603	N3B-2022-603	N3B-2022-603	N3B-2022-1487	N3B-2022-603	N3B-2022-603	N3B-2022-603	N3B-2022-1487
RE00-22-238310	00-61529	51	6–7	ALLH	N3B-2022-828	N3B-2022-828	N3B-2022-828	N3B-2022-1496	N3B-2022-828	N3B-2022-828	N3B-2022-828	N3B-2022-1496
RE00-22-238311	00-61529	51	10–11	ALLH	N3B-2022-828	N3B-2022-828	N3B-2022-828	N3B-2022-1496	N3B-2022-828	N3B-2022-828	N3B-2022-828	N3B-2022-1496
RE00-22-238312	00-61529	51	14.5–15.5	QBT3	N3B-2022-828	N3B-2022-828	N3B-2022-828	N3B-2022-1496	N3B-2022-828	N3B-2022-828	N3B-2022-828	N3B-2022-1496
RE00-22-238313	00-61530	39	0–1	FILL	N3B-2022-563	N3B-2022-563	N3B-2022-563	N3B-2022-1486	N3B-2022-563	N3B-2022-563	N3B-2022-563	N3B-2022-1486
RE00-22-238314	00-61530	39	4–5	ALLH	N3B-2022-563	N3B-2022-563	N3B-2022-563	N3B-2022-1486	N3B-2022-563	N3B-2022-563	N3B-2022-563	N3B-2022-1486

Table 3.1-1 (continued)

Sample ID	Location ID	Borehole ID	Depth (ft)	Media	Gamma-Emitting Radionuclides	Americium-241	Isotopic Plutonium	Isotopic Thorium	Isotopic Uranium	Strontium-90	Tritium	Technetium-99
RE00-22-238315	00-61530	39	7–8	ALLH	N3B-2022-563	N3B-2022-563	N3B-2022-563	N3B-2022-1486	N3B-2022-563	N3B-2022-563	N3B-2022-563	N3B-2022-1486
RE00-22-238316	00-61530	39	9–10	ALLH	N3B-2022-828	N3B-2022-828	N3B-2022-828	N3B-2022-1496	N3B-2022-828	N3B-2022-828	N3B-2022-828	N3B-2022-1496
RE00-22-238317	00-61530	39	17–18	QBT3	N3B-2022-828	N3B-2022-828	N3B-2022-828	N3B-2022-1496	N3B-2022-828	N3B-2022-828	N3B-2022-828	N3B-2022-1496
RE00-22-238318	00-61531	33	0–1	FILL	N3B-2022-531	N3B-2022-531	N3B-2022-531	N3B-2022-1485	N3B-2022-531	N3B-2022-531	N3B-2022-531	N3B-2022-1485
RE00-22-238322	00-61531	33	4–5	FILL	N3B-2022-531	N3B-2022-531	N3B-2022-531	N3B-2022-1485	N3B-2022-531	N3B-2022-531	N3B-2022-531	N3B-2022-1485
RE00-22-238321	00-61531	33	7–8	FILL	N3B-2022-531	N3B-2022-531	N3B-2022-531	N3B-2022-1485	N3B-2022-531	N3B-2022-531	N3B-2022-531	N3B-2022-1485
RE00-22-238319	00-61531	33	9–10	FILL	N3B-2022-531	N3B-2022-531	N3B-2022-531	N3B-2022-1485	N3B-2022-531	N3B-2022-531	N3B-2022-531	N3B-2022-1485
RE00-22-238276	00-61531	33	14–15	QBT3	N3B-2022-828	N3B-2022-828	N3B-2022-828	N3B-2022-1496	N3B-2022-828	N3B-2022-828	N3B-2022-828	N3B-2022-1496
RE00-22-248883	00-61567	55 5N	0–1	ALLH	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263
RE00-22-248884	00-61567	55 5N	3–4	ALLH	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263
RE00-22-248885	00-61567	55 5N	7–8	ALLH	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263
RE00-22-248886	00-61567	55 5N	10–11	QBT3	N3B-2022-1330	N3B-2022-1330	N3B-2022-1330	N3B-2022-1330	N3B-2022-1330	N3B-2022-1330	N3B-2022-1330	N3B-2022-1330
RE00-22-248887	00-61567	55 5N	12–13	QBT3	N3B-2022-1330	N3B-2022-1330	N3B-2022-1330	N3B-2022-1330	N3B-2022-1330	N3B-2022-1330	N3B-2022-1330	N3B-2022-1330
RE00-22-248971	00-61595	53 5W	0–1	ALLH	N3B-2022-1248	N3B-2022-1248	N3B-2022-1248	N3B-2022-1248	N3B-2022-1248	N3B-2022-1248	N3B-2022-1248	N3B-2022-1248
RE00-22-248972	00-61595	53 5W	4–5	ALLH	N3B-2022-1248	N3B-2022-1248	N3B-2022-1248	N3B-2022-1248	N3B-2022-1248	N3B-2022-1248	N3B-2022-1248	N3B-2022-1248
RE00-22-248973	00-61595	53 5W	7–8	QBT3	N3B-2022-1248	N3B-2022-1248	N3B-2022-1248	N3B-2022-1248	N3B-2022-1248	N3B-2022-1248	N3B-2022-1248	N3B-2022-1248
RE00-22-249066	00-61595	53 5W	9–10	QBT3	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596
RE00-22-249006	00-61595	53 5W	11–12	QBT3	N3B-2022-1618	N3B-2022-1618	N3B-2022-1618	N3B-2022-1618	N3B-2022-1618	N3B-2022-1618	N3B-2022-1618	N3B-2022-1618
RE00-22-248976	00-61596	53 5N	7–8	QBT3	N3B-2022-1248	N3B-2022-1248	N3B-2022-1248	N3B-2022-1248	N3B-2022-1248	N3B-2022-1248	N3B-2022-1248	N3B-2022-1248
RE00-22-248978	00-61597	55 5E	12–13	QBT3	N3B-2022-1273	N3B-2022-1273	N3B-2022-1273	N3B-2022-1273	N3B-2022-1273	N3B-2022-1273	N3B-2022-1273	N3B-2022-1273
RE00-22-248980	00-61598	55 5S	10–11	QBT3	N3B-2022-1273	N3B-2022-1273	N3B-2022-1273	N3B-2022-1273	N3B-2022-1273	N3B-2022-1273	N3B-2022-1273	N3B-2022-1273
RE00-22-248981	00-61598	55 5S	12–13	QBT3	N3B-2022-1273	N3B-2022-1273	N3B-2022-1273	N3B-2022-1273	N3B-2022-1273	N3B-2022-1273	N3B-2022-1273	N3B-2022-1273
RE00-22-248995	00-61603	53 10N	0–1	ALLH	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596
RE00-22-248996	00-61603	53 10N	4–5	ALLH	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596
RE00-22-248997	00-61603	53 10N	7–8	QBT3	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596
RE00-22-249000	00-61604	53 10NW	0–1	ALLH	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596
RE00-22-248999	00-61604	53 10NW	4–5	ALLH	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596
RE00-22-248998	00-61604	53 10NW	7–8	QBT3	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596
RE00-22-249034	00-61617	55 5W	12–13	QBT3	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263
RE00-22-249935	00-61633	55 5NE	0–1	ALLH	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322
RE00-22-249936	00-61633	55 5NE	3–4	ALLH	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322
RE00-22-249937	00-61633	55 5NE	7–8	ALLH	N3B-2022-1344	N3B-2022-1344	N3B-2022-1344	N3B-2022-1344	N3B-2022-1344	N3B-2022-1344	N3B-2022-1344	N3B-2022-1344

Table 3.1-1 (continued)

Sample ID	Location ID	Borehole ID	Depth (ft)	Media	Gamma-Emitting Radionuclides	Americium-241	Isotopic Plutonium	Isotopic Thorium	Isotopic Uranium	Strontium-90	Tritium	Technetium-99
RE00-22-249938	00-61633	55 5NE	10–11	QBT3	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355
RE00-22-249939	00-61633	55 5NE	12–13	QBT3	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355
RE00-22-249940	00-61634	55 5SW	0–1	ALLH	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322
RE00-22-249941	00-61634	55 5SW	3–4	ALLH	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322
RE00-22-249942	00-61634	55 5SW	7–8	QBT3	N3B-2022-1333	N3B-2022-1333	N3B-2022-1333	N3B-2022-1333	N3B-2022-1333	N3B-2022-1333	N3B-2022-1333	N3B-2022-1333
RE00-22-249944	00-61634	55 5SW	10–11	QBT3	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322
RE00-22-249943	00-61634	55 5SW	12–13	QBT3	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322
RE00-22-249946	00-61635	55 5SE	0–1	ALLH	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322
RE00-22-249947	00-61635	55 5SE	3–4	ALLH	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322
RE00-22-249948	00-61635	55 5SE	7–8	ALLH	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322	N3B-2022-1322
RE00-22-249949	00-61635	55 5SE	10–11	QBT3	N3B-2022-1344	N3B-2022-1344	N3B-2022-1344	N3B-2022-1344	N3B-2022-1344	N3B-2022-1344	N3B-2022-1344	N3B-2022-1344
RE00-22-249945	00-61635	55 5SE	12–13	QBT3	N3B-2022-1344	N3B-2022-1344	N3B-2022-1344	N3B-2022-1344	N3B-2022-1344	N3B-2022-1344	N3B-2022-1344	N3B-2022-1344
RE00-22-249950	00-61636	55 5NW	0–1	ALLH	N3B-2022-1344	N3B-2022-1344	N3B-2022-1344	N3B-2022-1344	N3B-2022-1344	N3B-2022-1344	N3B-2022-1344	N3B-2022-1344
RE00-22-249951	00-61636	55 5NW	3–4	ALLH	N3B-2022-1344	N3B-2022-1344	N3B-2022-1344	N3B-2022-1344	N3B-2022-1344	N3B-2022-1344	N3B-2022-1344	N3B-2022-1344
RE00-22-249952	00-61636	55 5NW	7–8	ALLH	N3B-2022-1375	N3B-2022-1375	N3B-2022-1375	N3B-2022-1375	N3B-2022-1375	N3B-2022-1375	N3B-2022-1375	N3B-2022-1375
RE00-22-249953	00-61636	55 5NW	10–11	QBT3	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355
RE00-22-249954	00-61636	55 5NW	12–13	QBT3	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355
RE00-22-249955	00-61637	55 10S	0–1	ALLH	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363
RE00-22-249956	00-61637	55 10S	3–4	ALLH	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363
RE00-22-249957	00-61637	55 10S	7–8	ALLH	N3B-2022-1375	N3B-2022-1375	N3B-2022-1375	N3B-2022-1375	N3B-2022-1375	N3B-2022-1375	N3B-2022-1375	N3B-2022-1375
RE00-22-249958	00-61637	55 10S	10–11	QBT3	N3B-2022-1376	N3B-2022-1376	N3B-2022-1376	N3B-2022-1376	N3B-2022-1376	N3B-2022-1376	N3B-2022-1376	N3B-2022-1376
RE00-22-249959	00-61637	55 10S	12–13	QBT3	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363
RE00-22-249963	00-61638	55 10E	10–11	QBT3	N3B-2022-1369	N3B-2022-1369	N3B-2022-1369	N3B-2022-1369	N3B-2022-1369	N3B-2022-1369	N3B-2022-1369	N3B-2022-1369
RE00-22-249964	00-61638	55 10E	12–13	QBT3	N3B-2022-1390	N3B-2022-1390	N3B-2022-1390	N3B-2022-1390	N3B-2022-1390	N3B-2022-1390	N3B-2022-1390	N3B-2022-1390
RE00-22-249965	00-61639	55 15SW	0–1	ALLH	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363
RE00-22-249966	00-61639	55 15SW	3–4	ALLH	N3B-2022-1376	N3B-2022-1376	N3B-2022-1376	N3B-2022-1376	N3B-2022-1376	N3B-2022-1376	N3B-2022-1376	N3B-2022-1376
RE00-22-249967	00-61639	55 15SW	7–8	ALLH	N3B-2022-1369	N3B-2022-1369	N3B-2022-1369	N3B-2022-1369	N3B-2022-1369	N3B-2022-1369	N3B-2022-1369	N3B-2022-1369
RE00-22-249968	00-61639	55 15SW	10–11	QBT3	N3B-2022-1390	N3B-2022-1390	N3B-2022-1390	N3B-2022-1390	N3B-2022-1390	N3B-2022-1390	N3B-2022-1390	N3B-2022-1390
RE00-22-249969	00-61639	55 15SW	12–13	QBT3	N3B-2022-1369	N3B-2022-1369	N3B-2022-1369	N3B-2022-1369	N3B-2022-1369	N3B-2022-1369	N3B-2022-1369	N3B-2022-1369
RE00-22-249970	00-61640	55 15S	0–1	ALLH	N3B-2022-1369	N3B-2022-1369	N3B-2022-1369	N3B-2022-1369	N3B-2022-1369	N3B-2022-1369	N3B-2022-1369	N3B-2022-1369
RE00-22-249971	00-61640	55 15S	3–4	ALLH	N3B-2022-1369	N3B-2022-1369	N3B-2022-1369	N3B-2022-1369	N3B-2022-1369	N3B-2022-1369	N3B-2022-1369	N3B-2022-1369
RE00-22-249972	00-61640	55 15S	7–8	ALLH	N3B-2022-1369	N3B-2022-1369	N3B-2022-1369	N3B-2022-1369	N3B-2022-1369	N3B-2022-1369	N3B-2022-1369	N3B-2022-1369

Table 3.1-1 (continued)

Sample ID	Location ID	Borehole ID	Depth (ft)	Media	Gamma-Emitting Radionuclides	Americium-241	Isotopic Plutonium	Isotopic Thorium	Isotopic Uranium	Strontium-90	Tritium	Technetium-99
RE00-22-249973	00-61640	55 15S	10–11	QBT3	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373
RE00-22-249974	00-61640	55 15S	12–13	QBT3	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373
RE00-22-249975	00-61641	55 15SSE	0–1	ALLH	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373
RE00-22-249976	00-61641	55 15SSE	3–4	ALLH	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373
RE00-22-249977	00-61641	55 15SSE	7–8	ALLH	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373
RE00-22-249978	00-61641	55 15SSE	10–11	QBT3	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373
RE00-22-249979	00-61641	55 15SSE	12–13	QBT3	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384
RE00-22-249980	00-61642	55 10NE	0–1	ALLH	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355
RE00-22-249981	00-61642	55 10NE	3–4	ALLH	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355
RE00-22-249982	00-61642	55 10NE	7–8	ALLH	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355
RE00-22-249983	00-61642	55 10NE	10–11	QBT3	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363
RE00-22-249984	00-61642	55 10NE	12–13	QBT3	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363
RE00-22-249985	00-61643	55 10SW	0–1	ALLH	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355
RE00-22-249986	00-61643	55 10SW	3–4	ALLH	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355
RE00-22-249987	00-61643	55 10SW	7–8	ALLH	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355	N3B-2022-1355
RE00-22-249988	00-61643	55 10SW	10–11	QBT3	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363
RE00-22-249989	00-61643	55 10SW	12–13	QBT3	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363
RE00-22-249990	00-61644	55 10SE	0–1	ALLH	N3B-2022-1369	N3B-2022-1369	N3B-2022-1369	N3B-2022-1369	N3B-2022-1369	N3B-2022-1369	N3B-2022-1369	N3B-2022-1369
RE00-22-249991	00-61644	55 10SE	3–4	ALLH	N3B-2022-1375	N3B-2022-1375	N3B-2022-1375	N3B-2022-1375	N3B-2022-1375	N3B-2022-1375	N3B-2022-1375	N3B-2022-1375
RE00-22-249992	00-61644	55 10SE	7–8	ALLH	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363
RE00-22-249993	00-61644	55 10SE	10–11	QBT3	N3B-2022-1376	N3B-2022-1376	N3B-2022-1376	N3B-2022-1376	N3B-2022-1376	N3B-2022-1376	N3B-2022-1376	N3B-2022-1376
RE00-22-249994	00-61644	55 10SE	12–13	QBT3	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363	N3B-2022-1363
RE00-22-249995	00-61645	55 15SE	0–1	ALLH	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373
RE00-22-249996	00-61645	55 15SE	3–4	ALLH	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373
RE00-22-249997	00-61645	55 15SE	7–8	ALLH	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384
RE00-22-249998	00-61645	55 15SE	10–11	QBT3	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384
RE00-22-249999	00-61645	55 15SE	12–13	QBT3	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384
RE00-22-250000	00-61646	55 15E	0–1	ALLH	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373
RE00-22-250001	00-61646	55 15E	3–4	ALLH	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373	N3B-2022-1373
RE00-22-250002	00-61646	55 15E	7–8	ALLH	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384
RE00-22-250003	00-61646	55 15E	10–11	QBT3	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384
RE00-22-250004	00-61646	55 15E	12–13	QBT3	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384

Table 3.1-1 (continued)

Sample ID	Location ID	Borehole ID	Depth (ft)	Media	Gamma-Emitting Radionuclides	Americium-241	Isotopic Plutonium	Isotopic Thorium	Isotopic Uranium	Strontium-90	Tritium	Technetium-99
RE00-22-250005	00-61647	55 15NE	0–1	ALLH	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384
RE00-22-250006	00-61647	55 15NE	3–4	ALLH	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384
RE00-22-250007	00-61647	55 15NE	7–8	ALLH	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384
RE00-22-250008	00-61647	55 15NE	10–11	QBT3	N3B-2022-1390	N3B-2022-1390	N3B-2022-1390	N3B-2022-1390	N3B-2022-1390	N3B-2022-1390	N3B-2022-1390	N3B-2022-1390
RE00-22-250009	00-61647	55 15NE	12–13	QBT3	N3B-2022-1390	N3B-2022-1390	N3B-2022-1390	N3B-2022-1390	N3B-2022-1390	N3B-2022-1390	N3B-2022-1390	N3B-2022-1390
RE00-22-252230	00-61647	55 15NE	13–14	QBT3	N3B-2022-1634	N3B-2022-1634	N3B-2022-1634	N3B-2022-1634	N3B-2022-1634	N3B-2022-1634	N3B-2022-1634	N3B-2022-1634
RE00-22-252231	00-61647	55 15NE	14–15	QBT3	N3B-2022-1677	N3B-2022-1677	N3B-2022-1677	N3B-2022-1677	N3B-2022-1677	N3B-2022-1677	N3B-2022-1677	N3B-2022-1677
RE00-22-250010	00-61648	55 10NW	0–1	ALLH	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384
RE00-22-250011	00-61648	55 10NW	3–4	ALLH	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384	N3B-2022-1384
RE00-22-250012	00-61648	55 10NW	7–8	QBT3	N3B-2022-1387	N3B-2022-1387	N3B-2022-1387	N3B-2022-1387	N3B-2022-1387	N3B-2022-1387	N3B-2022-1387	N3B-2022-1387
RE00-22-250013	00-61648	55 10NW	10–11	QBT3	N3B-2022-1387	N3B-2022-1387	N3B-2022-1387	N3B-2022-1387	N3B-2022-1387	N3B-2022-1387	N3B-2022-1387	N3B-2022-1387
RE00-22-250014	00-61648	55 10NW	12–13	QBT3	N3B-2022-1387	N3B-2022-1387	N3B-2022-1387	N3B-2022-1387	N3B-2022-1387	N3B-2022-1387	N3B-2022-1387	N3B-2022-1387
RE00-22-250015	00-61649	55 10N	0–1	ALLH	N3B-2022-1387	N3B-2022-1387	N3B-2022-1387	N3B-2022-1387	N3B-2022-1387	N3B-2022-1387	N3B-2022-1387	N3B-2022-1387
RE00-22-250016	00-61649	55 10N	3–4	ALLH	N3B-2022-1387	N3B-2022-1387	N3B-2022-1387	N3B-2022-1387	N3B-2022-1387	N3B-2022-1387	N3B-2022-1387	N3B-2022-1387
RE00-22-250017	00-61649	55 10N	7–8	QBT3	N3B-2022-1387	N3B-2022-1387	N3B-2022-1387	N3B-2022-1387	N3B-2022-1387	N3B-2022-1387	N3B-2022-1387	N3B-2022-1387
RE00-22-250018	00-61649	55 10N	10–11	QBT3	N3B-2022-1387	N3B-2022-1387	N3B-2022-1387	N3B-2022-1387	N3B-2022-1387	N3B-2022-1387	N3B-2022-1387	N3B-2022-1387
RE00-22-250019	00-61649	55 10N	12–13	QBT3	N3B-2022-1386	N3B-2022-1386	N3B-2022-1386	N3B-2022-1386	N3B-2022-1386	N3B-2022-1386	N3B-2022-1386	N3B-2022-1386
RE00-22-250946	00-61663	53 10ENE	0–1	ALLH	N3B-2022-1598	N3B-2022-1598	N3B-2022-1598	N3B-2022-1598	N3B-2022-1598	N3B-2022-1598	N3B-2022-1598	N3B-2022-1598
RE00-22-250947	00-61663	53 10ENE	4–5	ALLH	N3B-2022-1598	N3B-2022-1598	N3B-2022-1598	N3B-2022-1598	N3B-2022-1598	N3B-2022-1598	N3B-2022-1598	N3B-2022-1598
RE00-22-250948	00-61663	53 10ENE	7–8	QBT3	N3B-2022-1598	N3B-2022-1598	N3B-2022-1598	N3B-2022-1598	N3B-2022-1598	N3B-2022-1598	N3B-2022-1598	N3B-2022-1598
RE00-22-253183	00-61710	53 10NNE	0–1	ALLH	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243
RE00-22-253215	00-61710	53 10NNE	4–5	ALLH	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243
RE00-22-253216	00-61710	53 10NNE	7–8	ALLH	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243
RE00-22-253199	00-61715	53 10NE	0–1	ALLH	N3B-2022-2282	N3B-2022-2282	N3B-2022-2282	N3B-2022-2282	N3B-2022-2282	N3B-2022-2282	N3B-2022-2282	N3B-2022-2282
RE00-22-253200	00-61715	53 10NE	4–5	ALLH	N3B-2022-2282	N3B-2022-2282	N3B-2022-2282	N3B-2022-2282	N3B-2022-2282	N3B-2022-2282	N3B-2022-2282	N3B-2022-2282
RE00-22-253201	00-61715	53 10NE	7–8	QBT3	N3B-2022-2282	N3B-2022-2282	N3B-2022-2282	N3B-2022-2282	N3B-2022-2282	N3B-2022-2282	N3B-2022-2282	N3B-2022-2282
RE00-22-253212	00-61718	53 10ENEV	9–10	QBT3	N3B-2022-2282	N3B-2022-2282	N3B-2022-2282	N3B-2022-2282	N3B-2022-2282	N3B-2022-2282	N3B-2022-2282	N3B-2022-2282
RE00-22-253213	00-61718	53 10ENEV	11–12	QBT3	N3B-2022-2282	N3B-2022-2282	N3B-2022-2282	N3B-2022-2282	N3B-2022-2282	N3B-2022-2282	N3B-2022-2282	N3B-2022-2282

Note: Numbers in analyte columns are request numbers.

* — = Analysis not requested.

Table 3.1-2
Samples Collected and Analyses Requested at MDPR Tract A-16-a

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	TAL Metals	Mercury	Perchlorate	Cyanide (total)	Nitrate/Nitrite	VOCs	SVOCs	PCBs	Dioxins/Furans
RE00-22-238042	00-171	4	North	7.5–8.5	QBT3	N3B-2022-668	N3B-2022-668	N3B-2022-668	N3B-2022-668	N3B-2022-668	N3B-2022-668	N3B-2022-668	—[b]	—
RE00-22-238043	00-171	4	North	10.5–11.5	QBT3	N3B-2022-668	N3B-2022-668	N3B-2022-668	N3B-2022-668	N3B-2022-668	N3B-2022-668	N3B-2022-668	—	—
RE00-22-238046	00-173	9	North	6.5–7.5	QBT3	N3B-2022-680	N3B-2022-680	N3B-2022-680	N3B-2022-680	N3B-2022-680	N3B-2022-680	N3B-2022-680	—	—
RE00-22-238047	00-173	9	North	9.5–10.5	QBT3	N3B-2022-680	N3B-2022-680	N3B-2022-680	N3B-2022-680	N3B-2022-680	N3B-2022-680	N3B-2022-680	—	—
RE00-22-238051	00-175	23	North	6.9–7.9	QBT3	N3B-2022-680	N3B-2022-680	N3B-2022-680	N3B-2022-680	N3B-2022-680	N3B-2022-680	N3B-2022-680	—	—
RE00-22-238052	00-175	23	North	9.9–10.9	QBT3	N3B-2022-680	N3B-2022-680	N3B-2022-680	N3B-2022-680	N3B-2022-680	N3B-2022-680	N3B-2022-680	—	—
RE00-22-238056	00-177	11	North	9–10	QBT3	N3B-2022-668	N3B-2022-668	N3B-2022-668	N3B-2022-668	N3B-2022-668	N3B-2022-668	N3B-2022-668	—	—
RE00-22-238057	00-177	11	North	12–13	QBT3	N3B-2022-668	N3B-2022-668	N3B-2022-668	N3B-2022-668	N3B-2022-668	N3B-2022-668	N3B-2022-668	—	—
RE00-22-238061	00-179	8	North	8.5–9.5	QBT3	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-679	—	—
RE00-22-238062	00-179	8	North	11.5–12.5	QBT3	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-679	—	—
RE00-22-238066	00-181	13	North	8–9	QBT3	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-679	—	—
RE00-22-238067	00-181	13	North	11–12	QBT3	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-679	—	—
RE00-22-238071	00-183	10	North	11–12	QBT3	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-679	—	—
RE00-22-238072	00-183	10	North	14–15	QBT3	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-679	—	—
RE00-22-238075	00-184	1	North	6–7	QBT3	N3B-2022-832	N3B-2022-832	N3B-2022-832	N3B-2022-832	N3B-2022-832	N3B-2022-832	N3B-2022-832	—	—
RE00-22-238076	00-185	24	North	6.5–7.5	QBT3	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-679	—	—
RE00-22-238077	00-185	24	North	9.5–10.5	QBT3	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-679	—	—
RE00-22-238078	00-186	97	South	0–1	ALLH	N3B-2022-477	N3B-2022-477	N3B-2022-477	N3B-2022-477	N3B-2022-477	N3B-2022-477	N3B-2022-477	—	—
RE00-22-238079	00-186	97	South	3–4	ALLH	N3B-2022-477	N3B-2022-477	N3B-2022-477	N3B-2022-477	N3B-2022-477	N3B-2022-477	N3B-2022-477	—	—
RE00-22-238080	00-186	97	South	6.5–7.5	QBT3	N3B-2022-477	N3B-2022-477	N3B-2022-477	N3B-2022-477	N3B-2022-477	N3B-2022-477	N3B-2022-477	—	—
RE00-22-238081	00-187	21	North	8–9	QBT3	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-491	N3B-2022-492
RE00-22-238082	00-187	21	North	11–12	QBT3	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-491	N3B-2022-492
RE00-22-238090	00-190	90	South	6–7	QBT3	N3B-2022-514	N3B-2022-514	N3B-2022-514	N3B-2022-514	N3B-2022-514	N3B-2022-514	N3B-2022-514	—	—
RE00-22-238093	00-190	90	South	13–14	QBT3	N3B-2022-828	N3B-2022-828	N3B-2022-828	N3B-2022-828	N3B-2022-828	N3B-2022-828	N3B-2022-828	—	—
RE00-22-238094	00-192	91	South	0–1	FILL	N3B-2022-514	N3B-2022-514	N3B-2022-514	N3B-2022-514	N3B-2022-514	N3B-2022-514	N3B-2022-514	N3B-2022-477	N3B-2022-479
RE00-22-238095	00-192	91	South	7.5–8.5	QBT3	N3B-2022-514	N3B-2022-514	N3B-2022-514	N3B-2022-514	N3B-2022-514	N3B-2022-514	N3B-2022-514	N3B-2022-477	N3B-2022-479
RE00-22-238096	00-193	98	North	9.5–10.5	QBT3	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-491	N3B-2022-492
RE00-22-238097	00-193	98	North	12.5–13.5	QBT3	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-679	—	—
RE00-22-238100	00-195	25	North	8.5–9.5	QBT3	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-679	—	—
RE00-22-238101	00-195	25	North	11.5–12.5	QBT3	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-628	N3B-2022-635

Table 3.1-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	TAL Metals	Mercury	Perchlorate	Cyanide (total)	Nitrate/Nitrite	VOCs	SVOCs	PCBs	Dioxins/Furans
RE00-22-238103	00-196	3	North	3.3–4.5	FILL	N3B-2022-491	N3B-2022-491	N3B-2022-491	N3B-2022-491	N3B-2022-491	N3B-2022-491	N3B-2022-491	N3B-2022-628	N3B-2022-635
RE00-22-238104	00-196	3	North	7.5–8.5	QBT3	N3B-2022-491	N3B-2022-491	N3B-2022-491	N3B-2022-491	N3B-2022-491	N3B-2022-491	N3B-2022-491	N3B-2022-628	N3B-2022-635
RE00-22-238105	00-197	27	North	8.5–9.5	QBT3	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-682	—	—
RE00-22-238106	00-197	27	North	11.5–12.5	QBT3	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-682	—	—
RE00-22-238107	00-198	99	South	0–1	ALLH	N3B-2022-477	N3B-2022-477	N3B-2022-477	N3B-2022-477	N3B-2022-477	N3B-2022-477	N3B-2022-477	N3B-2022-628	N3B-2022-635
RE00-22-238108	00-198	99	South	3–4	ALLH	N3B-2022-477	N3B-2022-477	N3B-2022-477	N3B-2022-477	N3B-2022-477	N3B-2022-477	N3B-2022-477	N3B-2022-628	N3B-2022-635
RE00-22-238109	00-198	99	South	6–7.1	QBT3	N3B-2022-491	N3B-2022-491	N3B-2022-491	N3B-2022-491	N3B-2022-491	N3B-2022-491	N3B-2022-491	N3B-2022-628	N3B-2022-635
RE00-22-238110	00-199	28	North	12.5–13.5	QBT3	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-682	—	—
RE00-22-238111	00-199	28	North	15.5–16.5	QBT3	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-682	—	—
RE00-22-238112	00-200	66	South	0–1	FILL	N3B-2022-628	N3B-2022-628	N3B-2022-628	N3B-2022-628	N3B-2022-628	N3B-2022-628	N3B-2022-628	N3B-2022-695	N3B-2022-698
RE00-22-238113	00-200	66	South	4–5	FILL	N3B-2022-628	N3B-2022-628	N3B-2022-628	N3B-2022-628	N3B-2022-628	N3B-2022-628	N3B-2022-628	N3B-2022-695	N3B-2022-698
RE00-22-238114	00-200	66	South	6.1–7.1	QBT3	N3B-2022-628	N3B-2022-628	N3B-2022-628	N3B-2022-628	N3B-2022-628	N3B-2022-628	N3B-2022-628	N3B-2022-695	N3B-2022-698
RE00-22-238115	00-201	89	South	7.5–8.5	QBT3	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-682	—	—
RE00-22-238116	00-201	89	South	10.5–11.5	QBT3	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-682	—	—
RE00-22-238117	00-202	92	South	0–1	FILL	N3B-2022-628	N3B-2022-628	N3B-2022-628	N3B-2022-628	N3B-2022-628	N3B-2022-628	N3B-2022-628	N3B-2022-642	N3B-2022-643
RE00-22-238118	00-202	92	South	3–4	FILL	N3B-2022-628	N3B-2022-628	N3B-2022-628	N3B-2022-628	N3B-2022-628	N3B-2022-628	N3B-2022-628	—	—
RE00-22-238119	00-202	92	South	7.7–8.7	QBT3	N3B-2022-628	N3B-2022-628	N3B-2022-628	N3B-2022-628	N3B-2022-628	N3B-2022-628	N3B-2022-628	—	—
RE00-22-238120	00-203	86	South	10–11	QBT3	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-682	—	—
RE00-22-238121	00-203	86	South	13–14	QBT3	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-580	N3B-2022-575
RE00-22-238122	00-204	57A	South	0–1	ALLH	N3B-2022-695	N3B-2022-695	N3B-2022-695	N3B-2022-695	N3B-2022-695	N3B-2022-695	N3B-2022-695	N3B-2022-828	N3B-2022-829
RE00-22-238123	00-204	57A	South	3–4	ALLH	N3B-2022-695	N3B-2022-695	N3B-2022-695	N3B-2022-695	N3B-2022-695	N3B-2022-695	N3B-2022-695	N3B-2022-828	N3B-2022-829
RE00-22-238124	00-204	57A	South	7.9–8.9	QBT3	N3B-2022-695	N3B-2022-695	N3B-2022-695	N3B-2022-695	N3B-2022-695	N3B-2022-695	N3B-2022-695	—	—
RE00-22-238125	00-205	72	South	13–14	QBT3	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-694	—	—
RE00-22-238126	00-205	72	South	16–17	QBT3	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-579	N3B-2022-575
RE00-22-238129	00-206	18	North	7.8–8.8	QBT3	N3B-2022-642	N3B-2022-642	N3B-2022-642	N3B-2022-642	N3B-2022-642	N3B-2022-642	N3B-2022-642	N3B-2022-579	N3B-2022-575
RE00-22-239668	00-206	18	North	7.8–8.8	QBT3	—	—	—	—	—	—	—	N3B-2022-579	N3B-2022-575
RE00-22-238130	00-207	71	South	10–11	QBT3	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-694	—	—
RE00-22-238131	00-207	71	South	13–14	QBT3	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-694	—	—
RE00-22-238132	00-208	70	South	0–1	FILL	N3B-2022-580	N3B-2022-580	N3B-2022-580	N3B-2022-580	N3B-2022-580	N3B-2022-580	N3B-2022-580	N3B-2022-667	N3B-2022-669
RE00-22-238133	00-208	70	South	4–5	ALLH	N3B-2022-828	N3B-2022-828	N3B-2022-828	N3B-2022-828	N3B-2022-828	N3B-2022-828	N3B-2022-828	N3B-2022-667	N3B-2022-669
RE00-22-238134	00-208	70	South	9–10	QBT3	N3B-2022-828	N3B-2022-828	N3B-2022-828	N3B-2022-828	N3B-2022-828	N3B-2022-828	N3B-2022-828	N3B-2022-668	N3B-2022-669
RE00-22-238135	00-209	76	South	13–14	QBT3	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-694	—	—
RE00-22-238136	00-209	76	South	16–17	QBT3	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-694	—	—
RE00-22-238139	00-210	29	North	0–1.4	FILL	N3B-2022-579	N3B-2022-579	N3B-2022-579	N3B-2022-579	N3B-2022-579	N3B-2022-579	N3B-2022-579	N3B-2022-647	N3B-2022-648
RE00-22-238138	00-210	29	North	4–5	ALLH	N3B-2022-579	N3B-2022-579	N3B-2022-579	N3B-2022-579	N3B-2022-579	N3B-2022-579	N3B-2022-579	N3B-2022-647	N3B-2022-648

Table 3.1-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	TAL Metals	Mercury	Perchlorate	Cyanide (total)	Nitrate/Nitrite	VOCs	SVOCs	PCBs	Dioxins/Furans
RE00-22-238137	00-210	29	North	7–8	QBT3	N3B-2022-579	N3B-2022-579	N3B-2022-579	N3B-2022-579	N3B-2022-579	N3B-2022-579	N3B-2022-579	N3B-2022-647	N3B-2022-648
RE00-22-238140	00-211	82	South	14.5–15.5	QBT3	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-682	—	—
RE00-22-238141	00-211	82	South	17.5–18.5	QBT3	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-682	—	—
RE00-22-238142	00-212	20	North	0–1	FILL	N3B-2022-667	N3B-2022-667	N3B-2022-667	N3B-2022-667	N3B-2022-667	N3B-2022-667	N3B-2022-667	—	—
RE00-22-238143	00-212	20	North	4–5	ALLH	N3B-2022-667	N3B-2022-667	N3B-2022-667	N3B-2022-667	N3B-2022-667	N3B-2022-667	N3B-2022-667	—	—
RE00-22-238144	00-212	20	North	6.2–7.2	QBT3	N3B-2022-668	N3B-2022-668	N3B-2022-668	N3B-2022-668	N3B-2022-668	N3B-2022-668	N3B-2022-668	—	—
RE00-22-238145	00-213	79	South	12–13	QBT3	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-682	—	—
RE00-22-238146	00-213	79	South	15–16	QBT3	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-626	N3B-2022-635
RE00-22-238147	00-214	26	North	0–1	FILL	N3B-2022-647	N3B-2022-647	N3B-2022-647	N3B-2022-647	N3B-2022-647	N3B-2022-647	N3B-2022-647	N3B-2022-626	N3B-2022-635
RE00-22-238148	00-214	26	North	4–5	ALLH	N3B-2022-647	N3B-2022-647	N3B-2022-647	N3B-2022-647	N3B-2022-647	N3B-2022-647	N3B-2022-647	N3B-2022-626	N3B-2022-635
RE00-22-238149	00-214	26	North	6.8–7.8	QBT3	N3B-2022-647	N3B-2022-647	N3B-2022-647	N3B-2022-647	N3B-2022-647	N3B-2022-647	N3B-2022-647	—	—
RE00-22-238150	00-215	12	North	7.5–8.5	QBT3	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-682	—	—
RE00-22-238151	00-215	12	North	10.5–11.5	QBT3	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-603	N3B-2022-604
RE00-22-238152	00-216	83	South	12–13	QBT3	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-603	N3B-2022-604
RE00-22-238153	00-216	83	South	15–16	QBT3	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-603	N3B-2022-604
RE00-22-238154	00-217	80	South	12–13	QBT3	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-694	—	—
RE00-22-238155	00-217	80	South	15–16	QBT3	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-694	—	—
RE00-22-238156	00-218	22	North	0–1	FILL	N3B-2022-626	N3B-2022-626	N3B-2022-626	N3B-2022-626	N3B-2022-626	N3B-2022-626	N3B-2022-626	N3B-2022-668	N3B-2022-669
RE00-22-238157	00-218	22	North	4–5	FILL	N3B-2022-626	N3B-2022-626	N3B-2022-626	N3B-2022-626	N3B-2022-626	N3B-2022-626	N3B-2022-626	N3B-2022-668	N3B-2022-669
RE00-22-238158	00-218	22	North	11.9–12.9	QBT3	N3B-2022-626	N3B-2022-626	N3B-2022-626	N3B-2022-626	N3B-2022-626	N3B-2022-626	N3B-2022-626	N3B-2022-668	N3B-2022-669
RE00-22-238159	00-219	87	South	8.5–9.5	QBT3	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-694	—	—
RE00-22-238160	00-219	87	South	11.5–12.5	QBT3	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-694	—	—
RE00-22-238161	00-220	85	South	0–1	FILL	N3B-2022-603	N3B-2022-603	N3B-2022-603	N3B-2022-603	N3B-2022-603	N3B-2022-603	N3B-2022-603	—	—
RE00-22-238162	00-220	85	South	3–4	FILL	N3B-2022-603	N3B-2022-603	N3B-2022-603	N3B-2022-603	N3B-2022-603	N3B-2022-603	N3B-2022-603	—	—
RE00-22-238163	00-220	85	South	4.9–5.9	QBT3	N3B-2022-603	N3B-2022-603	N3B-2022-603	N3B-2022-603	N3B-2022-603	N3B-2022-603	N3B-2022-603	—	—
RE00-22-238164	00-221	84	South	11–12	QBT3	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-694	—	—
RE00-22-238165	00-221	84	South	14–15	QBT3	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-694	—	—
RE00-22-238166	00-222	7	North	0–1	FILL	N3B-2022-668	N3B-2022-668	N3B-2022-668	N3B-2022-668	N3B-2022-668	N3B-2022-668	N3B-2022-668	—	—
RE00-22-238167	00-222	7	North	3–4	ALLH	N3B-2022-668	N3B-2022-668	N3B-2022-668	N3B-2022-668	N3B-2022-668	N3B-2022-668	N3B-2022-668	—	—
RE00-22-238168	00-222	7	North	5–6	QBT3	N3B-2022-668	N3B-2022-668	N3B-2022-668	N3B-2022-668	N3B-2022-668	N3B-2022-668	N3B-2022-668	N3B-2022-531	N3B-2022-535
RE00-22-238169	00-223	81	South	6.5–7.5	QBT3	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-697	—	—
RE00-22-238170	00-223	81	South	9.5–10.5	QBT3	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-697	—	—
RE00-22-238174	00-225	77	South	8.5–9.5	QBT3	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-697	—	—
RE00-22-238175	00-225	77	South	11.5–12.5	QBT3	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-697	—	—
RE00-22-238176	00-226	95	South	0–1	FILL	N3B-2022-627	N3B-2022-627	N3B-2022-627	N3B-2022-627	N3B-2022-627	N3B-2022-627	N3B-2022-627	—	—

Table 3.1-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	TAL Metals	Mercury	Perchlorate	Cyanide (total)	Nitrate/Nitrite	VOCs	SVOCs	PCBs	Dioxins/Furans
RE00-22-238177	00-226	95	South	3–4	ALLH	N3B-2022-627	N3B-2022-627	N3B-2022-627	N3B-2022-627	N3B-2022-627	N3B-2022-627	N3B-2022-627	—	—
RE00-22-238178	00-226	95	South	6–7	QBT3	N3B-2022-832	N3B-2022-832	N3B-2022-832	N3B-2022-832	N3B-2022-832	N3B-2022-832	N3B-2022-832	N3B-2022-571	N3B-2022-572
RE00-22-238179	00-227	78	South	7.5–8.5	QBT3	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-571	N3B-2022-572
RE00-22-238180	00-227	78	South	10.5–11.5	QBT3	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-571	N3B-2022-572
RE00-22-238181	00-228	59	South	0–1	FILL	N3B-2022-531	N3B-2022-531	N3B-2022-531	N3B-2022-531	N3B-2022-531	N3B-2022-531	N3B-2022-531	—	—
RE00-22-238281	00-228	59	South	4–5	ALLH	N3B-2022-828	N3B-2022-828	N3B-2022-828	N3B-2022-828	N3B-2022-828	N3B-2022-828	N3B-2022-828	—	—
RE00-22-238286	00-228	59	South	9–10	QBT3	N3B-2022-828	N3B-2022-828	N3B-2022-828	N3B-2022-828	N3B-2022-828	N3B-2022-828	N3B-2022-828	—	—
RE00-22-238184	00-229	73	South	7.5–8.5	QBT3	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-697	—	—
RE00-22-238185	00-229	73	South	10.5–11.5	QBT3	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-697	—	—
RE00-22-238189	00-231	69	South	7.5–8.5	QBT3	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-697	—	—
RE00-22-238190	00-231	69	South	10.5–11.5	QBT3	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-697	—	—
RE00-22-238192	00-232	96	South	0–1	FILL	N3B-2022-571	N3B-2022-571	N3B-2022-571	N3B-2022-571	N3B-2022-571	N3B-2022-571	N3B-2022-571	—	—
RE00-22-238191	00-232	96	South	4–5	FILL	N3B-2022-571	N3B-2022-571	N3B-2022-571	N3B-2022-571	N3B-2022-571	N3B-2022-571	N3B-2022-571	—	—
RE00-22-238193	00-232	96	South	6–7	QBT3	N3B-2022-571	N3B-2022-571	N3B-2022-571	N3B-2022-571	N3B-2022-571	N3B-2022-571	N3B-2022-571	—	—
RE00-22-238194	00-233	64	South	7.5–8.5	QBT3	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-697	—	—
RE00-22-238195	00-233	64	South	10.5–11.5	QBT3	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-697	—	—
RE00-22-238196	00-234	61	South	12.5–13.5	QBT3	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-711	—	—
RE00-22-238197	00-234	61	South	15.5–16.5	QBT3	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-711	—	—
RE00-22-238198	00-235	57	South	9–10	QBT3	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-711	—	—
RE00-22-238199	00-235	57	South	12–13	QBT3	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-711	—	—
RE00-22-238200	00-236	60	South	13–14	QBT3	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-711	—	—
RE00-22-238201	00-236	60	South	16–17	QBT3	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-711	—	—
RE00-22-238202	00-237	62	South	8.5–9.5	QBT3	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-711	—	—
RE00-22-238203	00-237	62	South	11.5–12.5	QBT3	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-711	—	—
RE00-22-238204	00-238	63	South	4–5	QBT3	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-711	—	—
RE00-22-238205	00-238	63	South	7–8	QBT3	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-711	—	—
RE00-22-238206	00-239	67	South	6.5–7.5	QBT3	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-711	—	—
RE00-22-238207	00-239	67	South	9.5–10.5	QBT3	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-753	N3B-2022-754
RE00-22-238208	00-240	68	South	5–6	QBT3	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-711	—	—
RE00-22-238209	00-240	68	South	8–9	QBT3	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-711	—	—
RE00-22-238226	00-249	5	North	8–9	QBT3	N3B-2022-653	N3B-2022-653	N3B-2022-653	N3B-2022-653	N3B-2022-653	N3B-2022-653	N3B-2022-653	—	—
RE00-22-238227	00-249	5	North	11–12	QBT3	N3B-2022-653	N3B-2022-653	N3B-2022-653	N3B-2022-653	N3B-2022-653	N3B-2022-653	N3B-2022-653	—	—
RE00-22-238237	00-254	15	North	7–8	QBT3	N3B-2022-832	N3B-2022-832	N3B-2022-832	N3B-2022-832	N3B-2022-832	N3B-2022-832	N3B-2022-832	—	—
RE00-22-238238	00-255	93	South	0–1	FILL	N3B-2022-532	N3B-2022-532	N3B-2022-532	N3B-2022-532	N3B-2022-532	N3B-2022-532	N3B-2022-532	—	—
RE00-22-238239	00-255	93	South	4–5	FILL	N3B-2022-532	N3B-2022-532	N3B-2022-532	N3B-2022-532	N3B-2022-532	N3B-2022-532	N3B-2022-532	—	—

Table 3.1-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	TAL Metals	Mercury	Perchlorate	Cyanide (total)	Nitrate/Nitrite	VOCs	SVOCs	PCBs	Dioxins/Furans
RE00-22-238240	00-255	93	South	7.5–8.5	QBT3	N3B-2022-532	N3B-2022-532	N3B-2022-532	N3B-2022-532	N3B-2022-532	N3B-2022-532	N3B-2022-532	—	—
RE00-22-238242	00-256	14	North	7.3–8.3	QBT3	N3B-2022-626	N3B-2022-626	N3B-2022-626	N3B-2022-626	N3B-2022-626	N3B-2022-626	N3B-2022-626	—	—
RE00-22-239164	00-257	6	North	6.1–7.1	QBT3	N3B-2022-753	N3B-2022-753	N3B-2022-753	N3B-2022-753	N3B-2022-753	N3B-2022-753	N3B-2022-753	—	—
RE00-22-238248	00-259	75	South	0–1	FILL	N3B-2022-580	N3B-2022-580	N3B-2022-580	N3B-2022-580	N3B-2022-580	N3B-2022-580	N3B-2022-580	—	—
RE00-22-238249	00-259	75	South	3–4	FILL	N3B-2022-580	N3B-2022-580	N3B-2022-580	N3B-2022-580	N3B-2022-580	N3B-2022-580	N3B-2022-580	—	—
RE00-22-238250	00-259	75	South	6.9–7.9	QBT3	N3B-2022-580	N3B-2022-580	N3B-2022-580	N3B-2022-580	N3B-2022-580	N3B-2022-580	N3B-2022-580	—	—
RE00-22-238251	00-260	88	South	0–1	FILL	N3B-2022-628	N3B-2022-628	N3B-2022-628	N3B-2022-628	N3B-2022-628	N3B-2022-628	N3B-2022-628	—	—
RE00-22-238252	00-260	88	South	5–6	QBT3	N3B-2022-628	N3B-2022-628	N3B-2022-628	N3B-2022-628	N3B-2022-628	N3B-2022-628	N3B-2022-628	—	—
RE00-22-238253	00-261	56A	North	0–1	ALLH	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-697	—	—
RE00-22-238254	00-261	56A	North	3–4	ALLH	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-697	—	—
RE00-22-238255	00-261	56A	North	11.6–12.6	QBT3	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-697	—	—
RE00-22-238273	00-61519	16	North	0–1	FILL	N3B-2022-627	N3B-2022-627	N3B-2022-627	N3B-2022-627	N3B-2022-627	N3B-2022-627	N3B-2022-627	—	—
RE00-22-238278	00-61519	16	North	3–4	ALLH	N3B-2022-627	N3B-2022-627	N3B-2022-627	N3B-2022-627	N3B-2022-627	N3B-2022-627	N3B-2022-627	—	—
RE00-22-238283	00-61519	16	North	12–13	QBT3	N3B-2022-832	N3B-2022-832	N3B-2022-832	N3B-2022-832	N3B-2022-832	N3B-2022-832	N3B-2022-832	—	—
RE00-22-238274	00-61520	94	South	0–1	FILL	N3B-2022-532	N3B-2022-532	N3B-2022-532	N3B-2022-532	N3B-2022-532	N3B-2022-532	N3B-2022-532	—	—
RE00-22-238279	00-61520	94	South	4–5	FILL	N3B-2022-532	N3B-2022-532	N3B-2022-532	N3B-2022-532	N3B-2022-532	N3B-2022-532	N3B-2022-532	—	—
RE00-22-238284	00-61520	94	South	9.1–9.9	QBT3	N3B-2022-532	N3B-2022-532	N3B-2022-532	N3B-2022-532	N3B-2022-532	N3B-2022-532	N3B-2022-532	—	—
RE00-22-238287	00-61523	74	South	0–1	ALLH	N3B-2022-571	N3B-2022-571	N3B-2022-571	N3B-2022-571	N3B-2022-571	N3B-2022-571	N3B-2022-571	—	—
RE00-22-238282	00-61523	74	South	4–5	ALLH	N3B-2022-571	N3B-2022-571	N3B-2022-571	N3B-2022-571	N3B-2022-571	N3B-2022-571	N3B-2022-571	—	—
RE00-22-238277	00-61523	74	South	8–9	QBT3	N3B-2022-579	N3B-2022-579	N3B-2022-579	N3B-2022-579	N3B-2022-579	N3B-2022-579	N3B-2022-579	—	—
RE00-22-238290	00-61526	56	South	0–1	FILL	N3B-2022-532	N3B-2022-532	N3B-2022-532	N3B-2022-532	N3B-2022-532	N3B-2022-532	N3B-2022-532	—	—
RE00-22-238295	00-61526	56	South	3.5–4	FILL	N3B-2022-532	N3B-2022-532	N3B-2022-532	N3B-2022-532	N3B-2022-532	N3B-2022-532	N3B-2022-532	—	—
RE00-22-238300	00-61526	56	South	6–7	FILL	N3B-2022-532	N3B-2022-532	N3B-2022-532	N3B-2022-532	N3B-2022-532	N3B-2022-532	N3B-2022-532	—	—
RE00-22-238305	00-61526	56	South	9.6–10.1	QBT3	N3B-2022-532	N3B-2022-532	N3B-2022-532	N3B-2022-532	N3B-2022-532	N3B-2022-532	N3B-2022-532	—	—
RE00-22-238292	00-61528	65	South	0–1	FILL	N3B-2022-603	N3B-2022-603	N3B-2022-603	N3B-2022-603	N3B-2022-603	N3B-2022-603	N3B-2022-603	—	—
RE00-22-238297	00-61528	65	South	3–4	FILL	N3B-2022-603	N3B-2022-603	N3B-2022-603	N3B-2022-603	N3B-2022-603	N3B-2022-603	N3B-2022-603	—	—
RE00-22-238302	00-61528	65	South	6–7	FILL	N3B-2022-622	N3B-2022-622	N3B-2022-622	N3B-2022-622	N3B-2022-622	N3B-2022-622	N3B-2022-622	—	—
RE00-22-238307	00-61528	65	South	9–10	QBT3	N3B-2022-622	N3B-2022-622	N3B-2022-622	N3B-2022-622	N3B-2022-622	N3B-2022-622	N3B-2022-622	—	—
RE00-22-239217	00-61546	19	North	0–1	FILL	N3B-2022-642	N3B-2022-642	N3B-2022-642	N3B-2022-642	N3B-2022-642	N3B-2022-642	N3B-2022-642	—	—
RE00-22-239227	00-61546	19	North	4–5	ALLH	N3B-2022-642	N3B-2022-642	N3B-2022-642	N3B-2022-642	N3B-2022-642	N3B-2022-642	N3B-2022-642	—	—
RE00-22-239237	00-61546	19	North	5.75–6.8	QBT3	N3B-2022-647	N3B-2022-647	N3B-2022-647	N3B-2022-647	N3B-2022-647	N3B-2022-647	N3B-2022-647	N3B-2022-1207	N3B-2022-1208
RE00-22-239218	00-61547	55A	North	0–1	ALLH	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-1213	N3B-2022-1216
RE00-22-239228	00-61547	55A	North	3–4	ALLH	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-1207	N3B-2022-1208
RE00-22-239238	00-61547	55A	North	11.9–12.9	QBT3	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-1207	N3B-2022-1208
RE00-22-239221	00-61550	58A	South	0–1	ALLH	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-1207	N3B-2022-1208

Table 3.1-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	TAL Metals	Mercury	Perchlorate	Cyanide (total)	Nitrate/Nitrite	VOCs	SVOCs	PCBs	Dioxins/Furans
RE00-22-239231	00-61550	58A	South	3–4	ALLH	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-1207	N3B-2022-1208
RE00-22-239241	00-61550	58A	South	8–9	QBT3	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-697	—	—
RE00-22-239224	00-61553	54A	North	0–1	ALLH	N3B-2022-742	N3B-2022-742	N3B-2022-742	N3B-2022-742	N3B-2022-742	N3B-2022-742	N3B-2022-742	—	—
RE00-22-239234	00-61553	54A	North	4–5	ALLH	N3B-2022-742	N3B-2022-742	N3B-2022-742	N3B-2022-742	N3B-2022-742	N3B-2022-742	N3B-2022-742	N3B-2022-1207	N3B-2022-1208
RE00-22-239244	00-61553	54A	North	6.9–7.9	QBT3	N3B-2022-742	N3B-2022-742	N3B-2022-742	N3B-2022-742	N3B-2022-742	N3B-2022-742	N3B-2022-742	N3B-2022-1207	N3B-2022-1208
RE00-22-248888	00-61568	29 5NE	South	0–1	ALLH	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1210	N3B-2022-1212
RE00-22-248889	00-61568	29 5NE	South	4–5	ALLH	N3B-2022-1213	N3B-2022-1213	N3B-2022-1213	N3B-2022-1213	N3B-2022-1213	N3B-2022-1213	N3B-2022-1213	N3B-2022-1210	N3B-2022-1212
RE00-22-248890	00-61568	29 5NE	South	7–8	QBT3	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1210	N3B-2022-1212
RE00-22-248891	00-61569	29 5S	North	0–1	ALLH	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1210	N3B-2022-1212
RE00-22-248892	00-61569	29 5S	North	4–5	ALLH	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1211	N3B-2022-1215
RE00-22-248893	00-61569	29 5S	North	7–8	QBT3	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1211	N3B-2022-1215
RE00-22-249057	00-61569	29 5S	North	9–10	QBT3	N3B-2022-1542	N3B-2022-1542	N3B-2022-1542	N3B-2022-1542	N3B-2022-1542	N3B-2022-1542	N3B-2022-1542	N3B-2022-1211	N3B-2022-1215
RE00-22-249058	00-61569	29 5S	North	11–12	QBT3	N3B-2022-1542	N3B-2022-1542	N3B-2022-1542	N3B-2022-1542	N3B-2022-1542	N3B-2022-1542	N3B-2022-1542	N3B-2022-1211	N3B-2022-1215
RE00-22-248894	00-61570	29 5SE	North	0–1	ALLH	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1211	N3B-2022-1215
RE00-22-248895	00-61570	29 5SE	North	4–5	ALLH	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1211	N3B-2022-1215
RE00-22-248896	00-61570	29 5SE	North	7–8	QBT3	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	—	—
RE00-22-248897	00-61571	22 5E	North	0–1	ALLH	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	—	—
RE00-22-248898	00-61571	22 5E	North	4–5	ALLH	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	—	—
RE00-22-248899	00-61571	22 5E	North	11.9–12.9	QBT3	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	—	—
RE00-22-248900	00-61572	92 5E	South	0–1	ALLH	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	—	—
RE00-22-248901	00-61572	92 5E	South	3–4	ALLH	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	—	—
RE00-22-248902	00-61572	92 5E	South	7.7–8.7	QBT3	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	—	—
RE00-22-248903	00-61573	92 5N	South	0–1	ALLH	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	—	—
RE00-22-248904	00-61573	92 5N	South	3–4	ALLH	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	—	—
RE00-22-248905	00-61573	92 5N	South	7.7–8.7	QBT3	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	—	—
RE00-22-248906	00-61574	56A 5E	North	0–1	ALLH	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	—	—
RE00-22-248907	00-61574	56A 5E	North	3–4	ALLH	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	—	—
RE00-22-248908	00-61574	56A 5E	North	11.6–12.6	QBT3	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	—	—
RE00-22-248909	00-61575	56A 5N	North	0–1	ALLH	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	—	—
RE00-22-248910	00-61575	56A 5N	North	3–4	ALLH	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	—	—
RE00-22-248911	00-61575	56A 5N	North	11.6–12.6	QBT3	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	—	—
RE00-22-248912	00-61576	56A 5W	North	0–1	ALLH	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	—	—
RE00-22-248913	00-61576	56A 5W	North	3–4	ALLH	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	—	—
RE00-22-248914	00-61576	56A 5W	North	11.6–12.6	QBT3	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	—	—
RE00-22-248915	00-61577	56A 5S	North	0–1	ALLH	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	—	—

Table 3.1-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	TAL Metals	Mercury	Perchlorate	Cyanide (total)	Nitrate/Nitrite	VOCs	SVOCs	PCBs	Dioxins/Furans
RE00-22-248916	00-61577	56A 5S	North	3–4	ALLH	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	—	—
RE00-22-248917	00-61577	56A 5S	North	11.6–12.6	QBT3	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	—	—
RE00-22-248930	00-61581	2 5S	North	6.5–7.5	QBT3	N3B-2022-1223	N3B-2022-1223	N3B-2022-1223	N3B-2022-1223	N3B-2022-1223	N3B-2022-1223	N3B-2022-1223	—	—
RE00-22-248979	00-61582	2 5SE	North	8.5–9.5	QBT3	N3B-2022-1521	N3B-2022-1521	N3B-2022-1521	N3B-2022-1521	N3B-2022-1521	N3B-2022-1521	N3B-2022-1521	—	—
RE00-22-248982	00-61582	2 5SE	North	10.5–11.5	QBT3	N3B-2022-1521	N3B-2022-1521	N3B-2022-1521	N3B-2022-1521	N3B-2022-1521	N3B-2022-1521	N3B-2022-1521	—	—
RE00-22-248934	00-61583	58 5E	South	0–1	ALLH	N3B-2022-1223	N3B-2022-1223	N3B-2022-1223	N3B-2022-1223	N3B-2022-1223	N3B-2022-1223	N3B-2022-1223	—	—
RE00-22-248935	00-61583	58 5E	South	4–5	ALLH	N3B-2022-1223	N3B-2022-1223	N3B-2022-1223	N3B-2022-1223	N3B-2022-1223	N3B-2022-1223	N3B-2022-1223	—	—
RE00-22-248936	00-61583	58 5E	South	7–8	QBT3	N3B-2022-1223	N3B-2022-1223	N3B-2022-1223	N3B-2022-1223	N3B-2022-1223	N3B-2022-1223	N3B-2022-1223	—	—
RE00-22-255298	00-61584	58 5SW	South	13–14	ALLH	N3B-2022-2795	N3B-2022-2795	N3B-2022-2795	N3B-2022-2795	N3B-2022-2795	N3B-2022-2795	N3B-2022-2795	—	—
RE00-22-248943	00-61586	94 5S	South	0–1	ALLH	N3B-2022-1224	N3B-2022-1224	N3B-2022-1224	N3B-2022-1224	N3B-2022-1224	N3B-2022-1224	N3B-2022-1224	—	—
RE00-22-248944	00-61586	94 5S	South	4–5	ALLH	N3B-2022-1237	N3B-2022-1237	N3B-2022-1237	N3B-2022-1237	N3B-2022-1237	N3B-2022-1237	N3B-2022-1237	N3B-2022-1213	N3B-2022-1216
RE00-22-248945	00-61586	94 5S	South	9.1–9.9	QBT3	N3B-2022-1224	N3B-2022-1224	N3B-2022-1224	N3B-2022-1224	N3B-2022-1224	N3B-2022-1224	N3B-2022-1224	N3B-2022-1207	N3B-2022-1208
RE00-22-248946	00-61587	94 5E	South	0–1	ALLH	N3B-2022-1224	N3B-2022-1224	N3B-2022-1224	N3B-2022-1224	N3B-2022-1224	N3B-2022-1224	N3B-2022-1224	N3B-2022-1207	N3B-2022-1208
RE00-22-248947	00-61587	94 5E	South	4–5	ALLH	N3B-2022-1224	N3B-2022-1224	N3B-2022-1224	N3B-2022-1224	N3B-2022-1224	N3B-2022-1224	N3B-2022-1224	N3B-2022-1207	N3B-2022-1208
RE00-22-248948	00-61587	94 5E	South	9.1–9.9	QBT3	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	—	—
RE00-22-249009	00-61587	94 5E	South	10.9–11.9	QBT3	N3B-2022-1566	N3B-2022-1566	N3B-2022-1566	N3B-2022-1566	N3B-2022-1566	N3B-2022-1566	N3B-2022-1566	—	—
RE00-22-249010	00-61587	94 5E	South	12.9–13.9	QBT3	N3B-2022-1566	N3B-2022-1566	N3B-2022-1566	N3B-2022-1566	N3B-2022-1566	N3B-2022-1566	N3B-2022-1566	—	—
RE00-22-248949	00-61588	94 5W	South	0–1	ALLH	N3B-2022-1224	N3B-2022-1224	N3B-2022-1224	N3B-2022-1224	N3B-2022-1224	N3B-2022-1224	N3B-2022-1224	—	—
RE00-22-248950	00-61588	94 5W	South	4–5	ALLH	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	—	—
RE00-22-248951	00-61588	94 5W	South	9.1–9.9	QBT3	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	—	—
RE00-22-248952	00-61589	29 5W	North	0–1	ALLH	N3B-2022-1213	N3B-2022-1213	N3B-2022-1213	N3B-2022-1213	N3B-2022-1213	N3B-2022-1213	N3B-2022-1213	—	—
RE00-22-248953	00-61589	29 5W	North	4–5	ALLH	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	—	—
RE00-22-248954	00-61589	29 5W	North	7–8	QBT3	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	—	—
RE00-22-248955	00-61589	29 5W	North	11.5–12.5	QBT3	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	—	—
RE00-22-248956	00-61590	95 5W	South	0–1	ALLH	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	—	—
RE00-22-248957	00-61590	95 5W	South	3–4	ALLH	N3B-2022-1250	N3B-2022-1250	N3B-2022-1250	N3B-2022-1250	N3B-2022-1250	N3B-2022-1250	N3B-2022-1250	—	—
RE00-22-248958	00-61590	95 5W	South	6–7	QBT3	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	—	—
RE00-22-248960	00-61591	1 5S	North	3–4	ALLH	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	—	—
RE00-22-248961	00-61591	1 5S	North	6–7	QBT3	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	—	—
RE00-22-248962	00-61592	1 5SW	North	0–1	ALLH	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1210	N3B-2022-1212
RE00-22-248963	00-61592	1 5SW	North	3–4	ALLH	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1210	N3B-2022-1212
RE00-22-248964	00-61592	1 5SW	North	6–7	QBT3	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1210	N3B-2022-1212
RE00-22-248965	00-61593	1 5NE	North	0–1	ALLH	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	—	—
RE00-22-248966	00-61593	1 5NE	North	3–4	ALLH	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	—	—
RE00-22-248967	00-61593	1 5NE	North	6–7	QBT3	N3B-2022-1250	N3B-2022-1250	N3B-2022-1250	N3B-2022-1250	N3B-2022-1250	N3B-2022-1250	N3B-2022-1250	—	—

Table 3.1-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	TAL Metals	Mercury	Perchlorate	Cyanide (total)	Nitrate/Nitrite	VOCs	SVOCs	PCBs	Dioxins/Furans
RE00-22-248968	00-61594	1 5NW	North	0–1	ALLH	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	—	—
RE00-22-248969	00-61594	1 5NW	North	3–4	ALLH	N3B-2022-1248	N3B-2022-1248	N3B-2022-1248	N3B-2022-1248	N3B-2022-1248	N3B-2022-1248	N3B-2022-1248	—	—
RE00-22-248970	00-61594	1 5NW	North	6–7	QBT3	N3B-2022-1250	N3B-2022-1250	N3B-2022-1250	N3B-2022-1250	N3B-2022-1250	N3B-2022-1250	N3B-2022-1250	—	—
RE00-22-248985	00-61599	2 10N	North	6.5–7.5	QBT3	N3B-2022-1521	N3B-2022-1521	N3B-2022-1521	N3B-2022-1521	N3B-2022-1521	N3B-2022-1521	N3B-2022-1521	—	—
RE00-22-248986	00-61600	22 5NE	North	0–1	ALLH	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	—	—
RE00-22-248987	00-61600	22 5NE	North	4–5	ALLH	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	—	—
RE00-22-248988	00-61600	22 5NE	North	11.9–12.9	QBT3	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	N3B-2022-1211	N3B-2022-1215
RE00-22-248989	00-61601	56A 10W	North	0–1	ALLH	N3B-2022-1521	N3B-2022-1521	N3B-2022-1521	N3B-2022-1521	N3B-2022-1521	N3B-2022-1521	N3B-2022-1521	N3B-2022-1211	N3B-2022-1215
RE00-22-248990	00-61601	56A 10W	North	3–4	ALLH	N3B-2022-1521	N3B-2022-1521	N3B-2022-1521	N3B-2022-1521	N3B-2022-1521	N3B-2022-1521	N3B-2022-1521	N3B-2022-1211	N3B-2022-1215
RE00-22-248991	00-61601	56A 10W	North	11.6–12.6	QBT3	N3B-2022-1542	N3B-2022-1542	N3B-2022-1542	N3B-2022-1542	N3B-2022-1542	N3B-2022-1542	N3B-2022-1542	—	—
RE00-22-248992	00-61602	94 10SE	South	0–1	ALLH	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	—	—
RE00-22-248993	00-61602	94 10SE	South	4–5	ALLH	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	—	—
RE00-22-248994	00-61602	94 10SE	South	9.1–9.9	QBT3	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	—	—
RE00-22-249013	00-61609	94 10S	South	0–1	ALLH	N3B-2022-1619	N3B-2022-1619	N3B-2022-1619	N3B-2022-1619	N3B-2022-1619	N3B-2022-1619	N3B-2022-1619	—	—
RE00-22-249014	00-61609	94 10S	South	4–5	ALLH	N3B-2022-1542	N3B-2022-1542	N3B-2022-1542	N3B-2022-1542	N3B-2022-1542	N3B-2022-1542	N3B-2022-1542	—	—
RE00-22-249015	00-61609	94 10S	South	9.1–9.9	QBT3	N3B-2022-1571	N3B-2022-1571	N3B-2022-1571	N3B-2022-1571	N3B-2022-1571	N3B-2022-1571	N3B-2022-1571	—	—
RE00-22-249019	00-61611	92 5NW	South	0–1	ALLH	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	—	—
RE00-22-249020	00-61611	92 5NW	South	3–4	ALLH	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	—	—
RE00-22-249021	00-61611	92 5NW	South	7.7–8.7	QBT3	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1566	N3B-2022-1570
RE00-22-249022	00-61612	22 10E	North	0–1	ALLH	N3B-2022-1426	N3B-2022-1426	N3B-2022-1426	N3B-2022-1426	N3B-2022-1426	N3B-2022-1426	N3B-2022-1426	N3B-2022-1596	N3B-2022-1600
RE00-22-249023	00-61612	22 10E	North	4–5	ALLH	N3B-2022-1426	N3B-2022-1426	N3B-2022-1426	N3B-2022-1426	N3B-2022-1426	N3B-2022-1426	N3B-2022-1426	—	—
RE00-22-249024	00-61612	22 10E	North	11.9–12.9	QBT3	N3B-2022-1426	N3B-2022-1426	N3B-2022-1426	N3B-2022-1426	N3B-2022-1426	N3B-2022-1426	N3B-2022-1426	—	—
RE00-22-249032	00-61616	27 5E	North	8.5–9.5	QBT3	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	—	—
RE00-22-249031	00-61616	27 5E	North	11.5–12.5	QBT3	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	—	—
RE00-22-249035	00-61618	2V	North	8–9	QBT3	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	N3B-2022-1210	N3B-2022-1212
RE00-22-249036	00-61618	2V	North	10–11	QBT3	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	—	—
RE00-22-249037	00-61619	58 5N	South	4–5	ALLH	N3B-2022-1224	N3B-2022-1224	N3B-2022-1224	N3B-2022-1224	N3B-2022-1224	N3B-2022-1224	N3B-2022-1224	—	—
RE00-22-249038	00-61619	58 5N	South	7–8	QBT3	N3B-2022-1224	N3B-2022-1224	N3B-2022-1224	N3B-2022-1224	N3B-2022-1224	N3B-2022-1224	N3B-2022-1224	—	—
RE00-22-249064	00-61619	58 5N	South	13.9–14.9	QBT3	N3B-2022-1566	N3B-2022-1566	N3B-2022-1566	N3B-2022-1566	N3B-2022-1566	N3B-2022-1566	N3B-2022-1566	—	—
RE00-22-249065	00-61619	58 5N	South	15.9–16.9	QBT3	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	—	—
RE00-22-249039	00-61620	00-196	North	9.5–10.5	QBT3	N3B-2022-1248	N3B-2022-1248	N3B-2022-1248	N3B-2022-1248	N3B-2022-1248	N3B-2022-1248	N3B-2022-1248	—	—
RE00-22-249040	00-61620	00-196	North	11.5–12.5	QBT3	N3B-2022-1248	N3B-2022-1248	N3B-2022-1248	N3B-2022-1248	N3B-2022-1248	N3B-2022-1248	N3B-2022-1248	N3B-2022-1542	N3B-2022-1543
RE00-22-249041	00-61621	00-61521	North	9–10	QBT3	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1542	N3B-2022-1543
RE00-22-249042	00-61621	00-61521	North	11–12	QBT3	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	—	—
RE00-22-249045	00-61622	22 5SE	North	11.9–12.9	QBT3	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	—	—

Table 3.1-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	TAL Metals	Mercury	Perchlorate	Cyanide (total)	Nitrate/Nitrite	VOCs	SVOCs	PCBs	Dioxins/Furans
RE00-22-249046	00-61623	17 5S	North	9–10	QBT3	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	—	—
RE00-22-249047	00-61623	17 5S	North	11–12	QBT3	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	—	—
RE00-22-249048	00-61624	00-212	North	8–9	QBT3	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1211	N3B-2022-1215
RE00-22-249049	00-61624	00-212	North	10–11	QBT3	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1207	N3B-2022-1208
RE00-22-249050	00-61625	00-61553	North	9–10	QBT3	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1207	N3B-2022-1208
RE00-22-249051	00-61625	00-61553	North	11–12	QBT3	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	—	—
RE00-22-249025	00-61625	00-61553	North	13–14	QBT3	N3B-2022-1542	N3B-2022-1542	N3B-2022-1542	N3B-2022-1542	N3B-2022-1542	N3B-2022-1542	N3B-2022-1542	—	—
RE00-22-249026	00-61625	00-61553	North	15–16	QBT3	N3B-2022-1542	N3B-2022-1542	N3B-2022-1542	N3B-2022-1542	N3B-2022-1542	N3B-2022-1542	N3B-2022-1542	—	—
RE00-22-249053	00-61626	27 5W	North	8.5–9.5	QBT3	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	—	—
RE00-22-249052	00-61626	27 5W	North	11.5–12.5	QBT3	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	—	—
RE00-22-249054	00-61627	27 5N	North	8.5–9.5	QBT3	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	—	—
RE00-22-249055	00-61627	27 5N	North	11.5–12.5	QBT3	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	—	—
RE00-22-249056	00-61628	92 5S	South	7.7–8.7	QBT3	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	—	—
RE00-22-249059	00-61630	00-210	North	9–10	QBT3	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	—	—
RE00-22-249060	00-61630	00-210	North	11–12	QBT3	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	—	—
RE00-22-250910	00-61651	2 10NW	North	0–1	ALLH	N3B-2022-1514	N3B-2022-1514	N3B-2022-1514	N3B-2022-1514	N3B-2022-1514	N3B-2022-1514	N3B-2022-1514	—	—
RE00-22-250911	00-61651	2 10NW	North	3–4	ALLH	N3B-2022-1514	N3B-2022-1514	N3B-2022-1514	N3B-2022-1514	N3B-2022-1514	N3B-2022-1514	N3B-2022-1514	—	—
RE00-22-250912	00-61651	2 10NW	North	6.5–7.5	QBT3	N3B-2022-1514	N3B-2022-1514	N3B-2022-1514	N3B-2022-1514	N3B-2022-1514	N3B-2022-1514	N3B-2022-1514	N3B-2022-1568	N3B-2022-1569
RE00-22-250916	00-61653	2 10SE	North	0–1	ALLH	N3B-2022-1514	N3B-2022-1514	N3B-2022-1514	N3B-2022-1514	N3B-2022-1514	N3B-2022-1514	N3B-2022-1514	N3B-2022-1568	N3B-2022-1569
RE00-22-250917	00-61653	2 10SE	North	3–4	ALLH	N3B-2022-1514	N3B-2022-1514	N3B-2022-1514	N3B-2022-1514	N3B-2022-1514	N3B-2022-1514	N3B-2022-1514	N3B-2022-1568	N3B-2022-1569
RE00-22-250918	00-61653	2 10SE	North	6.5–7.5	QBT3	N3B-2022-1514	N3B-2022-1514	N3B-2022-1514	N3B-2022-1514	N3B-2022-1514	N3B-2022-1514	N3B-2022-1514	—	—
RE00-22-250919	00-61654	1 10SW	North	0–1	ALLH	N3B-2022-1536	N3B-2022-1536	N3B-2022-1536	N3B-2022-1536	N3B-2022-1536	N3B-2022-1536	N3B-2022-1536	—	—
RE00-22-250920	00-61654	1 10SW	North	3–4	ALLH	N3B-2022-1536	N3B-2022-1536	N3B-2022-1536	N3B-2022-1536	N3B-2022-1536	N3B-2022-1536	N3B-2022-1536	—	—
RE00-22-250921	00-61654	1 10SW	North	6.5–7.5	QBT3	N3B-2022-1536	N3B-2022-1536	N3B-2022-1536	N3B-2022-1536	N3B-2022-1536	N3B-2022-1536	N3B-2022-1536	—	—
RE00-22-250922	00-61655	22 10SE	North	0–1	ALLH	N3B-2022-1536	N3B-2022-1536	N3B-2022-1536	N3B-2022-1536	N3B-2022-1536	N3B-2022-1536	N3B-2022-1536	—	—
RE00-22-250923	00-61655	22 10SE	North	4–5	ALLH	N3B-2022-1536	N3B-2022-1536	N3B-2022-1536	N3B-2022-1536	N3B-2022-1536	N3B-2022-1536	N3B-2022-1536	—	—
RE00-22-250924	00-61655	22 10SE	North	11.9–12.9	QBT3	N3B-2022-1536	N3B-2022-1536	N3B-2022-1536	N3B-2022-1536	N3B-2022-1536	N3B-2022-1536	N3B-2022-1536	—	—
RE00-22-250928	00-61657	22 10S	North	0–1	ALLH	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	—	—
RE00-22-250929	00-61657	22 10S	North	4–5	ALLH	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	—	—
RE00-22-250930	00-61657	22 10S	North	11.9–12.9	QBT3	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	—	—
RE00-22-250931	00-61658	56A 10S	North	0–1	ALLH	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	—	—
RE00-22-250932	00-61658	56A 10S	North	3–4	ALLH	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	—	—
RE00-22-250933	00-61658	56A 10S	North	11.6–12.6	QBT3	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	—	—
RE00-22-250934	00-61659	56A 10SE	North	0–1	ALLH	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	—	—
RE00-22-250935	00-61659	56A 10SE	North	3–4	ALLH	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	—	—

Table 3.1-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	TAL Metals	Mercury	Perchlorate	Cyanide (total)	Nitrate/Nitrite	VOCs	SVOCs	PCBs	Dioxins/Furans
RE00-22-250936	00-61659	56A 10SE	North	11.6–12.6	QBT3	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	—	—
RE00-22-250937	00-61660	56A 10SW	North	0–1	ALLH	N3B-2022-1567	N3B-2022-1567	N3B-2022-1567	N3B-2022-1567	N3B-2022-1567	N3B-2022-1567	N3B-2022-1567	—	—
RE00-22-250938	00-61660	56A 10SW	North	3–4	ALLH	N3B-2022-1567	N3B-2022-1567	N3B-2022-1567	N3B-2022-1567	N3B-2022-1567	N3B-2022-1567	N3B-2022-1567	—	—
RE00-22-250939	00-61660	56A 10SW	North	11.6–12.6	QBT3	N3B-2022-1567	N3B-2022-1567	N3B-2022-1567	N3B-2022-1567	N3B-2022-1567	N3B-2022-1567	N3B-2022-1567	—	—
RE00-22-250940	00-61661	94 10SW	South	0–1	ALLH	N3B-2022-1567	N3B-2022-1567	N3B-2022-1567	N3B-2022-1567	N3B-2022-1567	N3B-2022-1567	N3B-2022-1567	—	—
RE00-22-250941	00-61661	94 10SW	South	4–5	ALLH	N3B-2022-1567	N3B-2022-1567	N3B-2022-1567	N3B-2022-1567	N3B-2022-1567	N3B-2022-1567	N3B-2022-1567	—	—
RE00-22-250942	00-61661	94 10SW	South	9.1–9.9	QBT3	N3B-2022-1598	N3B-2022-1598	N3B-2022-1598	N3B-2022-1598	N3B-2022-1598	N3B-2022-1598	N3B-2022-1598	—	—
RE00-22-252842	00-61700	2 14N	North	6.5–7.5	QBT3	N3B-2022-1962	N3B-2022-1962	N3B-2022-1962	N3B-2022-1962	N3B-2022-1962	N3B-2022-1962	N3B-2022-1962	—	—
RE00-22-252845	00-61701	2 15NNE	North	6.5–7.5	QBT3	N3B-2022-1962	N3B-2022-1962	N3B-2022-1962	N3B-2022-1962	N3B-2022-1962	N3B-2022-1962	N3B-2022-1962	—	—
RE00-22-253161	00-61705	29 10S	North	0–1	ALLH	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	—	—
RE00-22-253162	00-61705	29 10S	North	4–5	ALLH	N3B-2022-2304	N3B-2022-2304	N3B-2022-2304	N3B-2022-2304	N3B-2022-2304	N3B-2022-2304	N3B-2022-2304	—	—
RE00-22-253163	00-61705	29 10S	North	7–8	ALLH	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	—	—
RE00-22-253164	00-61705	29 10S	North	9–10	ALLH	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	—	—
RE00-22-253165	00-61705	29 10S	North	11–12	QBT3	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	—	—
RE00-22-253167	00-61706	29 10WSW	North	0–1	ALLH	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	—	—
RE00-22-253168	00-61706	29 10WSW	North	4–5	ALLH	N3B-2022-2304	N3B-2022-2304	N3B-2022-2304	N3B-2022-2304	N3B-2022-2304	N3B-2022-2304	N3B-2022-2304	—	—
RE00-22-253169	00-61706	29 10WSW	North	7–8	QBT3	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	—	—
RE00-22-253170	00-61706	29 10WSW	North	9–10	QBT3	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	—	—
RE00-22-253171	00-61706	29 10WSW	North	11–12	QBT3	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	—	—
RE00-22-253172	00-61707	29 10SE	North	0–1	ALLH	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	—	—
RE00-22-253173	00-61707	29 10SE	North	4–5	ALLH	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	—	—
RE00-22-253174	00-61707	29 10SE	North	7–8	ALLH	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	—	—
RE00-22-253175	00-61707	29 10SE	North	9–10	ALLH	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	—	—
RE00-22-253176	00-61707	29 10SE	North	11–12	QBT3	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2197	N3B-2022-2201
RE00-22-253177	00-61708	29 15SW	North	0–1	ALLH	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2197	N3B-2022-2201
RE00-22-253178	00-61708	29 15SW	North	4–5	ALLH	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2220	N3B-2022-2221
RE00-22-253179	00-61708	29 15SW	North	7–8	QBT3	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2220	N3B-2022-2221
RE00-22-253180	00-61708	29 15SW	North	9–10	QBT3	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2220	N3B-2022-2221
RE00-22-253181	00-61708	29 15SW	North	11–12	QBT3	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2304	N3B-2022-2305
RE00-22-253182	00-61709	56A 5WV	North	13.6–14.6	QBT3	N3B-2022-2304	N3B-2022-2304	N3B-2022-2304	N3B-2022-2304	N3B-2022-2304	N3B-2022-2304	N3B-2022-2304	N3B-2022-2220	N3B-2022-2221
RE00-22-253184	00-61711	56A 10NW	North	0–1	ALLH	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2220	N3B-2022-2221
RE00-22-253185	00-61711	56A 10NW	North	3–4	ALLH	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2220	N3B-2022-2221
RE00-22-253186	00-61711	56A 10NW	North	11.6–12.6	QBT3	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	—	—
RE00-22-253190	00-61712	94 15SW	South	0–1	ALLH	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	—	—
RE00-22-253191	00-61712	94 15SW	South	4–5	ALLH	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	—	—

Table 3.1-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	TAL Metals	Mercury	Perchlorate	Cyanide (total)	Nitrate/Nitrite	VOCs	SVOCs	PCBs	Dioxins/Furans
RE00-22-253192	00-61712	94 15SW	South	9.1–9.9	QBT3	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	—	—
RE00-22-253193	00-61713	94 15WSW	South	0–1	ALLH	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	—	—
RE00-22-253194	00-61713	94 15WSW	South	4–5	ALLH	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	—	—
RE00-22-253195	00-61713	94 15WSW	South	9.1–9.9	ALLH	N3B-2022-2304	N3B-2022-2304	N3B-2022-2304	N3B-2022-2304	N3B-2022-2304	N3B-2022-2304	N3B-2022-2304	—	—
RE00-22-253196	00-61714	94 10W	South	0–1	ALLH	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	—	—
RE00-22-253197	00-61714	94 10W	South	4–5	ALLH	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	—	—
RE00-22-253198	00-61714	94 10W	South	9.1–9.9	QBT3	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	—	—
RE00-22-253202	00-61716	58 10S	South	0–1	ALLH	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	—	—
RE00-22-253203	00-61716	58 10S	South	4–5	QBT3	N3B-2022-2304	N3B-2022-2304	N3B-2022-2304	N3B-2022-2304	N3B-2022-2304	N3B-2022-2304	N3B-2022-2304	—	—
RE00-22-253204	00-61716	58 10S	South	7–8	QBT3	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	—	—
RE00-22-253205	00-61716	58 10S	South	9–10	QBT3	N3B-2022-2304	N3B-2022-2304	N3B-2022-2304	N3B-2022-2304	N3B-2022-2304	N3B-2022-2304	N3B-2022-2304	—	—
RE00-22-253206	00-61716	58 10S	South	11–12	QBT3	N3B-2022-2304	N3B-2022-2304	N3B-2022-2304	N3B-2022-2304	N3B-2022-2304	N3B-2022-2304	N3B-2022-2304	—	—
RE00-22-253207	00-61717	58 10SE	South	0–1	ALLH	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243	—	—
RE00-22-253208	00-61717	58 10SE	South	4–5	QBT3	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243	—	—
RE00-22-253209	00-61717	58 10SE	South	7–8	QBT3	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243	—	—
RE00-22-253210	00-61717	58 10SE	South	9–10	QBT3	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243	—	—
RE00-22-253211	00-61717	58 10SE	South	11–12	QBT3	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243	—	—
RE00-22-255274	00-61722	2 25ENE	North	0–1	ALLH	N3B-2022-3161	N3B-2022-3161	N3B-2022-3161	N3B-2022-3161	N3B-2022-3161	N3B-2022-3161	N3B-2022-3161	—	—
RE00-22-255275	00-61722	2 25ENE	North	3–4	ALLH	N3B-2022-3161	N3B-2022-3161	N3B-2022-3161	N3B-2022-3161	N3B-2022-3161	N3B-2022-3161	N3B-2022-3161	—	—
RE00-22-255276	00-61722	2 25ENE	North	6.5–7.5	QBT3	N3B-2022-3161	N3B-2022-3161	N3B-2022-3161	N3B-2022-3161	N3B-2022-3161	N3B-2022-3161	N3B-2022-3161	—	—
RE00-22-255285	00-61725	2 19N	North	6.5–7.5	QBT3	N3B-2022-3206	N3B-2022-3206	N3B-2022-3206	N3B-2022-3206	N3B-2022-3206	N3B-2022-3206	N3B-2022-3206	—	—
RE00-22-255286	00-61726	2 15NW	North	0–1	ALLH	N3B-2022-3206	N3B-2022-3206	N3B-2022-3206	N3B-2022-3206	N3B-2022-3206	N3B-2022-3206	N3B-2022-3206	—	—
RE00-22-255287	00-61726	2 15NW	North	3–4	ALLH	N3B-2022-3206	N3B-2022-3206	N3B-2022-3206	N3B-2022-3206	N3B-2022-3206	N3B-2022-3206	N3B-2022-3206	—	—
RE00-22-255288	00-61726	2 15NW	North	6.5–7.5	ALLH	N3B-2022-3206	N3B-2022-3206	N3B-2022-3206	N3B-2022-3206	N3B-2022-3206	N3B-2022-3206	N3B-2022-3206	—	—
RE00-22-255289	00-61727	2 20NW	North	0–1	ALLH	N3B-2023-30	N3B-2023-30	N3B-2023-30	N3B-2023-30	N3B-2023-30	N3B-2023-30	N3B-2023-30	—	—
RE00-22-255290	00-61727	2 20NW	North	3–4	ALLH	N3B-2023-30	N3B-2023-30	N3B-2023-30	N3B-2023-30	N3B-2023-30	N3B-2023-30	N3B-2023-30	—	—
RE00-22-255291	00-61727	2 20NW	North	6.5–7.5	ALLH	N3B-2023-30	N3B-2023-30	N3B-2023-30	N3B-2023-30	N3B-2023-30	N3B-2023-30	N3B-2023-30	—	—
RE00-22-255294	00-61728	2 24N	North	6.5–7.5	QBT3	N3B-2023-30	N3B-2023-30	N3B-2023-30	N3B-2023-30	N3B-2023-30	N3B-2023-30	N3B-2023-30	—	—
RE00-22-255295	00-61729	2 24NE	North	0–1	ALLH	N3B-2023-30	N3B-2023-30	N3B-2023-30	N3B-2023-30	N3B-2023-30	N3B-2023-30	N3B-2023-30	—	—
RE00-22-255296	00-61729	2 24NE	North	3–4	ALLH	N3B-2023-30	N3B-2023-30	N3B-2023-30	N3B-2023-30	N3B-2023-30	N3B-2023-30	N3B-2023-30	—	—
RE00-22-255297	00-61729	2 24NE	North	6.5–7.5	QBT3	N3B-2023-30	N3B-2023-30	N3B-2023-30	N3B-2023-30	N3B-2023-30	N3B-2023-30	N3B-2023-30	—	—
RE00-23-259861	00-61736	SE3	North	0–1	ALLH	N3B-2023-565	N3B-2023-565	N3B-2023-565	N3B-2023-565	N3B-2023-565	N3B-2023-565	N3B-2023-565	—	—
RE00-23-259862	00-61736	SE3	North	3–4	ALLH	N3B-2023-565	N3B-2023-565	N3B-2023-565	N3B-2023-565	N3B-2023-565	N3B-2023-565	N3B-2023-565	—	—
RE00-23-259863	00-61736	SE3	North	6.5–7.5	QBT3	N3B-2023-565	N3B-2023-565	N3B-2023-565	N3B-2023-565	N3B-2023-565	N3B-2023-565	N3B-2023-565	—	—
RE00-23-259864	00-61737	NE2	North	0–1	ALLH	N3B-2023-580	N3B-2023-580	N3B-2023-580	N3B-2023-580	N3B-2023-580	N3B-2023-580	N3B-2023-580	—	—

Table 3.1-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	TAL Metals	Mercury	Perchlorate	Cyanide (total)	Nitrate/Nitrite	VOCs	SVOCs	PCBs	Dioxins/Furans
RE00-23-259865	00-61737	NE2	North	3–4	ALLH	N3B-2023-580	N3B-2023-580	N3B-2023-580	N3B-2023-580	N3B-2023-580	N3B-2023-580	N3B-2023-580	—	—
RE00-23-259866	00-61737	NE2	North	6.5–7.5	QBT3	N3B-2023-580	N3B-2023-580	N3B-2023-580	N3B-2023-580	N3B-2023-580	N3B-2023-580	N3B-2023-580	—	—
RE00-23-259867	00-61738	NE1	North	0–1	ALLH	N3B-2023-580	N3B-2023-580	N3B-2023-580	N3B-2023-580	N3B-2023-580	N3B-2023-580	N3B-2023-580	—	—
RE00-23-259868	00-61738	NE1	North	3–4	ALLH	N3B-2023-580	N3B-2023-580	N3B-2023-580	N3B-2023-580	N3B-2023-580	N3B-2023-580	N3B-2023-580	N3B-2023-565	N3B-2023-585
RE00-23-259869	00-61738	NE1	North	6.5–7.5	QBT3	N3B-2023-580	N3B-2023-580	N3B-2023-580	N3B-2023-580	N3B-2023-580	N3B-2023-580	N3B-2023-580	N3B-2023-565	N3B-2023-585
RE00-23-282088	00-61739	NE6	North	17–18	QBT3	N3B-2023-2120	N3B-2023-2120	N3B-2023-2120	N3B-2023-2120	N3B-2023-2120	N3B-2023-2120	N3B-2023-2120	N3B-2023-565	N3B-2023-585
RE00-23-282089	00-61739	NE6	North	19–20	QBT3	N3B-2023-2120	N3B-2023-2120	N3B-2023-2120	N3B-2023-2120	N3B-2023-2120	N3B-2023-2120	N3B-2023-2120	N3B-2023-771	N3B-2023-772
RE00-23-259873	00-61740	2 25NW	North	0–1	ALLH	N3B-2023-621	N3B-2023-621	N3B-2023-621	N3B-2023-621	N3B-2023-621	N3B-2023-621	N3B-2023-621	N3B-2023-771	N3B-2023-772
RE00-23-259874	00-61740	2 25NW	North	3–4	ALLH	N3B-2023-621	N3B-2023-621	N3B-2023-621	N3B-2023-621	N3B-2023-621	N3B-2023-621	N3B-2023-621	N3B-2023-771	N3B-2023-772
RE00-23-259875	00-61740	2 25NW	North	6.5–7.5	QBT3	N3B-2023-621	N3B-2023-621	N3B-2023-621	N3B-2023-621	N3B-2023-621	N3B-2023-621	N3B-2023-621	—	—
RE00-23-259876	00-61741	N1	North	0–1	ALLH	N3B-2023-621	N3B-2023-621	N3B-2023-621	N3B-2023-621	N3B-2023-621	N3B-2023-621	N3B-2023-621	—	—
RE00-23-259877	00-61741	N1	North	3–4	ALLH	N3B-2023-621	N3B-2023-621	N3B-2023-621	N3B-2023-621	N3B-2023-621	N3B-2023-621	N3B-2023-621	—	—
RE00-23-259878	00-61741	N1	North	6.5–7.5	QBT3	N3B-2023-621	N3B-2023-621	N3B-2023-621	N3B-2023-621	N3B-2023-621	N3B-2023-621	N3B-2023-621	—	—
RE00-23-259882	00-61743	SE2	North	0–1	ALLH	N3B-2023-565	N3B-2023-565	N3B-2023-565	N3B-2023-565	N3B-2023-565	N3B-2023-565	N3B-2023-565	—	—
RE00-23-259883	00-61743	SE2	North	3–4	ALLH	N3B-2023-565	N3B-2023-565	N3B-2023-565	N3B-2023-565	N3B-2023-565	N3B-2023-565	N3B-2023-565	—	—
RE00-23-259884	00-61743	SE2	North	6.5–7.5	QBT3	N3B-2023-565	N3B-2023-565	N3B-2023-565	N3B-2023-565	N3B-2023-565	N3B-2023-565	N3B-2023-565	—	—
RE00-23-265182	00-61744	N2	North	0–1	ALLH	N3B-2023-771	N3B-2023-771	N3B-2023-771	N3B-2023-771	N3B-2023-771	N3B-2023-771	N3B-2023-771	—	—
RE00-23-265183	00-61744	N2	North	3–4	ALLH	N3B-2023-771	N3B-2023-771	N3B-2023-771	N3B-2023-771	N3B-2023-771	N3B-2023-771	N3B-2023-771	—	—
RE00-23-265184	00-61744	N2	North	6.5–7.5	QBT3	N3B-2023-771	N3B-2023-771	N3B-2023-771	N3B-2023-771	N3B-2023-771	N3B-2023-771	N3B-2023-771	—	—
RE00-23-265179	00-61745	NE10	North	0–1	ALLH	N3B-2023-749	N3B-2023-749	N3B-2023-749	N3B-2023-749	N3B-2023-749	N3B-2023-749	N3B-2023-749	—	—
RE00-23-265180	00-61745	NE10	North	3–4	ALLH	N3B-2023-749	N3B-2023-749	N3B-2023-749	N3B-2023-749	N3B-2023-749	N3B-2023-749	N3B-2023-749	—	—
RE00-23-264877	00-61745	NE10	North	6.5–7.5	QBT3	N3B-2023-650	N3B-2023-650	N3B-2023-650	N3B-2023-650	N3B-2023-650	N3B-2023-650	N3B-2023-650	N3B-2023-771	N3B-2023-772
RE00-23-264878	00-61746	N5	North	0–1	ALLH	N3B-2023-650	N3B-2023-650	N3B-2023-650	N3B-2023-650	N3B-2023-650	N3B-2023-650	N3B-2023-650	N3B-2023-771	N3B-2023-772
RE00-23-264879	00-61746	N5	North	3–4	ALLH	N3B-2023-650	N3B-2023-650	N3B-2023-650	N3B-2023-650	N3B-2023-650	N3B-2023-650	N3B-2023-650	N3B-2023-771	N3B-2023-772
RE00-23-264880	00-61746	N5	North	6.5–7.5	QBT3	N3B-2023-650	N3B-2023-650	N3B-2023-650	N3B-2023-650	N3B-2023-650	N3B-2023-650	N3B-2023-650	N3B-2023-749	N3B-2023-757
RE00-23-264881	00-61747	N4	North	0–1	ALLH	N3B-2023-650	N3B-2023-650	N3B-2023-650	N3B-2023-650	N3B-2023-650	N3B-2023-650	N3B-2023-650	N3B-2023-749	N3B-2023-757
RE00-23-264882	00-61747	N4	North	3–4	ALLH	N3B-2023-650	N3B-2023-650	N3B-2023-650	N3B-2023-650	N3B-2023-650	N3B-2023-650	N3B-2023-650	N3B-2023-749	N3B-2023-757
RE00-23-264883	00-61747	N4	North	6.5–7.5	QBT3	N3B-2023-650	N3B-2023-650	N3B-2023-650	N3B-2023-650	N3B-2023-650	N3B-2023-650	N3B-2023-650	—	—
RE00-23-264884	00-61748	NE4	North	0–1	ALLH	N3B-2023-664	N3B-2023-664	N3B-2023-664	N3B-2023-664	N3B-2023-664	N3B-2023-664	N3B-2023-664	—	—
RE00-23-264885	00-61748	NE4	North	3–4	ALLH	N3B-2023-664	N3B-2023-664	N3B-2023-664	N3B-2023-664	N3B-2023-664	N3B-2023-664	N3B-2023-664	—	—
RE00-23-264886	00-61748	NE4	North	6.5–7.5	ALLH	N3B-2023-664	N3B-2023-664	N3B-2023-664	N3B-2023-664	N3B-2023-664	N3B-2023-664	N3B-2023-664	—	—
RE00-23-265185	00-61749	N3	North	0–1	ALLH	N3B-2023-771	N3B-2023-771	N3B-2023-771	N3B-2023-771	N3B-2023-771	N3B-2023-771	N3B-2023-771	—	—
RE00-23-265186	00-61749	N3	North	3–4	ALLH	N3B-2023-771	N3B-2023-771	N3B-2023-771	N3B-2023-771	N3B-2023-771	N3B-2023-771	N3B-2023-771	—	—
RE00-23-265187	00-61749	N3	North	6.5–7.5	QBT3	N3B-2023-771	N3B-2023-771	N3B-2023-771	N3B-2023-771	N3B-2023-771	N3B-2023-771	N3B-2023-771	—	—
RE00-23-265188	00-61750	NE3	North	0–1	ALLH	N3B-2023-749	N3B-2023-749	N3B-2023-749	N3B-2023-749	N3B-2023-749	N3B-2023-749	N3B-2023-749	—	—

Table 3.1-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	TAL Metals	Mercury	Perchlorate	Cyanide (total)	Nitrate/Nitrite	VOCs	SVOCs	PCBs	Dioxins/Furans
RE00-23-265189	00-61750	NE3	North	3–4	ALLH	N3B-2023-749	N3B-2023-749	N3B-2023-749	N3B-2023-749	N3B-2023-749	N3B-2023-749	N3B-2023-749	—	—
RE00-23-265190	00-61750	NE3	North	6.5–7.5	QBT3	N3B-2023-749	N3B-2023-749	N3B-2023-749	N3B-2023-749	N3B-2023-749	N3B-2023-749	N3B-2023-749	—	—
RE00-23-264893	00-61751	2 20NEV	North	9–10	QBT3	N3B-2023-664	N3B-2023-664	N3B-2023-664	N3B-2023-664	N3B-2023-664	N3B-2023-664	N3B-2023-664	—	—
RE00-23-264894	00-61751	2 20NEV	North	11–12	QBT3	N3B-2023-664	N3B-2023-664	N3B-2023-664	N3B-2023-664	N3B-2023-664	N3B-2023-664	N3B-2023-664	—	—
RE00-23-264896	00-61752	N6	North	0–1	ALLH	N3B-2023-731	N3B-2023-731	N3B-2023-731	N3B-2023-731	N3B-2023-731	N3B-2023-731	N3B-2023-731	—	—
RE00-23-264897	00-61752	N6	North	3–4	ALLH	N3B-2023-731	N3B-2023-731	N3B-2023-731	N3B-2023-731	N3B-2023-731	N3B-2023-731	N3B-2023-731	—	—
RE00-23-264898	00-61752	N6	North	6.5–7.5	QBT3	N3B-2023-731	N3B-2023-731	N3B-2023-731	N3B-2023-731	N3B-2023-731	N3B-2023-731	N3B-2023-731	—	—
RE00-23-264899	00-61753	NE5	North	0–1	ALLH	N3B-2023-731	N3B-2023-731	N3B-2023-731	N3B-2023-731	N3B-2023-731	N3B-2023-731	N3B-2023-731	—	—
RE00-23-264900	00-61753	NE5	North	3–4	ALLH	N3B-2023-749	N3B-2023-749	N3B-2023-749	N3B-2023-749	N3B-2023-749	N3B-2023-749	N3B-2023-749	—	—
RE00-23-264901	00-61753	NE5	North	6.5–7.5	QBT3	N3B-2023-749	N3B-2023-749	N3B-2023-749	N3B-2023-749	N3B-2023-749	N3B-2023-749	N3B-2023-749	—	—
RE00-23-264902	00-61754	SE1V	North	9–10	QBT3	N3B-2023-1119	N3B-2023-1119	N3B-2023-1119	N3B-2023-1119	N3B-2023-1119	N3B-2023-1119	N3B-2023-1119	—	—
RE00-23-264903	00-61754	SE1V	North	11–12	QBT3	N3B-2023-1119	N3B-2023-1119	N3B-2023-1119	N3B-2023-1119	N3B-2023-1119	N3B-2023-1119	N3B-2023-1119	—	—
RE00-23-264908	00-61756	SE10	North	0–1	ALLH	N3B-2023-1479	N3B-2023-1479	N3B-2023-1479	N3B-2023-1479	N3B-2023-1479	N3B-2023-1479	N3B-2023-1479	—	—
RE00-23-264909	00-61756	SE10	North	3–4	ALLH	N3B-2023-1479	N3B-2023-1479	N3B-2023-1479	N3B-2023-1479	N3B-2023-1479	N3B-2023-1479	N3B-2023-1479	—	—
RE00-23-264910	00-61756	SE10	North	5–6	QBT3	N3B-2023-1479	N3B-2023-1479	N3B-2023-1479	N3B-2023-1479	N3B-2023-1479	N3B-2023-1479	N3B-2023-1479	—	—
RE00-23-267856	00-61757	SE4	North	0–1	ALLH	N3B-2023-1105	N3B-2023-1105	N3B-2023-1105	N3B-2023-1105	N3B-2023-1105	N3B-2023-1105	N3B-2023-1105	—	—
RE00-23-267857	00-61757	SE4	North	3–4	ALLH	N3B-2023-1105	N3B-2023-1105	N3B-2023-1105	N3B-2023-1105	N3B-2023-1105	N3B-2023-1105	N3B-2023-1105	—	—
RE00-23-267858	00-61757	SE4	North	6.5–7.5	QBT3	N3B-2023-1105	N3B-2023-1105	N3B-2023-1105	N3B-2023-1105	N3B-2023-1105	N3B-2023-1105	N3B-2023-1105	—	—
RE00-23-267859	00-61758	SE7	North	0–1	ALLH	N3B-2023-1105	N3B-2023-1105	N3B-2023-1105	N3B-2023-1105	N3B-2023-1105	N3B-2023-1105	N3B-2023-1105	—	—
RE00-23-267860	00-61758	SE7	North	3–4	ALLH	N3B-2023-1105	N3B-2023-1105	N3B-2023-1105	N3B-2023-1105	N3B-2023-1105	N3B-2023-1105	N3B-2023-1105	—	—
RE00-23-267861	00-61758	SE7	North	6.5–7.5	QBT3	N3B-2023-1105	N3B-2023-1105	N3B-2023-1105	N3B-2023-1105	N3B-2023-1105	N3B-2023-1105	N3B-2023-1105	—	—
RE00-23-267871	00-61762	NE7	North	0–1	ALLH	N3B-2023-1236	N3B-2023-1236	N3B-2023-1236	N3B-2023-1236	N3B-2023-1236	N3B-2023-1236	N3B-2023-1236	—	—
RE00-23-267872	00-61762	NE7	North	3–4	ALLH	N3B-2023-1236	N3B-2023-1236	N3B-2023-1236	N3B-2023-1236	N3B-2023-1236	N3B-2023-1236	N3B-2023-1236	—	—
RE00-23-267873	00-61762	NE7	North	6–7	QBT3	N3B-2023-1236	N3B-2023-1236	N3B-2023-1236	N3B-2023-1236	N3B-2023-1236	N3B-2023-1236	N3B-2023-1236	—	—
RE00-23-267874	00-61763	NE28	North	0–1	ALLH	N3B-2023-1328	N3B-2023-1328	N3B-2023-1328	N3B-2023-1328	N3B-2023-1328	N3B-2023-1328	N3B-2023-1328	—	—
RE00-23-267875	00-61763	NE28	North	3–4	ALLH	N3B-2023-1328	N3B-2023-1328	N3B-2023-1328	N3B-2023-1328	N3B-2023-1328	N3B-2023-1328	N3B-2023-1328	—	—
RE00-23-267876	00-61763	NE28	North	5–6	QBT3	N3B-2023-1328	N3B-2023-1328	N3B-2023-1328	N3B-2023-1328	N3B-2023-1328	N3B-2023-1328	N3B-2023-1328	—	—
RE00-23-267877	00-61764	NE23	North	0–1	ALLH	N3B-2023-1328	N3B-2023-1328	N3B-2023-1328	N3B-2023-1328	N3B-2023-1328	N3B-2023-1328	N3B-2023-1328	N3B-2023-1442	N3B-2023-1444
RE00-23-267878	00-61764	NE23	North	3–4	ALLH	N3B-2023-1328	N3B-2023-1328	N3B-2023-1328	N3B-2023-1328	N3B-2023-1328	N3B-2023-1328	N3B-2023-1328	N3B-2023-1442	N3B-2023-1444
RE00-23-267879	00-61764	NE23	North	5–6	QBT3	N3B-2023-1328	N3B-2023-1328	N3B-2023-1328	N3B-2023-1328	N3B-2023-1328	N3B-2023-1328	N3B-2023-1328	—	—
RE00-23-267882	00-61765	NE24	North	5–6	QBT3	N3B-2023-1328	N3B-2023-1328	N3B-2023-1328	N3B-2023-1328	N3B-2023-1328	N3B-2023-1328	N3B-2023-1328	—	—
RE00-23-267886	00-61767	NE26	North	0–1	ALLH	N3B-2023-1374	N3B-2023-1374	N3B-2023-1374	N3B-2023-1374	N3B-2023-1374	N3B-2023-1374	N3B-2023-1374	—	—
RE00-23-267887	00-61767	NE26	North	3–4	ALLH	N3B-2023-1374	N3B-2023-1374	N3B-2023-1374	N3B-2023-1374	N3B-2023-1374	N3B-2023-1374	N3B-2023-1374	—	—
RE00-23-267888	00-61767	NE26	North	5–6	QBT3	N3B-2023-1374	N3B-2023-1374	N3B-2023-1374	N3B-2023-1374	N3B-2023-1374	N3B-2023-1374	N3B-2023-1374	—	—
RE00-23-267889	00-61768	NE29	North	0.5–1.5	ALLH	N3B-2023-1396	N3B-2023-1396	N3B-2023-1396	N3B-2023-1396	N3B-2023-1396	N3B-2023-1396	N3B-2023-1396	—	—

Table 3.1-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	TAL Metals	Mercury	Perchlorate	Cyanide (total)	Nitrate/Nitrite	VOCs	SVOCs	PCBs	Dioxins/Furans
RE00-23-267890	00-61768	NE29	North	3.5–4.5	QBT3	N3B-2023-1396	N3B-2023-1396	N3B-2023-1396	N3B-2023-1396	N3B-2023-1396	N3B-2023-1396	N3B-2023-1396	—	—
RE00-23-267891	00-61768	NE29	North	5.5–6.5	QBT3	N3B-2023-1396	N3B-2023-1396	N3B-2023-1396	N3B-2023-1396	N3B-2023-1396	N3B-2023-1396	N3B-2023-1396	—	—
RE00-23-271182	00-61775	NE34	North	3.5–4.5	QBT3	N3B-2023-1442	N3B-2023-1442	N3B-2023-1442	N3B-2023-1442	N3B-2023-1442	N3B-2023-1442	N3B-2023-1442	—	—
RE00-23-271183	00-61775	NE34	North	5.5–6.5	QBT3	N3B-2023-1442	N3B-2023-1442	N3B-2023-1442	N3B-2023-1442	N3B-2023-1442	N3B-2023-1442	N3B-2023-1442	—	—
RE00-23-271187	00-61776	NE25	North	5–6	QBT3	N3B-2023-1425	N3B-2023-1425	N3B-2023-1425	N3B-2023-1425	N3B-2023-1425	N3B-2023-1425	N3B-2023-1425	—	—
RE00-23-271191	00-61778	NE37	North	2–4	ALLH	N3B-2023-1472	N3B-2023-1472	N3B-2023-1472	N3B-2023-1472	N3B-2023-1472	N3B-2023-1472	N3B-2023-1472	—	—
RE00-23-271192	00-61778	NE37	North	4–5	QBT3	N3B-2023-1472	N3B-2023-1472	N3B-2023-1472	N3B-2023-1472	N3B-2023-1472	N3B-2023-1472	N3B-2023-1472	—	—
RE00-23-271196	00-61779	SE11	North	6.5–7.5	QBT3	N3B-2023-1507	N3B-2023-1507	N3B-2023-1507	N3B-2023-1507	N3B-2023-1507	N3B-2023-1507	N3B-2023-1507	—	—
RE00-23-271197	00-61780	NE20	North	0–1	ALLH	N3B-2023-1774	N3B-2023-1774	N3B-2023-1774	N3B-2023-1774	N3B-2023-1774	N3B-2023-1774	N3B-2023-1774	—	—
RE00-23-271198	00-61780	NE20	North	3–4	ALLH	N3B-2023-1774	N3B-2023-1774	N3B-2023-1774	N3B-2023-1774	N3B-2023-1774	N3B-2023-1774	N3B-2023-1774	—	—
RE00-23-271199	00-61780	NE20	North	6.5–7.5	QBT3	N3B-2023-1774	N3B-2023-1774	N3B-2023-1774	N3B-2023-1774	N3B-2023-1774	N3B-2023-1774	N3B-2023-1774	—	—
RE00-23-271200	00-61781	NE21	North	0–1	ALLH	N3B-2023-1785	N3B-2023-1785	N3B-2023-1785	N3B-2023-1785	N3B-2023-1785	N3B-2023-1785	N3B-2023-1785	—	—
RE00-23-271201	00-61781	NE21	North	3–4	ALLH	N3B-2023-1785	N3B-2023-1785	N3B-2023-1785	N3B-2023-1785	N3B-2023-1785	N3B-2023-1785	N3B-2023-1785	—	—
RE00-23-271202	00-61781	NE21	North	6.5–7.5	ALLH	N3B-2023-1785	N3B-2023-1785	N3B-2023-1785	N3B-2023-1785	N3B-2023-1785	N3B-2023-1785	N3B-2023-1785	—	—
RE00-23-271203	00-61782	NE54	North	0–1	ALLH	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	—	—
RE00-23-271204	00-61782	NE54	North	3–4	ALLH	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1507	N3B-2023-1509
RE00-23-271205	00-61782	NE54	North	6.5–7.5	QBT3	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1507	N3B-2023-1509
RE00-23-271206	00-61783	NE53	North	0–1	ALLH	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1507	N3B-2023-1509
RE00-23-271207	00-61783	NE53	North	3–4	ALLH	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	—	—
RE00-23-271208	00-61783	NE53	North	6.5–7.5	QBT3	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	—	—
RE00-23-271209	00-61784	SE14	North	0–1	ALLH	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	—	—
RE00-23-271210	00-61784	SE14	North	3–4	ALLH	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	—	—
RE00-23-271211	00-61784	SE14	North	5–6	QBT3	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	—	—
RE00-23-271212	00-61785	SE13	North	2–3	ALLH	N3B-2023-1842	N3B-2023-1842	N3B-2023-1842	N3B-2023-1842	N3B-2023-1842	N3B-2023-1842	N3B-2023-1842	—	—
RE00-23-271213	00-61785	SE13	North	4–5	QBT3	N3B-2023-1842	N3B-2023-1842	N3B-2023-1842	N3B-2023-1842	N3B-2023-1842	N3B-2023-1842	N3B-2023-1842	—	—
RE00-23-271215	00-61786	SE12	North	0–1	ALLH	N3B-2023-1507	N3B-2023-1507	N3B-2023-1507	N3B-2023-1507	N3B-2023-1507	N3B-2023-1507	N3B-2023-1507	N3B-2023-1785	N3B-2023-1787
RE00-23-271216	00-61786	SE12	North	3–4	ALLH	N3B-2023-1507	N3B-2023-1507	N3B-2023-1507	N3B-2023-1507	N3B-2023-1507	N3B-2023-1507	N3B-2023-1507	N3B-2023-1785	N3B-2023-1787
RE00-23-271217	00-61786	SE12	North	11–12	QBT3	N3B-2023-1507	N3B-2023-1507	N3B-2023-1507	N3B-2023-1507	N3B-2023-1507	N3B-2023-1507	N3B-2023-1507	N3B-2023-1785	N3B-2023-1787
RE00-23-271218	00-61787	SE15	North	0–1	ALLH	N3B-2023-1842	N3B-2023-1842	N3B-2023-1842	N3B-2023-1842	N3B-2023-1842	N3B-2023-1842	N3B-2023-1842	N3B-2023-1842	N3B-2023-1846
RE00-23-271219	00-61787	SE15	North	3–4	ALLH	N3B-2023-1842	N3B-2023-1842	N3B-2023-1842	N3B-2023-1842	N3B-2023-1842	N3B-2023-1842	N3B-2023-1842	N3B-2023-1842	N3B-2023-1846
RE00-23-271220	00-61787	SE15	North	11.5–12.5	QBT3	N3B-2023-1842	N3B-2023-1842	N3B-2023-1842	N3B-2023-1842	N3B-2023-1842	N3B-2023-1842	N3B-2023-1842	N3B-2023-1861	N3B-2023-1863
RE00-23-271227	00-61790	NE45	North	0.5–1.5	ALLH	N3B-2023-1873	N3B-2023-1873	N3B-2023-1873	N3B-2023-1873	N3B-2023-1873	N3B-2023-1873	N3B-2023-1873	N3B-2023-1861	N3B-2023-1863
RE00-23-271228	00-61790	NE45	North	2.5–3.5	QBT3	N3B-2023-1873	N3B-2023-1873	N3B-2023-1873	N3B-2023-1873	N3B-2023-1873	N3B-2023-1873	N3B-2023-1873	—	—
RE00-23-271230	00-61791	NE47	North	1–2	ALLH	N3B-2023-1873	N3B-2023-1873	N3B-2023-1873	N3B-2023-1873	N3B-2023-1873	N3B-2023-1873	N3B-2023-1873	—	—
RE00-23-271231	00-61791	NE47	North	2.5–3.5	QBT3	N3B-2023-1873	N3B-2023-1873	N3B-2023-1873	N3B-2023-1873	N3B-2023-1873	N3B-2023-1873	N3B-2023-1873	—	—

Table 3.1-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	TAL Metals	Mercury	Perchlorate	Cyanide (total)	Nitrate/Nitrite	VOCs	SVOCs	PCBs	Dioxins/Furans
RE00-23-271233	00-61792	NE55	North	0–1	ALLH	N3B-2023-1785	N3B-2023-1785	N3B-2023-1785	N3B-2023-1785	N3B-2023-1785	N3B-2023-1785	N3B-2023-1785	—	—
RE00-23-271234	00-61792	NE55	North	3–4	ALLH	N3B-2023-1785	N3B-2023-1785	N3B-2023-1785	N3B-2023-1785	N3B-2023-1785	N3B-2023-1785	N3B-2023-1785	—	—
RE00-23-271235	00-61792	NE55	North	6.5–7.5	QBT3	N3B-2023-1785	N3B-2023-1785	N3B-2023-1785	N3B-2023-1785	N3B-2023-1785	N3B-2023-1785	N3B-2023-1785	—	—
RE00-23-271236	00-61793	NE38	North	3–4	ALLH	N3B-2023-1842	N3B-2023-1842	N3B-2023-1842	N3B-2023-1842	N3B-2023-1842	N3B-2023-1842	N3B-2023-1842	N3B-2023-2732	N3B-2023-2733
RE00-23-271237	00-61793	NE38	North	5–6	QBT3	N3B-2023-1842	N3B-2023-1842	N3B-2023-1842	N3B-2023-1842	N3B-2023-1842	N3B-2023-1842	N3B-2023-1842	—	—
RE00-23-271239	00-61794	NE39	North	0.5–1.5	ALLH	N3B-2023-1861	N3B-2023-1861	N3B-2023-1861	N3B-2023-1861	N3B-2023-1861	N3B-2023-1861	N3B-2023-1861	N3B-2023-2732	N3B-2023-2733
RE00-23-271240	00-61794	NE39	North	2–3	QBT3	N3B-2023-1861	N3B-2023-1861	N3B-2023-1861	N3B-2023-1861	N3B-2023-1861	N3B-2023-1861	N3B-2023-1861	—	—
RE00-23-271242	00-61795	NE48	North	3.5–4.5	QBT3	N3B-2023-1886	N3B-2023-1886	N3B-2023-1886	N3B-2023-1886	N3B-2023-1886	N3B-2023-1886	N3B-2023-1886	—	—
RE00-23-271243	00-61795	NE48	North	5.5–6.5	QBT3	N3B-2023-1886	N3B-2023-1886	N3B-2023-1886	N3B-2023-1886	N3B-2023-1886	N3B-2023-1886	N3B-2023-1886	—	—
RE00-23-271248	00-61797	NE56	North	0–1	ALLH	N3B-2023-1976	N3B-2023-1976	N3B-2023-1976	N3B-2023-1976	N3B-2023-1976	N3B-2023-1976	N3B-2023-1976	—	—
RE00-23-271249	00-61797	NE56	North	2–3	QBT3	N3B-2023-1976	N3B-2023-1976	N3B-2023-1976	N3B-2023-1976	N3B-2023-1976	N3B-2023-1976	N3B-2023-1976	—	—
RE00-23-282091	00-61799	NE60	North	0–1	ALLH	N3B-2023-2081	N3B-2023-2081	N3B-2023-2081	N3B-2023-2081	N3B-2023-2081	N3B-2023-2081	N3B-2023-2081	—	—
RE00-23-282092	00-61799	NE60	North	2–3	QBT3	N3B-2023-2081	N3B-2023-2081	N3B-2023-2081	N3B-2023-2081	N3B-2023-2081	N3B-2023-2081	N3B-2023-2081	—	—
RE00-23-289091	00-61804	NE68	North	0–1	ALLH	N3B-2023-2732	—	N3B-2023-2732	N3B-2023-2732	N3B-2023-2732	—	—	—	—
RE00-23-291181	00-61804	NE68	North	0–1	ALLH	—	N3B-2023-3206	—	—	—	N3B-2023-3206	N3B-2023-3206	N3B-2023-2820	N3B-2023-2821
RE00-23-289092	00-61804	NE68	North	2–3	QBT3	N3B-2023-2732	—	N3B-2023-2732	N3B-2023-2732	N3B-2023-2732	—	—	—	—
RE00-23-291182	00-61804	NE68	North	2–3	QBT3	—	N3B-2023-3206	—	—	—	N3B-2023-3206	N3B-2023-3206	N3B-2023-2820	N3B-2023-2821
RE00-23-289873	00-61805	NE64	North	18–19	QBT3	N3B-2023-2924	—	N3B-2023-2924	N3B-2023-2924	N3B-2023-2924	—	—	—	—
RE00-23-282118	00-61808	NE66	North	0–1	ALLH	N3B-2023-2238	N3B-2023-2238	N3B-2023-2238	N3B-2023-2238	N3B-2023-2238	N3B-2023-2238	N3B-2023-2238	—	—
RE00-23-282119	00-61808	NE66	North	2–3	QBT3	N3B-2023-2238	N3B-2023-2238	N3B-2023-2238	N3B-2023-2238	N3B-2023-2238	N3B-2023-2238	N3B-2023-2238	—	—
RE00-23-289205	00-61811	NE67	North	0–1	ALLH	N3B-2023-2732	—	N3B-2023-2732	N3B-2023-2732	N3B-2023-2732	—	—	—	—
RE00-23-291184	00-61811	NE67	North	0–1	ALLH	—	N3B-2023-3206	—	—	—	N3B-2023-3206	N3B-2023-3206	—	—
RE00-23-289206	00-61811	NE67	North	2–3	QBT3	N3B-2023-2732	—	N3B-2023-2732	N3B-2023-2732	N3B-2023-2732	—	—	—	—
RE00-23-291185	00-61811	NE67	North	2–3	QBT3	—	N3B-2023-3206	—	—	—	N3B-2023-3206	N3B-2023-3206	—	—
RE00-23-289519	00-61813	NE80	North	0–1	ALLH	N3B-2023-2820	—	N3B-2023-2820	N3B-2023-2820	N3B-2023-2820	—	—	—	—
RE00-23-291186	00-61813	NE80	North	0–1	ALLH	—	N3B-2023-3203	—	—	—	N3B-2023-3203	N3B-2023-3203	—	—
RE00-23-289520	00-61813	NE80	North	2–3	ALLH	N3B-2023-2820	—	N3B-2023-2820	N3B-2023-2820	N3B-2023-2820	—	—	N3B-2023-3003	N3B-2023-3004
RE00-23-291187	00-61813	NE80	North	2–3	ALLH	—	N3B-2023-3203	—	—	—	N3B-2023-3203	N3B-2023-3203	—	—
RE00-23-289510	00-61815	NE74	North	0–1	ALLH	N3B-2023-2801	N3B-2023-2801	N3B-2023-2801	N3B-2023-2801	N3B-2023-2801	N3B-2023-2801	N3B-2023-2801	N3B-2023-3003	N3B-2023-3004
RE00-23-289511	00-61815	NE74	North	2–3	ALLH	N3B-2023-2801	N3B-2023-2801	N3B-2023-2801	N3B-2023-2801	N3B-2023-2801	N3B-2023-2801	N3B-2023-2801	—	—
RE00-23-289513	00-61816	NE79	North	0–1	ALLH	N3B-2023-2801	N3B-2023-2801	N3B-2023-2801	N3B-2023-2801	N3B-2023-2801	N3B-2023-2801	N3B-2023-2801	N3B-2023-3003	N3B-2023-3004
RE00-23-289514	00-61816	NE79	North	2–3	ALLH	N3B-2023-2801	N3B-2023-2801	N3B-2023-2801	N3B-2023-2801	N3B-2023-2801	N3B-2023-2801	N3B-2023-2801	—	—
RE00-23-289516	00-61817	NE81	North	0–1	ALLH	N3B-2023-2820	—	N3B-2023-2820	N3B-2023-2820	N3B-2023-2820	—	—	—	—
RE00-23-291188	00-61817	NE81	North	0–1	ALLH	—	N3B-2023-3203	—	—	—	N3B-2023-3203	N3B-2023-3203	—	—
RE00-23-289517	00-61817	NE81	North	2–3	QBT3	N3B-2023-2820	—	N3B-2023-2820	N3B-2023-2820	N3B-2023-2820	—	—	—	—

Table 3.1-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	TAL Metals	Mercury	Perchlorate	Cyanide (total)	Nitrate/Nitrite	VOCs	SVOCs	PCBs	Dioxins/Furans
RE00-23-291189	00-61817	NE81	North	2–3	QBT3	—	N3B-2023-3203	—	—	—	N3B-2023-3203	N3B-2023-3203	—	—
RE00-23-290099	00-61818	NE82	North	0–1	ALLH	N3B-2023-3003	—	N3B-2023-3003	N3B-2023-3003	N3B-2023-3003	—	—	—	—
RE00-23-291190	00-61818	NE82	North	0–1	ALLH	—	N3B-2023-3203	—	—	—	N3B-2023-3203	N3B-2023-3203	—	—
RE00-23-290100	00-61818	NE82	North	2–3	ALLH	N3B-2023-3003	—	N3B-2023-3003	N3B-2023-3003	N3B-2023-3003	—	—	—	—
RE00-23-291191	00-61818	NE82	North	2–3	ALLH	—	N3B-2023-3203	—	—	—	N3B-2023-3203	N3B-2023-3203	—	—
RE00-23-290101	00-61818	NE82	North	4–5	QBT3	N3B-2023-3003	—	N3B-2023-3003	N3B-2023-3003	N3B-2023-3003	—	—	—	—
RE00-23-291192	00-61818	NE82	North	4–5	QBT3	—	N3B-2023-3203	—	—	—	N3B-2023-3203	N3B-2023-3203	—	—

Table 3.1-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Explosive Compounds	Gamma-Emitting Radionuclides	Americium-241	Isotopic Plutonium	Isotopic Thorium	Isotopic Uranium	Strontium-90	Tritium	Technetium-99
RE00-22-238042	00-171	4	North	7.5–8.5	QBT3	—	N3B-2022-668	N3B-2022-668	N3B-2022-668	N3B-2022-1489	N3B-2022-668	N3B-2022-668	N3B-2022-668	N3B-2022-1489
RE00-22-238043	00-171	4	North	10.5–11.5	QBT3	—	N3B-2022-668	N3B-2022-668	N3B-2022-668	N3B-2022-1489	N3B-2022-668	N3B-2022-668	N3B-2022-668	N3B-2022-1489
RE00-22-238046	00-173	9	North	6.5–7.5	QBT3	—	N3B-2022-680	N3B-2022-680	N3B-2022-680	N3B-2022-1489	N3B-2022-680	N3B-2022-680	N3B-2022-680	N3B-2022-1489
RE00-22-238047	00-173	9	North	9.5–10.5	QBT3	—	N3B-2022-680	N3B-2022-680	N3B-2022-680	N3B-2022-1489	N3B-2022-680	N3B-2022-680	N3B-2022-680	N3B-2022-1489
RE00-22-238051	00-175	23	North	6.9–7.9	QBT3	—	N3B-2022-680	N3B-2022-680	N3B-2022-680	N3B-2022-1489	N3B-2022-680	N3B-2022-680	N3B-2022-680	N3B-2022-1489
RE00-22-238052	00-175	23	North	9.9–10.9	QBT3	—	N3B-2022-680	N3B-2022-680	N3B-2022-680	N3B-2022-1489	N3B-2022-680	N3B-2022-680	N3B-2022-680	N3B-2022-1489
RE00-22-238056	00-177	11	North	9–10	QBT3	—	N3B-2022-668	N3B-2022-668	N3B-2022-668	N3B-2022-1489	N3B-2022-668	N3B-2022-668	N3B-2022-668	N3B-2022-1489
RE00-22-238057	00-177	11	North	12–13	QBT3	—	N3B-2022-668	N3B-2022-668	N3B-2022-668	N3B-2022-1489	N3B-2022-668	N3B-2022-668	N3B-2022-668	N3B-2022-1489
RE00-22-238061	00-179	8	North	8.5–9.5	QBT3	—	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-1490	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-1490
RE00-22-238062	00-179	8	North	11.5–12.5	QBT3	—	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-1490	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-1490
RE00-22-238066	00-181	13	North	8–9	QBT3	—	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-1490	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-1490
RE00-22-238067	00-181	13	North	11–12	QBT3	—	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-1490	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-1490
RE00-22-238071	00-183	10	North	11–12	QBT3	—	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-1490	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-1490
RE00-22-238072	00-183	10	North	14–15	QBT3	—	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-1490	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-1490
RE00-22-238075	00-184	1	North	6–7	QBT3	—	N3B-2022-832	N3B-2022-832	N3B-2022-832	N3B-2022-1496	N3B-2022-832	N3B-2022-832	N3B-2022-832	N3B-2022-1496
RE00-22-238076	00-185	24	North	6.5–7.5	QBT3	—	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-1490	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-1490
RE00-22-238077	00-185	24	North	9.5–10.5	QBT3	—	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-1490	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-1490
RE00-22-238078	00-186	97	South	0–1	ALLH	—	N3B-2022-477	N3B-2022-477	N3B-2022-477	N3B-2022-1483	N3B-2022-477	N3B-2022-477	N3B-2022-477	N3B-2022-1483
RE00-22-238079	00-186	97	South	3–4	ALLH	—	N3B-2022-477	N3B-2022-477	N3B-2022-477	N3B-2022-1483	N3B-2022-477	N3B-2022-477	N3B-2022-477	N3B-2022-1483
RE00-22-238080	00-186	97	South	6.5–7.5	QBT3	—	N3B-2022-477	N3B-2022-477	N3B-2022-477	N3B-2022-1483	N3B-2022-477	N3B-2022-477	N3B-2022-477	N3B-2022-1483
RE00-22-238081	00-187	21	North	8–9	QBT3	—	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-1490	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-1490
RE00-22-238082	00-187	21	North	11–12	QBT3	—	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-1490	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-1490
RE00-22-238090	00-190	90	South	6–7	QBT3	—	N3B-2022-514	N3B-2022-514	N3B-2022-514	N3B-2022-1484	N3B-2022-514	N3B-2022-514	N3B-2022-514	N3B-2022-1484
RE00-22-238093	00-190	90	South	13–14	QBT3	—	N3B-2022-828	N3B-2022-828	N3B-2022-828	N3B-2022-1496	N3B-2022-828	N3B-2022-828	N3B-2022-828	N3B-2022-1496
RE00-22-238094	00-192	91	South	0–1	FILL	—	N3B-2022-514	N3B-2022-514	N3B-2022-514	N3B-2022-1484	N3B-2022-514	N3B-2022-514	N3B-2022-514	N3B-2022-1484
RE00-22-238095	00-192	91	South	7.5–8.5	QBT3	—	N3B-2022-514	N3B-2022-514	N3B-2022-514	N3B-2022-1484	N3B-2022-514	N3B-2022-514	N3B-2022-514	N3B-2022-1484
RE00-22-238096	00-193	98	North	9.5–10.5	QBT3	—	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-1490	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-1490
RE00-22-238097	00-193	98	North	12.5–13.5	QBT3	—	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-1490	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-1490
RE00-22-238100	00-195	25	North	8.5–9.5	QBT3	—	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-1490	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-1490
RE00-22-238101	00-195	25	North	11.5–12.5	QBT3	—	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-1490	N3B-2022-679	N3B-2022-679	N3B-2022-679	N3B-2022-1490

Table 3.1-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Explosive Compounds	Gamma-Emitting Radionuclides	Americium-241	Isotopic Plutonium	Isotopic Thorium	Isotopic Uranium	Strontium-90	Tritium	Technetium-99
RE00-22-238103	00-196	3	North	3.3–4.5	FILL	N3B-2022-491	N3B-2022-491	N3B-2022-491	N3B-2022-491	N3B-2022-1484	N3B-2022-491	N3B-2022-491	N3B-2022-491	N3B-2022-1484
RE00-22-238104	00-196	3	North	7.5–8.5	QBT3	N3B-2022-491	N3B-2022-491	N3B-2022-491	N3B-2022-491	N3B-2022-1484	N3B-2022-491	N3B-2022-491	N3B-2022-491	N3B-2022-1484
RE00-22-238105	00-197	27	North	8.5–9.5	QBT3	—	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-1490	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-1490
RE00-22-238106	00-197	27	North	11.5–12.5	QBT3	—	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-1491	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-1491
RE00-22-238107	00-198	99	South	0–1	ALLH	N3B-2022-477	N3B-2022-477	N3B-2022-477	N3B-2022-477	N3B-2022-1484	N3B-2022-477	N3B-2022-477	N3B-2022-477	N3B-2022-1484
RE00-22-238108	00-198	99	South	3–4	ALLH	N3B-2022-477	N3B-2022-477	N3B-2022-477	N3B-2022-477	N3B-2022-1484	N3B-2022-477	N3B-2022-477	N3B-2022-477	N3B-2022-1484
RE00-22-238109	00-198	99	South	6–7.1	QBT3	N3B-2022-491	N3B-2022-491	N3B-2022-491	N3B-2022-491	N3B-2022-1484	N3B-2022-491	N3B-2022-491	N3B-2022-491	N3B-2022-1484
RE00-22-238110	00-199	28	North	12.5–13.5	QBT3	—	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-1491	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-1491
RE00-22-238111	00-199	28	North	15.5–16.5	QBT3	—	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-1491	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-1491
RE00-22-238112	00-200	66	South	0–1	FILL	N3B-2022-628	N3B-2022-628	N3B-2022-628	N3B-2022-628	N3B-2022-1487	N3B-2022-628	N3B-2022-628	N3B-2022-628	N3B-2022-1487
RE00-22-238113	00-200	66	South	4–5	FILL	N3B-2022-628	N3B-2022-628	N3B-2022-628	N3B-2022-628	N3B-2022-1487	N3B-2022-628	N3B-2022-628	N3B-2022-628	N3B-2022-1487
RE00-22-238114	00-200	66	South	6.1–7.1	QBT3	N3B-2022-628	N3B-2022-628	N3B-2022-628	N3B-2022-628	N3B-2022-1487	N3B-2022-628	N3B-2022-628	N3B-2022-628	N3B-2022-1487
RE00-22-238115	00-201	89	South	7.5–8.5	QBT3	—	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-1491	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-1491
RE00-22-238116	00-201	89	South	10.5–11.5	QBT3	—	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-1491	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-1491
RE00-22-238117	00-202	92	South	0–1	FILL	N3B-2022-628	N3B-2022-628	N3B-2022-628	N3B-2022-628	N3B-2022-1487	N3B-2022-628	N3B-2022-628	N3B-2022-628	N3B-2022-1487
RE00-22-238118	00-202	92	South	3–4	FILL	N3B-2022-628	N3B-2022-628	N3B-2022-628	N3B-2022-628	N3B-2022-1487	N3B-2022-628	N3B-2022-628	N3B-2022-628	N3B-2022-1487
RE00-22-238119	00-202	92	South	7.7–8.7	QBT3	N3B-2022-628	N3B-2022-628	N3B-2022-628	N3B-2022-628	N3B-2022-1487	N3B-2022-628	N3B-2022-628	N3B-2022-628	N3B-2022-1487
RE00-22-238120	00-203	86	South	10–11	QBT3	—	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-1491	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-1491
RE00-22-238121	00-203	86	South	13–14	QBT3	—	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-1491	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-1491
RE00-22-238122	00-204	57A	South	0–1	ALLH	N3B-2022-695	N3B-2022-695	N3B-2022-695	N3B-2022-695	N3B-2022-1491	N3B-2022-695	N3B-2022-695	N3B-2022-695	N3B-2022-1491
RE00-22-238123	00-204	57A	South	3–4	ALLH	N3B-2022-695	N3B-2022-695	N3B-2022-695	N3B-2022-695	N3B-2022-1491	N3B-2022-695	N3B-2022-695	N3B-2022-695	N3B-2022-1491
RE00-22-238124	00-204	57A	South	7.9–8.9	QBT3	N3B-2022-695	N3B-2022-695	N3B-2022-695	N3B-2022-695	N3B-2022-1491	N3B-2022-695	N3B-2022-695	N3B-2022-695	N3B-2022-1491
RE00-22-238125	00-205	72	South	13–14	QBT3	—	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-1491	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-1491
RE00-22-238126	00-205	72	South	16–17	QBT3	—	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-1491	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-1491
RE00-22-238129	00-206	18	North	7.8–8.8	QBT3	N3B-2022-642	N3B-2022-642	N3B-2022-642	N3B-2022-642	N3B-2022-1488	N3B-2022-642	N3B-2022-642	N3B-2022-642	N3B-2022-1488
RE00-22-239668	00-206	18	North	7.8–8.8	QBT3	—	—	—	—	—	—	—	—	—
RE00-22-238130	00-207	71	South	10–11	QBT3	—	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-1491	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-1491
RE00-22-238131	00-207	71	South	13–14	QBT3	—	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-1492	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-1492
RE00-22-238132	00-208	70	South	0–1	FILL	N3B-2022-580	N3B-2022-580	N3B-2022-580	N3B-2022-580	N3B-2022-1486	N3B-2022-580	N3B-2022-580	N3B-2022-580	N3B-2022-1486
RE00-22-238133	00-208	70	South	4–5	ALLH	N3B-2022-828	N3B-2022-828	N3B-2022-828	N3B-2022-828	N3B-2022-1496	N3B-2022-828	N3B-2022-828	N3B-2022-828	N3B-2022-1496
RE00-22-238134	00-208	70	South	9–10	QBT3	N3B-2022-828	N3B-2022-828	N3B-2022-828	N3B-2022-828	N3B-2022-1496	N3B-2022-828	N3B-2022-828	N3B-2022-828	N3B-2022-1496
RE00-22-238135	00-209	76	South	13–14	QBT3	—	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-1492	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-1492
RE00-22-238136	00-209	76	South	16–17	QBT3	—	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-1492	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-1492
RE00-22-238139	00-210	29	North	0–1.4	FILL	N3B-2022-579	N3B-2022-579	N3B-2022-579	N3B-2022-579	N3B-2022-1486	N3B-2022-579	N3B-2022-579	N3B-2022-579	N3B-2022-1486
RE00-22-238138	00-210	29	North	4–5	ALLH	N3B-2022-579	N3B-2022-579	N3B-2022-579	N3B-2022-579	N3B-2022-1486	N3B-2022-579	N3B-2022-579	N3B-2022-579	N3B-2022-1486

Table 3.1-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Explosive Compounds	Gamma-Emitting Radionuclides	Americium-241	Isotopic Plutonium	Isotopic Thorium	Isotopic Uranium	Strontium-90	Tritium	Technetium-99
RE00-22-238137	00-210	29	North	7–8	QBT3	N3B-2022-579	N3B-2022-579	N3B-2022-579	N3B-2022-579	N3B-2022-1486	N3B-2022-579	N3B-2022-579	N3B-2022-579	N3B-2022-1486
RE00-22-238140	00-211	82	South	14.5–15.5	QBT3	—	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-1491	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-1491
RE00-22-238141	00-211	82	South	17.5–18.5	QBT3	—	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-1491	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-1491
RE00-22-238142	00-212	20	North	0–1	FILL	N3B-2022-667	N3B-2022-667	N3B-2022-667	N3B-2022-667	N3B-2022-1489	N3B-2022-667	N3B-2022-667	N3B-2022-667	N3B-2022-1489
RE00-22-238143	00-212	20	North	4–5	ALLH	N3B-2022-667	N3B-2022-667	N3B-2022-667	N3B-2022-667	N3B-2022-1489	N3B-2022-667	N3B-2022-667	N3B-2022-667	N3B-2022-1489
RE00-22-238144	00-212	20	North	6.2–7.2	QBT3	N3B-2022-668	N3B-2022-668	N3B-2022-668	N3B-2022-668	N3B-2022-1489	N3B-2022-668	N3B-2022-668	N3B-2022-668	N3B-2022-1489
RE00-22-238145	00-213	79	South	12–13	QBT3	—	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-1491	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-1491
RE00-22-238146	00-213	79	South	15–16	QBT3	—	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-1491	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-1491
RE00-22-238147	00-214	26	North	0–1	FILL	N3B-2022-647	N3B-2022-647	N3B-2022-647	N3B-2022-647	N3B-2022-1489	N3B-2022-647	N3B-2022-647	N3B-2022-647	N3B-2022-1489
RE00-22-238148	00-214	26	North	4–5	ALLH	N3B-2022-647	N3B-2022-647	N3B-2022-647	N3B-2022-647	N3B-2022-1489	N3B-2022-647	N3B-2022-647	N3B-2022-647	N3B-2022-1489
RE00-22-238149	00-214	26	North	6.8–7.8	QBT3	N3B-2022-647	N3B-2022-647	N3B-2022-647	N3B-2022-647	N3B-2022-2337	N3B-2022-647	N3B-2022-647	N3B-2022-647	N3B-2022-1489
RE00-22-238150	00-215	12	North	7.5–8.5	QBT3	—	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-1491	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-1491
RE00-22-238151	00-215	12	North	10.5–11.5	QBT3	—	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-1491	N3B-2022-682	N3B-2022-682	N3B-2022-682	N3B-2022-1491
RE00-22-238152	00-216	83	South	12–13	QBT3	—	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-1492	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-1492
RE00-22-238153	00-216	83	South	15–16	QBT3	—	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-1492	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-1492
RE00-22-238154	00-217	80	South	12–13	QBT3	—	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-1492	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-1492
RE00-22-238155	00-217	80	South	15–16	QBT3	—	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-1492	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-1492
RE00-22-238156	00-218	22	North	0–1	FILL	N3B-2022-626	N3B-2022-626	N3B-2022-626	N3B-2022-626	N3B-2022-1488	N3B-2022-626	N3B-2022-626	N3B-2022-626	N3B-2022-1488
RE00-22-238157	00-218	22	North	4–5	FILL	N3B-2022-626	N3B-2022-626	N3B-2022-626	N3B-2022-626	N3B-2022-1488	N3B-2022-626	N3B-2022-626	N3B-2022-626	N3B-2022-1488
RE00-22-238158	00-218	22	North	11.9–12.9	QBT3	N3B-2022-626	N3B-2022-626	N3B-2022-626	N3B-2022-626	N3B-2022-1488	N3B-2022-626	N3B-2022-626	N3B-2022-626	N3B-2022-1488
RE00-22-238159	00-219	87	South	8.5–9.5	QBT3	—	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-1492	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-1492
RE00-22-238160	00-219	87	South	11.5–12.5	QBT3	—	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-1492	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-1492
RE00-22-238161	00-220	85	South	0–1	FILL	N3B-2022-603	N3B-2022-603	N3B-2022-603	N3B-2022-603	N3B-2022-1487	N3B-2022-603	N3B-2022-603	N3B-2022-603	N3B-2022-1487
RE00-22-238162	00-220	85	South	3–4	FILL	N3B-2022-603	N3B-2022-603	N3B-2022-603	N3B-2022-603	N3B-2022-1486	N3B-2022-603	N3B-2022-603	N3B-2022-603	N3B-2022-1486
RE00-22-238163	00-220	85	South	4.9–5.9	QBT3	N3B-2022-603	N3B-2022-603	N3B-2022-603	N3B-2022-603	N3B-2022-1487	N3B-2022-603	N3B-2022-603	N3B-2022-603	N3B-2022-1487
RE00-22-238164	00-221	84	South	11–12	QBT3	—	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-1492	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-1492
RE00-22-238165	00-221	84	South	14–15	QBT3	—	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-1492	N3B-2022-694	N3B-2022-694	N3B-2022-694	N3B-2022-1492
RE00-22-238166	00-222	7	North	0–1	FILL	N3B-2022-668	N3B-2022-668	N3B-2022-668	N3B-2022-668	N3B-2022-1490	N3B-2022-668	N3B-2022-668	N3B-2022-668	N3B-2022-1490
RE00-22-238167	00-222	7	North	3–4	ALLH	N3B-2022-668	N3B-2022-668	N3B-2022-668	N3B-2022-668	N3B-2022-1490	N3B-2022-668	N3B-2022-668	N3B-2022-668	N3B-2022-1490
RE00-22-238168	00-222	7	North	5–6	QBT3	N3B-2022-668	N3B-2022-668	N3B-2022-668	N3B-2022-668	N3B-2022-1490	N3B-2022-668	N3B-2022-668	N3B-2022-668	N3B-2022-1490
RE00-22-238169	00-223	81	South	6.5–7.5	QBT3	—	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-1492	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-1492
RE00-22-238170	00-223	81	South	9.5–10.5	QBT3	—	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-1492	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-1492
RE00-22-238174	00-225	77	South	8.5–9.5	QBT3	—	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-1492	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-1492
RE00-22-238175	00-225	77	South	11.5–12.5	QBT3	—	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-1492	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-1492
RE00-22-238176	00-226	95	South	0–1	FILL	—	N3B-2022-627	N3B-2022-627	N3B-2022-627	N3B-2022-1487	N3B-2022-627	N3B-2022-627	N3B-2022-627	N3B-2022-1487

Table 3.1-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Explosive Compounds	Gamma-Emitting Radionuclides	Americium-241	Isotopic Plutonium	Isotopic Thorium	Isotopic Uranium	Strontium-90	Tritium	Technetium-99
RE00-22-238177	00-226	95	South	3–4	ALLH	—	N3B-2022-627	N3B-2022-627	N3B-2022-627	N3B-2022-1487	N3B-2022-627	N3B-2022-627	N3B-2022-627	N3B-2022-1487
RE00-22-238178	00-226	95	South	6–7	QBT3	—	N3B-2022-832	N3B-2022-832	N3B-2022-832	N3B-2022-1496	N3B-2022-832	N3B-2022-832	N3B-2022-832	N3B-2022-1496
RE00-22-238179	00-227	78	South	7.5–8.5	QBT3	—	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-1492	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-1492
RE00-22-238180	00-227	78	South	10.5–11.5	QBT3	—	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-1492	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-1492
RE00-22-238181	00-228	59	South	0–1	FILL	N3B-2022-531	N3B-2022-531	N3B-2022-531	N3B-2022-531	N3B-2022-1485	N3B-2022-531	N3B-2022-531	N3B-2022-531	N3B-2022-1485
RE00-22-238281	00-228	59	South	4–5	ALLH	—	N3B-2022-828	N3B-2022-828	N3B-2022-828	N3B-2022-1496	N3B-2022-828	N3B-2022-828	N3B-2022-828	N3B-2022-1496
RE00-22-238286	00-228	59	South	9–10	QBT3	—	N3B-2022-828	N3B-2022-828	N3B-2022-828	N3B-2022-1496	N3B-2022-828	N3B-2022-828	N3B-2022-828	N3B-2022-1496
RE00-22-238184	00-229	73	South	7.5–8.5	QBT3	—	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-1492	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-1492
RE00-22-238185	00-229	73	South	10.5–11.5	QBT3	—	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-1493	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-1493
RE00-22-238189	00-231	69	South	7.5–8.5	QBT3	—	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-1493	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-1493
RE00-22-238190	00-231	69	South	10.5–11.5	QBT3	—	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-1493	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-1493
RE00-22-238192	00-232	96	South	0–1	FILL	N3B-2022-571	N3B-2022-571	N3B-2022-571	N3B-2022-571	N3B-2022-1486	N3B-2022-571	N3B-2022-571	N3B-2022-571	N3B-2022-1486
RE00-22-238191	00-232	96	South	4–5	FILL	N3B-2022-571	N3B-2022-571	N3B-2022-571	N3B-2022-571	N3B-2022-1486	N3B-2022-571	N3B-2022-571	N3B-2022-571	N3B-2022-1486
RE00-22-238193	00-232	96	South	6–7	QBT3	N3B-2022-571	N3B-2022-571	N3B-2022-571	N3B-2022-571	N3B-2022-1486	N3B-2022-571	N3B-2022-571	N3B-2022-571	N3B-2022-1486
RE00-22-238194	00-233	64	South	7.5–8.5	QBT3	—	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-1493	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-1493
RE00-22-238195	00-233	64	South	10.5–11.5	QBT3	—	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-1493	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-1493
RE00-22-238196	00-234	61	South	12.5–13.5	QBT3	—	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-1493	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-1493
RE00-22-238197	00-234	61	South	15.5–16.5	QBT3	—	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-1493	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-1493
RE00-22-238198	00-235	57	South	9–10	QBT3	—	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-1493	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-1493
RE00-22-238199	00-235	57	South	12–13	QBT3	—	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-1493	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-1493
RE00-22-238200	00-236	60	South	13–14	QBT3	—	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-1493	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-1493
RE00-22-238201	00-236	60	South	16–17	QBT3	—	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-1493	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-1493
RE00-22-238202	00-237	62	South	8.5–9.5	QBT3	—	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-1494	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-1494
RE00-22-238203	00-237	62	South	11.5–12.5	QBT3	—	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-1494	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-1494
RE00-22-238204	00-238	63	South	4–5	QBT3	—	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-1494	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-1494
RE00-22-238205	00-238	63	South	7–8	QBT3	—	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-1494	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-1494
RE00-22-238206	00-239	67	South	6.5–7.5	QBT3	—	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-1494	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-1494
RE00-22-238207	00-239	67	South	9.5–10.5	QBT3	—	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-1494	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-1494
RE00-22-238208	00-240	68	South	5–6	QBT3	—	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-1494	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-1494
RE00-22-238209	00-240	68	South	8–9	QBT3	—	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-1494	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-1494
RE00-22-238226	00-249	5	North	8–9	QBT3	—	N3B-2022-653	N3B-2022-653	N3B-2022-653	N3B-2022-1489	N3B-2022-653	N3B-2022-653	N3B-2022-653	N3B-2022-1489
RE00-22-238227	00-249	5	North	11–12	QBT3	—	N3B-2022-653	N3B-2022-653	N3B-2022-653	N3B-2022-1489	N3B-2022-653	N3B-2022-653	N3B-2022-653	N3B-2022-1489
RE00-22-238237	00-254	15	North	7–8	QBT3	—	N3B-2022-832	N3B-2022-832	N3B-2022-832	N3B-2022-1496	N3B-2022-832	N3B-2022-832	N3B-2022-832	N3B-2022-1496
RE00-22-238238	00-255	93	South	0–1	FILL	—	N3B-2022-532	N3B-2022-532	N3B-2022-532	N3B-2022-1485	N3B-2022-532	N3B-2022-532	N3B-2022-532	N3B-2022-1485
RE00-22-238239	00-255	93	South	4–5	FILL	—	N3B-2022-532	N3B-2022-532	N3B-2022-532	N3B-2022-1485	N3B-2022-532	N3B-2022-532	N3B-2022-532	N3B-2022-1485

Table 3.1-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Explosive Compounds	Gamma-Emitting Radionuclides	Americium-241	Isotopic Plutonium	Isotopic Thorium	Isotopic Uranium	Strontium-90	Tritium	Technetium-99
RE00-22-238240	00-255	93	South	7.5–8.5	QBT3	—	N3B-2022-532	N3B-2022-532	N3B-2022-532	N3B-2022-1485	N3B-2022-532	N3B-2022-532	N3B-2022-532	N3B-2022-1485
RE00-22-238242	00-256	14	North	7.3–8.3	QBT3	—	N3B-2022-626	N3B-2022-626	N3B-2022-626	N3B-2022-1488	N3B-2022-626	N3B-2022-626	N3B-2022-626	N3B-2022-1488
RE00-22-239164	00-257	6	North	6.1–7.1	QBT3	N3B-2022-753	N3B-2022-753	N3B-2022-753	N3B-2022-753	N3B-2022-1496	N3B-2022-753	N3B-2022-753	N3B-2022-753	N3B-2022-1496
RE00-22-238248	00-259	75	South	0–1	FILL	—	N3B-2022-580	N3B-2022-580	N3B-2022-580	N3B-2022-1486	N3B-2022-580	N3B-2022-580	N3B-2022-580	N3B-2022-1486
RE00-22-238249	00-259	75	South	3–4	FILL	—	N3B-2022-580	N3B-2022-580	N3B-2022-580	N3B-2022-1486	N3B-2022-580	N3B-2022-580	N3B-2022-580	N3B-2022-1486
RE00-22-238250	00-259	75	South	6.9–7.9	QBT3	—	N3B-2022-580	N3B-2022-580	N3B-2022-580	N3B-2022-1486	N3B-2022-580	N3B-2022-580	N3B-2022-580	N3B-2022-1486
RE00-22-238251	00-260	88	South	0–1	FILL	—	N3B-2022-628	N3B-2022-628	N3B-2022-628	N3B-2022-1487	N3B-2022-628	N3B-2022-628	N3B-2022-628	N3B-2022-1487
RE00-22-238252	00-260	88	South	5–6	QBT3	—	N3B-2022-628	N3B-2022-628	N3B-2022-628	N3B-2022-1487	N3B-2022-628	N3B-2022-628	N3B-2022-628	N3B-2022-1487
RE00-22-238253	00-261	56A	North	0–1	ALLH	—	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-1493	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-1493
RE00-22-238254	00-261	56A	North	3–4	ALLH	—	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-1493	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-1493
RE00-22-238255	00-261	56A	North	11.6–12.6	QBT3	—	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-1493	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-1493
RE00-22-238273	00-61519	16	North	0–1	FILL	—	N3B-2022-627	N3B-2022-627	N3B-2022-627	N3B-2022-1488	N3B-2022-627	N3B-2022-627	N3B-2022-627	N3B-2022-1488
RE00-22-238278	00-61519	16	North	3–4	ALLH	—	N3B-2022-627	N3B-2022-627	N3B-2022-627	N3B-2022-1488	N3B-2022-627	N3B-2022-627	N3B-2022-627	N3B-2022-1488
RE00-22-238283	00-61519	16	North	12–13	QBT3	—	N3B-2022-832	N3B-2022-832	N3B-2022-832	N3B-2022-1497	N3B-2022-832	N3B-2022-832	N3B-2022-832	N3B-2022-1497
RE00-22-238274	00-61520	94	South	0–1	FILL	—	N3B-2022-532	N3B-2022-532	N3B-2022-532	N3B-2022-1485	N3B-2022-532	N3B-2022-532	N3B-2022-532	N3B-2022-1485
RE00-22-238279	00-61520	94	South	4–5	FILL	—	N3B-2022-532	N3B-2022-532	N3B-2022-532	N3B-2022-1485	N3B-2022-532	N3B-2022-532	N3B-2022-532	N3B-2022-1485
RE00-22-238284	00-61520	94	South	9.1–9.9	QBT3	—	N3B-2022-532	N3B-2022-532	N3B-2022-532	N3B-2022-1485	N3B-2022-532	N3B-2022-532	N3B-2022-532	N3B-2022-1485
RE00-22-238287	00-61523	74	South	0–1	ALLH	—	N3B-2022-571	N3B-2022-571	N3B-2022-571	N3B-2022-1486	N3B-2022-571	N3B-2022-571	N3B-2022-571	N3B-2022-1486
RE00-22-238282	00-61523	74	South	4–5	ALLH	—	N3B-2022-571	N3B-2022-571	N3B-2022-571	N3B-2022-1486	N3B-2022-571	N3B-2022-571	N3B-2022-571	N3B-2022-1486
RE00-22-238277	00-61523	74	South	8–9	QBT3	—	N3B-2022-579	N3B-2022-579	N3B-2022-579	N3B-2022-1486	N3B-2022-579	N3B-2022-579	N3B-2022-579	N3B-2022-1486
RE00-22-238290	00-61526	56	South	0–1	FILL	—	N3B-2022-532	N3B-2022-532	N3B-2022-532	N3B-2022-1485	N3B-2022-532	N3B-2022-532	N3B-2022-532	N3B-2022-1485
RE00-22-238295	00-61526	56	South	3.5–4	FILL	—	N3B-2022-532	N3B-2022-532	N3B-2022-532	N3B-2022-1485	N3B-2022-532	N3B-2022-532	N3B-2022-532	N3B-2022-1485
RE00-22-238300	00-61526	56	South	6–7	FILL	—	N3B-2022-532	N3B-2022-532	N3B-2022-532	N3B-2022-1485	N3B-2022-532	N3B-2022-532	N3B-2022-532	N3B-2022-1485
RE00-22-238305	00-61526	56	South	9.6–10.1	QBT3	—	N3B-2022-532	N3B-2022-532	N3B-2022-532	N3B-2022-1485	N3B-2022-532	N3B-2022-532	N3B-2022-532	N3B-2022-1485
RE00-22-238292	00-61528	65	South	0–1	FILL	—	N3B-2022-603	N3B-2022-603	N3B-2022-603	N3B-2022-1487	N3B-2022-603	N3B-2022-603	N3B-2022-603	N3B-2022-1487
RE00-22-238297	00-61528	65	South	3–4	FILL	—	N3B-2022-603	N3B-2022-603	N3B-2022-603	N3B-2022-1487	N3B-2022-603	N3B-2022-603	N3B-2022-603	N3B-2022-1487
RE00-22-238302	00-61528	65	South	6–7	FILL	—	N3B-2022-622	N3B-2022-622	N3B-2022-622	N3B-2022-1487	N3B-2022-622	N3B-2022-622	N3B-2022-622	N3B-2022-1487
RE00-22-238307	00-61528	65	South	9–10	QBT3	—	N3B-2022-622	N3B-2022-622	N3B-2022-622	N3B-2022-1487	N3B-2022-622	N3B-2022-622	N3B-2022-622	N3B-2022-1487
RE00-22-239217	00-61546	19	North	0–1	FILL	—	N3B-2022-642	N3B-2022-642	N3B-2022-642	N3B-2022-1488	N3B-2022-642	N3B-2022-642	N3B-2022-642	N3B-2022-1488
RE00-22-239227	00-61546	19	North	4–5	ALLH	—	N3B-2022-642	N3B-2022-642	N3B-2022-642	N3B-2022-1489	N3B-2022-642	N3B-2022-642	N3B-2022-642	N3B-2022-1489
RE00-22-239237	00-61546	19	North	5.75–6.8	QBT3	—	N3B-2022-647	N3B-2022-647	N3B-2022-647	N3B-2022-1489	N3B-2022-647	N3B-2022-647	N3B-2022-647	N3B-2022-1489
RE00-22-239218	00-61547	55A	North	0–1	ALLH	—	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-1493	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-1493
RE00-22-239228	00-61547	55A	North	3–4	ALLH	—	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-1493	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-1493
RE00-22-239238	00-61547	55A	North	11.9–12.9	QBT3	—	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-1493	N3B-2022-711	N3B-2022-711	N3B-2022-711	N3B-2022-1493
RE00-22-239221	00-61550	58A	South	0–1	ALLH	—	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-1493	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-1493

Table 3.1-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Explosive Compounds	Gamma-Emitting Radionuclides	Americium-241	Isotopic Plutonium	Isotopic Thorium	Isotopic Uranium	Strontium-90	Tritium	Technetium-99
RE00-22-239231	00-61550	58A	South	3–4	ALLH	—	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-1493	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-1493
RE00-22-239241	00-61550	58A	South	8–9	QBT3	—	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-1494	N3B-2022-697	N3B-2022-697	N3B-2022-697	N3B-2022-1494
RE00-22-239224	00-61553	54A	North	0–1	ALLH	—	N3B-2022-742	N3B-2022-742	N3B-2022-742	N3B-2022-1495	N3B-2022-742	N3B-2022-742	N3B-2022-742	N3B-2022-1495
RE00-22-239234	00-61553	54A	North	4–5	ALLH	—	N3B-2022-742	N3B-2022-742	N3B-2022-742	N3B-2022-1495	N3B-2022-742	N3B-2022-742	N3B-2022-742	N3B-2022-1495
RE00-22-239244	00-61553	54A	North	6.9–7.9	QBT3	—	N3B-2022-742	N3B-2022-742	N3B-2022-742	N3B-2022-1495	N3B-2022-742	N3B-2022-742	N3B-2022-742	N3B-2022-1495
RE00-22-248888	00-61568	29 5NE	South	0–1	ALLH	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207
RE00-22-248889	00-61568	29 5NE	South	4–5	ALLH	N3B-2022-1213	N3B-2022-1213	N3B-2022-1213	N3B-2022-1213	N3B-2022-2222	N3B-2022-1213	N3B-2022-1213	N3B-2022-1213	N3B-2022-1213
RE00-22-248890	00-61568	29 5NE	South	7–8	QBT3	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207
RE00-22-248891	00-61569	29 5S	North	0–1	ALLH	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207
RE00-22-248892	00-61569	29 5S	North	4–5	ALLH	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207
RE00-22-248893	00-61569	29 5S	North	7–8	QBT3	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207
RE00-22-249057	00-61569	29 5S	North	9–10	QBT3	—	N3B-2022-1542	N3B-2022-1542	N3B-2022-1542	N3B-2022-1542	N3B-2022-1542	N3B-2022-1542	N3B-2022-1542	N3B-2022-1542
RE00-22-249058	00-61569	29 5S	North	11–12	QBT3	—	N3B-2022-1542	N3B-2022-1542	N3B-2022-1542	N3B-2022-1542	N3B-2022-1542	N3B-2022-1542	N3B-2022-1542	N3B-2022-1542
RE00-22-248894	00-61570	29 5SE	North	0–1	ALLH	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207
RE00-22-248895	00-61570	29 5SE	North	4–5	ALLH	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207
RE00-22-248896	00-61570	29 5SE	North	7–8	QBT3	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210
RE00-22-248897	00-61571	22 5E	North	0–1	ALLH	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210
RE00-22-248898	00-61571	22 5E	North	4–5	ALLH	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210
RE00-22-248899	00-61571	22 5E	North	11.9–12.9	QBT3	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210
RE00-22-248900	00-61572	92 5E	South	0–1	ALLH	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211
RE00-22-248901	00-61572	92 5E	South	3–4	ALLH	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211
RE00-22-248902	00-61572	92 5E	South	7.7–8.7	QBT3	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211
RE00-22-248903	00-61573	92 5N	South	0–1	ALLH	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211
RE00-22-248904	00-61573	92 5N	South	3–4	ALLH	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211
RE00-22-248905	00-61573	92 5N	South	7.7–8.7	QBT3	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211
RE00-22-248906	00-61574	56A 5E	North	0–1	ALLH	—	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211
RE00-22-248907	00-61574	56A 5E	North	3–4	ALLH	—	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211
RE00-22-248908	00-61574	56A 5E	North	11.6–12.6	QBT3	—	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218
RE00-22-248909	00-61575	56A 5N	North	0–1	ALLH	—	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211
RE00-22-248910	00-61575	56A 5N	North	3–4	ALLH	—	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211
RE00-22-248911	00-61575	56A 5N	North	11.6–12.6	QBT3	—	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218
RE00-22-248912	00-61576	56A 5W	North	0–1	ALLH	—	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211
RE00-22-248913	00-61576	56A 5W	North	3–4	ALLH	—	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218
RE00-22-248914	00-61576	56A 5W	North	11.6–12.6	QBT3	—	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218
RE00-22-248915	00-61577	56A 5S	North	0–1	ALLH	—	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218

Table 3.1-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Explosive Compounds	Gamma-Emitting Radionuclides	Americium-241	Isotopic Plutonium	Isotopic Thorium	Isotopic Uranium	Strontium-90	Tritium	Technetium-99
RE00-22-248916	00-61577	56A 5S	North	3–4	ALLH	—	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218
RE00-22-248917	00-61577	56A 5S	North	11.6–12.6	QBT3	—	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218
RE00-22-248930	00-61581	2 5S	North	6.5–7.5	QBT3	—	N3B-2022-1223	N3B-2022-1223	N3B-2022-1223	N3B-2022-1223	N3B-2022-1223	N3B-2022-1223	N3B-2022-1223	N3B-2022-1223
RE00-22-248979	00-61582	2 5SE	North	8.5–9.5	QBT3	—	N3B-2022-1521	N3B-2022-1521	N3B-2022-1521	N3B-2022-1521	N3B-2022-1521	N3B-2022-1521	N3B-2022-1521	N3B-2022-1521
RE00-22-248982	00-61582	2 5SE	North	10.5–11.5	QBT3	—	N3B-2022-1521	N3B-2022-1521	N3B-2022-1521	N3B-2022-1521	N3B-2022-1521	N3B-2022-1521	N3B-2022-1521	N3B-2022-1521
RE00-22-248934	00-61583	58 5E	South	0–1	ALLH	—	N3B-2022-1223	N3B-2022-1223	N3B-2022-1223	N3B-2022-1223	N3B-2022-1223	N3B-2022-1223	N3B-2022-1223	N3B-2022-1223
RE00-22-248935	00-61583	58 5E	South	4–5	ALLH	—	N3B-2022-1223	N3B-2022-1223	N3B-2022-1223	N3B-2022-1223	N3B-2022-1223	N3B-2022-1223	N3B-2022-1223	N3B-2022-1223
RE00-22-248936	00-61583	58 5E	South	7–8	QBT3	—	N3B-2022-1223	N3B-2022-1223	N3B-2022-1223	N3B-2022-1223	N3B-2022-1223	N3B-2022-1223	N3B-2022-1223	N3B-2022-1223
RE00-22-255298	00-61584	58 5SW	South	13–14	ALLH	—	N3B-2022-2795	N3B-2022-2795	N3B-2022-2795	N3B-2022-2795	N3B-2022-2795	N3B-2022-2795	N3B-2022-2795	N3B-2022-2795
RE00-22-248943	00-61586	94 5S	South	0–1	ALLH	—	N3B-2022-1224	N3B-2022-1224	N3B-2022-1224	N3B-2022-1224	N3B-2022-1224	N3B-2022-1224	N3B-2022-1224	N3B-2022-1224
RE00-22-248944	00-61586	94 5S	South	4–5	ALLH	—	N3B-2022-1237	N3B-2022-1237	N3B-2022-1237	N3B-2022-2222	N3B-2022-1237	N3B-2022-1237	N3B-2022-1237	N3B-2022-1237
RE00-22-248945	00-61586	94 5S	South	9.1–9.9	QBT3	—	N3B-2022-1224	N3B-2022-1224	N3B-2022-1224	N3B-2022-1224	N3B-2022-1224	N3B-2022-1224	N3B-2022-1224	N3B-2022-1224
RE00-22-248946	00-61587	94 5E	South	0–1	ALLH	—	N3B-2022-1224	N3B-2022-1224	N3B-2022-1224	N3B-2022-1224	N3B-2022-1224	N3B-2022-1224	N3B-2022-1224	N3B-2022-1224
RE00-22-248947	00-61587	94 5E	South	4–5	ALLH	—	N3B-2022-1224	N3B-2022-1224	N3B-2022-1224	N3B-2022-1224	N3B-2022-1224	N3B-2022-1224	N3B-2022-1224	N3B-2022-1224
RE00-22-248948	00-61587	94 5E	South	9.1–9.9	QBT3	—	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234
RE00-22-249009	00-61587	94 5E	South	10.9–11.9	QBT3	—	N3B-2022-1566	N3B-2022-1566	N3B-2022-1566	N3B-2022-1566	N3B-2022-1566	N3B-2022-1566	N3B-2022-1566	N3B-2022-1566
RE00-22-249010	00-61587	94 5E	South	12.9–13.9	QBT3	—	N3B-2022-1566	N3B-2022-1566	N3B-2022-1566	N3B-2022-1566	N3B-2022-1566	N3B-2022-1566	N3B-2022-1566	N3B-2022-1566
RE00-22-248949	00-61588	94 5W	South	0–1	ALLH	—	N3B-2022-1224	N3B-2022-1224	N3B-2022-1224	N3B-2022-1224	N3B-2022-1224	N3B-2022-1224	N3B-2022-1224	N3B-2022-1224
RE00-22-248950	00-61588	94 5W	South	4–5	ALLH	—	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234
RE00-22-248951	00-61588	94 5W	South	9.1–9.9	QBT3	—	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234
RE00-22-248952	00-61589	29 5W	North	0–1	ALLH	N3B-2022-1213	N3B-2022-1213	N3B-2022-1213	N3B-2022-1213	N3B-2022-2222	N3B-2022-1213	N3B-2022-1213	N3B-2022-1213	N3B-2022-1213
RE00-22-248953	00-61589	29 5W	North	4–5	ALLH	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207
RE00-22-248954	00-61589	29 5W	North	7–8	QBT3	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207
RE00-22-248955	00-61589	29 5W	North	11.5–12.5	QBT3	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207
RE00-22-248956	00-61590	95 5W	South	0–1	ALLH	—	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234
RE00-22-248957	00-61590	95 5W	South	3–4	ALLH	—	N3B-2022-1250	N3B-2022-1250	N3B-2022-1250	N3B-2022-2222	N3B-2022-1250	N3B-2022-1250	N3B-2022-1250	N3B-2022-1250
RE00-22-248958	00-61590	95 5W	South	6–7	QBT3	—	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234
RE00-22-248960	00-61591	1 5S	North	3–4	ALLH	—	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234
RE00-22-248961	00-61591	1 5S	North	6–7	QBT3	—	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234
RE00-22-248962	00-61592	1 5SW	North	0–1	ALLH	—	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234
RE00-22-248963	00-61592	1 5SW	North	3–4	ALLH	—	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234
RE00-22-248964	00-61592	1 5SW	North	6–7	QBT3	—	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234
RE00-22-248965	00-61593	1 5NE	North	0–1	ALLH	—	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234
RE00-22-248966	00-61593	1 5NE	North	3–4	ALLH	—	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234
RE00-22-248967	00-61593	1 5NE	North	6–7	QBT3	—	N3B-2022-1250	N3B-2022-1250	N3B-2022-1250	N3B-2022-2222	N3B-2022-1250	N3B-2022-1250	N3B-2022-1250	N3B-2022-1250

Table 3.1-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Explosive Compounds	Gamma-Emitting Radionuclides	Americium-241	Isotopic Plutonium	Isotopic Thorium	Isotopic Uranium	Strontium-90	Tritium	Technetium-99
RE00-22-248968	00-61594	1 5NW	North	0–1	ALLH	—	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234	N3B-2022-1234
RE00-22-248969	00-61594	1 5NW	North	3–4	ALLH	—	N3B-2022-1248	N3B-2022-1248	N3B-2022-1248	N3B-2022-1248	N3B-2022-1248	N3B-2022-1248	N3B-2022-1248	N3B-2022-1248
RE00-22-248970	00-61594	1 5NW	North	6–7	QBT3	—	N3B-2022-1250	N3B-2022-1250	N3B-2022-1250	N3B-2022-2222	N3B-2022-1250	N3B-2022-1250	N3B-2022-1250	N3B-2022-1250
RE00-22-248985	00-61599	2 10N	North	6.5–7.5	QBT3	—	N3B-2022-1521	N3B-2022-1521	N3B-2022-1521	N3B-2022-1521	N3B-2022-1521	N3B-2022-1521	N3B-2022-1521	N3B-2022-1521
RE00-22-248986	00-61600	22 5NE	North	0–1	ALLH	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210
RE00-22-248987	00-61600	22 5NE	North	4–5	ALLH	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210
RE00-22-248988	00-61600	22 5NE	North	11.9–12.9	QBT3	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210
RE00-22-248989	00-61601	56A 10W	North	0–1	ALLH	—	N3B-2022-1521	N3B-2022-1521	N3B-2022-1521	N3B-2022-1521	N3B-2022-1521	N3B-2022-1521	N3B-2022-1521	N3B-2022-1521
RE00-22-248990	00-61601	56A 10W	North	3–4	ALLH	—	N3B-2022-1521	N3B-2022-1521	N3B-2022-1521	N3B-2022-1521	N3B-2022-1521	N3B-2022-1521	N3B-2022-1521	N3B-2022-1521
RE00-22-248991	00-61601	56A 10W	North	11.6–12.6	QBT3	—	N3B-2022-1542	N3B-2022-1542	N3B-2022-1542	N3B-2022-1542	N3B-2022-1542	N3B-2022-1542	N3B-2022-1542	N3B-2022-1542
RE00-22-248992	00-61602	94 10SE	South	0–1	ALLH	—	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596
RE00-22-248993	00-61602	94 10SE	South	4–5	ALLH	—	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596
RE00-22-248994	00-61602	94 10SE	South	9.1–9.9	QBT3	—	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596
RE00-22-249013	00-61609	94 10S	South	0–1	ALLH	—	N3B-2022-1619	N3B-2022-1619	N3B-2022-1619	N3B-2022-1619	N3B-2022-1619	N3B-2022-1619	N3B-2022-1619	N3B-2022-1619
RE00-22-249014	00-61609	94 10S	South	4–5	ALLH	—	N3B-2022-1542	N3B-2022-1542	N3B-2022-1542	N3B-2022-1542	N3B-2022-1542	N3B-2022-1542	N3B-2022-1542	N3B-2022-1542
RE00-22-249015	00-61609	94 10S	South	9.1–9.9	QBT3	—	N3B-2022-1571	N3B-2022-1571	N3B-2022-1571	N3B-2022-1571	N3B-2022-1571	N3B-2022-1571	N3B-2022-1571	N3B-2022-1571
RE00-22-249019	00-61611	92 5NW	South	0–1	ALLH	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211
RE00-22-249020	00-61611	92 5NW	South	3–4	ALLH	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211
RE00-22-249021	00-61611	92 5NW	South	7.7–8.7	QBT3	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211
RE00-22-249022	00-61612	22 10E	North	0–1	ALLH	—	N3B-2022-1426	N3B-2022-1426	N3B-2022-1426	N3B-2022-1426	N3B-2022-1426	N3B-2022-1426	N3B-2022-1426	N3B-2022-1426
RE00-22-249023	00-61612	22 10E	North	4–5	ALLH	—	N3B-2022-1426	N3B-2022-1426	N3B-2022-1426	N3B-2022-1426	N3B-2022-1426	N3B-2022-1426	N3B-2022-1426	N3B-2022-1426
RE00-22-249024	00-61612	22 10E	North	11.9–12.9	QBT3	—	N3B-2022-1426	N3B-2022-1426	N3B-2022-1426	N3B-2022-1426	N3B-2022-1426	N3B-2022-1426	N3B-2022-1426	N3B-2022-1426
RE00-22-249032	00-61616	27 5E	North	8.5–9.5	QBT3	—	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258
RE00-22-249031	00-61616	27 5E	North	11.5–12.5	QBT3	—	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263
RE00-22-249035	00-61618	2V	North	8–9	QBT3	—	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218
RE00-22-249036	00-61618	2V	North	10–11	QBT3	—	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218	N3B-2022-1218
RE00-22-249037	00-61619	58 5N	South	4–5	ALLH	—	N3B-2022-1224	N3B-2022-1224	N3B-2022-1224	N3B-2022-1224	N3B-2022-1224	N3B-2022-1224	N3B-2022-1224	N3B-2022-1224
RE00-22-249038	00-61619	58 5N	South	7–8	QBT3	—	N3B-2022-1224	N3B-2022-1224	N3B-2022-1224	N3B-2022-1224	N3B-2022-1224	N3B-2022-1224	N3B-2022-1224	N3B-2022-1224
RE00-22-249064	00-61619	58 5N	South	13.9–14.9	QBT3	N3B-2022-1566	N3B-2022-1566	N3B-2022-1566	N3B-2022-1566	N3B-2022-1566	N3B-2022-1566	N3B-2022-1566	N3B-2022-1566	N3B-2022-1566
RE00-22-249065	00-61619	58 5N	South	15.9–16.9	QBT3	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596	N3B-2022-1596
RE00-22-249039	00-61620	00-196	North	9.5–10.5	QBT3	—	N3B-2022-1248	N3B-2022-1248	N3B-2022-1248	N3B-2022-1248	N3B-2022-1248	N3B-2022-1248	N3B-2022-1248	N3B-2022-1248
RE00-22-249040	00-61620	00-196	North	11.5–12.5	QBT3	—	N3B-2022-1248	N3B-2022-1248	N3B-2022-1248	N3B-2022-1248	N3B-2022-1248	N3B-2022-1248	N3B-2022-1248	N3B-2022-1248
RE00-22-249041	00-61621	00-61521	North	9–10	QBT3	—	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258
RE00-22-249042	00-61621	00-61521	North	11–12	QBT3	—	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258
RE00-22-249045	00-61622	22 5SE	North	11.9–12.9	QBT3	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210	N3B-2022-1210

Table 3.1-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Explosive Compounds	Gamma-Emitting Radionuclides	Americium-241	Isotopic Plutonium	Isotopic Thorium	Isotopic Uranium	Strontium-90	Tritium	Technetium-99
RE00-22-249046	00-61623	17 5S	North	9–10	QBT3	—	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258
RE00-22-249047	00-61623	17 5S	North	11–12	QBT3	—	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258
RE00-22-249048	00-61624	00-212	North	8–9	QBT3	—	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258
RE00-22-249049	00-61624	00-212	North	10–11	QBT3	—	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258
RE00-22-249050	00-61625	00-61553	North	9–10	QBT3	—	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258
RE00-22-249051	00-61625	00-61553	North	11–12	QBT3	—	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258	N3B-2022-1258
RE00-22-249025	00-61625	00-61553	North	13–14	QBT3	N3B-2022-1542	N3B-2022-1542	N3B-2022-1542	N3B-2022-1542	N3B-2022-1542	N3B-2022-1542	N3B-2022-1542	N3B-2022-1542	N3B-2022-1542
RE00-22-249026	00-61625	00-61553	North	15–16	QBT3	N3B-2022-1542	N3B-2022-1542	N3B-2022-1542	N3B-2022-1542	N3B-2022-1542	N3B-2022-1542	N3B-2022-1542	N3B-2022-1542	N3B-2022-1542
RE00-22-249053	00-61626	27 5W	North	8.5–9.5	QBT3	—	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263
RE00-22-249052	00-61626	27 5W	North	11.5–12.5	QBT3	—	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263
RE00-22-249054	00-61627	27 5N	North	8.5–9.5	QBT3	—	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263
RE00-22-249055	00-61627	27 5N	North	11.5–12.5	QBT3	—	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263	N3B-2022-1263
RE00-22-249056	00-61628	92 5S	South	7.7–8.7	QBT3	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211	N3B-2022-1211
RE00-22-249059	00-61630	00-210	North	9–10	QBT3	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207
RE00-22-249060	00-61630	00-210	North	11–12	QBT3	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207	N3B-2022-1207
RE00-22-250910	00-61651	2 10NW	North	0–1	ALLH	—	N3B-2022-1514	N3B-2022-1514	N3B-2022-1514	N3B-2022-1514	N3B-2022-1514	N3B-2022-1514	N3B-2022-1514	N3B-2022-1514
RE00-22-250911	00-61651	2 10NW	North	3–4	ALLH	—	N3B-2022-1514	N3B-2022-1514	N3B-2022-1514	N3B-2022-1514	N3B-2022-1514	N3B-2022-1514	N3B-2022-1514	N3B-2022-1514
RE00-22-250912	00-61651	2 10NW	North	6.5–7.5	QBT3	—	N3B-2022-1514	N3B-2022-1514	N3B-2022-1514	N3B-2022-1514	N3B-2022-1514	N3B-2022-1514	N3B-2022-1514	N3B-2022-1514
RE00-22-250916	00-61653	2 10SE	North	0–1	ALLH	—	N3B-2022-1514	N3B-2022-1514	N3B-2022-1514	N3B-2022-1514	N3B-2022-1514	N3B-2022-1514	N3B-2022-1514	N3B-2022-1514
RE00-22-250917	00-61653	2 10SE	North	3–4	ALLH	—	N3B-2022-1514	N3B-2022-1514	N3B-2022-1514	N3B-2022-1514	N3B-2022-1514	N3B-2022-1514	N3B-2022-1514	N3B-2022-1514
RE00-22-250918	00-61653	2 10SE	North	6.5–7.5	QBT3	—	N3B-2022-1514	N3B-2022-1514	N3B-2022-1514	N3B-2022-1514	N3B-2022-1514	N3B-2022-1514	N3B-2022-1514	N3B-2022-1514
RE00-22-250919	00-61654	1 10SW	North	0–1	ALLH	—	N3B-2022-1536	N3B-2022-1536	N3B-2022-1536	N3B-2022-1536	N3B-2022-1536	N3B-2022-1536	N3B-2022-1536	N3B-2022-1536
RE00-22-250920	00-61654	1 10SW	North	3–4	ALLH	—	N3B-2022-1536	N3B-2022-1536	N3B-2022-1536	N3B-2022-1536	N3B-2022-1536	N3B-2022-1536	N3B-2022-1536	N3B-2022-1536
RE00-22-250921	00-61654	1 10SW	North	6.5–7.5	QBT3	—	N3B-2022-1536	N3B-2022-1536	N3B-2022-1536	N3B-2022-1536	N3B-2022-1536	N3B-2022-1536	N3B-2022-1536	N3B-2022-1536
RE00-22-250922	00-61655	22 10SE	North	0–1	ALLH	—	N3B-2022-1536	N3B-2022-1536	N3B-2022-1536	N3B-2022-1536	N3B-2022-1536	N3B-2022-1536	N3B-2022-1536	N3B-2022-1536
RE00-22-250923	00-61655	22 10SE	North	4–5	ALLH	—	N3B-2022-1536	N3B-2022-1536	N3B-2022-1536	N3B-2022-1536	N3B-2022-1536	N3B-2022-1536	N3B-2022-1536	N3B-2022-1536
RE00-22-250924	00-61655	22 10SE	North	11.9–12.9	QBT3	—	N3B-2022-1536	N3B-2022-1536	N3B-2022-1536	N3B-2022-1536	N3B-2022-1536	N3B-2022-1536	N3B-2022-1536	N3B-2022-1536
RE00-22-250928	00-61657	22 10S	North	0–1	ALLH	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568
RE00-22-250929	00-61657	22 10S	North	4–5	ALLH	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568
RE00-22-250930	00-61657	22 10S	North	11.9–12.9	QBT3	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568
RE00-22-250931	00-61658	56A 10S	North	0–1	ALLH	—	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568
RE00-22-250932	00-61658	56A 10S	North	3–4	ALLH	—	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568
RE00-22-250933	00-61658	56A 10S	North	11.6–12.6	QBT3	—	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568
RE00-22-250934	00-61659	56A 10SE	North	0–1	ALLH	—	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568
RE00-22-250935	00-61659	56A 10SE	North	3–4	ALLH	—	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568

Table 3.1-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Explosive Compounds	Gamma-Emitting Radionuclides	Americium-241	Isotopic Plutonium	Isotopic Thorium	Isotopic Uranium	Strontium-90	Tritium	Technetium-99
RE00-22-250936	00-61659	56A 10SE	North	11.6–12.6	QBT3	—	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568	N3B-2022-1568
RE00-22-250937	00-61660	56A 10SW	North	0–1	ALLH	—	N3B-2022-1567	N3B-2022-1567	N3B-2022-1567	N3B-2022-1567	N3B-2022-1567	N3B-2022-1567	N3B-2022-1567	N3B-2022-1567
RE00-22-250938	00-61660	56A 10SW	North	3–4	ALLH	—	N3B-2022-1567	N3B-2022-1567	N3B-2022-1567	N3B-2022-1567	N3B-2022-1567	N3B-2022-1567	N3B-2022-1567	N3B-2022-1567
RE00-22-250939	00-61660	56A 10SW	North	11.6–12.6	QBT3	—	N3B-2022-1567	N3B-2022-1567	N3B-2022-1567	N3B-2022-1567	N3B-2022-1567	N3B-2022-1567	N3B-2022-1567	N3B-2022-1567
RE00-22-250940	00-61661	94 10SW	South	0–1	ALLH	—	N3B-2022-1567	N3B-2022-1567	N3B-2022-1567	N3B-2022-1567	N3B-2022-1567	N3B-2022-1567	N3B-2022-1567	N3B-2022-1567
RE00-22-250941	00-61661	94 10SW	South	4–5	ALLH	—	N3B-2022-1567	N3B-2022-1567	N3B-2022-1567	N3B-2022-1567	N3B-2022-1567	N3B-2022-1567	N3B-2022-1567	N3B-2022-1567
RE00-22-250942	00-61661	94 10SW	South	9.1–9.9	QBT3	—	N3B-2022-1598	N3B-2022-1598	N3B-2022-1598	N3B-2022-1598	N3B-2022-1598	N3B-2022-1598	N3B-2022-1598	N3B-2022-1598
RE00-22-252842	00-61700	2 14N	North	6.5–7.5	QBT3	—	N3B-2022-1962	N3B-2022-1962	N3B-2022-1962	N3B-2022-1962	N3B-2022-1962	N3B-2022-1962	N3B-2022-1962	N3B-2022-1962
RE00-22-252845	00-61701	2 15NNE	North	6.5–7.5	QBT3	—	N3B-2022-1962	N3B-2022-1962	N3B-2022-1962	N3B-2022-1962	N3B-2022-1962	N3B-2022-1962	N3B-2022-1962	N3B-2022-1962
RE00-22-253161	00-61705	29 10S	North	0–1	ALLH	—	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163
RE00-22-253162	00-61705	29 10S	North	4–5	ALLH	—	N3B-2022-2304	N3B-2022-2304	N3B-2022-2304	N3B-2022-2304	N3B-2022-2304	N3B-2022-2304	N3B-2022-2304	N3B-2022-2304
RE00-22-253163	00-61705	29 10S	North	7–8	ALLH	—	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163
RE00-22-253164	00-61705	29 10S	North	9–10	ALLH	—	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163
RE00-22-253165	00-61705	29 10S	North	11–12	QBT3	—	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163
RE00-22-253167	00-61706	29 10WSW	North	0–1	ALLH	—	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163
RE00-22-253168	00-61706	29 10WSW	North	4–5	ALLH	—	N3B-2022-2304	N3B-2022-2304	N3B-2022-2304	N3B-2022-2304	N3B-2022-2304	N3B-2022-2304	N3B-2022-2304	N3B-2022-2304
RE00-22-253169	00-61706	29 10WSW	North	7–8	QBT3	—	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163
RE00-22-253170	00-61706	29 10WSW	North	9–10	QBT3	—	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163
RE00-22-253171	00-61706	29 10WSW	North	11–12	QBT3	—	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163
RE00-22-253172	00-61707	29 10SE	North	0–1	ALLH	—	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163
RE00-22-253173	00-61707	29 10SE	North	4–5	ALLH	—	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163
RE00-22-253174	00-61707	29 10SE	North	7–8	ALLH	—	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163
RE00-22-253175	00-61707	29 10SE	North	9–10	ALLH	—	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163
RE00-22-253176	00-61707	29 10SE	North	11–12	QBT3	—	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163
RE00-22-253177	00-61708	29 15SW	North	0–1	ALLH	—	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163	N3B-2022-2163
RE00-22-253178	00-61708	29 15SW	North	4–5	ALLH	—	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197
RE00-22-253179	00-61708	29 15SW	North	7–8	QBT3	—	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197
RE00-22-253180	00-61708	29 15SW	North	9–10	QBT3	—	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197
RE00-22-253181	00-61708	29 15SW	North	11–12	QBT3	—	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197
RE00-22-253182	00-61709	56A 5WV	North	13.6–14.6	QBT3	—	N3B-2022-2304	N3B-2022-2304	N3B-2022-2304	N3B-2022-2304	N3B-2022-2304	N3B-2022-2304	N3B-2022-2304	N3B-2022-2304
RE00-22-253184	00-61711	56A 10NW	North	0–1	ALLH	—	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197
RE00-22-253185	00-61711	56A 10NW	North	3–4	ALLH	—	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197
RE00-22-253186	00-61711	56A 10NW	North	11.6–12.6	QBT3	—	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197
RE00-22-253190	00-61712	94 15SW	South	0–1	ALLH	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197
RE00-22-253191	00-61712	94 15SW	South	4–5	ALLH	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197	N3B-2022-2197

Table 3.1-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Explosive Compounds	Gamma-Emitting Radionuclides	Americium-241	Isotopic Plutonium	Isotopic Thorium	Isotopic Uranium	Strontium-90	Tritium	Technetium-99
RE00-22-253192	00-61712	94 15SW	South	9.1–9.9	QBT3	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220
RE00-22-253193	00-61713	94 15WSW	South	0–1	ALLH	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220
RE00-22-253194	00-61713	94 15WSW	South	4–5	ALLH	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220
RE00-22-253195	00-61713	94 15WSW	South	9.1–9.9	ALLH	N3B-2022-2304	N3B-2022-2304	N3B-2022-2304	N3B-2022-2304	N3B-2022-2304	N3B-2022-2304	N3B-2022-2304	N3B-2022-2304	N3B-2022-2304
RE00-22-253196	00-61714	94 10W	South	0–1	ALLH	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220
RE00-22-253197	00-61714	94 10W	South	4–5	ALLH	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220
RE00-22-253198	00-61714	94 10W	South	9.1–9.9	QBT3	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220
RE00-22-253202	00-61716	58 10S	South	0–1	ALLH	—	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220
RE00-22-253203	00-61716	58 10S	South	4–5	QBT3	—	N3B-2022-2304	N3B-2022-2304	N3B-2022-2304	N3B-2022-2304	N3B-2022-2304	N3B-2022-2304	N3B-2022-2304	N3B-2022-2304
RE00-22-253204	00-61716	58 10S	South	7–8	QBT3	—	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220	N3B-2022-2220
RE00-22-253205	00-61716	58 10S	South	9–10	QBT3	—	N3B-2022-2304	N3B-2022-2304	N3B-2022-2304	N3B-2022-2304	N3B-2022-2304	N3B-2022-2304	N3B-2022-2304	N3B-2022-2304
RE00-22-253206	00-61716	58 10S	South	11–12	QBT3	—	N3B-2022-2304	N3B-2022-2304	N3B-2022-2304	N3B-2022-2304	N3B-2022-2304	N3B-2022-2304	N3B-2022-2304	N3B-2022-2304
RE00-22-253207	00-61717	58 10SE	South	0–1	ALLH	—	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243
RE00-22-253208	00-61717	58 10SE	South	4–5	QBT3	—	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243
RE00-22-253209	00-61717	58 10SE	South	7–8	QBT3	—	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243
RE00-22-253210	00-61717	58 10SE	South	9–10	QBT3	—	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243
RE00-22-253211	00-61717	58 10SE	South	11–12	QBT3	—	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243	N3B-2022-2243
RE00-22-255274	00-61722	2 25ENE	North	0–1	ALLH	—	N3B-2022-3161	N3B-2022-3161	N3B-2022-3161	N3B-2022-3161	N3B-2022-3161	N3B-2022-3161	N3B-2022-3161	N3B-2022-3161
RE00-22-255275	00-61722	2 25ENE	North	3–4	ALLH	—	N3B-2022-3161	N3B-2022-3161	N3B-2022-3161	N3B-2022-3161	N3B-2022-3161	N3B-2022-3161	N3B-2022-3161	N3B-2022-3161
RE00-22-255276	00-61722	2 25ENE	North	6.5–7.5	QBT3	—	N3B-2022-3161	N3B-2022-3161	N3B-2022-3161	N3B-2022-3161	N3B-2022-3161	N3B-2022-3161	N3B-2022-3161	N3B-2022-3161
RE00-22-255285	00-61725	2 19N	North	6.5–7.5	QBT3	—	N3B-2022-3206	N3B-2022-3206	N3B-2022-3206	N3B-2022-3206	N3B-2022-3206	N3B-2022-3206	N3B-2022-3206	N3B-2022-3206
RE00-22-255286	00-61726	2 15NW	North	0–1	ALLH	—	N3B-2022-3206	N3B-2022-3206	N3B-2022-3206	N3B-2022-3206	N3B-2022-3206	N3B-2022-3206	N3B-2022-3206	N3B-2022-3206
RE00-22-255287	00-61726	2 15NW	North	3–4	ALLH	—	N3B-2022-3206	N3B-2022-3206	N3B-2022-3206	N3B-2022-3206	N3B-2022-3206	N3B-2022-3206	N3B-2022-3206	N3B-2022-3206
RE00-22-255288	00-61726	2 15NW	North	6.5–7.5	ALLH	—	N3B-2022-3206	N3B-2022-3206	N3B-2022-3206	N3B-2022-3206	N3B-2022-3206	N3B-2022-3206	N3B-2022-3206	N3B-2022-3206
RE00-22-255289	00-61727	2 20NW	North	0–1	ALLH	—	N3B-2023-30	N3B-2023-30	N3B-2023-30	N3B-2023-30	N3B-2023-30	N3B-2023-30	N3B-2023-30	N3B-2023-30
RE00-22-255290	00-61727	2 20NW	North	3–4	ALLH	—	N3B-2023-30	N3B-2023-30	N3B-2023-30	N3B-2023-30	N3B-2023-30	N3B-2023-30	N3B-2023-30	N3B-2023-30
RE00-22-255291	00-61727	2 20NW	North	6.5–7.5	ALLH	—	N3B-2023-30	N3B-2023-30	N3B-2023-30	N3B-2023-30	N3B-2023-30	N3B-2023-30	N3B-2023-30	N3B-2023-30
RE00-22-255294	00-61728	2 24N	North	6.5–7.5	QBT3	—	N3B-2023-30	N3B-2023-30	N3B-2023-30	N3B-2023-30	N3B-2023-30	N3B-2023-30	N3B-2023-30	N3B-2023-30
RE00-22-255295	00-61729	2 24NE	North	0–1	ALLH	—	N3B-2023-30	N3B-2023-30	N3B-2023-30	N3B-2023-30	N3B-2023-30	N3B-2023-30	N3B-2023-30	N3B-2023-30
RE00-22-255296	00-61729	2 24NE	North	3–4	ALLH	—	N3B-2023-30	N3B-2023-30	N3B-2023-30	N3B-2023-30	N3B-2023-30	N3B-2023-30	N3B-2023-30	N3B-2023-30
RE00-22-255297	00-61729	2 24NE	North	6.5–7.5	QBT3	—	N3B-2023-30	N3B-2023-30	N3B-2023-30	N3B-2023-30	N3B-2023-30	N3B-2023-30	N3B-2023-30	N3B-2023-30
RE00-23-259861	00-61736	SE3	North	0–1	ALLH	—	N3B-2023-565	N3B-2023-565	N3B-2023-565	N3B-2023-565	N3B-2023-565	N3B-2023-565	N3B-2023-565	N3B-2023-565
RE00-23-259862	00-61736	SE3	North	3–4	ALLH	—	N3B-2023-565	N3B-2023-565	N3B-2023-565	N3B-2023-565	N3B-2023-565	N3B-2023-565	N3B-2023-565	N3B-2023-565
RE00-23-259863	00-61736	SE3	North	6.5–7.5	QBT3	—	N3B-2023-565	N3B-2023-565	N3B-2023-565	N3B-2023-565	N3B-2023-565	N3B-2023-565	N3B-2023-565	N3B-2023-565
RE00-23-259864	00-61737	NE2	North	0–1	ALLH	—	N3B-2023-580	N3B-2023-580	N3B-2023-580	N3B-2023-580	N3B-2023-580	N3B-2023-580	N3B-2023-580	N3B-2023-580

Table 3.1-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Explosive Compounds	Gamma-Emitting Radionuclides	Americium-241	Isotopic Plutonium	Isotopic Thorium	Isotopic Uranium	Strontium-90	Tritium	Technetium-99
RE00-23-259865	00-61737	NE2	North	3–4	ALLH	—	N3B-2023-580	N3B-2023-580	N3B-2023-580	N3B-2023-580	N3B-2023-580	N3B-2023-580	N3B-2023-580	N3B-2023-580
RE00-23-259866	00-61737	NE2	North	6.5–7.5	QBT3	—	N3B-2023-580	N3B-2023-580	N3B-2023-580	N3B-2023-580	N3B-2023-580	N3B-2023-580	N3B-2023-580	N3B-2023-580
RE00-23-259867	00-61738	NE1	North	0–1	ALLH	—	N3B-2023-580	N3B-2023-580	N3B-2023-580	N3B-2023-580	N3B-2023-580	N3B-2023-580	N3B-2023-580	N3B-2023-580
RE00-23-259868	00-61738	NE1	North	3–4	ALLH	—	N3B-2023-580	N3B-2023-580	N3B-2023-580	N3B-2023-580	N3B-2023-580	N3B-2023-580	N3B-2023-580	N3B-2023-580
RE00-23-259869	00-61738	NE1	North	6.5–7.5	QBT3	—	N3B-2023-580	N3B-2023-580	N3B-2023-580	N3B-2023-580	N3B-2023-580	N3B-2023-580	N3B-2023-580	N3B-2023-580
RE00-23-282088	00-61739	NE6	North	17–18	QBT3	—	N3B-2023-2120	N3B-2023-2120	N3B-2023-2120	N3B-2023-2120	N3B-2023-2120	N3B-2023-2120	N3B-2023-2120	N3B-2023-2120
RE00-23-282089	00-61739	NE6	North	19–20	QBT3	—	N3B-2023-2120	N3B-2023-2120	N3B-2023-2120	N3B-2023-2120	N3B-2023-2120	N3B-2023-2120	N3B-2023-2120	N3B-2023-2120
RE00-23-259873	00-61740	2 25NW	North	0–1	ALLH	—	N3B-2023-621	N3B-2023-621	N3B-2023-621	N3B-2023-621	N3B-2023-621	N3B-2023-621	N3B-2023-621	N3B-2023-621
RE00-23-259874	00-61740	2 25NW	North	3–4	ALLH	—	N3B-2023-621	N3B-2023-621	N3B-2023-621	N3B-2023-621	N3B-2023-621	N3B-2023-621	N3B-2023-621	N3B-2023-621
RE00-23-259875	00-61740	2 25NW	North	6.5–7.5	QBT3	—	N3B-2023-621	N3B-2023-621	N3B-2023-621	N3B-2023-621	N3B-2023-621	N3B-2023-621	N3B-2023-621	N3B-2023-621
RE00-23-259876	00-61741	N1	North	0–1	ALLH	—	N3B-2023-621	N3B-2023-621	N3B-2023-621	N3B-2023-621	N3B-2023-621	N3B-2023-621	N3B-2023-621	N3B-2023-621
RE00-23-259877	00-61741	N1	North	3–4	ALLH	—	N3B-2023-621	N3B-2023-621	N3B-2023-621	N3B-2023-621	N3B-2023-621	N3B-2023-621	N3B-2023-621	N3B-2023-621
RE00-23-259878	00-61741	N1	North	6.5–7.5	QBT3	—	N3B-2023-621	N3B-2023-621	N3B-2023-621	N3B-2023-621	N3B-2023-621	N3B-2023-621	N3B-2023-621	N3B-2023-621
RE00-23-259882	00-61743	SE2	North	0–1	ALLH	N3B-2023-565	N3B-2023-565	N3B-2023-565	N3B-2023-565	N3B-2023-565	N3B-2023-565	N3B-2023-565	N3B-2023-565	N3B-2023-565
RE00-23-259883	00-61743	SE2	North	3–4	ALLH	N3B-2023-565	N3B-2023-565	N3B-2023-565	N3B-2023-565	N3B-2023-565	N3B-2023-565	N3B-2023-565	N3B-2023-565	N3B-2023-565
RE00-23-259884	00-61743	SE2	North	6.5–7.5	QBT3	N3B-2023-565	N3B-2023-565	N3B-2023-565	N3B-2023-565	N3B-2023-565	N3B-2023-565	N3B-2023-565	N3B-2023-565	N3B-2023-565
RE00-23-265182	00-61744	N2	North	0–1	ALLH	N3B-2023-771	N3B-2023-771	N3B-2023-771	N3B-2023-771	N3B-2023-771	N3B-2023-771	N3B-2023-771	N3B-2023-771	N3B-2023-771
RE00-23-265183	00-61744	N2	North	3–4	ALLH	N3B-2023-771	N3B-2023-771	N3B-2023-771	N3B-2023-771	N3B-2023-771	N3B-2023-771	N3B-2023-771	N3B-2023-771	N3B-2023-771
RE00-23-265184	00-61744	N2	North	6.5–7.5	QBT3	N3B-2023-771	N3B-2023-771	N3B-2023-771	N3B-2023-771	N3B-2023-771	N3B-2023-771	N3B-2023-771	N3B-2023-771	N3B-2023-771
RE00-23-265179	00-61745	NE10	North	0–1	ALLH	—	N3B-2023-749	N3B-2023-749	N3B-2023-749	N3B-2023-749	N3B-2023-749	N3B-2023-749	N3B-2023-749	N3B-2023-749
RE00-23-265180	00-61745	NE10	North	3–4	ALLH	—	N3B-2023-749	N3B-2023-749	N3B-2023-749	N3B-2023-749	N3B-2023-749	N3B-2023-749	N3B-2023-749	N3B-2023-749
RE00-23-264877	00-61745	NE10	North	6.5–7.5	QBT3	—	N3B-2023-650	N3B-2023-650	N3B-2023-650	N3B-2023-650	N3B-2023-650	N3B-2023-650	N3B-2023-650	N3B-2023-650
RE00-23-264878	00-61746	N5	North	0–1	ALLH	—	N3B-2023-650	N3B-2023-650	N3B-2023-650	N3B-2023-650	N3B-2023-650	N3B-2023-650	N3B-2023-650	N3B-2023-650
RE00-23-264879	00-61746	N5	North	3–4	ALLH	—	N3B-2023-650	N3B-2023-650	N3B-2023-650	N3B-2023-650	N3B-2023-650	N3B-2023-650	N3B-2023-650	N3B-2023-650
RE00-23-264880	00-61746	N5	North	6.5–7.5	QBT3	—	N3B-2023-650	N3B-2023-650	N3B-2023-650	N3B-2023-650	N3B-2023-650	N3B-2023-650	N3B-2023-650	N3B-2023-650
RE00-23-264881	00-61747	N4	North	0–1	ALLH	—	N3B-2023-650	N3B-2023-650	N3B-2023-650	N3B-2023-650	N3B-2023-650	N3B-2023-650	N3B-2023-650	N3B-2023-650
RE00-23-264882	00-61747	N4	North	3–4	ALLH	—	N3B-2023-650	N3B-2023-650	N3B-2023-650	N3B-2023-650	N3B-2023-650	N3B-2023-650	N3B-2023-650	N3B-2023-650
RE00-23-264883	00-61747	N4	North	6.5–7.5	QBT3	—	N3B-2023-650	N3B-2023-650	N3B-2023-650	N3B-2023-650	N3B-2023-650	N3B-2023-650	N3B-2023-650	N3B-2023-650
RE00-23-264884	00-61748	NE4	North	0–1	ALLH	—	N3B-2023-664	N3B-2023-664	N3B-2023-664	N3B-2023-664	N3B-2023-664	N3B-2023-664	N3B-2023-664	N3B-2023-664
RE00-23-264885	00-61748	NE4	North	3–4	ALLH	—	N3B-2023-664	N3B-2023-664	N3B-2023-664	N3B-2023-664	N3B-2023-664	N3B-2023-664	N3B-2023-664	N3B-2023-664
RE00-23-264886	00-61748	NE4	North	6.5–7.5	ALLH	—	N3B-2023-664	N3B-2023-664	N3B-2023-664	N3B-2023-664	N3B-2023-664	N3B-2023-664	N3B-2023-664	N3B-2023-664
RE00-23-265185	00-61749	N3	North	0–1	ALLH	N3B-2023-771	N3B-2023-771	N3B-2023-771	N3B-2023-771	N3B-2023-771	N3B-2023-771	N3B-2023-771	N3B-2023-771	N3B-2023-771
RE00-23-265186	00-61749	N3	North	3–4	ALLH	N3B-2023-771	N3B-2023-771	N3B-2023-771	N3B-2023-771	N3B-2023-771	N3B-2023-771	N3B-2023-771	N3B-2023-771	N3B-2023-771
RE00-23-265187	00-61749	N3	North	6.5–7.5	QBT3	N3B-2023-771	N3B-2023-771	N3B-2023-771	N3B-2023-771	N3B-2023-771	N3B-2023-771	N3B-2023-771	N3B-2023-771	N3B-2023-771
RE00-23-265188	00-61750	NE3	North	0–1	ALLH	N3B-2023-749	N3B-2023-749	N3B-2023-749	N3B-2023-749	N3B-2023-749	N3B-2023-749	N3B-2023-749	N3B-2023-749	N3B-2023-749

Table 3.1-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Explosive Compounds	Gamma-Emitting Radionuclides	Americium-241	Isotopic Plutonium	Isotopic Thorium	Isotopic Uranium	Strontium-90	Tritium	Technetium-99
RE00-23-265189	00-61750	NE3	North	3–4	ALLH	N3B-2023-749	N3B-2023-749	N3B-2023-749	N3B-2023-749	N3B-2023-749	N3B-2023-749	N3B-2023-749	N3B-2023-749	N3B-2023-749
RE00-23-265190	00-61750	NE3	North	6.5–7.5	QBT3	N3B-2023-749	N3B-2023-749	N3B-2023-749	N3B-2023-749	N3B-2023-749	N3B-2023-749	N3B-2023-749	N3B-2023-749	N3B-2023-749
RE00-23-264893	00-61751	2 20NEV	North	9–10	QBT3	—	N3B-2023-664	N3B-2023-664	N3B-2023-664	N3B-2023-664	N3B-2023-664	N3B-2023-664	N3B-2023-664	N3B-2023-664
RE00-23-264894	00-61751	2 20NEV	North	11–12	QBT3	—	N3B-2023-664	N3B-2023-664	N3B-2023-664	N3B-2023-664	N3B-2023-664	N3B-2023-664	N3B-2023-664	N3B-2023-664
RE00-23-264896	00-61752	N6	North	0–1	ALLH	—	N3B-2023-731	N3B-2023-731	N3B-2023-731	N3B-2023-731	N3B-2023-731	N3B-2023-731	N3B-2023-731	N3B-2023-731
RE00-23-264897	00-61752	N6	North	3–4	ALLH	—	N3B-2023-731	N3B-2023-731	N3B-2023-731	N3B-2023-731	N3B-2023-731	N3B-2023-731	N3B-2023-731	N3B-2023-731
RE00-23-264898	00-61752	N6	North	6.5–7.5	QBT3	—	N3B-2023-731	N3B-2023-731	N3B-2023-731	N3B-2023-731	N3B-2023-731	N3B-2023-731	N3B-2023-731	N3B-2023-731
RE00-23-264899	00-61753	NE5	North	0–1	ALLH	—	N3B-2023-731	N3B-2023-731	N3B-2023-731	N3B-2023-731	N3B-2023-731	N3B-2023-731	N3B-2023-731	N3B-2023-731
RE00-23-264900	00-61753	NE5	North	3–4	ALLH	—	N3B-2023-749	N3B-2023-749	N3B-2023-749	N3B-2023-749	N3B-2023-749	N3B-2023-749	N3B-2023-749	N3B-2023-749
RE00-23-264901	00-61753	NE5	North	6.5–7.5	QBT3	—	N3B-2023-749	N3B-2023-749	N3B-2023-749	N3B-2023-749	N3B-2023-749	N3B-2023-749	N3B-2023-749	N3B-2023-749
RE00-23-264902	00-61754	SE1V	North	9–10	QBT3	—	N3B-2023-1119	N3B-2023-1119	N3B-2023-1119	N3B-2023-1119	N3B-2023-1119	N3B-2023-1119	N3B-2023-1119	N3B-2023-1119
RE00-23-264903	00-61754	SE1V	North	11–12	QBT3	—	N3B-2023-1119	N3B-2023-1119	N3B-2023-1119	N3B-2023-1119	N3B-2023-1119	N3B-2023-1119	N3B-2023-1119	N3B-2023-1119
RE00-23-264908	00-61756	SE10	North	0–1	ALLH	—	N3B-2023-1479	N3B-2023-1479	N3B-2023-1479	N3B-2023-1479	N3B-2023-1479	N3B-2023-1479	N3B-2023-1479	N3B-2023-1479
RE00-23-264909	00-61756	SE10	North	3–4	ALLH	—	N3B-2023-1479	N3B-2023-1479	N3B-2023-1479	N3B-2023-1479	N3B-2023-1479	N3B-2023-1479	N3B-2023-1479	N3B-2023-1479
RE00-23-264910	00-61756	SE10	North	5–6	QBT3	—	N3B-2023-1479	N3B-2023-1479	N3B-2023-1479	N3B-2023-1479	N3B-2023-1479	N3B-2023-1479	N3B-2023-1479	N3B-2023-1479
RE00-23-267856	00-61757	SE4	North	0–1	ALLH	—	N3B-2023-1105	N3B-2023-1105	N3B-2023-1105	N3B-2023-1105	N3B-2023-1105	N3B-2023-1105	N3B-2023-1105	N3B-2023-1105
RE00-23-267857	00-61757	SE4	North	3–4	ALLH	—	N3B-2023-1105	N3B-2023-1105	N3B-2023-1105	N3B-2023-1105	N3B-2023-1105	N3B-2023-1105	N3B-2023-1105	N3B-2023-1105
RE00-23-267858	00-61757	SE4	North	6.5–7.5	QBT3	—	N3B-2023-1105	N3B-2023-1105	N3B-2023-1105	N3B-2023-1105	N3B-2023-1105	N3B-2023-1105	N3B-2023-1105	N3B-2023-1105
RE00-23-267859	00-61758	SE7	North	0–1	ALLH	—	N3B-2023-1105	N3B-2023-1105	N3B-2023-1105	N3B-2023-1105	N3B-2023-1105	N3B-2023-1105	N3B-2023-1105	N3B-2023-1105
RE00-23-267860	00-61758	SE7	North	3–4	ALLH	—	N3B-2023-1105	N3B-2023-1105	N3B-2023-1105	N3B-2023-1105	N3B-2023-1105	N3B-2023-1105	N3B-2023-1105	N3B-2023-1105
RE00-23-267861	00-61758	SE7	North	6.5–7.5	QBT3	—	N3B-2023-1105	N3B-2023-1105	N3B-2023-1105	N3B-2023-1105	N3B-2023-1105	N3B-2023-1105	N3B-2023-1105	N3B-2023-1105
RE00-23-267871	00-61762	NE7	North	0–1	ALLH	—	N3B-2023-1236	N3B-2023-1236	N3B-2023-1236	N3B-2023-1236	N3B-2023-1236	N3B-2023-1236	N3B-2023-1236	N3B-2023-1236
RE00-23-267872	00-61762	NE7	North	3–4	ALLH	—	N3B-2023-1236	N3B-2023-1236	N3B-2023-1236	N3B-2023-1236	N3B-2023-1236	N3B-2023-1236	N3B-2023-1236	N3B-2023-1236
RE00-23-267873	00-61762	NE7	North	6–7	QBT3	—	N3B-2023-1236	N3B-2023-1236	N3B-2023-1236	N3B-2023-1236	N3B-2023-1236	N3B-2023-1236	N3B-2023-1236	N3B-2023-1236
RE00-23-267874	00-61763	NE28	North	0–1	ALLH	—	N3B-2023-1328	N3B-2023-1328	N3B-2023-1328	N3B-2023-1328	N3B-2023-1328	N3B-2023-1328	N3B-2023-1328	N3B-2023-1328
RE00-23-267875	00-61763	NE28	North	3–4	ALLH	—	N3B-2023-1328	N3B-2023-1328	N3B-2023-1328	N3B-2023-1328	N3B-2023-1328	N3B-2023-1328	N3B-2023-1328	N3B-2023-1328
RE00-23-267876	00-61763	NE28	North	5–6	QBT3	—	N3B-2023-1328	N3B-2023-1328	N3B-2023-1328	N3B-2023-1328	N3B-2023-1328	N3B-2023-1328	N3B-2023-1328	N3B-2023-1328
RE00-23-267877	00-61764	NE23	North	0–1	ALLH	—	N3B-2023-1328	N3B-2023-1328	N3B-2023-1328	N3B-2023-1328	N3B-2023-1328	N3B-2023-1328	N3B-2023-1328	N3B-2023-1328
RE00-23-267878	00-61764	NE23	North	3–4	ALLH	—	N3B-2023-1328	N3B-2023-1328	N3B-2023-1328	N3B-2023-1328	N3B-2023-1328	N3B-2023-1328	N3B-2023-1328	N3B-2023-1328
RE00-23-267879	00-61764	NE23	North	5–6	QBT3	—	N3B-2023-1328	N3B-2023-1328	N3B-2023-1328	N3B-2023-1328	N3B-2023-1328	N3B-2023-1328	N3B-2023-1328	N3B-2023-1328
RE00-23-267882	00-61765	NE24	North	5–6	QBT3	—	N3B-2023-1328	N3B-2023-1328	N3B-2023-1328	N3B-2023-1328	N3B-2023-1328	N3B-2023-1328	N3B-2023-1328	N3B-2023-1328
RE00-23-267886	00-61767	NE26	North	0–1	ALLH	—	N3B-2023-1374	N3B-2023-1374	N3B-2023-1374	N3B-2023-1374	N3B-2023-1374	N3B-2023-1374	N3B-2023-1374	N3B-2023-1374
RE00-23-267887	00-61767	NE26	North	3–4	ALLH	—	N3B-2023-1374	N3B-2023-1374	N3B-2023-1374	N3B-2023-1374	N3B-2023-1374	N3B-2023-1374	N3B-2023-1374	N3B-2023-1374
RE00-23-267888	00-61767	NE26	North	5–6	QBT3	—	N3B-2023-1374	N3B-2023-1374	N3B-2023-1374	N3B-2023-1374	N3B-2023-1374	N3B-2023-1374	N3B-2023-1374	N3B-2023-1374
RE00-23-267889	00-61768	NE29	North	0.5–1.5	ALLH	—	N3B-2023-1396	N3B-2023-1396	N3B-2023-1396	N3B-2023-1396	N3B-2023-1396	N3B-2023-1396	N3B-2023-1396	N3B-2023-1396

Table 3.1-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Explosive Compounds	Gamma-Emitting Radionuclides	Americium-241	Isotopic Plutonium	Isotopic Thorium	Isotopic Uranium	Strontium-90	Tritium	Technetium-99
RE00-23-267890	00-61768	NE29	North	3.5–4.5	QBT3	—	N3B-2023-1396	N3B-2023-1396	N3B-2023-1396	N3B-2023-1396	N3B-2023-1396	N3B-2023-1396	N3B-2023-1396	N3B-2023-1396
RE00-23-267891	00-61768	NE29	North	5.5–6.5	QBT3	—	N3B-2023-1396	N3B-2023-1396	N3B-2023-1396	N3B-2023-1396	N3B-2023-1396	N3B-2023-1396	N3B-2023-1396	N3B-2023-1396
RE00-23-271182	00-61775	NE34	North	3.5–4.5	QBT3	N3B-2023-1443	N3B-2023-1442	N3B-2023-1442	N3B-2023-1442	N3B-2023-1442	N3B-2023-1442	N3B-2023-1442	N3B-2023-1442	N3B-2023-1442
RE00-23-271183	00-61775	NE34	North	5.5–6.5	QBT3	N3B-2023-1443	N3B-2023-1442	N3B-2023-1442	N3B-2023-1442	N3B-2023-1442	N3B-2023-1442	N3B-2023-1442	N3B-2023-1442	N3B-2023-1442
RE00-23-271187	00-61776	NE25	North	5–6	QBT3	—	N3B-2023-1425	N3B-2023-1425	N3B-2023-1425	N3B-2023-1425	N3B-2023-1425	N3B-2023-1425	N3B-2023-1425	N3B-2023-1425
RE00-23-271191	00-61778	NE37	North	2–4	ALLH	—	N3B-2023-1472	N3B-2023-1472	N3B-2023-1472	N3B-2023-1472	N3B-2023-1472	N3B-2023-1472	N3B-2023-1472	N3B-2023-1472
RE00-23-271192	00-61778	NE37	North	4–5	QBT3	—	N3B-2023-1472	N3B-2023-1472	N3B-2023-1472	N3B-2023-1472	N3B-2023-1472	N3B-2023-1472	N3B-2023-1472	N3B-2023-1472
RE00-23-271196	00-61779	SE11	North	6.5–7.5	QBT3	—	N3B-2023-1507	N3B-2023-1507	N3B-2023-1507	N3B-2023-1507	N3B-2023-1507	N3B-2023-1507	N3B-2023-1507	N3B-2023-1507
RE00-23-271197	00-61780	NE20	North	0–1	ALLH	—	N3B-2023-1774	N3B-2023-1774	N3B-2023-1774	N3B-2023-1774	N3B-2023-1774	N3B-2023-1774	N3B-2023-1774	N3B-2023-1774
RE00-23-271198	00-61780	NE20	North	3–4	ALLH	—	N3B-2023-1774	N3B-2023-1774	N3B-2023-1774	N3B-2023-1774	N3B-2023-1774	N3B-2023-1774	N3B-2023-1774	N3B-2023-1774
RE00-23-271199	00-61780	NE20	North	6.5–7.5	QBT3	—	N3B-2023-1774	N3B-2023-1774	N3B-2023-1774	N3B-2023-1774	N3B-2023-1774	N3B-2023-1774	N3B-2023-1774	N3B-2023-1774
RE00-23-271200	00-61781	NE21	North	0–1	ALLH	—	N3B-2023-1785	N3B-2023-1785	N3B-2023-1785	N3B-2023-1785	N3B-2023-1785	N3B-2023-1785	N3B-2023-1785	N3B-2023-1785
RE00-23-271201	00-61781	NE21	North	3–4	ALLH	—	N3B-2023-1785	N3B-2023-1785	N3B-2023-1785	N3B-2023-1785	N3B-2023-1785	N3B-2023-1785	N3B-2023-1785	N3B-2023-1785
RE00-23-271202	00-61781	NE21	North	6.5–7.5	ALLH	—	N3B-2023-1785	N3B-2023-1785	N3B-2023-1785	N3B-2023-1785	N3B-2023-1785	N3B-2023-1785	N3B-2023-1785	N3B-2023-1785
RE00-23-271203	00-61782	NE54	North	0–1	ALLH	—	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812
RE00-23-271204	00-61782	NE54	North	3–4	ALLH	—	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812
RE00-23-271205	00-61782	NE54	North	6.5–7.5	QBT3	—	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812
RE00-23-271206	00-61783	NE53	North	0–1	ALLH	—	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812
RE00-23-271207	00-61783	NE53	North	3–4	ALLH	—	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812
RE00-23-271208	00-61783	NE53	North	6.5–7.5	QBT3	—	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812
RE00-23-271209	00-61784	SE14	North	0–1	ALLH	—	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812
RE00-23-271210	00-61784	SE14	North	3–4	ALLH	—	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812
RE00-23-271211	00-61784	SE14	North	5–6	QBT3	—	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812	N3B-2023-1812
RE00-23-271212	00-61785	SE13	North	2–3	ALLH	—	N3B-2023-1842	N3B-2023-1842	N3B-2023-1842	N3B-2023-1842	N3B-2023-1842	N3B-2023-1842	N3B-2023-1842	N3B-2023-1842
RE00-23-271213	00-61785	SE13	North	4–5	QBT3	—	N3B-2023-1842	N3B-2023-1842	N3B-2023-1842	N3B-2023-1842	N3B-2023-1842	N3B-2023-1842	N3B-2023-1842	N3B-2023-1842
RE00-23-271215	00-61786	SE12	North	0–1	ALLH	N3B-2023-1508	N3B-2023-1507	N3B-2023-1507	N3B-2023-1507	N3B-2023-1507	N3B-2023-1507	N3B-2023-1507	N3B-2023-1507	N3B-2023-1507
RE00-23-271216	00-61786	SE12	North	3–4	ALLH	N3B-2023-1508	N3B-2023-1507	N3B-2023-1507	N3B-2023-1507	N3B-2023-1507	N3B-2023-1507	N3B-2023-1507	N3B-2023-1507	N3B-2023-1507
RE00-23-271217	00-61786	SE12	North	11–12	QBT3	N3B-2023-1508	N3B-2023-1507	N3B-2023-1507	N3B-2023-1507	N3B-2023-1507	N3B-2023-1507	N3B-2023-1507	N3B-2023-1507	N3B-2023-1507
RE00-23-271218	00-61787	SE15	North	0–1	ALLH	—	N3B-2023-1842	N3B-2023-1842	N3B-2023-1842	N3B-2023-1842	N3B-2023-1842	N3B-2023-1842	N3B-2023-1842	N3B-2023-1842
RE00-23-271219	00-61787	SE15	North	3–4	ALLH	—	N3B-2023-1842	N3B-2023-1842	N3B-2023-1842	N3B-2023-1842	N3B-2023-1842	N3B-2023-1842	N3B-2023-1842	N3B-2023-1842
RE00-23-271220	00-61787	SE15	North	11.5–12.5	QBT3	—	N3B-2023-1842	N3B-2023-1842	N3B-2023-1842	N3B-2023-1842	N3B-2023-1842	N3B-2023-1842	N3B-2023-1842	N3B-2023-1842
RE00-23-271227	00-61790	NE45	North	0.5–1.5	ALLH	—	N3B-2023-1873	N3B-2023-1873	N3B-2023-1873	N3B-2023-1873	N3B-2023-1873	N3B-2023-1873	N3B-2023-1873	N3B-2023-2104
RE00-23-271228	00-61790	NE45	North	2.5–3.5	QBT3	—	N3B-2023-1873	N3B-2023-1873	N3B-2023-1873	N3B-2023-1873	N3B-2023-1873	N3B-2023-1873	N3B-2023-1873	N3B-2023-1873
RE00-23-271230	00-61791	NE47	North	1–2	ALLH	—	N3B-2023-1873	N3B-2023-1873	N3B-2023-1873	N3B-2023-1873	N3B-2023-1873	N3B-2023-1873	N3B-2023-1873	N3B-2023-2104
RE00-23-271231	00-61791	NE47	North	2.5–3.5	QBT3	—	N3B-2023-1873	N3B-2023-1873	N3B-2023-1873	N3B-2023-1873	N3B-2023-1873	N3B-2023-1873	N3B-2023-1873	N3B-2023-1873

Table 3.1-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Explosive Compounds	Gamma-Emitting Radionuclides	Americium-241	Isotopic Plutonium	Isotopic Thorium	Isotopic Uranium	Strontium-90	Tritium	Technetium-99
RE00-23-271233	00-61792	NE55	North	0–1	ALLH	N3B-2023-1786	N3B-2023-1785	N3B-2023-1785	N3B-2023-1785	N3B-2023-1785	N3B-2023-1785	N3B-2023-1785	N3B-2023-1785	N3B-2023-1785
RE00-23-271234	00-61792	NE55	North	3–4	ALLH	N3B-2023-1786	N3B-2023-1785	N3B-2023-1785	N3B-2023-1785	N3B-2023-1785	N3B-2023-1785	N3B-2023-1785	N3B-2023-1785	N3B-2023-1785
RE00-23-271235	00-61792	NE55	North	6.5–7.5	QBT3	N3B-2023-1786	N3B-2023-1785	N3B-2023-1785	N3B-2023-1785	N3B-2023-1785	N3B-2023-1785	N3B-2023-1785	N3B-2023-1785	N3B-2023-1785
RE00-23-271236	00-61793	NE38	North	3–4	ALLH	N3B-2023-1845	N3B-2023-1842	N3B-2023-1842	N3B-2023-1842	N3B-2023-1842	N3B-2023-1842	N3B-2023-1842	N3B-2023-1842	N3B-2023-1842
RE00-23-271237	00-61793	NE38	North	5–6	QBT3	N3B-2023-1845	N3B-2023-1842	N3B-2023-1842	N3B-2023-1842	N3B-2023-1842	N3B-2023-1842	N3B-2023-1842	N3B-2023-1842	N3B-2023-1842
RE00-23-271239	00-61794	NE39	North	0.5–1.5	ALLH	N3B-2023-1862	N3B-2023-1861	N3B-2023-1861	N3B-2023-1861	N3B-2023-1861	N3B-2023-1861	N3B-2023-1861	N3B-2023-1861	N3B-2023-1861
RE00-23-271240	00-61794	NE39	North	2–3	QBT3	N3B-2023-1862	N3B-2023-1861	N3B-2023-1861	N3B-2023-1861	N3B-2023-1861	N3B-2023-1861	N3B-2023-1861	N3B-2023-1861	N3B-2023-1861
RE00-23-271242	00-61795	NE48	North	3.5–4.5	QBT3	—	N3B-2023-1886	N3B-2023-1886	N3B-2023-1886	N3B-2023-1886	N3B-2023-1886	N3B-2023-1886	N3B-2023-1886	N3B-2023-2104
RE00-23-271243	00-61795	NE48	North	5.5–6.5	QBT3	—	N3B-2023-1886	N3B-2023-1886	N3B-2023-1886	N3B-2023-1886	N3B-2023-1886	N3B-2023-1886	N3B-2023-1886	N3B-2023-2104
RE00-23-271248	00-61797	NE56	North	0–1	ALLH	—	N3B-2023-1976	N3B-2023-1976	N3B-2023-1976	N3B-2023-1976	N3B-2023-1976	N3B-2023-1976	N3B-2023-1976	N3B-2023-1976
RE00-23-271249	00-61797	NE56	North	2–3	QBT3	—	N3B-2023-1976	N3B-2023-1976	N3B-2023-1976	N3B-2023-1976	N3B-2023-1976	N3B-2023-1976	N3B-2023-1976	N3B-2023-1976
RE00-23-282091	00-61799	NE60	North	0–1	ALLH	—	N3B-2023-2081	N3B-2023-2081	N3B-2023-2081	N3B-2023-2081	N3B-2023-2081	N3B-2023-2081	N3B-2023-2081	N3B-2023-2081
RE00-23-282092	00-61799	NE60	North	2–3	QBT3	—	N3B-2023-2081	N3B-2023-2081	N3B-2023-2081	N3B-2023-2081	N3B-2023-2081	N3B-2023-2081	N3B-2023-2081	N3B-2023-2081
RE00-23-289091	00-61804	NE68	North	0–1	ALLH	N3B-2023-2732	N3B-2023-2732	N3B-2023-2732	N3B-2023-2732	N3B-2023-2732	N3B-2023-2732	N3B-2023-2732	N3B-2023-2732	N3B-2023-2732
RE00-23-291181	00-61804	NE68	North	0–1	ALLH	—	—	—	—	—	—	—	—	—
RE00-23-289092	00-61804	NE68	North	2–3	QBT3	N3B-2023-2732	N3B-2023-2732	N3B-2023-2732	N3B-2023-2732	N3B-2023-2732	N3B-2023-2732	N3B-2023-2732	N3B-2023-2732	N3B-2023-2732
RE00-23-291182	00-61804	NE68	North	2–3	QBT3	—	—	—	—	—	—	—	—	—
RE00-23-289873	00-61805	NE64	North	18–19	QBT3	—	N3B-2023-2924	N3B-2023-2924	N3B-2023-2924	N3B-2023-2924	N3B-2023-2924	N3B-2023-2924	N3B-2023-2924	N3B-2023-2924
RE00-23-282118	00-61808	NE66	North	0–1	ALLH	—	N3B-2023-2238	N3B-2023-2238	N3B-2023-2238	N3B-2023-2238	N3B-2023-2238	N3B-2023-2238	N3B-2023-2238	N3B-2023-2238
RE00-23-282119	00-61808	NE66	North	2–3	QBT3	—	N3B-2023-2238	N3B-2023-2238	N3B-2023-2238	N3B-2023-2238	N3B-2023-2238	N3B-2023-2238	N3B-2023-2238	N3B-2023-2238
RE00-23-289205	00-61811	NE67	North	0–1	ALLH	—	N3B-2023-2732	N3B-2023-2732	N3B-2023-2732	N3B-2023-2732	N3B-2023-2732	N3B-2023-2732	N3B-2023-2732	N3B-2023-2732
RE00-23-291184	00-61811	NE67	North	0–1	ALLH	—	—	—	—	—	—	—	—	—
RE00-23-289206	00-61811	NE67	North	2–3	QBT3	—	N3B-2023-2732	N3B-2023-2732	N3B-2023-2732	N3B-2023-2732	N3B-2023-2732	N3B-2023-2732	N3B-2023-2732	N3B-2023-2732
RE00-23-291185	00-61811	NE67	North	2–3	QBT3	—	—	—	—	—	—	—	—	—
RE00-23-289519	00-61813	NE80	North	0–1	ALLH	N3B-2023-2820	N3B-2023-2820	N3B-2023-2820	N3B-2023-2820	N3B-2023-2820	N3B-2023-2820	N3B-2023-2820	N3B-2023-2820	N3B-2023-2820
RE00-23-291186	00-61813	NE80	North	0–1	ALLH	—	—	—	—	—	—	—	—	—
RE00-23-289520	00-61813	NE80	North	2–3	ALLH	N3B-2023-2820	N3B-2023-2820	N3B-2023-2820	N3B-2023-2820	N3B-2023-2820	N3B-2023-2820	N3B-2023-2820	N3B-2023-2820	N3B-2023-2820
RE00-23-291187	00-61813	NE80	North	2–3	ALLH	—	—	—	—	—	—	—	—	—
RE00-23-289510	00-61815	NE74	North	0–1	ALLH	—	N3B-2023-2801	N3B-2023-2801	N3B-2023-2801	N3B-2023-2801	N3B-2023-2801	N3B-2023-2801	N3B-2023-2801	N3B-2023-2801
RE00-23-289511	00-61815	NE74	North	2–3	ALLH	—	N3B-2023-2801	N3B-2023-2801	N3B-2023-2801	N3B-2023-2801	N3B-2023-2801	N3B-2023-2801	N3B-2023-2801	N3B-2023-2801
RE00-23-289513	00-61816	NE79	North	0–1	ALLH	—	N3B-2023-2801	N3B-2023-2801	N3B-2023-2801	N3B-2023-2801	N3B-2023-2801	N3B-2023-2801	N3B-2023-2801	N3B-2023-2801
RE00-23-289514	00-61816	NE79	North	2–3	ALLH	—	N3B-2023-2801	N3B-2023-2801	N3B-2023-2801	N3B-2023-2801	N3B-2023-2801	N3B-2023-2801	N3B-2023-2801	N3B-2023-2801
RE00-23-289516	00-61817	NE81	North	0–1	ALLH	—	N3B-2023-2820	N3B-2023-2820	N3B-2023-2820	N3B-2023-2820	N3B-2023-2820	N3B-2023-2820	N3B-2023-2820	N3B-2023-2820
RE00-23-291188	00-61817	NE81	North	0–1	ALLH	—	—	—	—	—	—	—	—	—
RE00-23-289517	00-61817	NE81	North	2–3	QBT3	—	N3B-2023-2820	N3B-2023-2820	N3B-2023-2820	N3B-2023-2820	N3B-2023-2820	N3B-2023-2820	N3B-2023-2820	N3B-2023-2820

Table 3.1-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Explosive Compounds	Gamma-Emitting Radionuclides	Americium-241	Isotopic Plutonium	Isotopic Thorium	Isotopic Uranium	Strontium-90	Tritium	Technetium-99
RE00-23-291189	00-61817	NE81	North	2–3	QBT3	—	—	—	—	—	—	—	—	—
RE00-23-290099	00-61818	NE82	North	0–1	ALLH	N3B-2023-3003	N3B-2023-3003	N3B-2023-3003	N3B-2023-3003	N3B-2023-3003	N3B-2023-3003	N3B-2023-3003	N3B-2023-3003	N3B-2023-3003
RE00-23-291190	00-61818	NE82	North	0–1	ALLH	—	—	—	—	—	—	—	—	—
RE00-23-290100	00-61818	NE82	North	2–3	ALLH	N3B-2023-3003	N3B-2023-3003	N3B-2023-3003	N3B-2023-3003	N3B-2023-3003	N3B-2023-3003	N3B-2023-3003	N3B-2023-3003	N3B-2023-3003
RE00-23-291191	00-61818	NE82	North	2–3	ALLH	—	—	—	—	—	—	—	—	—
RE00-23-290101	00-61818	NE82	North	4–5	QBT3	N3B-2023-3003	N3B-2023-3003	N3B-2023-3003	N3B-2023-3003	N3B-2023-3003	N3B-2023-3003	N3B-2023-3003	N3B-2023-3003	N3B-2023-3003
RE00-23-291192	00-61818	NE82	North	4–5	QBT3	—	—	—	—	—	—	—	—	—

Note: Numbers in analyte columns are request numbers.

[a] Sampling location in northern or southern portion of tract A-16-a.

[b] — = Analysis not requested.

Table 3.1-3
Analytical Methods for Samples Collected from MDPR Site

Analytical Method	Analytical Description	Analytical Suite
EPA Method 300.0	Ion chromatography	Nitrate
SW-846:9056/9056A	Ion chromatography	Nitrate
SW-846:6850	High-performance liquid chromatography/mass spectrometry	Perchlorate
SW-846: 6010/6010B/6010C/6010D	Inductively coupled plasma emission spectroscopy	Aluminum, antimony, arsenic, barium, beryllium, cadmium, calcium, chromium, cobalt, copper, iron, lead, magnesium, manganese, mercury, nickel, potassium, selenium, sodium, silver, thallium, vanadium, and zinc (TAL metals)
SW-846: 6020/6020A/6020B	Inductively coupled plasma/ mass spectrometry	Aluminum, antimony, arsenic, barium, beryllium, cadmium, calcium, chromium, cobalt, copper, iron, lead, magnesium, manganese, nickel, potassium, selenium, sodium, silver, thallium, uranium, vanadium, and zinc (TAL metals plus uranium)
SW-846:9012A/9012B	Colorimetric method	Cyanide (total)
SW-846:7470A	Cold vapor atomic absorption	Mercury
SW-846:7471A/7471B	Graphite furnace atomic absorption	Mercury (TAL metal)
Generic: Uranium KPA (kinetic phosphorescence analysis)	Kinetic phosphorescence analysis	Uranium (total)
EPA SW-846:8321A_MOD	High-performance liquid chromatography/mass spectrometry	Explosive compounds
EPA SW-846:8330B	High-performance liquid chromatography/mass spectrometry	Explosive compounds, nitroaromatics, and nitramines
EPA SW-846:8270C/8270E	Solvent extraction, gas chromatography/mass spectrometry	SVOCs
EPA SW-846:8260B,8260D	Purge and trap, gas chromatography/mass spectrometry	VOCs
EPA SW-846:8082/8082A	Gas chromatography	PCB Aroclors
HASL-300: Am-241	Alpha spectroscopy	Americium-241
EPA Method: 901.1	Gamma spectroscopy	Cesium-134, cesium-137, cobalt-60, sodium-22
EPA Method: 906.0	Liquid scintillation	Tritium
HASL-300: ISOPU	Alpha spectroscopy	Isotopic plutonium
HASL-300: ISOU	Alpha spectroscopy	Isotopic uranium

Table 5.1-1
Inorganic Chemicals Detected above BVs at MDPR Tract A-8-a

Sample ID	Location ID	Borehole ID	Depth (ft)	Media	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron
Soil BV[a]					**29,200**	**0.83**	**8.17**	**295**	**1.83**	**0.4**	**6120**	**19.3**	**8.64**	**14.7**	**21,500**
Qbt 2,3,4 BV[a]					**7340**	**0.5**	**2.79**	**46**	**1.21**	**1.63**	**2200**	**7.14**	**3.14**	**4.66**	**14,500**
Construction Worker SSL[b]					**41,400**	**142**	**41.2**	**4390**	**148**	**72.1**	**na**[c]	**134**[d]	**36.7**	**14,200**	**248,000**
Industrial SSL[b]					**1,290,000**	**519**	**35.9**	**255,000**	**2580**	**1110**	**na**	**505**[d]	**388**	**51,900**	**908,000**
Recreational SSL[e]					**619,000**	**248**	**42.9**	**124,000**	**1240**	**457**	**na**	**281**[d]	**186**	**24,800**	**434,000**
Residential SSL[b]					**78,000**	**31.3**	**7.07**	**15,600**	**156**	**70.5**	**na**	**96.6**[d]	**23.4**	**3130**	**54,800**
RE00-22-238044	00-172	41	12–13	QBT3	—[f]	—	—	—	—	—	—	—	—	—	—
RE00-22-238045	00-172	41	15–16	QBT3	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238048	00-174	34	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238049	00-174	34	4–5	SOIL	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238050	00-174	34	8–9	QBT3	12,000	—	—	51.7 (J-)	—	—	—	8.04	—	6.08	—
RE00-22-238053	00-176	40	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238054	00-176	40	4–5	SOIL	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238055	00-176	40	6.9–8	SOIL	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238058	00-178	46	0–1.1	SOIL	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238059	00-178	46	3–4	SOIL	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238060	00-178	46	6–7	SOIL	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238063	00-180	53	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238064	00-180	53	3–4.2	SOIL	—	—	—	—	—	—	—	—	11.1	—	—
RE00-22-238065	00-180	53	6.9–8	SOIL	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238068	00-182	54	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238069	00-182	54	4–5.5	SOIL	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238070	00-182	54	8.1–9	QBT3	12,900	—	3.5	65.8	—	—	—	8.61	3.46	11	—
RE00-22-238086	00-189	30	0–1	FILL	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238087	00-189	30	4–5.4	SOIL	—	1.32 (J)	—	—	—	—	—	—	—	—	—
RE00-22-238088	00-189	30	10.3–11.3	QBT3	13,200	—	3.94	63.1	—	—	2440	9.92	3.89	6.18	—
RE00-22-238091	00-191	36	11.4–12.4	QBT3	9480	—	2.86	72.7	—	—	2490	7.34	—	—	—
RE00-22-238092	00-191	36	14.5–15.5	QBT3	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238098	00-194	52	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238099	00-194	52	5.5–6.5	QBT3	—	—	3.81	—	—	—	—	—	—	—	—
RE00-22-238210	00-241	38	17–18	QBT3	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238211	00-241	38	20–21	QBT3	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238212	00-242	37	13–14	QBT3	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238213	00-242	37	16–17	QBT3	8720	—	—	113 (J-)	—	—	2220 (J)	—	—	5.23 (J+)	—
RE00-22-238214	00-243	45	14–15	QBT3	8580	0.541 (U)	—	47.8 (J-)	—	—	2320 (J)	—	—	—	—

Table 5.1-1 (continued)

Sample ID	Location ID	Borehole ID	Depth (ft)	Media	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron
Soil BV[a]					**29,200**	**0.83**	**8.17**	**295**	**1.83**	**0.4**	**6120**	**19.3**	**8.64**	**14.7**	**21,500**
Qbt 2,3,4 BV[a]					**7340**	**0.5**	**2.79**	**46**	**1.21**	**1.63**	**2200**	**7.14**	**3.14**	**4.66**	**14,500**
Construction Worker SSL[b]					**41,400**	**142**	**41.2**	**4390**	**148**	**72.1**	**na**	**134[d]**	**36.7**	**14,200**	**248,000**
Industrial SSL[b]					**1,290,000**	**519**	**35.9**	**255,000**	**2580**	**1110**	**na**	**505[d]**	**388**	**51,900**	**908,000**
Recreational SSL[e]					**619,000**	**248**	**42.9**	**124,000**	**1240**	**457**	**na**	**281[d]**	**186**	**24,800**	**434,000**
Residential SSL[b]					**78,000**	**31.3**	**7.07**	**15,600**	**156**	**70.5**	**na**	**96.6[d]**	**23.4**	**3130**	**54,800**
RE00-22-238215	00-243	45	17–18	QBT3	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238216	00-244	50	13–14	QBT3	—	—	—	79.4 (J)	—	—	6200 (J)	—	—	—	—
RE00-22-238217	00-244	50	16–17	QBT3	—	1.65 (U)	—	—	—	—	—	—	—	—	—
RE00-22-238218	00-245	49	11–12	QBT3	—	1.65 (U)	—	—	—	—	—	—	—	—	—
RE00-22-238219	00-245	49	14–15	QBT3	—	1.54 (U)	—	—	—	—	—	—	—	—	—
RE00-22-238220	00-246	48	11–12	QBT3	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238221	00-246	48	14–15	QBT3	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238222	00-247	47	15–16	QBT3	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238223	00-247	47	18–19	QBT3	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238225	00-248	55	13–14	QBT3	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238228	00-250	35	12–13	QBT3	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238229	00-250	35	15–16	QBT3	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238230	00-251	44	15–16	QBT3	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238231	00-251	44	18–19	QBT3	—	—	—	55.2 (J-)	—	—	—	—	—	—	—
RE00-22-238233	00-252	43	14–15	QBT3	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238232	00-252	43	17–18	QBT3	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238234	00-253	42	14–15	QBT3	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238235	00-253	42	17–18	QBT3	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238303	00-61524	32	0–1	FILL	—	—	—	—	—	—	17,300	—	—	—	—
RE00-22-238298	00-61524	32	4–5	FILL	—	—	—	—	—	—	6780	—	—	—	—
RE00-22-238293	00-61524	32	7.2–8.2	FILL	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238288	00-61524	32	15–16	QBT3	9260	—	—	—	—	—	—	—	—	—	—
RE00-22-238304	00-61525	31	0–1	FILL	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238299	00-61525	31	4–5	FILL	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238294	00-61525	31	7–8	SOIL	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238289	00-61525	31	13.8–14.8	QBT3	11,500	1.08 (U)	2.96	—	—	—	2220	9.15	—	5.94	—
RE00-22-238308	00-61529	51	0–1	FILL	—	—	—	—	—	—	17,100	—	—	—	—
RE00-22-238309	00-61529	51	3–4	FILL	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238310	00-61529	51	6–7	SOIL	—	—	—	—	—	—	—	—	—	—	—

Table 5.1-1 (continued)

Sample ID	Location ID	Borehole ID	Depth (ft)	Media	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron
Soil BV[a]					**29,200**	**0.83**	**8.17**	**295**	**1.83**	**0.4**	**6120**	**19.3**	**8.64**	**14.7**	**21,500**
Qbt 2,3,4 BV[a]					**7340**	**0.5**	**2.79**	**46**	**1.21**	**1.63**	**2200**	**7.14**	**3.14**	**4.66**	**14,500**
Construction Worker SSL[b]					**41,400**	**142**	**41.2**	**4390**	**148**	**72.1**	**na**	**134**[d]	**36.7**	**14,200**	**248,000**
Industrial SSL[b]					**1,290,000**	**519**	**35.9**	**255,000**	**2580**	**1110**	**na**	**505**[d]	**388**	**51,900**	**908,000**
Recreational SSL[e]					**619,000**	**248**	**42.9**	**124,000**	**1240**	**457**	**na**	**281**[d]	**186**	**24,800**	**434,000**
Residential SSL[b]					**78,000**	**31.3**	**7.07**	**15,600**	**156**	**70.5**	**na**	**96.6**[d]	**23.4**	**3130**	**54,800**
RE00-22-238311	00-61529	51	10–11	SOIL	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238312	00-61529	51	14.5–15.5	QBT3	—	1.51 (U)	—	—	—	—	—	—	—	—	—
RE00-22-238313	00-61530	39	0–1	FILL	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238314	00-61530	39	4–5	SOIL	—	—	—	—	—	—	6660 (J)	—	—	—	—
RE00-22-238315	00-61530	39	7–8	SOIL	—	1.11 (J)	—	—	—	—	—	—	—	—	—
RE00-22-238316	00-61530	39	9–10	SOIL	—	—	—	—	—	—	—	—	—	17	—
RE00-22-238317	00-61530	39	17–18	QBT3	9390	—	—	52.6	—	—	—	—	—	—	—
RE00-22-238318	00-61531	33	0–1	FILL	—	—	—	—	—	0.853	—	—	—	—	—
RE00-22-238322	00-61531	33	4–5	FILL	—	—	—	—	—	—	6310	—	—	—	—
RE00-22-238321	00-61531	33	7–8	FILL	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238319	00-61531	33	9–10	FILL	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238276	00-61531	33	14–15	QBT3	—	—	—	—	—	—	—	—	—	—	—
RE00-22-248883	00-61567	55 5N	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	—
RE00-22-248884	00-61567	55 5N	3–4	SOIL	—	—	—	—	—	—	—	—	—	—	—
RE00-22-248885	00-61567	55 5N	7–8	SOIL	—	—	—	—	—	—	—	—	—	—	—
RE00-22-248886	00-61567	55 5N	10–11	QBT3	—	—	—	—	—	—	—	—	—	—	—
RE00-22-248887	00-61567	55 5N	12–13	QBT3	—	—	—	—	—	—	—	—	—	—	—
RE00-22-248971	00-61595	53 5W	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	—
RE00-22-248972	00-61595	53 5W	4–5	SOIL	—	—	—	—	—	—	—	—	—	—	—
RE00-22-248973	00-61595	53 5W	7–8	QBT3	16,800	0.65 (J)	3.49	286	—	—	3900	12.6	3.16 (J+)	6.4	—
RE00-22-249066	00-61595	53 5W	9–10	QBT3	—	—	—	153	—	—	4400	—	—	—	—
RE00-22-249006	00-61595	53 5W	11–12	QBT3	—	—	—	—	—	—	—	—	—	—	—
RE00-22-248976	00-61596	53 5n	7–8	QBT3	15,200	—	—	92	—	—	3190	21.7	4.21 (J+)	6.74	—
RE00-22-248978	00-61597	55 5E	12–13	QBT3	—	0.663 (U)	—	—	—	—	—	—	—	—	—
RE00-22-248980	00-61598	55 5S	10–11	QBT3	—	0.894 (U)	—	—	—	—	—	11.1 (J)	—	—	—
RE00-22-248981	00-61598	55 5S	12–13	QBT3	—	0.721 (U)	—	—	—	—	—	11.7 (J)	—	—	—
RE00-22-248995	00-61603	53 10N	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	—
RE00-22-248996	00-61603	53 10N	4–5	SOIL	—	—	—	—	—	—	—	—	—	—	—
RE00-22-248997	00-61603	53 10N	7–8	QBT3	—	—	—	—	—	—	—	—	—	—	—

Table 5.1-1 (continued)

Sample ID	Location ID	Borehole ID	Depth (ft)	Media	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron
Soil BV[a]					**29,200**	**0.83**	**8.17**	**295**	**1.83**	**0.4**	**6120**	**19.3**	**8.64**	**14.7**	**21,500**
Qbt 2,3,4 BV[a]					**7340**	**0.5**	**2.79**	**46**	**1.21**	**1.63**	**2200**	**7.14**	**3.14**	**4.66**	**14,500**
Construction Worker SSL[b]					**41,400**	**142**	**41.2**	**4390**	**148**	**72.1**	**na**	**134**[d]	**36.7**	**14,200**	**248,000**
Industrial SSL[b]					**1,290,000**	**519**	**35.9**	**255,000**	**2580**	**1110**	**na**	**505**[d]	**388**	**51,900**	**908,000**
Recreational SSL[e]					**619,000**	**248**	**42.9**	**124,000**	**1240**	**457**	**na**	**281**[d]	**186**	**24,800**	**434,000**
Residential SSL[b]					**78,000**	**31.3**	**7.07**	**15,600**	**156**	**70.5**	**na**	**96.6**[d]	**23.4**	**3130**	**54,800**
RE00-22-249000	00-61604	53 10NW	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	—
RE00-22-248999	00-61604	53 10NW	4–5	SOIL	—	—	—	—	—	—	—	—	11.4	—	—
RE00-22-248998	00-61604	53 10NW	7–8	QBT3	—	—	—	46.2	—	—	—	—	—	—	—
RE00-22-249034	00-61617	55 5W	12–13	QBT3	—	—	—	51.7	—	—	—	7.78	—	—	—
RE00-22-249935	00-61633	55 5NE	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	—
RE00-22-249936	00-61633	55 5NE	3–4	SOIL	—	—	—	—	—	—	—	—	—	—	—
RE00-22-249937	00-61633	55 5NE	7–8	SOIL	—	—	—	—	—	—	—	—	—	—	—
RE00-22-249938	00-61633	55 5NE	10–11	QBT3	—	—	—	—	—	—	—	7.21 (J+)	—	—	—
RE00-22-249939	00-61633	55 5NE	12–13	QBT3	—	—	—	—	—	—	—	—	—	—	—
RE00-22-249940	00-61634	55 5SW	0–1	SOIL	—	—	—	—	—	—	6540 (J)	—	—	—	—
RE00-22-249941	00-61634	55 5SW	3–4	SOIL	—	—	—	—	—	—	—	—	—	—	—
RE00-22-249942	00-61634	55 5SW	7–8	QBT3	—	—	—	—	—	—	—	7.27	—	—	—
RE00-22-249944	00-61634	55 5SW	10–11	QBT3	—	—	—	—	—	—	—	—	—	—	—
RE00-22-249943	00-61634	55 5SW	12–13	QBT3	—	—	—	—	—	—	—	8.41 (J+)	—	—	—
RE00-22-249946	00-61635	55 5SE	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	—
RE00-22-249947	00-61635	55 5SE	3–4	SOIL	—	—	—	—	—	—	6700 (J)	—	—	—	—
RE00-22-249948	00-61635	55 5SE	7–8	SOIL	—	—	—	—	—	—	9300 (J)	—	—	—	—
RE00-22-249949	00-61635	55 5SE	10–11	QBT3	—	—	—	—	—	—	—	9.64 (J+)	—	—	—
RE00-22-249945	00-61635	55 5SE	12–13	QBT3	8810	—	—	—	—	—	3850	15.9 (J+)	—	—	—
RE00-22-249950	00-61636	55 5NW	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	—
RE00-22-249951	00-61636	55 5NW	3–4	SOIL	—	—	—	—	—	—	—	—	—	—	—
RE00-22-249952	00-61636	55 5NW	7–8	SOIL	39,200	—	—	377	2.24	—	8990 (J)	21.3 (J+)	—	—	—
RE00-22-249953	00-61636	55 5NW	10–11	QBT3	35,800	0.999 (U)	3.44	56.1	2.77	—	4650	26.5 (J+)	3.35	11.7	—
RE00-22-249954	00-61636	55 5NW	12–13	QBT3	29,200	0.587 (U)	—	84	2.41	—	3350	18.9 (J+)	—	9.04	—
RE00-22-249955	00-61637	55 10S	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	—
RE00-22-249956	00-61637	55 10S	3–4	SOIL	—	—	—	—	—	—	7700	—	—	—	—
RE00-22-249957	00-61637	55 10S	7–8	SOIL	—	—	—	—	—	—	—	—	—	—	—
RE00-22-249958	00-61637	55 10S	10–11	QBT3	—	—	—	63	—	—	2870 (J)	14.9 (J)	—	—	—
RE00-22-249959	00-61637	55 10S	12–13	QBT3	—	—	—	—	—	—	—	7.94	—	—	—

Table 5.1-1 (continued)

Sample ID	Location ID	Borehole ID	Depth (ft)	Media	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron
Soil BV[a]					**29,200**	**0.83**	**8.17**	**295**	**1.83**	**0.4**	**6120**	**19.3**	**8.64**	**14.7**	**21,500**
Qbt 2,3,4 BV[a]					**7340**	**0.5**	**2.79**	**46**	**1.21**	**1.63**	**2200**	**7.14**	**3.14**	**4.66**	**14,500**
Construction Worker SSL[b]					**41,400**	**142**	**41.2**	**4390**	**148**	**72.1**	**na**	**134**[d]	**36.7**	**14,200**	**248,000**
Industrial SSL[b]					**1,290,000**	**519**	**35.9**	**255,000**	**2580**	**1110**	**na**	**505**[d]	**388**	**51,900**	**908,000**
Recreational SSL[e]					**619,000**	**248**	**42.9**	**124,000**	**1240**	**457**	**na**	**281**[d]	**186**	**24,800**	**434,000**
Residential SSL[b]					**78,000**	**31.3**	**7.07**	**15,600**	**156**	**70.5**	**na**	**96.6**[d]	**23.4**	**3130**	**54,800**
RE00-22-249963	00-61638	55 10E	10–11	QBT3	—	—	—	—	—	—	—	10.8 (J+)	—	—	—
RE00-22-249964	00-61638	55 10E	12–13	QBT3	—	5.74 (U)	—	—	—	—	—	—	—	—	—
RE00-22-249965	00-61639	55 15SW	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	—
RE00-22-249966	00-61639	55 15SW	3–4	SOIL	—	—	—	—	—	—	7770 (J)	—	—	—	—
RE00-22-249967	00-61639	55 15SW	7–8	SOIL	—	—	—	—	—	—	—	—	—	—	—
RE00-22-249968	00-61639	55 15SW	10–11	QBT3	—	—	—	—	—	—	—	—	—	—	—
RE00-22-249969	00-61639	55 15SW	12–13	QBT3	—	—	—	—	—	—	—	13.4 (J+)	—	—	—
RE00-22-249970	00-61640	55 15S	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	—
RE00-22-249971	00-61640	55 15S	3–4	SOIL	—	—	—	—	—	—	7850 (J)	—	—	—	—
RE00-22-249972	00-61640	55 15S	7–8	SOIL	—	—	—	—	—	—	—	—	—	—	—
RE00-22-249973	00-61640	55 15S	10–11	QBT3	—	—	—	—	—	—	—	8.38 (J-)	—	—	—
RE00-22-249974	00-61640	55 15S	12–13	QBT3	—	—	—	—	—	—	—	—	—	—	—
RE00-22-249975	00-61641	55 15SSE	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	—
RE00-22-249976	00-61641	55 15SSE	3–4	SOIL	—	—	—	—	—	—	—	—	—	—	—
RE00-22-249977	00-61641	55 15SSE	7–8	SOIL	—	—	—	—	—	—	—	—	—	—	—
RE00-22-249978	00-61641	55 15SSE	10–11	QBT3	13,600	—	—	110 (J)	—	—	5230	19.1 (J-)	—	5.6 (J-)	—
RE00-22-249979	00-61641	55 15SSE	12–13	QBT3	—	1.74 (U)	—	—	—	—	—	12.3 (J+)	—	—	—
RE00-22-249980	00-61642	55 10NE	0–1	SOIL	—	1.87 (U)	—	—	—	—	6820	—	—	—	—
RE00-22-249981	00-61642	55 10NE	3–4	SOIL	—	—	—	—	—	—	10,400	—	—	—	—
RE00-22-249982	00-61642	55 10NE	7–8	SOIL	—	—	—	—	—	—	—	—	—	—	—
RE00-22-249983	00-61642	55 10NE	10–11	QBT3	—	—	—	—	—	—	—	9.19	—	—	—
RE00-22-249984	00-61642	55 10NE	12–13	QBT3	—	—	—	—	—	—	—	—	—	—	—
RE00-22-249985	00-61643	55 10SW	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	—
RE00-22-249986	00-61643	55 10SW	3–4	SOIL	—	1.53 (U)	—	—	—	—	7400	—	—	—	—
RE00-22-249987	00-61643	55 10SW	7–8	SOIL	—	1.16 (U)	—	—	—	—	—	—	—	—	—
RE00-22-249988	00-61643	55 10SW	10–11	QBT3	—	—	—	—	—	—	—	14.4	—	—	—
RE00-22-249989	00-61643	55 10SW	12–13	QBT3	—	—	—	—	—	—	—	—	—	—	—
RE00-22-249990	00-61644	55 10SE	0–1	SOIL	—	—	—	—	—	—	15,300 (J)	—	—	—	—
RE00-22-249991	00-61644	55 10SE	3–4	SOIL	—	—	—	—	—	—	6610 (J)	—	—	—	23,000

Table 5.1-1 (continued)

Sample ID	Location ID	Borehole ID	Depth (ft)	Media	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron
Soil BV[a]					**29,200**	**0.83**	**8.17**	**295**	**1.83**	**0.4**	**6120**	**19.3**	**8.64**	**14.7**	**21,500**
Qbt 2,3,4 BV[a]					**7340**	**0.5**	**2.79**	**46**	**1.21**	**1.63**	**2200**	**7.14**	**3.14**	**4.66**	**14,500**
Construction Worker SSL[b]					**41,400**	**142**	**41.2**	**4390**	**148**	**72.1**	**na**	**134[d]**	**36.7**	**14,200**	**248,000**
Industrial SSL[b]					**1,290,000**	**519**	**35.9**	**255,000**	**2580**	**1110**	**na**	**505[d]**	**388**	**51,900**	**908,000**
Recreational SSL[e]					**619,000**	**248**	**42.9**	**124,000**	**1240**	**457**	**na**	**281[d]**	**186**	**24,800**	**434,000**
Residential SSL[b]					**78,000**	**31.3**	**7.07**	**15,600**	**156**	**70.5**	**na**	**96.6[d]**	**23.4**	**3130**	**54,800**
RE00-22-249992	00-61644	55 10SE	7–8	SOIL	—	—	—	—	—	—	6220	—	—	—	—
RE00-22-249993	00-61644	55 10SE	10–11	QBT3	10,600	0.587 (U)	3.06	123	—	—	9730 (J)	8.96 (J)	—	6.88	—
RE00-22-249994	00-61644	55 10SE	12–13	QBT3	—	—	—	—	—	—	—	9.58	—	—	—
RE00-22-249995	00-61645	55 15SE	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	—
RE00-22-249996	00-61645	55 15SE	3–4	SOIL	—	—	—	—	—	—	8660	—	—	—	—
RE00-22-249997	00-61645	55 15SE	7–8	SOIL	—	—	—	—	—	—	—	—	—	—	—
RE00-22-249998	00-61645	55 15SE	10–11	QBT3	—	—	—	81.5	—	—	2590 (J)	8.9 (J+)	4.62	—	—
RE00-22-249999	00-61645	55 15SE	12–13	QBT3	—	—	—	—	—	—	—	10.2 (J+)	—	—	—
RE00-22-250000	00-61646	55 15E	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	—
RE00-22-250001	00-61646	55 15E	3–4	SOIL	—	—	—	—	—	—	9110	—	—	—	—
RE00-22-250002	00-61646	55 15E	7–8	SOIL	—	—	—	—	—	—	—	—	—	—	—
RE00-22-250003	00-61646	55 15E	10–11	QBT3	—	—	—	—	—	—	—	9.77 (J+)	—	—	—
RE00-22-250004	00-61646	55 15E	12–13	QBT3	—	—	—	—	—	—	—	13.2 (J+)	—	—	—
RE00-22-250005	00-61647	55 15NE	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	—
RE00-22-250006	00-61647	55 15NE	3–4	SOIL	—	—	—	—	—	—	—	—	—	—	—
RE00-22-250007	00-61647	55 15NE	7–8	SOIL	—	—	—	—	—	—	—	—	—	—	—
RE00-22-250008	00-61647	55 15NE	10–11	QBT3	27,000	—	3.16	97.3 (J+)	1.52	—	4100 (J)	18.9	—	9.34	15,400 (J)
RE00-22-250009	00-61647	55 15NE	12–13	QBT3	22,000	—	3.02	74.7 (J+)	1.4	—	3710 (J)	18.2	—	8.59	14,900 (J)
RE00-22-252230	00-61647	55 15NE	13–14	QBT3	—	—	—	—	—	—	—	—	—	—	—
RE00-22-252231	00-61647	55 15NE	14–15	QBT3	—	—	—	—	—	—	—	—	—	—	—
RE00-22-250010	00-61648	55 10NW	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	—
RE00-22-250011	00-61648	55 10NW	3–4	SOIL	—	—	—	—	—	—	—	—	—	—	—
RE00-22-250012	00-61648	55 10NW	7–8	QBT3	8680	—	—	59.9	—	—	2420	14.6	—	—	—
RE00-22-250013	00-61648	55 10NW	10–11	QBT3	—	—	—	—	—	—	—	10.6	—	—	—
RE00-22-250014	00-61648	55 10NW	12–13	QBT3	—	—	—	—	—	—	—	7.73	—	—	—
RE00-22-250015	00-61649	55 10N	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	—
RE00-22-250016	00-61649	55 10N	3–4	SOIL	—	—	—	—	—	—	—	—	—	—	—
RE00-22-250017	00-61649	55 10N	7–8	QBT3	8260	—	—	—	—	—	—	8.42	—	—	—
RE00-22-250018	00-61649	55 10N	10–11	QBT3	—	—	—	—	—	—	—	9.48	—	4.82	—

Table 5.1-1 (continued)

Sample ID	Location ID	Borehole ID	Depth (ft)	Media	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron
Soil BV[a]					**29,200**	**0.83**	**8.17**	**295**	**1.83**	**0.4**	**6120**	**19.3**	**8.64**	**14.7**	**21,500**
Qbt 2,3,4 BV[a]					**7340**	**0.5**	**2.79**	**46**	**1.21**	**1.63**	**2200**	**7.14**	**3.14**	**4.66**	**14,500**
Construction Worker SSL[b]					**41,400**	**142**	**41.2**	**4390**	**148**	**72.1**	**na**	**134[d]**	**36.7**	**14,200**	**248,000**
Industrial SSL[b]					**1,290,000**	**519**	**35.9**	**255,000**	**2580**	**1110**	**na**	**505[d]**	**388**	**51,900**	**908,000**
Recreational SSL[e]					**619,000**	**248**	**42.9**	**124,000**	**1240**	**457**	**na**	**281[d]**	**186**	**24,800**	**434,000**
Residential SSL[b]					**78,000**	**31.3**	**7.07**	**15,600**	**156**	**70.5**	**na**	**96.6[d]**	**23.4**	**3130**	**54,800**
RE00-22-250019	00-61649	55 10N	12–13	QBT3	—	—	—	—	—	—	—	—	—	8.89 (J-)	—
RE00-22-250946	00-61663	53 10ENE	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	—
RE00-22-250947	00-61663	53 10ENE	4–5	SOIL	—	—	—	—	—	—	—	—	—	—	—
RE00-22-250948	00-61663	53 10ENE	7–8	QBT3	9990	—	2.81	113 (J)	—	—	2320 (J)	7.67	4.21	7.27	—
RE00-22-253183	00-61710	53 10NNE	0–1	SOIL	—	0.936 (J)	—	—	—	—	—	—	—	—	—
RE00-22-253215	00-61710	53 10NNE	4–5	SOIL	—	—	—	—	—	—	—	—	—	—	—
RE00-22-253216	00-61710	53 10NNE	7–8	SOIL	—	1.31 (J)	—	—	—	—	—	—	—	—	—
RE00-22-253199	00-61715	53 10NE	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	—
RE00-22-253200	00-61715	53 10NE	4–5	SOIL	—	—	—	—	—	—	—	—	—	—	—
RE00-22-253201	00-61715	53 10NE	7–8	QBT3	18,100	0.656 (U)	2.94	140 (J)	1.28	—	4750 (J)	12.9	3.3	7.48	—
RE00-22-253212	00-61718	53 10ENEV	9–10	QBT3	—	—	—	—	—	—	—	—	—	—	—
RE00-22-253213	00-61718	53 10ENEV	11–12	QBT3	—	—	—	—	—	—	—	—	—	—	—

Table 5.1-1 (continued)

Sample ID	Location ID	Borehole ID	Depth (ft)	Media	Lead	Magnesium	Mercury	Nickel	Nitrate	Nitrite	Perchlorate	Selenium	Sodium	Vanadium	Zinc
Soil BV[a]					**22.3**	**4610**	**0.1**	**15.4**	**na**	**na**	**na**	**1.52**	**915**	**39.6**	**48.8**
Qbt 2,3,4 BV[a]					**11.2**	**1690**	**0.1**	**6.58**	**na**	**na**	**na**	**0.3**	**2770**	**17**	**63.5**
Construction Worker SSL[b]					**800**	**na**	**20.7**	**753**	**566,000**	**35,400**	**248**	**1750**	**na**	**614**	**106,000**
Industrial SSL[b]					**800**	**na**	**112**	**25700**	**208,0000**	**130,000**	**908**	**6490**	**na**	**6530**	**389,000**
Recreational SSL[e]					**1120**	**na**	**186**	**12400**	**991,000**	**61,900**	**434**	**3100**	**na**	**3100**	**186,000**
Residential SSL[b]					**400**	**na**	**23.8**	**1560**	**125,000**	**7820**	**54.8**	**391**	**na**	**394**	**23,500**
RE00-22-238044	00-172	41	12–13	QBT3	—	—	—	—	2.56	—	0.423	1.53	—	—	—
RE00-22-238045	00-172	41	15–16	QBT3	—	—	—	—	0.679 (J)	—	1.26	1.54	—	—	—
RE00-22-238048	00-174	34	0–1	SOIL	—	—	0.155 (J)	—	9.28	—	0.0006 (J)	—	—	—	—
RE00-22-238049	00-174	34	4–5	SOIL	—	—	—	—	—	—	0.0122	—	—	—	—
RE00-22-238050	00-174	34	8–9	QBT3	—	—	—	9.27	0.864 (J)	—	0.00795	1.98	—	—	—
RE00-22-238053	00-176	40	0–1	SOIL	—	—	—	—	12.3	—	0.000574 (J)	—	—	—	—
RE00-22-238054	00-176	40	4–5	SOIL	—	—	—	—	0.569 (J)	—	0.0108	—	—	—	—
RE00-22-238055	00-176	40	6.9–8	SOIL	—	—	—	—	—	—	0.00855 (J-)	2	—	—	—
RE00-22-238058	00-178	46	0–1.1	SOIL	—	—	—	—	6.62	—	0.000445 (J-)	—	—	—	—
RE00-22-238059	00-178	46	3–4	SOIL	—	—	—	—	1.34	—	0.000962 (J-)	1.96	—	—	—
RE00-22-238060	00-178	46	6–7	SOIL	—	—	—	—	0.791 (J)	—	0.00481 (J-)	—	—	—	—
RE00-22-238063	00-180	53	0–1	SOIL	22.8	—	—	—	7.4	—	0.000694 (J-)	2.06	—	—	76 (J+)
RE00-22-238064	00-180	53	3–4.2	SOIL	—	—	—	—	6.74	—	0.0182 (J-)	—	—	—	—
RE00-22-238065	00-180	53	6.9–8	SOIL	—	—	—	—	1.28	—	0.00536 (J-)	3.25	—	—	—
RE00-22-238068	00-182	54	0–1	SOIL	—	—	—	—	3.91	—	0.000529 (J-)	1.63	—	—	—
RE00-22-238069	00-182	54	4–5.5	SOIL	—	—	—	—	5.54	—	0.00846 (J)	1.68	—	—	—
RE00-22-238070	00-182	54	8.1–9	QBT3	—	—	—	10.8	1.79	—	0.00567 (J)	1.84	—	—	134
RE00-22-238086	00-189	30	0–1	FILL	—	—	—	—	7.35	—	0.00168 (J)	—	—	—	—
RE00-22-238087	00-189	30	4–5.4	SOIL	—	—	—	—	1.41	—	0.0259	1.98	—	—	—
RE00-22-238088	00-189	30	10.3–11.3	QBT3	—	—	—	9.25	1.69	—	0.0147	3.99	—	—	—
RE00-22-238091	00-191	36	11.4–12.4	QBT3	—	—	—	—	2.99	—	0.00555	2.84	—	—	—
RE00-22-238092	00-191	36	14.5–15.5	QBT3	—	—	—	—	—	—	0.00331	0.469 (J)	—	—	—
RE00-22-238098	00-194	52	0–1	SOIL	24.3	—	—	—	9.25	—	0.00103 (J-)	—	—	—	—
RE00-22-238099	00-194	52	5.5–6.5	QBT3	—	—	—	—	1.28	—	0.00245 (J-)	2.56	—	—	—
RE00-22-238210	00-241	38	17–18	QBT3	—	—	—	—	—	—	—	1.56 (J-)	—	—	—
RE00-22-238211	00-241	38	20–21	QBT3	—	—	—	—	—	—	0.000624 (J)	1.14 (J-)	—	—	—
RE00-22-238212	00-242	37	13–14	QBT3	—	—	—	6.72 (J+)	0.854 (J)	—	—	1.54 (J-)	—	—	—
RE00-22-238213	00-242	37	16–17	QBT3	—	—	—	—	—	—	—	1.6 (J-)	—	—	—
RE00-22-238214	00-243	45	14–15	QBT3	—	—	—	—	1.23	—	0.00113 (J)	1.58 (J-)	—	—	—

Table 5.1-1 (continued)

Sample ID	Location ID	Borehole ID	Depth (ft)	Media	Lead	Magnesium	Mercury	Nickel	Nitrate	Nitrite	Perchlorate	Selenium	Sodium	Vanadium	Zinc
Soil BV[a]					**22.3**	**4610**	**0.1**	**15.4**	**na**	**na**	**na**	**1.52**	**915**	**39.6**	**48.8**
Qbt 2,3,4 BV[a]					**11.2**	**1690**	**0.1**	**6.58**	**na**	**na**	**na**	**0.3**	**2770**	**17**	**63.5**
Construction Worker SSL[b]					**800**	**na**	**20.7**	**753**	**566,000**	**35,400**	**248**	**1750**	**na**	**614**	**106,000**
Industrial SSL[b]					**800**	**na**	**112**	**25700**	**208,0000**	**130,000**	**908**	**6490**	**na**	**6530**	**389,000**
Recreational SSL[e]					**1120**	**na**	**186**	**12400**	**991,000**	**61,900**	**434**	**3100**	**na**	**3100**	**186,000**
Residential SSL[b]					**400**	**na**	**23.8**	**1560**	**125,000**	**7820**	**54.8**	**391**	**na**	**394**	**23,500**
RE00-22-238215	00-243	45	17–18	QBT3	—	—	—	—	—	—	—	1.52 (J-)	—	—	—
RE00-22-238216	00-244	50	13–14	QBT3	—	—	—	—	0.796 (J)	—	0.00168 (J)	1.23	—	—	—
RE00-22-238217	00-244	50	16–17	QBT3	—	—	—	—	—	—	—	1.09	—	—	—
RE00-22-238218	00-245	49	11–12	QBT3	—	—	—	—	0.782 (J)	—	0.00329	1.53	—	—	—
RE00-22-238219	00-245	49	14–15	QBT3	—	—	—	—	—	—	0.00114 (J)	1.31	—	—	—
RE00-22-238220	00-246	48	11–12	QBT3	—	—	—	—	1.21	—	0.00118 (J)	1.38	—	—	—
RE00-22-238221	00-246	48	14–15	QBT3	—	—	—	—	1.04 (J)	—	0.00186	1.2	—	—	—
RE00-22-238222	00-247	47	15–16	QBT3	—	—	—	—	0.531 (J)	—	0.0229	1.33 (J-)	—	—	—
RE00-22-238223	00-247	47	18–19	QBT3	—	—	—	—	0.449 (J)	—	0.0598	0.938 (J-)	—	—	—
RE00-22-238225	00-248	55	13–14	QBT3	—	—	—	—	—	—	0.00301	2.69	—	—	—
RE00-22-238228	00-250	35	12–13	QBT3	—	—	—	—	0.539 (J)	—	0.0943	1.11 (J-)	—	—	—
RE00-22-238229	00-250	35	15–16	QBT3	—	—	—	—	0.735 (J)	—	0.0505	1.05 (J-)	—	—	—
RE00-22-238230	00-251	44	15–16	QBT3	—	—	—	—	—	—	0.000575 (J)	1.1 (J-)	—	—	—
RE00-22-238231	00-251	44	18–19	QBT3	—	—	—	—	—	—	—	1.07 (J-)	—	—	—
RE00-22-238233	00-252	43	14–15	QBT3	—	—	—	—	0.675 (J)	—	0.00166 (J)	1.11	—	—	—
RE00-22-238232	00-252	43	17–18	QBT3	—	—	—	—	0.655 (J)	—	0.00261	1.1	—	—	—
RE00-22-238234	00-253	42	14–15	QBT3	—	—	—	—	1.1	—	0.119	1.01 (J)	—	—	—
RE00-22-238235	00-253	42	17–18	QBT3	—	—	—	—	0.789 (J)	—	0.114	1.06	—	—	—
RE00-22-238303	00-61524	32	0–1	FILL	—	—	—	—	0.981 (J)	—	0.00146 (J)	1.89	—	—	—
RE00-22-238298	00-61524	32	4–5	FILL	—	—	—	—	7.27	—	0.00135 (J)	2.06	—	—	—
RE00-22-238293	00-61524	32	7.2–8.2	FILL	—	—	—	—	0.431 (J)	—	0.000804 (J)	3.9	—	—	—
RE00-22-238288	00-61524	32	15–16	QBT3	—	—	—	—	—	—	0.00278	0.628 (J)	—	—	—
RE00-22-238304	00-61525	31	0–1	FILL	—	—	—	—	9.02	—	0.00158 (J)	2.6	—	—	—
RE00-22-238299	00-61525	31	4–5	FILL	—	—	—	—	4.05	—	0.00378	2.3	—	—	—
RE00-22-238294	00-61525	31	7–8	SOIL	—	—	—	—	1.1	—	0.000813 (J)	3.47	—	—	80.1
RE00-22-238289	00-61525	31	13.8–14.8	QBT3	—	—	—	6.69	1.46	—	0.00151 (J)	3.68	—	—	—
RE00-22-238308	00-61529	51	0–1	FILL	—	—	—	—	4.54	—	—	—	—	—	—
RE00-22-238309	00-61529	51	3–4	FILL	—	—	—	—	3.9	—	0.000594 (J)	—	—	—	—
RE00-22-238310	00-61529	51	6–7	SOIL	—	—	—	—	6.19	—	0.00096 (J)	—	—	—	—

Table 5.1-1 (continued)

Sample ID	Location ID	Borehole ID	Depth (ft)	Media	Lead	Magnesium	Mercury	Nickel	Nitrate	Nitrite	Perchlorate	Selenium	Sodium	Vanadium	Zinc
Soil BV[a]					**22.3**	**4610**	**0.1**	**15.4**	**na**	**na**	**na**	**1.52**	**915**	**39.6**	**48.8**
Qbt 2,3,4 BV[a]					**11.2**	**1690**	**0.1**	**6.58**	**na**	**na**	**na**	**0.3**	**2770**	**17**	**63.5**
Construction Worker SSL[b]					**800**	**na**	**20.7**	**753**	**566,000**	**35,400**	**248**	**1750**	**na**	**614**	**106,000**
Industrial SSL[b]					**800**	**na**	**112**	**25700**	**208,0000**	**130,000**	**908**	**6490**	**na**	**6530**	**389,000**
Recreational SSL[e]					**1120**	**na**	**186**	**12400**	**991,000**	**61,900**	**434**	**3100**	**na**	**3100**	**186,000**
Residential SSL[b]					**400**	**na**	**23.8**	**1560**	**125,000**	**7820**	**54.8**	**391**	**na**	**394**	**23,500**
RE00-22-238311	00-61529	51	10–11	SOIL	—	—	—	—	6.38	—	0.00093 (J)	—	—	—	—
RE00-22-238312	00-61529	51	14.5–15.5	QBT3	—	—	—	—	8.14	—	—	1.24	—	—	—
RE00-22-238313	00-61530	39	0–1	FILL	—	—	—	—	7.49	—	0.000524 (J)	1.89	—	—	—
RE00-22-238314	00-61530	39	4–5	SOIL	—	—	0.128	—	6.19	—	0.00548	1.67	—	—	—
RE00-22-238315	00-61530	39	7–8	SOIL	—	—	—	—	3.03	—	0.00221	1.86	—	—	—
RE00-22-238316	00-61530	39	9–10	SOIL	—	—	0.361	—	4.05	—	0.00211 (J)	—	—	—	—
RE00-22-238317	00-61530	39	17–18	QBT3	—	—	—	—	—	—	0.0136	0.554 (J)	—	—	—
RE00-22-238318	00-61531	33	0–1	FILL	—	—	—	—	3.92	—	0.000842 (J)	—	—	—	—
RE00-22-238322	00-61531	33	4–5	FILL	—	—	—	—	1.97	—	0.000703 (J)	—	—	—	—
RE00-22-238321	00-61531	33	7–8	FILL	—	—	—	—	1.69	—	0.00426	—	—	—	—
RE00-22-238319	00-61531	33	9–10	FILL	—	—	—	—	0.564 (J)	—	0.019	—	—	—	—
RE00-22-238276	00-61531	33	14–15	QBT3	—	—	—	—	—	—	0.0154	0.781 (J)	—	—	—
RE00-22-248883	00-61567	55 5N	0–1	SOIL	—	—	—	—	9.32	—	0.00109 (J)	—	—	—	—
RE00-22-248884	00-61567	55 5N	3–4	SOIL	—	—	—	—	3.43	—	0.00229	—	—	—	—
RE00-22-248885	00-61567	55 5N	7–8	SOIL	—	—	—	—	0.785 (J)	—	0.00643	—	—	—	51.1
RE00-22-248886	00-61567	55 5N	10–11	QBT3	—	—	—	—	2.06	—	—	2.38 (J-)	—	—	—
RE00-22-248887	00-61567	55 5N	12–13	QBT3	—	—	—	—	0.82 (J)	—	0.000534 (J)	1.86 (J-)	—	—	—
RE00-22-248971	00-61595	53 5W	0–1	SOIL	—	—	—	—	9.86	—	0.00202	—	—	—	—
RE00-22-248972	00-61595	53 5W	4–5	SOIL	—	—	—	—	3.35	—	0.00221	—	—	—	—
RE00-22-248973	00-61595	53 5W	7–8	QBT3	—	2140	—	11.5	1.22	—	0.00694	2.65 (J-)	—	—	—
RE00-22-249066	00-61595	53 5W	9–10	QBT3	—	—	—	—	7.96	—	0.00736	1.15 (J-)	—	—	—
RE00-22-249006	00-61595	53 5W	11–12	QBT3	—	—	—	—	3.3 (J)	—	0.000614 (J)	0.973	—	—	—
RE00-22-248976	00-61596	53 5n	7–8	QBT3	—	—	—	13.8	1.45	—	0.0103	1.88 (J-)	—	—	—
RE00-22-248978	00-61597	55 5E	12–13	QBT3	—	—	—	—	2.41	—	0.0032	1.7	—	—	—
RE00-22-248980	00-61598	55 5S	10–11	QBT3	—	—	—	6.75 (J)	2.9	—	0.0179	1.42	—	—	—
RE00-22-248981	00-61598	55 5S	12–13	QBT3	—	—	—	6.7 (J)	2.16	—	0.0143	1.28	—	—	—
RE00-22-248995	00-61603	53 10N	0–1	SOIL	—	—	—	—	16.1	0.771 (J)	0.00188	—	—	—	—
RE00-22-248996	00-61603	53 10N	4–5	SOIL	—	—	—	—	3.37	—	0.00759	—	—	—	—
RE00-22-248997	00-61603	53 10N	7–8	QBT3	—	—	—	—	0.828 (J)	—	0.000709 (J)	0.952 (J-)	—	—	—

Table 5.1-1 (continued)

Sample ID	Location ID	Borehole ID	Depth (ft)	Media	Lead	Magnesium	Mercury	Nickel	Nitrate	Nitrite	Perchlorate	Selenium	Sodium	Vanadium	Zinc
Soil BV[a]					**22.3**	**4610**	**0.1**	**15.4**	**na**	**na**	**na**	**1.52**	**915**	**39.6**	**48.8**
Qbt 2,3,4 BV[a]					**11.2**	**1690**	**0.1**	**6.58**	**na**	**na**	**na**	**0.3**	**2770**	**17**	**63.5**
Construction Worker SSL[b]					**800**	**na**	**20.7**	**753**	**566,000**	**35,400**	**248**	**1750**	**na**	**614**	**106,000**
Industrial SSL[b]					**800**	**na**	**112**	**25700**	**208,0000**	**130,000**	**908**	**6490**	**na**	**6530**	**389,000**
Recreational SSL[e]					**1120**	**na**	**186**	**12400**	**991,000**	**61,900**	**434**	**3100**	**na**	**3100**	**186,000**
Residential SSL[b]					**400**	**na**	**23.8**	**1560**	**125,000**	**7820**	**54.8**	**391**	**na**	**394**	**23,500**
RE00-22-249000	00-61604	53 10NW	0–1	SOIL	—	—	—	—	9.03	—	0.0025	—	—	—	—
RE00-22-248999	00-61604	53 10NW	4–5	SOIL	—	—	—	—	2.62	—	0.00833	—	—	—	—
RE00-22-248998	00-61604	53 10NW	7–8	QBT3	—	—	—	—	1.5	—	0.0024	0.875 (J-)	—	—	—
RE00-22-249034	00-61617	55 5W	12–13	QBT3	—	—	—	—	0.729 (J)	—	0.00178 (J)	0.88 (J)	—	—	—
RE00-22-249935	00-61633	55 5NE	0–1	SOIL	—	—	—	—	4.22	—	0.00152 (J)	—	—	—	—
RE00-22-249936	00-61633	55 5NE	3–4	SOIL	—	—	—	—	12.6	—	0.0107	—	—	—	—
RE00-22-249937	00-61633	55 5NE	7–8	SOIL	—	—	—	—	0.897 (J)	—	0.0142	2.28 (J-)	—	—	—
RE00-22-249938	00-61633	55 5NE	10–11	QBT3	—	—	—	—	2.49	—	0.00157 (J)	1.39 (J-)	—	—	—
RE00-22-249939	00-61633	55 5NE	12–13	QBT3	—	—	—	—	1.97	—	0.00245	1.1 (J-)	—	—	—
RE00-22-249940	00-61634	55 5SW	0–1	SOIL	—	—	—	—	6.43	—	—	—	—	—	—
RE00-22-249941	00-61634	55 5SW	3–4	SOIL	—	—	—	—	7.15	—	0.000633 (J)	—	—	—	—
RE00-22-249942	00-61634	55 5SW	7–8	QBT3	—	—	—	—	0.945 (J)	—	0.00111 (J)	1.47 (J-)	—	—	—
RE00-22-249944	00-61634	55 5SW	10–11	QBT3	—	—	—	—	0.838 (J)	—	0.00175 (J)	1.23	—	—	—
RE00-22-249943	00-61634	55 5SW	12–13	QBT3	—	—	—	—	1.1	—	0.000891 (J)	1.11	—	—	—
RE00-22-249946	00-61635	55 5SE	0–1	SOIL	—	—	—	—	5.5	—	0.000636 (J)	—	—	—	—
RE00-22-249947	00-61635	55 5SE	3–4	SOIL	—	—	—	—	8.44	—	0.000657 (J)	—	—	—	—
RE00-22-249948	00-61635	55 5SE	7–8	SOIL	—	—	—	—	2.36	—	0.000638 (J)	—	—	—	—
RE00-22-249949	00-61635	55 5SE	10–11	QBT3	—	—	—	—	7.05	—	0.00164 (J)	1.78 (J-)	—	—	—
RE00-22-249945	00-61635	55 5SE	12–13	QBT3	—	—	—	10.5 (J+)	4.9	—	0.00361	2.1 (J-)	—	—	—
RE00-22-249950	00-61636	55 5NW	0–1	SOIL	—	—	—	—	12.1	—	0.00158 (J)	—	—	—	—
RE00-22-249951	00-61636	55 5NW	3–4	SOIL	—	—	—	—	2.84	—	0.00537	—	—	—	—
RE00-22-249952	00-61636	55 5NW	7–8	SOIL	—	5480 (J+)	—	20.1 (J+)	1.05 (J)	—	0.00586	2.89 (J-)	1070	—	49.9 (J+)
RE00-22-249953	00-61636	55 5NW	10–11	QBT3	11.8	3530 (J+)	—	19.8	1.6	—	0.00418	2.02 (J-)	—	—	—
RE00-22-249954	00-61636	55 5NW	12–13	QBT3	—	2660 (J+)	—	13.8	1.13 (J)	—	0.00687	1.41 (J-)	—	—	—
RE00-22-249955	00-61637	55 10S	0–1	SOIL	—	—	—	—	7.4	—	—	—	—	—	—
RE00-22-249956	00-61637	55 10S	3–4	SOIL	—	—	—	—	0.55 (J)	—	0.00937	—	—	—	—
RE00-22-249957	00-61637	55 10S	7–8	SOIL	—	—	—	—	7.75	—	0.000602 (J)	2.01 (J-)	—	—	—
RE00-22-249958	00-61637	55 10S	10–11	QBT3	—	—	—	10.9	2.64	—	0.00567	3.84	—	—	—
RE00-22-249959	00-61637	55 10S	12–13	QBT3	—	—	—	—	1.81	—	0.00358	1.28	—	—	—

Table 5.1-1 (continued)

Sample ID	Location ID	Borehole ID	Depth (ft)	Media	Lead	Magnesium	Mercury	Nickel	Nitrate	Nitrite	Perchlorate	Selenium	Sodium	Vanadium	Zinc
Soil BV[a]					**22.3**	**4610**	**0.1**	**15.4**	**na**	**na**	**na**	**1.52**	**915**	**39.6**	**48.8**
Qbt 2,3,4 BV[a]					**11.2**	**1690**	**0.1**	**6.58**	**na**	**na**	**na**	**0.3**	**2770**	**17**	**63.5**
Construction Worker SSL[b]					**800**	**na**	**20.7**	**753**	**566,000**	**35,400**	**248**	**1750**	**na**	**614**	**106,000**
Industrial SSL[b]					**800**	**na**	**112**	**25700**	**208,0000**	**130,000**	**908**	**6490**	**na**	**6530**	**389,000**
Recreational SSL[e]					**1120**	**na**	**186**	**12400**	**991,000**	**61,900**	**434**	**3100**	**na**	**3100**	**186,000**
Residential SSL[b]					**400**	**na**	**23.8**	**1560**	**125,000**	**7820**	**54.8**	**391**	**na**	**394**	**23,500**
RE00-22-249963	00-61638	55 10E	10–11	QBT3	—	—	—	7.24	4.41	—	0.0013 (J)	1.95 (J-)	—	—	—
RE00-22-249964	00-61638	55 10E	12–13	QBT3	—	—	—	—	3.7	—	0.00099 (J)	1.45	—	—	—
RE00-22-249965	00-61639	55 15SW	0–1	SOIL	—	—	—	—	1.87	—	0.000542 (J)	—	—	—	—
RE00-22-249966	00-61639	55 15SW	3–4	SOIL	—	—	0.119	—	7.25	—	0.000778 (J)	1.85	—	—	—
RE00-22-249967	00-61639	55 15SW	7–8	SOIL	—	—	—	—	7.72	—	0.00373	1.53 (J-)	—	—	—
RE00-22-249968	00-61639	55 15SW	10–11	QBT3	—	—	—	—	2.87	—	0.0469	1.28	—	—	—
RE00-22-249969	00-61639	55 15SW	12–13	QBT3	—	—	—	7.11	2.59	—	0.00982	1.21 (J-)	—	—	—
RE00-22-249970	00-61640	55 15S	0–1	SOIL	—	—	—	—	13	—	—	—	—	—	—
RE00-22-249971	00-61640	55 15S	3–4	SOIL	—	—	—	—	7.13	—	0.000661 (J)	—	—	—	—
RE00-22-249972	00-61640	55 15S	7–8	SOIL	—	—	—	—	4.09	—	—	—	—	—	—
RE00-22-249973	00-61640	55 15S	10–11	QBT3	—	—	—	—	4.14	—	0.00115 (J)	1.17 (J-)	—	—	—
RE00-22-249974	00-61640	55 15S	12–13	QBT3	—	—	—	—	4.86	—	0.0427	1.12 (J-)	—	—	—
RE00-22-249975	00-61641	55 15SSE	0–1	SOIL	—	—	—	—	8.31	—	0.000471 (J)	—	—	—	—
RE00-22-249976	00-61641	55 15SSE	3–4	SOIL	—	—	—	—	8.35	—	0.000769 (J)	—	—	—	—
RE00-22-249977	00-61641	55 15SSE	7–8	SOIL	—	—	—	—	0.608 (J)	—	—	—	—	—	—
RE00-22-249978	00-61641	55 15SSE	10–11	QBT3	—	—	—	11.9	1.79	—	0.00442	1.49 (J-)	—	—	—
RE00-22-249979	00-61641	55 15SSE	12–13	QBT3	—	—	—	6.79 (J+)	1.72	—	0.0102 (J+)	3.38 (J-)	—	—	—
RE00-22-249980	00-61642	55 10NE	0–1	SOIL	—	—	—	—	9.58	—	0.00132 (J)	—	—	—	—
RE00-22-249981	00-61642	55 10NE	3–4	SOIL	—	—	—	—	4.11	—	0.00259	—	—	—	—
RE00-22-249982	00-61642	55 10NE	7–8	SOIL	—	—	—	—	1.98	—	0.00816	—	—	—	—
RE00-22-249983	00-61642	55 10NE	10–11	QBT3	—	—	—	—	3.77	—	0.00851	1.17	—	—	—
RE00-22-249984	00-61642	55 10NE	12–13	QBT3	—	—	—	—	7.98	—	0.00558	1.07	—	—	—
RE00-22-249985	00-61643	55 10SW	0–1	SOIL	—	—	—	—	9.17	—	—	—	—	—	—
RE00-22-249986	00-61643	55 10SW	3–4	SOIL	—	—	—	—	10.1	—	0.000645 (J)	—	—	—	—
RE00-22-249987	00-61643	55 10SW	7–8	SOIL	—	—	—	—	8.05	—	0.0143	—	—	—	—
RE00-22-249988	00-61643	55 10SW	10–11	QBT3	—	—	—	7.34	1.16	—	0.0381	1.45	—	—	—
RE00-22-249989	00-61643	55 10SW	12–13	QBT3	—	—	—	—	1.29	—	0.0416	1.41	—	—	—
RE00-22-249990	00-61644	55 10SE	0–1	SOIL	—	—	—	—	8.43	—	0.000902 (J)	—	—	—	—
RE00-22-249991	00-61644	55 10SE	3–4	SOIL	—	—	—	—	9.62	—	0.000784 (J)	1.9 (J-)	—	—	—

Table 5.1-1 (continued)

Sample ID	Location ID	Borehole ID	Depth (ft)	Media	Lead	Magnesium	Mercury	Nickel	Nitrate	Nitrite	Perchlorate	Selenium	Sodium	Vanadium	Zinc
Soil BV[a]					**22.3**	**4610**	**0.1**	**15.4**	**na**	**na**	**na**	**1.52**	**915**	**39.6**	**48.8**
Qbt 2,3,4 BV[a]					**11.2**	**1690**	**0.1**	**6.58**	**na**	**na**	**na**	**0.3**	**2770**	**17**	**63.5**
Construction Worker SSL[b]					**800**	**na**	**20.7**	**753**	**566,000**	**35,400**	**248**	**1750**	**na**	**614**	**106,000**
Industrial SSL[b]					**800**	**na**	**112**	**25700**	**208,0000**	**130,000**	**908**	**6490**	**na**	**6530**	**389,000**
Recreational SSL[e]					**1120**	**na**	**186**	**12400**	**991,000**	**61,900**	**434**	**3100**	**na**	**3100**	**186,000**
Residential SSL[b]					**400**	**na**	**23.8**	**1560**	**125,000**	**7820**	**54.8**	**391**	**na**	**394**	**23,500**
RE00-22-249992	00-61644	55 10SE	7–8	SOIL	—	—	—	—	2.48	—	—	—	—	—	—
RE00-22-249993	00-61644	55 10SE	10–11	QBT3	—	—	—	8.37	2.82	—	0.00191 (J)	3.69	—	—	—
RE00-22-249994	00-61644	55 10SE	12–13	QBT3	—	—	0.117	—	1.6	—	0.00962	1.27	—	—	—
RE00-22-249995	00-61645	55 15SE	0–1	SOIL	—	—	—	—	10.2	—	0.000841 (J)	—	—	—	—
RE00-22-249996	00-61645	55 15SE	3–4	SOIL	—	—	—	—	9.32	—	0.000812 (J)	—	—	—	—
RE00-22-249997	00-61645	55 15SE	7–8	SOIL	—	—	—	—	1 (J)	—	—	2.11 (J-)	—	—	—
RE00-22-249998	00-61645	55 15SE	10–11	QBT3	—	—	—	6.85 (J+)	2.69	—	0.000835 (J+)	2.55 (J-)	—	—	—
RE00-22-249999	00-61645	55 15SE	12–13	QBT3	—	—	—	6.63 (J+)	2.11	—	0.00166 (J+)	2.97 (J-)	—	—	—
RE00-22-250000	00-61646	55 15E	0–1	SOIL	—	—	—	—	4.98	—	—	—	—	—	—
RE00-22-250001	00-61646	55 15E	3–4	SOIL	—	—	—	—	5.26	—	0.00113 (J)	—	—	—	—
RE00-22-250002	00-61646	55 15E	7–8	SOIL	—	—	—	—	1.17	—	—	1.81 (J-)	—	—	—
RE00-22-250003	00-61646	55 15E	10–11	QBT3	—	—	—	—	5.07	—	0.000751 (J+)	2.69 (J-)	—	—	—
RE00-22-250004	00-61646	55 15E	12–13	QBT3	—	—	—	6.87 (J+)	4.31	—	0.00101 (J+)	2.81 (J-)	—	—	—
RE00-22-250005	00-61647	55 15NE	0–1	SOIL	—	—	—	—	4.56	—	—	—	—	—	—
RE00-22-250006	00-61647	55 15NE	3–4	SOIL	—	—	—	—	3.29	—	0.00105 (J+)	—	—	—	—
RE00-22-250007	00-61647	55 15NE	7–8	SOIL	—	—	—	—	1.76	—	0.0059 (J+)	2.01 (J-)	—	—	—
RE00-22-250008	00-61647	55 15NE	10–11	QBT3	—	3680 (J+)	—	17	1.58	—	0.0313	1.71	—	20.2	—
RE00-22-250009	00-61647	55 15NE	12–13	QBT3	—	3340 (J+)	—	14.6	1.53	—	0.0271	1.97	—	17.5	—
RE00-22-252230	00-61647	55 15NE	13–14	QBT3	—	—	—	—	3.42	—	0.00684	1.34	—	—	—
RE00-22-252231	00-61647	55 15NE	14–15	QBT3	—	—	—	—	3.51	—	0.00458 (J+)	1.4	—	—	—
RE00-22-250010	00-61648	55 10NW	0–1	SOIL	—	—	—	—	16.1	—	0.00237 (J+)	1.54 (J-)	—	—	—
RE00-22-250011	00-61648	55 10NW	3–4	SOIL	—	—	—	—	1.93	—	0.00381 (J+)	—	—	—	—
RE00-22-250012	00-61648	55 10NW	7–8	QBT3	—	—	—	8.9	1.36	—	0.00228	1.22	—	—	—
RE00-22-250013	00-61648	55 10NW	10–11	QBT3	—	—	—	—	0.928	—	0.000523 (J)	1.2	—	—	—
RE00-22-250014	00-61648	55 10NW	12–13	QBT3	—	—	—	—	0.913	—	0.000739 (J)	0.999	—	—	—
RE00-22-250015	00-61649	55 10N	0–1	SOIL	—	—	—	—	15.8	—	0.00317	—	—	—	—
RE00-22-250016	00-61649	55 10N	3–4	SOIL	—	—	—	—	4.88	—	0.0261	—	—	—	—
RE00-22-250017	00-61649	55 10N	7–8	QBT3	—	—	—	7.36	1.36	—	0.00727	1.37	—	—	—
RE00-22-250018	00-61649	55 10N	10–11	QBT3	—	—	—	7.04	1.04	—	0.00178 (J)	1.33	—	—	—

Table 5.1-1 (continued)

Sample ID	Location ID	Borehole ID	Depth (ft)	Media	Lead	Magnesium	Mercury	Nickel	Nitrate	Nitrite	Perchlorate	Selenium	Sodium	Vanadium	Zinc
Soil BV[a]					**22.3**	**4610**	**0.1**	**15.4**	**na**	**na**	**na**	**1.52**	**915**	**39.6**	**48.8**
Qbt 2,3,4 BV[a]					**11.2**	**1690**	**0.1**	**6.58**	**na**	**na**	**na**	**0.3**	**2770**	**17**	**63.5**
Construction Worker SSL[b]					**800**	**na**	**20.7**	**753**	**566,000**	**35,400**	**248**	**1750**	**na**	**614**	**106,000**
Industrial SSL[b]					**800**	**na**	**112**	**25700**	**208,0000**	**130,000**	**908**	**6490**	**na**	**6530**	**389,000**
Recreational SSL[e]					**1120**	**na**	**186**	**12400**	**991,000**	**61,900**	**434**	**3100**	**na**	**3100**	**186,000**
Residential SSL[b]					**400**	**na**	**23.8**	**1560**	**125,000**	**7820**	**54.8**	**391**	**na**	**394**	**23,500**
RE00-22-250019	00-61649	55 10N	12–13	QBT3	—	—	—	—	0.894 (J)	—	0.00111 (J)	1.16	—	—	—
RE00-22-250946	00-61663	53 10ENE	0–1	SOIL	—	—	—	—	2.06	—	0.000609 (J)	—	—	—	—
RE00-22-250947	00-61663	53 10ENE	4–5	SOIL	—	—	—	—	2.24	—	0.00286	1.55	—	—	—
RE00-22-250948	00-61663	53 10ENE	7–8	QBT3	13.3	—	—	—	9.35	—	0.00596	1.18	—	21.1	—
RE00-22-253183	00-61710	53 10NNE	0–1	SOIL	—	—	—	—	3.86 (J)	—	0.000893 (J)	—	—	—	—
RE00-22-253215	00-61710	53 10NNE	4–5	SOIL	—	—	—	—	7.78 (J)	—	0.00695	—	—	—	—
RE00-22-253216	00-61710	53 10NNE	7–8	SOIL	—	—	—	—	2.83 (J)	—	0.00809	—	—	—	—
RE00-22-253199	00-61715	53 10NE	0–1	SOIL	—	—	—	—	15.8	—	0.00213	—	—	—	—
RE00-22-253200	00-61715	53 10NE	4–5	SOIL	—	—	—	—	5.85	—	0.00312	—	—	—	—
RE00-22-253201	00-61715	53 10NE	7–8	QBT3	12.1 (J+)	2360 (J+)	—	12.4	1.2	—	0.0052	1.48	—	—	—
RE00-22-253212	00-61718	53 10ENEV	9–10	QBT3	—	—	—	—	0.722 (J)	—	0.00195	1.57	—	—	—
RE00-22-253213	00-61718	53 10ENEV	11–12	QBT3	—	—	—	—	—	—	—	1.51	—	—	—

Notes: Results are in mg/kg. Data qualifiers are presented in Appendix A.

[a] BVs from LANL (1998, 059730).

[b] SSLs from NMED (2022, 702484).

[c] na = Not available.

[d] SSL for total chromium.

[e] SSLs from N3B (2020, 701072).

[f] — = Not detected or not detected above BV.

Table 5.1-2
Organic Chemicals Detected at MDPR Tract A-8-a

Sample ID	Location ID	Borehole ID	Depth (ft)	Media	Acenaphthene	Acetone	Acetonitrile	Anthracene	Aroclor-1254	Aroclor-1260	Benzene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzyl Alcohol
Construction Worker SSL[a]					**15,100**	**242,000**	**1850[b]**	**75,300**	**4.91**	**85.3**	**142**	**240**	**15.0**	**240**	**7530[c]**	**2310**	**26,900[b]**
Industrial SSL[a]					**50,500**	**960,000**	**3400[d]**	**253,000**	**11**	**11.1**	**87.2**	**32.3**	**23.6**	**32.3**	**25,300[c]**	**323**	**82,000[d]**
Recreational SSL[e]					**17,300**	**550,000**	**na[f]**	**86,300**	**5.53**	**10.3**	**429**	**88.8**	**8.88**	**88.8**	**8630[c]**	**888**	**32,800**
Residential SSL[a]					**3480**	**66,300**	**810[d]**	**17,400**	**1.14**	**2.43**	**17.8**	**1.53**	**1.12**	**1.53**	**1740[c]**	**15.3**	**6300[d]**
RE00-22-238044	00-172	41	12–13	QBT3	—[g]	—	—	—	—	—	—	—	—	—	—	—	0.444
RE00-22-238045	00-172	41	15–16	QBT3	—	—	—	—	—	—	—	—	—	—	—	—	0.344
RE00-22-238059	00-178	46	3.0–4.0	SOIL	—	—	—	—	NA[h]	NA	—	—	—	—	—	—	—
RE00-22-238063	00-180	53	0–1	SOIL	—	—	—	—	NA	NA	—	—	0.219 (J)	0.233 (J)	—	—	—
RE00-22-238070	00-182	54	8.1–9.0	QBT3	—	—	—	—	NA	NA	—	—	—	—	—	—	—
RE00-22-238086	00-189	30	0–1	FILL	—	—	—	—	NA	NA	0.000517 (J)	—	—	—	—	—	—
RE00-22-238092	00-191	36	14.5–15.5	QBT3	—	—	—	—	NA	NA	—	—	—	—	0.00169 (J)	—	—
RE00-22-238211	00-241	38	20–21	QBT3	—	—	—	—	NA	NA	—	—	—	—	—	—	0.259 (J)
RE00-22-238215	00-243	45	17–18	QBT3	—	—	—	—	NA	NA	—	—	—	—	—	—	0.393
RE00-22-238216	00-244	50	13–14	QBT3	—	—	—	—	NA	NA	—	—	—	—	—	—	—
RE00-22-238218	00-245	49	11–12	QBT3	—	—	—	—	NA	NA	—	—	—	—	—	—	—
RE00-22-238225	00-248	55	13–14	QBT3	—	—	—	—	NA	NA	—	—	—	—	—	—	—
RE00-22-238228	00-250	35	12–13	QBT3	—	—	—	—	NA	NA	—	—	—	—	—	—	—
RE00-22-238230	00-251	44	15–16	QBT3	—	—	—	—	—	—	—	—	—	—	—	—	0.149 (J)
RE00-22-238233	00-252	43	14–15	QBT3	—	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238234	00-253	42	14–15	QBT3	—	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238235	00-253	42	17–18	QBT3	—	—	—	—	—	—	—	—	—	—	—	—	0.5
RE00-22-238303	00-61524	32	0–1	FILL	—	—	—	—	NA	NA	—	—	—	—	—	—	—
RE00-22-238288	00-61524	32	15–16	QBT3	—	—	0.012 (J)	—	NA	NA	—	—	—	—	0.0021 (J)	—	—
RE00-22-238304	00-61525	31	0–1	FILL	—	—	—	—	NA	NA	—	0.0174 (J)	0.0209 (J)	0.0244 (J)	0.0174 (J)	—	—
RE00-22-238308	00-61529	51	0.0–1.0	FILL	—	—	—	—	NA	NA	0.00128 (J+)	0.0627 (J)	0.0627 (J)	0.0766	0.0627 (J)	—	—
RE00-22-238309	00-61529	51	3.0–4.0	FILL	—	—	—	—	NA	NA	—	—	—	0.0707 (J)	—	—	—
RE00-22-238310	00-61529	51	6–7	SOIL	—	—	—	—	NA	NA	—	0.0242 (J)	0.0242 (J)	0.0311 (J)	0.0208 (J)	—	—

Table 5.1-2 (continued)

Sample ID	Location ID	Borehole ID	Depth (ft)	Media	Acenaphthene	Acetone	Acetonitrile	Anthracene	Aroclor-1254	Aroclor-1260	Benzene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzyl Alcohol
Construction Worker SSL[a]					**15,100**	**242,000**	**1850[b]**	**75,300**	**4.91**	**85.3**	**142**	**240**	**15.0**	**240**	**7530[c]**	**2310**	**26,900[b]**
Industrial SSL[a]					**50,500**	**960,000**	**3400[d]**	**253,000**	**11**	**11.1**	**87.2**	**32.3**	**23.6**	**32.3**	**25,300[c]**	**323**	**82,000[d]**
Recreational SSL[e]					**17,300**	**550,000**	**na**	**86,300**	**5.53**	**10.3**	**429**	**88.8**	**8.88**	**88.8**	**8630[c]**	**888**	**32,800**
Residential SSL[a]					**3480**	**66,300**	**810[d]**	**17,400**	**1.14**	**2.43**	**17.8**	**1.53**	**1.12**	**1.53**	**1740[c]**	**15.3**	**6300[d]**
RE00-22-238311	00-61529	51	10–11	SOIL	—	—	—	—	NA	NA	—	0.0114 (J)	—	0.0114 (J)	0.00948 (J)	—	—
RE00-22-238312	00-61529	51	14.5–15.5	QBT3	—	—	—	—	NA	NA	—	—	—	—	—	—	—
RE00-22-238313	00-61530	39	0–1	FILL	—	—	—	—	NA	NA	—	0.0349	0.0454	0.0558	0.0314 (J)	0.0209 (J)	—
RE00-22-238314	00-61530	39	4–5	SOIL	—	—	—	—	NA	NA	—	0.0403	0.0293 (J)	0.0403	0.022 (J)	—	—
RE00-22-238315	00-61530	39	7–8	SOIL	—	—	—	—	NA	NA	—	0.029 (J)	0.0398	0.0869	0.0326 (J)	0.029 (J)	—
RE00-22-238316	00-61530	39	9–10	SOIL	—	—	—	0.00394	NA	NA	—	0.0115 (J)	0.00753	0.0111 (J)	0.00717	0.00502	—
RE00-22-238318	00-61531	33	0–1	FILL	—	—	—	—	NA	NA	—	—	—	—	—	—	—
RE00-22-238322	00-61531	33	4–5	FILL	—	—	—	—	NA	NA	—	—	—	—	—	—	—
RE00-22-248883	00-61567	55 5N	0–1	SOIL	—	—	—	0.0528 (J)	NA	NA	—	0.0969	0.0969	0.141	0.0969	0.044 (J)	—
RE00-22-248884	00-61567	55 5N	3–4	SOIL	—	—	—	—	NA	NA	—	—	—	—	—	—	—
RE00-22-248885	00-61567	55 5N	7–8	SOIL	—	—	—	—	NA	NA	—	0.00282 (J)	0.00282 (J)	0.00388	0.00318 (J)	—	—
RE00-22-248971	00-61595	53 5W	0–1	SOIL	—	—	—	—	NA	NA	—	—	—	0.0505 (J)	—	—	—
RE00-22-248972	00-61595	53 5W	4–5	SOIL	—	—	—	—	NA	NA	—	—	—	—	—	—	—
RE00-22-248973	00-61595	53 5W	7–8	QBT3	—	—	—	—	NA	NA	—	—	—	—	—	—	—
RE00-22-249066	00-61595	53 5W	9–10	QBT3	—	—	—	—	—	0.00132 (J)	—	—	—	—	—	—	—
RE00-22-249006	00-61595	53 5W	11–12	QBT3	—	—	—	—	NA	NA	—	—	—	—	—	—	—
RE00-22-248980	00-61598	55 5S	10–11	QBT3	—	—	—	—	NA	NA	—	—	—	—	—	—	—
RE00-22-248995	00-61603	53 10N	0–1	SOIL	—	—	—	—	NA	NA	—	0.0176	0.0194	0.0282	0.0211	0.0106 (J)	—
RE00-22-248997	00-61603	53 10N	7–8	QBT3	—	—	—	—	NA	NA	—	—	—	—	—	—	—
RE00-22-249000	00-61604	53 10NW	0–1	SOIL	—	—	—	—	NA	NA	—	—	—	0.0206 (J)	—	—	—
RE00-22-248998	00-61604	53 10NW	7–8	QBT3	—	—	—	—	NA	NA	—	—	—	—	—	—	—
RE00-22-249034	00-61617	55 5W	12–13	QBT3	—	—	—	—	NA	NA	—	0.00207 (J)	0.00241 (J)	0.00379	0.00172 (J)	—	—
RE00-22-249935	00-61633	55 5NE	0–1	SOIL	—	—	—	—	—	0.0191	—	—	0.0211 (J)	0.0352	0.0247 (J)	—	—

Table 5.1-2 (continued)

Sample ID	Location ID	Borehole ID	Depth (ft)	Media	Acenaphthene	Acetone	Acetonitrile	Anthracene	Aroclor-1254	Aroclor-1260	Benzene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzyl Alcohol
Construction Worker SSL[a]					**15,100**	**242,000**	**1850[b]**	**75,300**	**4.91**	**85.3**	**142**	**240**	**15.0**	**240**	**7530[c]**	**2310**	**26,900[b]**
Industrial SSL[a]					**50,500**	**960,000**	**3400[d]**	**253,000**	**11**	**11.1**	**87.2**	**32.3**	**23.6**	**32.3**	**25,300[c]**	**323**	**82,000[d]**
Recreational SSL[e]					**17,300**	**550,000**	**na**	**86,300**	**5.53**	**10.3**	**429**	**88.8**	**8.88**	**88.8**	**8630[c]**	**888**	**32,800**
Residential SSL[a]					**3480**	**66,300**	**810[d]**	**17,400**	**1.14**	**2.43**	**17.8**	**1.53**	**1.12**	**1.53**	**1740[c]**	**15.3**	**6300[d]**
RE00-22-249936	00-61633	55 5NE	3–4	SOIL	—	—	—	—	—	—	—	0.00923 (J)	0.00923 (J)	0.0203	0.0129 (J)	—	—
RE00-22-249937	00-61633	55 5NE	7–8	SOIL	—	—	—	—	0.00249 (J)	0.00325 (J)	—	0.00328 (J)	0.004	0.00619	0.0051	0.00182 (J)	—
RE00-22-249938	00-61633	55 5NE	10–11	QBT3	—	—	—	—	—	0.00137 (J)	—	—	—	—	—	—	—
RE00-22-249939	00-61633	55 5NE	12–13	QBT3	—	—	—	—	—	0.00151 (J)	—	—	—	—	—	—	—
RE00-22-249940	00-61634	55 5SW	0–1	SOIL	—	—	—	—	NA	NA	—	0.0216 (J)	0.0252 (J)	0.0396	0.0252 (J)	—	—
RE00-22-249941	00-61634	55 5SW	3–4	SOIL	—	—	—	0.0188 (J)	NA	NA	—	0.0413	0.0638	0.244 (J)	0.0338 (J)	0.0676	—
RE00-22-249946	00-61635	55 5SE	0–1	SOIL	—	—	—	—	NA	NA	—	0.0435 (J)	0.0362 (J)	0.058 (J)	—	—	—
RE00-22-249947	00-61635	55 5SE	3–4	SOIL	—	—	—	—	NA	NA	—	—	—	—	—	—	—
RE00-22-249948	00-61635	55 5SE	7–8	SOIL	—	—	—	—	NA	NA	—	—	—	0.043 (J)	—	—	—
RE00-22-249950	00-61636	55 5NW	0–1	SOIL	—	—	—	—	NA	NA	—	0.0415 (J)	0.0415 (J)	0.0623 (J)	0.0415 (J)	—	—
RE00-22-249951	00-61636	55 5NW	3–4	SOIL	—	—	—	—	NA	NA	—	—	—	—	—	—	—
RE00-22-249953	00-61636	55 5NW	10–11	QBT3	—	—	—	—	NA	NA	—	—	—	—	—	—	—
RE00-22-249954	00-61636	55 5NW	12–13	QBT3	—	—	—	—	NA	NA	—	—	—	—	—	—	—
RE00-22-249955	00-61637	55 10S	0–1	SOIL	—	—	—	—	NA	NA	—	0.0509 (J)	0.0581 (J)	0.0872	0.0509 (J)	—	—
RE00-22-249957	00-61637	55 10S	7–8	SOIL	—	—	—	—	NA	NA	—	0.0111 (J)	0.0111 (J)	0.0204	—	—	—
RE00-22-249963	00-61638	55 10E	10–11	QBT3	—	—	—	—	NA	NA	—	0.00852	0.00667	0.0104	0.00371	0.00408	—
RE00-22-249965	00-61639	55 15SW	0–1	SOIL	—	—	—	—	NA	NA	—	—	—	0.042 (J)	—	—	—
RE00-22-249966	00-61639	55 15SW	3–4	SOIL	—	—	—	—	NA	NA	—	0.0111 (J)	0.0111 (J)	0.0185	—	—	—
RE00-22-249968	00-61639	55 15SW	10–11	QBT3	—	—	—	—	NA	NA	—	0.00315 (J)	0.00349	0.00454	0.00245 (J)	0.00175 (J)	—
RE00-22-249970	00-61640	55 15S	0–1	SOIL	—	—	—	0.0124 (J)	NA	NA	—	0.0849 (J)	0.069 (J)	0.0973 (J)	0.0265	0.0301	—
RE00-22-249971	00-61640	55 15S	3–4	SOIL	0.0259	—	—	0.0555 (J)	NA	NA	—	0.0758 (J)	0.061 (J)	0.0647	0.0277	0.0259	—
RE00-22-249972	00-61640	55 15S	7–8	SOIL	—	—	—	—	NA	NA	—	0.0242	0.0223	0.0335	0.0112 (J)	0.013 (J)	—
RE00-22-249974	00-61640	55 15S	12–13	QBT3	—	—	—	—	NA	NA	—	—	—	—	—	—	—

Table 5.1-2 (continued)

Sample ID	Location ID	Borehole ID	Depth (ft)	Media	Acenaphthene	Acetone	Acetonitrile	Anthracene	Aroclor-1254	Aroclor-1260	Benzene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzyl Alcohol
Construction Worker SSL[a]					**15,100**	**242,000**	**1850[b]**	**75,300**	**4.91**	**85.3**	**142**	**240**	**15.0**	**240**	**7530[c]**	**2310**	**26,900[b]**
Industrial SSL[a]					**50,500**	**960,000**	**3400[d]**	**253,000**	**11**	**11.1**	**87.2**	**32.3**	**23.6**	**32.3**	**25,300[c]**	**323**	**82,000[d]**
Recreational SSL[e]					**17,300**	**550,000**	**na**	**86,300**	**5.53**	**10.3**	**429**	**88.8**	**8.88**	**88.8**	**8630[c]**	**888**	**32,800**
Residential SSL[a]					**3480**	**66,300**	**810[d]**	**17,400**	**1.14**	**2.43**	**17.8**	**1.53**	**1.12**	**1.53**	**1740[c]**	**15.3**	**6300[d]**
RE00-22-249975	00-61641	55 15SSE	0–1	SOIL	0.036 (J)	—	—	0.122	NA	NA	—	0.526 (J)	0.396 (J)	0.54 (J)	0.108	0.245 (J)	—
RE00-22-249977	00-61641	55 15SSE	7–8	SOIL	—	—	—	—	NA	NA	—	—	0.0165 (J)	0.022	0.00918 (J)	—	—
RE00-22-249980	00-61642	55 10NE	0–1	SOIL	—	—	—	—	—	0.0505	—	—	—	0.0253 (J)	—	—	—
RE00-22-249981	00-61642	55 10NE	3–4	SOIL	—	—	—	—	0.0536	0.0364	—	—	—	0.011 (J)	—	—	—
RE00-22-249982	00-61642	55 10NE	7–8	SOIL	—	—	—	—	—	0.00206 (J)	—	—	—	—	—	—	—
RE00-22-249983	00-61642	55 10NE	10–11	QBT3	—	—	—	—	—	0.00391	—	—	—	—	—	—	—
RE00-22-249984	00-61642	55 10NE	12–13	QBT3	—	—	—	—	—	0.0094	—	—	—	—	—	—	—
RE00-22-249985	00-61643	55 10SW	0–1	SOIL	—	—	—	—	—	0.141	—	0.0434 (J)	0.0434 (J)	0.0723	—	—	—
RE00-22-249986	00-61643	55 10SW	3–4	SOIL	—	—	—	—	—	0.0343	—	—	—	—	—	—	—
RE00-22-249987	00-61643	55 10SW	7–8	SOIL	—	—	—	—	—	0.0143 (J)	—	—	—	—	—	—	—
RE00-22-249988	00-61643	55 10SW	10–11	QBT3	—	—	—	—	—	0.0102 (J)	—	0.0105 (J)	—	0.0123 (J)	—	—	—
RE00-22-249989	00-61643	55 10SW	12–13	QBT3	—	—	—	—	—	0.00468	—	—	—	—	—	—	—
RE00-22-249990	00-61644	55 10SE	0–1	SOIL	—	—	—	—	—	0.0907	—	0.0272	0.0308	0.058 (J)	0.0163 (J)	—	—
RE00-22-249991	00-61644	55 10SE	3–4	SOIL	—	—	—	—	0.0355	0.0554 (J-)	—	0.00736	0.00847	0.0162	0.00368	0.00552	—
RE00-22-249992	00-61644	55 10SE	7–8	SOIL	—	—	—	—	—	0.032	—	—	—	0.0093 (J)	—	—	—
RE00-22-249993	00-61644	55 10SE	10–11	QBT3	—	—	—	—	—	0.00923 (J-)	—	—	—	—	—	—	—
RE00-22-249994	00-61644	55 10SE	12–13	QBT3	—	—	—	—	—	0.0046	—	—	—	—	—	—	—
RE00-22-249995	00-61645	55 15SE	0–1	SOIL	—	—	—	—	NA	NA	—	0.0252 (J)	0.0288 (J)	0.0467	—	—	—
RE00-22-249996	00-61645	55 15SE	3–4	SOIL	—	—	—	—	NA	NA	—	0.0293 (J)	0.0293 (J)	0.0475	—	—	—
RE00-22-249997	00-61645	55 15SE	7–8	SOIL	—	—	—	—	NA	NA	—	0.022 (J)	0.0256 (J)	0.0366	0.0256 (J)	—	—
RE00-22-250000	00-61646	55 15E	0–1	SOIL	—	—	—	—	NA	NA	—	0.0257 (J)	0.0293 (J)	0.0477	—	—	—
RE00-22-250001	00-61646	55 15E	3–4	SOIL	—	—	—	—	NA	NA	—	—	—	0.0219 (J+)	—	—	—
RE00-22-250002	00-61646	55 15E	7–8	SOIL	—	—	—	—	NA	NA	—	—	—	0.0227 (J)	—	—	—

Table 5.1-2 (continued)

Sample ID	Location ID	Borehole ID	Depth (ft)	Media	Acenaphthene	Acetone	Acetonitrile	Anthracene	Aroclor-1254	Aroclor-1260	Benzene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzyl Alcohol
Construction Worker SSL[a]					**15,100**	**242,000**	**1850[b]**	**75,300**	**4.91**	**85.3**	**142**	**240**	**15.0**	**240**	**7530[c]**	**2310**	**26,900[b]**
Industrial SSL[a]					**50,500**	**960,000**	**3400[d]**	**253,000**	**11**	**11.1**	**87.2**	**32.3**	**23.6**	**32.3**	**25,300[c]**	**323**	**82,000[d]**
Recreational SSL[e]					**17,300**	**550,000**	**na**	**86,300**	**5.53**	**10.3**	**429**	**88.8**	**8.88**	**88.8**	**8630[c]**	**888**	**32,800**
Residential SSL[a]					**3480**	**66,300**	**810[d]**	**17,400**	**1.14**	**2.43**	**17.8**	**1.53**	**1.12**	**1.53**	**1740[c]**	**15.3**	**6300[d]**
RE00-22-250005	00-61647	55 15NE	0–1	SOIL	—	—	—	—	NA	NA	—	—	—	—	—	—	—
RE00-22-250008	00-61647	55 15NE	10–11	QBT3	—	—	—	—	NA	NA	—	—	—	0.0138 (J)	—	—	—
RE00-22-250009	00-61647	55 15NE	12–13	QBT3	—	—	—	—	NA	NA	—	—	—	—	—	—	—
RE00-22-250010	00-61648	55 10NW	0–1	SOIL	—	—	—	—	NA	NA	—	—	0.0181 (J)	0.0326 (J)	0.0217 (J)	—	—
RE00-22-250012	00-61648	55 10NW	7–8	QBT3	—	0.00238 (J)	—	—	NA	NA	—	—	—	—	—	—	—
RE00-22-250015	00-61649	55 10N	0–1	SOIL	—	—	—	—	NA	NA	—	—	—	0.0987 (J)	—	—	—
RE00-22-250016	00-61649	55 10N	3–4	SOIL	—	—	—	—	NA	NA	—	—	—	—	—	—	—
RE00-22-250018	00-61649	55 10N	10–11	QBT3	—	—	—	—	NA	NA	—	—	—	—	—	—	—
RE00-22-250946	00-61663	53 10ENE	0–1	SOIL	—	—	—	—	NA	NA	—	0.0109 (J)	0.00905 (J)	0.0163 (J)	0.0109 (J)	—	—
RE00-22-250948	00-61663	53 10ENE	7–8	QBT3	—	—	—	—	NA	NA	—	0.0129 (J)	0.011 (J)	0.0166 (J)	0.011 (J)	—	—
RE00-22-253183	00-61710	53 10NNE	0–1	SOIL	—	—	—	0.00211 (J)	NA	NA	—	0.0109 (J)	0.00808 (J)	0.0179 (J)	0.00527 (J)	—	—
RE00-22-253215	00-61710	53 10NNE	4–5	SOIL	—	—	—	—	NA	NA	—	—	—	0.00219 (J)	—	—	—
RE00-22-253216	00-61710	53 10NNE	7–8	SOIL	—	—	—	—	NA	NA	—	—	—	0.00246 (J)	—	—	—
RE00-22-253199	00-61715	53 10NE	0–1	SOIL	—	—	—	—	NA	NA	—	0.0158 (J)	0.0175	0.0263	0.0175	0.0105 (J)	—
RE00-22-253200	00-61715	53 10NE	4–5	SOIL	—	—	—	—	NA	NA	—	0.0029 (J)	0.00217 (J)	0.00435	—	—	—
RE00-22-253201	00-61715	53 10NE	7–8	QBT3	—	—	—	—	NA	NA	—	—	—	—	—	—	—
RE00-22-253212	00-61718	53 10ENEV	9–10	QBT3	—	—	—	—	NA	NA	—	—	—	—	—	—	—
RE00-22-253213	00-61718	53 10ENEV	11–12	QBT3	—	—	—	—	NA	NA	—	—	—	—	—	—	—

Table 5.1-2 (continued)

Sample ID	Location ID	Borehole ID	Depth (ft)	Media	Bis(2-ethylhexyl)phthalate	Butanone[2-]	Butylbenzylphthalate	Chrysene	Di-n-butylphthalate	Di-n-octylphthalate	Dibenz(a,h)anthracene	Dioxane[1,4-]	Fluoranthene	Fluorene	Heptachlorodibenzodioxin[1,2,3,4,6,7,-]	Heptachlorodibenzodioxins (Total)	Heptachlorodibenzofuran[1,2,3,4,6,7,8-]
Construction Worker SSL[a]					**5380**	**91,700**	**53,800[b]**	**23,100**	**26,900**	**2690[b]**	**24**	**1880**	**10,000**	**10,000**	**na**	**na**	**na**
Industrial SSL[a]					**1830**	**411,000**	**12,000[c]**	**3230**	**91,600**	**8200[c]**	**3.23**	**257**	**33,700**	**33,700**	**na**	**na**	**na**
Recreational SSL[e]					**1770**	**353,000**	**13,100**	**8880**	**32,800**	**3280**	**8.88**	**248**	**11,500**	**11,500**	**na**	**na**	**na**
Residential SSL[a]					**380**	**37,400**	**2900[c]**	**153**	**6160**	**630[c]**	**0.153**	**53.3**	**2320**	**2320**	**na**	**na**	**na**
RE00-22-238044	00-172	41	12–13	QBT3	—	—	—	—	—	—	—	—	—	—	—	5.88E-07 (J)	—
RE00-22-238045	00-172	41	15–16	QBT3	—	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238059	00-178	46	3.0–4.0	SOIL	—	—	0.474	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-238063	00-180	53	0–1	SOIL	—	—	—	0.206 (J)	—	—	—	—	0.671 (J)	—	NA	NA	NA
RE00-22-238070	00-182	54	8.1–9.0	QBT3	0.0165 (J)	—	—	—	0.0158 (J+)	—	—	—	0.0116 (J)	—	NA	NA	NA
RE00-22-238086	00-189	30	0–1	FILL	—	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-238092	00-191	36	14.5–15.5	QBT3	—	—	—	—	—	—	—	0.0192 (J)	—	—	NA	NA	NA
RE00-22-238211	00-241	38	20–21	QBT3	—	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-238215	00-243	45	17–18	QBT3	—	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-238216	00-244	50	13–14	QBT3	—	—	0.0303 (J)	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-238218	00-245	49	11–12	QBT3	—	—	0.0293 (J)	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-238225	00-248	55	13–14	QBT3	—	—	—	—	—	0.0438	—	—	—	—	NA	NA	NA
RE00-22-238228	00-250	35	12–13	QBT3	—	—	0.0536	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-238230	00-251	44	15–16	QBT3	—	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238233	00-252	43	14–15	QBT3	—	—	0.0365 (J)	—	0.017 (J)	—	—	—	—	—	—	—	—
RE00-22-238234	00-253	42	14–15	QBT3	—	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238235	00-253	42	17–18	QBT3	—	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238303	00-61524	32	0–1	FILL	—	—	—	—	0.0126 (J+)	—	—	—	—	—	NA	NA	NA
RE00-22-238288	00-61524	32	15–16	QBT3	—	—	—	—	—	—	—	—	0.00175 (J)	—	NA	NA	NA
RE00-22-238304	00-61525	31	0–1	FILL	—	—	—	0.0209 (J)	—	—	—	—	0.0348	—	NA	NA	NA
RE00-22-238308	00-61529	51	0.0–1.0	FILL	—	—	—	0.0697	—	—	—	—	0.0836	—	NA	NA	NA
RE00-22-238309	00-61529	51	3.0–4.0	FILL	—	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-238310	00-61529	51	6–7	SOIL	—	—	—	0.0277 (J)	—	—	—	—	0.045	—	NA	NA	NA

Table 5.1-2 (continued)

Sample ID	Location ID	Borehole ID	Depth (ft)	Media	Bis(2-ethylhexyl)phthalate	Butanone[2-]	Butylbenzylphthalate	Chrysene	Di-n-butylphthalate	Di-n-octylphthalate	Dibenz(a,h)anthracene	Dioxane[1,4-]	Fluoranthene	Fluorene	Heptachlorodibenzodioxin[1,2,3,4,6,7,-]	Heptachlorodibenzodioxins (Total)	Heptachlorodibenzofuran[1,2,3,4,6,7,8-]
Construction Worker SSL[a]					**5380**	**91,700**	**53,800[b]**	**23,100**	**26,900**	**2690[b]**	**24**	**1880**	**10,000**	**10,000**	**na**	**na**	**na**
Industrial SSL[a]					**1830**	**411,000**	**12,000[c]**	**3230**	**91,600**	**8200[c]**	**3.23**	**257**	**33,700**	**33,700**	**na**	**na**	**na**
Recreational SSL[e]					**1770**	**353,000**	**13,100**	**8880**	**32,800**	**3280**	**8.88**	**248**	**11,500**	**11,500**	**na**	**na**	**na**
Residential SSL[a]					**380**	**37,400**	**2900[c]**	**153**	**6160**	**630[c]**	**0.153**	**53.3**	**2320**	**2320**	**na**	**na**	**na**
RE00-22-238311	00-61529	51	10–11	SOIL	—	—	—	0.0171 (J)	—	—	—	—	0.0133 (J)	—	NA	NA	NA
RE00-22-238312	00-61529	51	14.5–15.5	QBT3	—	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-238313	00-61530	39	0–1	FILL	—	—	—	0.0419	—	—	—	—	0.0803	—	NA	NA	NA
RE00-22-238314	00-61530	39	4–5	SOIL	—	—	—	0.0659	—	—	—	—	0.0585	—	NA	NA	NA
RE00-22-238315	00-61530	39	7–8	SOIL	—	—	—	0.0833	—	—	—	—	0.058	—	NA	NA	NA
RE00-22-238316	00-61530	39	9–10	SOIL	—	—	—	0.00681	—	—	0.00323 (J)	—	0.00825	0.00251 (J)	NA	NA	NA
RE00-22-238318	00-61531	33	0–1	FILL	—	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-238322	00-61531	33	4–5	FILL	—	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-248883	00-61567	55 5N	0–1	SOIL	—	—	—	0.123	—	—	—	—	0.229	—	NA	NA	NA
RE00-22-248884	00-61567	55 5N	3–4	SOIL	—	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-248885	00-61567	55 5N	7–8	SOIL	—	—	—	0.00353	—	—	—	—	0.00671	—	NA	NA	NA
RE00-22-248971	00-61595	53 5W	0–1	SOIL	—	—	—	—	—	—	—	—	0.0433 (J)	—	NA	NA	NA
RE00-22-248972	00-61595	53 5W	4–5	SOIL	0.381 (J)	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-248973	00-61595	53 5W	7–8	QBT3	0.155 (J)	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-249066	00-61595	53 5W	9–10	QBT3	0.0627 (J)	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-249006	00-61595	53 5W	11–12	QBT3	0.0277 (J)	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-248980	00-61598	55 5S	10–11	QBT3	—	—	3.45 (J)	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-248995	00-61603	53 10N	0–1	SOIL	0.16 (J)	—	—	0.0229	—	—	—	—	0.0405	—	NA	NA	NA
RE00-22-248997	00-61603	53 10N	7–8	QBT3	0.0422	—	—	—	0.0117 (J)	—	—	—	—	—	NA	NA	NA
RE00-22-249000	00-61604	53 10NW	0–1	SOIL	—	—	—	0.0172 (J)	—	—	—	—	0.0206 (J)	—	NA	NA	NA
RE00-22-248998	00-61604	53 10NW	7–8	QBT3	0.0297 (J)	—	—	—	0.0135 (J)	—	—	—	—	—	NA	NA	NA
RE00-22-249034	00-61617	55 5W	12–13	QBT3	—	—	—	0.00241 (J)	—	—	—	—	0.00413	—	NA	NA	NA
RE00-22-249935	00-61633	55 5NE	0–1	SOIL	—	—	—	0.0211 (J)	—	—	—	—	0.0282 (J)	—	1.05E-05	2.42E-05	3.16E-06 (J)

Table 5.1-2 (continued)

Sample ID	Location ID	Borehole ID	Depth (ft)	Media	Bis(2-ethylhexyl)phthalate	Butanone[2-]	Butylbenzylphthalate	Chrysene	Di-n-butylphthalate	Di-n-octylphthalate	Dibenz(a,h)anthracene	Dioxane[1,4-]	Fluoranthene	Fluorene	Heptachlorodibenzodioxin[1,2,3,4,6,7,-]	Heptachlorodibenzodioxins (Total)	Heptachlorodibenzofuran[1,2,3,4,6,7,8-]
Construction Worker SSL[a]					**5380**	**91,700**	**53,800[b]**	**23,100**	**26,900**	**2690[b]**	**24**	**1880**	**10,000**	**10,000**	**na**	**na**	**na**
Industrial SSL[a]					**1830**	**411,000**	**12,000[c]**	**3230**	**91,600**	**8200[c]**	**3.23**	**257**	**33,700**	**33,700**	**na**	**na**	**na**
Recreational SSL[e]					**1770**	**353,000**	**13,100**	**8880**	**32,800**	**3280**	**8.88**	**248**	**11,500**	**11,500**	**na**	**na**	**na**
Residential SSL[a]					**380**	**37,400**	**2900[c]**	**153**	**6160**	**630[c]**	**0.153**	**53.3**	**2320**	**2320**	**na**	**na**	**na**
RE00-22-249936	00-61633	55 5NE	3–4	SOIL	—	—	—	0.0148 (J)	—	—	—	—	0.0148 (J)	—	3.46E-06 (J)	7.41E-06 (J)	4.68E-06
RE00-22-249937	00-61633	55 5NE	7–8	SOIL	—	—	—	—	0.0218 (J)	—	—	—	0.0091	—	8.41E-07 (J)	8.41E-07 (J)	6.79E-07 (J)
RE00-22-249938	00-61633	55 5NE	10–11	QBT3	—	—	—	—	0.0259 (J)	—	—	—	0.0017 (J)	—	4.31E-06	7.65E-06 (J)	1.35E-06 (J)
RE00-22-249939	00-61633	55 5NE	12–13	QBT3	—	—	—	—	0.0561	—	—	—	—	—	1.24E-06 (J)	2.5E-06 (J)	8.74E-07 (J)
RE00-22-249940	00-61634	55 5SW	0–1	SOIL	—	—	—	0.0324 (J)	—	—	—	—	0.0396	—	NA	NA	NA
RE00-22-249941	00-61634	55 5SW	3–4	SOIL	—	—	—	0.255 (J)	—	—	—	—	0.169 (J)	—	NA	NA	NA
RE00-22-249946	00-61635	55 5SE	0–1	SOIL	—	—	—	0.0507 (J)	—	—	—	—	0.0942	—	NA	NA	NA
RE00-22-249947	00-61635	55 5SE	3–4	SOIL	—	—	3.63	—	—	—	—	—	0.0357 (J)	—	NA	NA	NA
RE00-22-249948	00-61635	55 5SE	7–8	SOIL	—	—	—	—	—	—	—	—	0.0502 (J)	—	NA	NA	NA
RE00-22-249950	00-61636	55 5NW	0–1	SOIL	—	—	—	0.0554 (J)	—	—	—	—	0.0761	—	NA	NA	NA
RE00-22-249951	00-61636	55 5NW	3–4	SOIL	—	—	—	—	0.0215 (J)	—	—	—	—	—	NA	NA	NA
RE00-22-249953	00-61636	55 5NW	10–11	QBT3	—	—	—	—	0.0619	—	—	—	—	—	NA	NA	NA
RE00-22-249954	00-61636	55 5NW	12–13	QBT3	0.0122 (J)	—	—	—	0.0409	—	—	—	—	—	NA	NA	NA
RE00-22-249955	00-61637	55 10S	0–1	SOIL	—	—	—	0.0799	—	—	—	—	0.109	—	NA	NA	NA
RE00-22-249957	00-61637	55 10S	7–8	SOIL	—	—	—	0.013 (J)	—	—	—	—	0.0204	—	NA	NA	NA
RE00-22-249963	00-61638	55 10E	10–11	QBT3	—	—	—	0.00852	—	—	—	—	0.0145	—	NA	NA	NA
RE00-22-249965	00-61639	55 15SW	0–1	SOIL	—	—	—	—	—	—	—	—	0.049 (J)	—	NA	NA	NA
RE00-22-249966	00-61639	55 15SW	3–4	SOIL	—	—	—	0.0148 (J)	—	—	—	—	0.0222	—	NA	NA	NA
RE00-22-249968	00-61639	55 15SW	10–11	QBT3	—	—	—	0.00349	—	—	—	—	0.00454	—	NA	NA	NA
RE00-22-249970	00-61640	55 15S	0–1	SOIL	—	—	—	0.0707 (J)	—	—	—	—	0.159 (J)	—	NA	NA	NA
RE00-22-249971	00-61640	55 15S	3–4	SOIL	—	—	—	0.0518	—	—	—	—	0.196	0.0277	NA	NA	NA
RE00-22-249972	00-61640	55 15S	7–8	SOIL	—	—	—	0.026	—	—	—	—	0.0465	—	NA	NA	NA
RE00-22-249974	00-61640	55 15S	12–13	QBT3	—	—	—	—	—	—	—	—	0.00888 (J)	—	NA	NA	NA

Table 5.1-2 (continued)

Sample ID	Location ID	Borehole ID	Depth (ft)	Media	Bis(2-ethylhexyl)phthalate	Butanone[2-]	Butylbenzylphthalate	Chrysene	Di-n-butylphthalate	Di-n-octylphthalate	Dibenz(a,h)anthracene	Dioxane[1,4-]	Fluoranthene	Fluorene	Heptachlorodibenzodioxin[1,2,3,4,6,7,-]	Heptachlorodibenzodioxins (Total)	Heptachlorodibenzofuran[1,2,3,4,6,7,8-]
Construction Worker SSL[a]					**5380**	**91,700**	**53,800[b]**	**23,100**	**26,900**	**2690[b]**	**24**	**1880**	**10,000**	**10,000**	**na**	**na**	**na**
Industrial SSL[a]					**1830**	**411,000**	**12,000[c]**	**3230**	**91,600**	**8200[c]**	**3.23**	**257**	**33,700**	**33,700**	**na**	**na**	**na**
Recreational SSL[e]					**1770**	**353,000**	**13,100**	**8880**	**32,800**	**3280**	**8.88**	**248**	**11,500**	**11,500**	**na**	**na**	**na**
Residential SSL[a]					**380**	**37,400**	**2900[c]**	**153**	**6160**	**630[c]**	**0.153**	**53.3**	**2320**	**2320**	**na**	**na**	**na**
RE00-22-249975	00-61641	55 15SSE	0–1	SOIL	—	—	—	0.461 (J)	—	—	—	—	1.22	—	NA	NA	NA
RE00-22-249977	00-61641	55 15SSE	7–8	SOIL	—	—	—	0.0165 (J)	—	—	—	—	0.0275	—	NA	NA	NA
RE00-22-249980	00-61642	55 10NE	0–1	SOIL	—	—	—	0.0181 (J)	—	—	—	—	0.0325 (J)	—	1.00E-05	2.03E-05	3.74E-06 (J)
RE00-22-249981	00-61642	55 10NE	3–4	SOIL	—	—	—	—	—	—	—	—	0.011 (J)	—	5.81E-06	1.26E-05	4.47E-06
RE00-22-249982	00-61642	55 10NE	7–8	SOIL	—	—	—	—	0.0386	—	—	—	0.00187 (J)	—	7.1E-07 (J)	1.58E-06 (J)	—
RE00-22-249983	00-61642	55 10NE	10–11	QBT3	—	—	—	—	0.0116 (J)	—	—	—	0.00171 (J)	—	1.09E-06 (J)	1.09E-06 (J)	5.17E-07 (J)
RE00-22-249984	00-61642	55 10NE	12–13	QBT3	—	—	—	—	0.0418	—	—	—	—	—	6.44E-07 (J)	—	—
RE00-22-249985	00-61643	55 10SW	0–1	SOIL	—	—	—	0.0434 (J)	—	—	—	—	0.0723	—	2.17E-05	5.31E-05	6.22E-06
RE00-22-249986	00-61643	55 10SW	3–4	SOIL	—	—	—	—	—	—	—	—	—	—	1.01E-05	1.99E-05	2.53E-06 (J)
RE00-22-249987	00-61643	55 10SW	7–8	SOIL	—	—	—	—	1.92 (J+)	—	—	—	—	—	1.42E-05	3.72E-05	6.06E-06
RE00-22-249988	00-61643	55 10SW	10–11	QBT3	—	—	—	—	—	—	—	—	0.014 (J)	—	1.95E-06 (J)	4.14E-06 (J)	5.97E-07 (J)
RE00-22-249989	00-61643	55 10SW	12–13	QBT3	—	—	—	—	0.069	—	—	—	0.00172 (J)	—	1.11E-06 (J)	2.25E-06 (J)	—
RE00-22-249990	00-61644	55 10SE	0–1	SOIL	—	—	—	0.0344	—	—	—	—	0.0598 (J)	—	1.46E-05	3.06E-05	5.40E-06
RE00-22-249991	00-61644	55 10SE	3–4	SOIL	—	—	—	0.0103	—	—	—	—	0.0136	—	1.09E-05	2.17E-05	3.22E-06 (J)
RE00-22-249992	00-61644	55 10SE	7–8	SOIL	—	—	—	—	—	—	—	—	0.0112 (J)	—	6.15E-06	1.36E-05	2.09E-06 (J)
RE00-22-249993	00-61644	55 10SE	10–11	QBT3	—	—	—	—	—	—	—	—	—	—	1.45E-06 (J)	2.8E-06 (J)	6.09E-07 (J)
RE00-22-249994	00-61644	55 10SE	12–13	QBT3	—	—	—	—	0.106 (J)	—	—	—	0.0146 (J)	—	1.44E-06 (J)	1.49E-06 (J)	1.7E-06 (J)
RE00-22-249995	00-61645	55 15SE	0–1	SOIL	—	—	—	0.0288 (J)	—	—	—	—	0.0503	—	NA	NA	NA
RE00-22-249996	00-61645	55 15SE	3–4	SOIL	—	—	—	0.0329 (J)	—	—	—	—	0.0768	—	NA	NA	NA
RE00-22-249997	00-61645	55 15SE	7–8	SOIL	—	—	—	0.0256 (J)	—	—	—	—	0.0403	—	NA	NA	NA
RE00-22-250000	00-61646	55 15E	0–1	SOIL	—	—	—	0.0293 (J)	—	—	—	—	0.055	—	NA	NA	NA
RE00-22-250001	00-61646	55 15E	3–4	SOIL	—	—	—	—	—	—	—	—	0.0219 (J+)	—	NA	NA	NA
RE00-22-250002	00-61646	55 15E	7–8	SOIL	—	—	—	—	—	—	—	—	0.0265 (J)	—	NA	NA	NA

Table 5.1-2 (continued)

Sample ID	Location ID	Borehole ID	Depth (ft)	Media	Bis(2-ethylhexyl)phthalate	Butanone[2-]	Butylbenzylphthalate	Chrysene	Di-n-butylphthalate	Di-n-octylphthalate	Dibenz(a,h)anthracene	Dioxane[1,4-]	Fluoranthene	Fluorene	Heptachlorodibenzodioxin[1,2,3,4,6,7,-]	Heptachlorodibenzodioxins (Total)	Heptachlorodibenzofuran[1,2,3,4,6,7,8-]
Construction Worker SSL[a]					**5380**	**91,700**	**53,800[b]**	**23,100**	**26,900**	**2690[b]**	**24**	**1880**	**10,000**	**10,000**	**na**	**na**	**na**
Industrial SSL[a]					**1830**	**411,000**	**12,000[c]**	**3230**	**91,600**	**8200[c]**	**3.23**	**257**	**33,700**	**33,700**	**na**	**na**	**na**
Recreational SSL[e]					**1770**	**353,000**	**13,100**	**8880**	**32,800**	**3280**	**8.88**	**248**	**11,500**	**11,500**	**na**	**na**	**na**
Residential SSL[a]					**380**	**37,400**	**2900[c]**	**153**	**6160**	**630[c]**	**0.153**	**53.3**	**2320**	**2320**	**na**	**na**	**na**
RE00-22-250005	00-61647	55 15NE	0–1	SOIL	—	—	—	0.0215 (J)	—	—	—	—	0.0251 (J)	—	NA	NA	NA
RE00-22-250008	00-61647	55 15NE	10–11	QBT3	—	—	—	—	—	—	—	—	0.0157 (J)	—	NA	NA	NA
RE00-22-250009	00-61647	55 15NE	12–13	QBT3	—	—	—	—	—	—	—	—	0.00235 (J)	—	NA	NA	NA
RE00-22-250010	00-61648	55 10NW	0–1	SOIL	—	—	—	0.0217 (J)	—	—	—	—	0.0289 (J)	—	NA	NA	NA
RE00-22-250012	00-61648	55 10NW	7–8	QBT3	—	0.00176 (J)	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-250015	00-61649	55 10N	0–1	SOIL	—	—	—	0.0846 (J)	—	—	—	—	0.141	—	NA	NA	NA
RE00-22-250016	00-61649	55 10N	3–4	SOIL	—	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-250018	00-61649	55 10N	10–11	QBT3	—	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-250946	00-61663	53 10ENE	0–1	SOIL	—	—	—	0.0127 (J)	—	—	—	—	0.0181	—	NA	NA	NA
RE00-22-250948	00-61663	53 10ENE	7–8	QBT3	—	—	—	0.0129 (J)	—	—	—	—	0.0221	—	NA	NA	NA
RE00-22-253183	00-61710	53 10NNE	0–1	SOIL	0.0327 (J)	—	—	0.00843 (J)	0.175	—	—	—	0.0133 (J)	—	NA	NA	NA
RE00-22-253215	00-61710	53 10NNE	4–5	SOIL	0.011 (J)	—	—	—	0.104	—	—	—	—	—	NA	NA	NA
RE00-22-253216	00-61710	53 10NNE	7–8	SOIL	0.0337 (J)	—	—	—	0.125	—	—	—	0.00316 (J)	—	NA	NA	NA
RE00-22-253199	00-61715	53 10NE	0–1	SOIL	—	—	—	0.0228	0.128 (J)	—	—	—	0.0263	—	NA	NA	NA
RE00-22-253200	00-61715	53 10NE	4–5	SOIL	—	—	—	0.00435	0.0942	—	—	—	0.00471	—	NA	NA	NA
RE00-22-253201	00-61715	53 10NE	7–8	QBT3	—	—	—	—	0.158	—	—	—	—	—	NA	NA	NA
RE00-22-253212	00-61718	53 10ENEV	9–10	QBT3	—	—	—	—	0.0748	—	—	—	—	—	NA	NA	NA
RE00-22-253213	00-61718	53 10ENEV	11–12	QBT3	—	—	—	—	0.0952	—	—	—	—	—	NA	NA	NA

Table 5.1-2 (continued)

Sample ID	Location ID	Borehole ID	Depth (ft)	Media	Heptachlorodibenzofuran[1,2,3,4,7,8,9-]	Heptachlorodibenzofurans (Total)	Hexachlorodibenzodioxin[1,2,3,6,7,8-]	Hexachlorodibenzodioxins (Total)	Hexachlorodibenzofuran[1,2,3,4,7,8-]	Hexachlorodibenzofurans (Total)	Indeno(1,2,3-cd)pyrene	Methylene Chloride	Methylnaphthalene[1-]	Methylnaphthalene[2-]	Naphthalene	Nitrophenol[4-]	Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-]
Construction Worker SSL[a]					**na**	**na**	**na**	**na**	**na**	**na**	**240**	**1210**	**6060**	**1000**	**159**	**na**	**na**
Industrial SSL[a]					**na**	**na**	**na**	**na**	**na**	**na**	**32.3**	**5130**	**813**	**3370**	**108**	**na**	**na**
Recreational SSL[e]					**na**	**na**	**na**	**na**	**na**	**na**	**88.8**	**3610**		**1150**	**1930**	**na**	**na**
Residential SSL[a]					**na**	**na**	**na**	**na**	**na**	**na**	**1.53**	**409**	**172**	**232**	**22.6**	**na**	**na**
RE00-22-238044	00-172	41	12–13	QBT3	—	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238045	00-172	41	15–16	QBT3	—	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238059	00-178	46	3.0–4.0	SOIL	NA	NA	NA	NA	NA	NA	—	—	—	—	—	—	NA
RE00-22-238063	00-180	53	0–1	SOIL	NA	NA	NA	NA	NA	NA	—	—	—	—	—	—	NA
RE00-22-238070	00-182	54	8.1–9.0	QBT3	NA	NA	NA	NA	NA	NA	—	—	—	—	—	—	NA
RE00-22-238086	00-189	30	0–1	FILL	NA	NA	NA	NA	NA	NA	—	—	—	—	—	—	NA
RE00-22-238092	00-191	36	14.5–15.5	QBT3	NA	NA	NA	NA	NA	NA	—	—	—	—	—	—	NA
RE00-22-238211	00-241	38	20–21	QBT3	NA	NA	NA	NA	NA	NA	—	—	—	—	—	—	NA
RE00-22-238215	00-243	45	17–18	QBT3	NA	NA	NA	NA	NA	NA	—	—	—	—	—	—	NA
RE00-22-238216	00-244	50	13–14	QBT3	NA	NA	NA	NA	NA	NA	—	—	—	—	—	—	NA
RE00-22-238218	00-245	49	11–12	QBT3	NA	NA	NA	NA	NA	NA	—	—	—	—	—	—	NA
RE00-22-238225	00-248	55	13–14	QBT3	NA	NA	NA	NA	NA	NA	—	—	—	—	—	—	NA
RE00-22-238228	00-250	35	12–13	QBT3	NA	NA	NA	NA	NA	NA	—	—	—	—	—	—	NA
RE00-22-238230	00-251	44	15–16	QBT3	—	—	—	—	—	—	—	—	—	—	—	—	9.49E-07 (J)
RE00-22-238233	00-252	43	14–15	QBT3	—	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238234	00-253	42	14–15	QBT3	—	—	—	—	—	—	—	—	—	—	—	—	8.18E-07 (J)
RE00-22-238235	00-253	42	17–18	QBT3	—	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238303	00-61524	32	0–1	FILL	NA	NA	NA	NA	NA	NA	—	—	—	—	—	—	NA
RE00-22-238288	00-61524	32	15–16	QBT3	NA	NA	NA	NA	NA	NA	—	—	—	—	—	—	NA
RE00-22-238304	00-61525	31	0–1	FILL	NA	NA	NA	NA	NA	NA	—	—	0.0174 (J)	0.0244 (J)	0.0174 (J)	—	NA
RE00-22-238308	00-61529	51	0.0–1.0	FILL	NA	NA	NA	NA	NA	NA	0.0488 (J)	0.00306 (J)	0.111	0.146	0.0975	—	NA
RE00-22-238309	00-61529	51	3.0–4.0	FILL	NA	NA	NA	NA	NA	NA	—	—	—	—	—	—	NA
RE00-22-238310	00-61529	51	6–7	SOIL	NA	NA	NA	NA	NA	NA	—	0.00217 (J)	0.0415	0.0484	0.0277 (J)	—	NA

Table 5.1-2 (continued)

Sample ID	Location ID	Borehole ID	Depth (ft)	Media	Heptachlorodibenzofuran[1,2,3,4,7,8,9-]	Heptachlorodibenzofurans (Total)	Hexachlorodibenzodioxin[1,2,3,6,7,8-]	Hexachlorodibenzodioxins (Total)	Hexachlorodibenzofuran[1,2,3,4,7,8-]	Hexachlorodibenzofurans (Total)	Indeno(1,2,3-cd)pyrene	Methylene Chloride	Methylnaphthalene[1-]	Methylnaphthalene[2-]	Naphthalene	Nitrophenol[4-]	Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-]
Construction Worker SSL[a]					**na**	**na**	**na**	**na**	**na**	**na**	**240**	**1210**	**6060**	**1000**	**159**	**na**	**na**
Industrial SSL[a]					**na**	**na**	**na**	**na**	**na**	**na**	**32.3**	**5130**	**813**	**3370**	**108**	**na**	**na**
Recreational SSL[e]					**na**	**na**	**na**	**na**	**na**	**na**	**88.8**	**3610**		**1150**	**1930**	**na**	**na**
Residential SSL[a]					**na**	**na**	**na**	**na**	**na**	**na**	**1.53**	**409**	**172**	**232**	**22.6**	**na**	**na**
RE00-22-238311	00-61529	51	10–11	SOIL	NA	NA	NA	NA	NA	NA	—	0.00237 (J)	0.0872	0.11	0.0701	—	NA
RE00-22-238312	00-61529	51	14.5–15.5	QBT3	NA	NA	NA	NA	NA	NA	—	0.00192 (J)	—	—	—	—	NA
RE00-22-238313	00-61530	39	0–1	FILL	NA	NA	NA	NA	NA	NA	0.0279 (J)	—	0.0209 (J)	0.0244 (J)	0.0174 (J)	—	NA
RE00-22-238314	00-61530	39	4–5	SOIL	NA	NA	NA	NA	NA	NA	—	0.00325 (J)	0.344	0.439	0.293	—	NA
RE00-22-238315	00-61530	39	7–8	SOIL	NA	NA	NA	NA	NA	NA	0.029 (J)	0.00188 (J)	0.12	0.149	0.101	—	NA
RE00-22-238316	00-61530	39	9–10	SOIL	NA	NA	NA	NA	NA	NA	0.00789	0.0021 (J)	0.0129 (J)	0.0165 (J)	0.00932	—	NA
RE00-22-238318	00-61531	33	0–1	FILL	NA	NA	NA	NA	NA	NA	—	0.00185 (J)	—	—	—	—	NA
RE00-22-238322	00-61531	33	4–5	FILL	NA	NA	NA	NA	NA	NA	—	0.00504 (J)	0.347 (J)	0.435	0.324 (J)	—	NA
RE00-22-248883	00-61567	55 5N	0–1	SOIL	NA	NA	NA	NA	NA	NA	0.0881	—	—	—	—	—	NA
RE00-22-248884	00-61567	55 5N	3–4	SOIL	NA	NA	NA	NA	NA	NA	—	—	—	—	—	0.158 (J)	NA
RE00-22-248885	00-61567	55 5N	7–8	SOIL	NA	NA	NA	NA	NA	NA	0.00212 (J)	—	—	—	—	—	NA
RE00-22-248971	00-61595	53 5W	0–1	SOIL	NA	NA	NA	NA	NA	NA	—	—	—	—	—	—	NA
RE00-22-248972	00-61595	53 5W	4–5	SOIL	NA	NA	NA	NA	NA	NA	—	—	—	—	—	—	NA
RE00-22-248973	00-61595	53 5W	7–8	QBT3	NA	NA	NA	NA	NA	NA	—	—	—	—	—	—	NA
RE00-22-249066	00-61595	53 5W	9–10	QBT3	NA	NA	NA	NA	NA	NA	—	—	—	—	—	—	NA
RE00-22-249006	00-61595	53 5W	11–12	QBT3	NA	NA	NA	NA	NA	NA	—	—	—	—	—	—	NA
RE00-22-248980	00-61598	55 5S	10–11	QBT3	NA	NA	NA	NA	NA	NA	—	—	—	—	—	—	NA
RE00-22-248995	00-61603	53 10N	0–1	SOIL	NA	NA	NA	NA	NA	NA	0.0158 (J)	—	0.0176	0.0229	0.0176	—	NA
RE00-22-248997	00-61603	53 10N	7–8	QBT3	NA	NA	NA	NA	NA	NA	—	—	—	—	—	—	NA
RE00-22-249000	00-61604	53 10NW	0–1	SOIL	NA	NA	NA	NA	NA	NA	—	—	—	—	—	—	NA
RE00-22-248998	00-61604	53 10NW	7–8	QBT3	NA	NA	NA	NA	NA	NA	—	—	0.00203 (J)	0.0027 (J)	0.00203 (J)	—	NA
RE00-22-249034	00-61617	55 5W	12–13	QBT3	NA	NA	NA	NA	NA	NA	—	—	—	—	—	—	NA
RE00-22-249935	00-61633	55 5NE	0–1	SOIL	—	7.63E-06 (J)	—	2.18E-06 (J)	—	2.46E-06 (J)	—	0.00225 (J)	—	—	—	—	0.000121 (J+)

Table 5.1-2 (continued)

Sample ID	Location ID	Borehole ID	Depth (ft)	Media	Heptachlorodibenzofuran[1,2,3,4,7,8,9-]	Heptachlorodibenzofurans (Total)	Hexachlorodibenzodioxin[1,2,3,6,7,8-]	Hexachlorodibenzodioxins (Total)	Hexachlorodibenzofuran[1,2,3,4,7,8-]	Hexachlorodibenzofurans (Total)	Indeno(1,2,3-cd)pyrene	Methylene Chloride	Methylnaphthalene[1-]	Methylnaphthalene[2-]	Naphthalene	Nitrophenol[4-]	Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-]
Construction Worker SSL[a]					**na**	**na**	**na**	**na**	**na**	**na**	**240**	**1210**	**6060**	**1000**	**159**	**na**	**na**
Industrial SSL[a]					**na**	**na**	**na**	**na**	**na**	**na**	**32.3**	**5130**	**813**	**3370**	**108**	**na**	**na**
Recreational SSL[e]					**na**	**na**	**na**	**na**	**na**	**na**	**88.8**	**3610**		**1150**	**1930**	**na**	**na**
Residential SSL[a]					**na**	**na**	**na**	**na**	**na**	**na**	**1.53**	**409**	**172**	**232**	**22.6**	**na**	**na**
RE00-22-249936	00-61633	55 5NE	3–4	SOIL	—	3.49E-06 (J)	—	1.83E-06 (J)	—	3.04E-06 (J)	0.0111 (J)	0.00207 (J)	0.0609 (J)	0.102 (J)	0.148 (J)	—	2.82E-05 (J+)
RE00-22-249937	00-61633	55 5NE	7–8	SOIL	—	—	—	—	—	—	0.00437	—	0.00255 (J)	0.00364	0.00473	—	6.64E-06 (J)
RE00-22-249938	00-61633	55 5NE	10–11	QBT3	—	4.27E-06 (J)	—	—	—	4.42E-07 (J)	—	—	0.00204 (J)	0.00341	0.00545	—	5.39E-05
RE00-22-249939	00-61633	55 5NE	12–13	QBT3	—	8.74E-07 (J)	—	—	—	—	—	—	—	—	—	—	1.03E-05
RE00-22-249940	00-61634	55 5SW	0–1	SOIL	NA	NA	NA	NA	NA	NA	—	—	—	—	—	—	NA
RE00-22-249941	00-61634	55 5SW	3–4	SOIL	NA	NA	NA	NA	NA	NA	—	—	—	—	—	—	NA
RE00-22-249946	00-61635	55 5SE	0–1	SOIL	NA	NA	NA	NA	NA	NA	—	—	—	—	—	—	NA
RE00-22-249947	00-61635	55 5SE	3–4	SOIL	NA	NA	NA	NA	NA	NA	—	—	—	—	—	—	NA
RE00-22-249948	00-61635	55 5SE	7–8	SOIL	NA	NA	NA	NA	NA	NA	—	—	—	—	—	—	NA
RE00-22-249950	00-61636	55 5NW	0–1	SOIL	NA	NA	NA	NA	NA	NA	—	—	—	—	—	—	NA
RE00-22-249951	00-61636	55 5NW	3–4	SOIL	NA	NA	NA	NA	NA	NA	—	—	0.00215 (J)	0.00286 (J)	0.00179 (J)	—	NA
RE00-22-249953	00-61636	55 5NW	10–11	QBT3	NA	NA	NA	NA	NA	NA	—	—	—	—	—	—	NA
RE00-22-249954	00-61636	55 5NW	12–13	QBT3	NA	NA	NA	NA	NA	NA	—	—	—	—	—	—	NA
RE00-22-249955	00-61637	55 10S	0–1	SOIL	NA	NA	NA	NA	NA	NA	0.0363 (J)	—	—	—	—	—	NA
RE00-22-249957	00-61637	55 10S	7–8	SOIL	NA	NA	NA	NA	NA	NA	—	0.241 (J)	—	—	—	—	NA
RE00-22-249963	00-61638	55 10E	10–11	QBT3	NA	NA	NA	NA	NA	NA	0.00371	—	—	—	0.00222 (J)	—	NA
RE00-22-249965	00-61639	55 15SW	0–1	SOIL	NA	NA	NA	NA	NA	NA	—	—	—	—	—	—	NA
RE00-22-249966	00-61639	55 15SW	3–4	SOIL	NA	NA	NA	NA	NA	NA	—	—	—	—	—	—	NA
RE00-22-249968	00-61639	55 15SW	10–11	QBT3	NA	NA	NA	NA	NA	NA	0.0028 (J)	—	—	—	—	—	NA
RE00-22-249970	00-61640	55 15S	0–1	SOIL	NA	NA	NA	NA	NA	NA	0.0265	—	—	—	—	—	NA
RE00-22-249971	00-61640	55 15S	3–4	SOIL	NA	NA	NA	NA	NA	NA	—	—	—	0.0111 (J)	0.0277	—	NA
RE00-22-249972	00-61640	55 15S	7–8	SOIL	NA	NA	NA	NA	NA	NA	0.0112 (J)	—	—	—	—	—	NA
RE00-22-249974	00-61640	55 15S	12–13	QBT3	NA	NA	NA	NA	NA	NA	—	—	—	—	—	—	NA

Table 5.1-2 (continued)

Sample ID	Location ID	Borehole ID	Depth (ft)	Media	Heptachlorodibenzofuran[1,2,3,4,7,8,9-]	Heptachlorodibenzofurans (Total)	Hexachlorodibenzodioxin[1,2,3,6,7,8-]	Hexachlorodibenzodioxins (Total)	Hexachlorodibenzofuran[1,2,3,4,7,8-]	Hexachlorodibenzofurans (Total)	Indeno(1,2,3-cd)pyrene	Methylene Chloride	Methylnaphthalene[1-]	Methylnaphthalene[2-]	Naphthalene	Nitrophenol[4-]	Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-]
Construction Worker SSL[a]					**na**	**na**	**na**	**na**	**na**	**na**	**240**	**1210**	**6060**	**1000**	**159**	**na**	**na**
Industrial SSL[a]					**na**	**na**	**na**	**na**	**na**	**na**	**32.3**	**5130**	**813**	**3370**	**108**	**na**	**na**
Recreational SSL[e]					**na**	**na**	**na**	**na**	**na**	**na**	**88.8**	**3610**		**1150**	**1930**	**na**	**na**
Residential SSL[a]					**na**	**na**	**na**	**na**	**na**	**na**	**1.53**	**409**	**172**	**232**	**22.6**	**na**	**na**
RE00-22-249975	00-61641	55 15SSE	0–1	SOIL	NA	NA	NA	NA	NA	NA	0.108	—	—	—	—	—	NA
RE00-22-249977	00-61641	55 15SSE	7–8	SOIL	NA	NA	NA	NA	NA	NA	—	—	—	—	—	—	NA
RE00-22-249980	00-61642	55 10NE	0–1	SOIL	—	1.02E-05 (J)	—	1E-06 (J)	9.53E-07 (J)	3.05E-06 (J)	—	—	—	—	—	—	0.000112
RE00-22-249981	00-61642	55 10NE	3–4	SOIL	—	8.96E-06	—	—	4.86E-07 (J)	3E-06 (J)	—	—	—	—	—	—	6.71E-05
RE00-22-249982	00-61642	55 10NE	7–8	SOIL	—	—	—	—	—	—	—	—	—	—	—	—	7.18E-06 (J)
RE00-22-249983	00-61642	55 10NE	10–11	QBT3	—	7.26E-07 (J)	—	—	—	—	—	—	—	—	—	—	1.15E-05
RE00-22-249984	00-61642	55 10NE	12–13	QBT3	—	—	—	—	—	—	—	—	—	—	—	—	6.2E-06 (J)
RE00-22-249985	00-61643	55 10SW	0–1	SOIL	7.39E-07 (J)	1.67E-05 (J)	8.15E-07 (J)	3.05E-06 (J)	1.55E-06 (J)	8.44E-06 (J)	—	—	—	—	—	—	0.000251
RE00-22-249986	00-61643	55 10SW	3–4	SOIL	—	7.07E-06 (J)	—	1.55E-06 (J)	5.94E-07 (J)	1.94E-06 (J)	—	—	—	—	—	—	0.000112
RE00-22-249987	00-61643	55 10SW	7–8	SOIL	—	2.03E-05	5.17E-07 (J)	9.54E-07 (J)	—	4.22E-06 (J)	—	—	—	—	—	—	0.000257
RE00-22-249988	00-61643	55 10SW	10–11	QBT3	—	1.67E-06 (J)	—	—	—	—	—	—	—	—	—	—	2.23E-05
RE00-22-249989	00-61643	55 10SW	12–13	QBT3	—	4.56E-07 (J)	—	—	—	—	—	—	—	—	—	—	1.01E-05
RE00-22-249990	00-61644	55 10SE	0–1	SOIL	7.34E-07 (J)	1.5E-05 (J)	4.43E-07 (J)	1.97E-06 (J)	1.87E-06 (J)	7.92E-06 (J)	0.0145 (J)	—	—	—	—	—	0.000179
RE00-22-249991	00-61644	55 10SE	3–4	SOIL	4.83E-07 (J)	8.69E-06 (J)	—	1.73E-06 (J)	8.95E-07 (J)	3.68E-06 (J)	0.00331 (J)	—	—	0.00221 (J)	—	—	0.000107
RE00-22-249992	00-61644	55 10SE	7–8	SOIL	—	5.48E-06 (J)	—	6.26E-07 (J)	5.94E-07 (J)	1.53E-06 (J)	—	—	—	—	—	—	7.13E-05
RE00-22-249993	00-61644	55 10SE	10–11	QBT3	—	1.42E-06 (J)	—	—	—	—	—	—	—	—	—	—	1.47E-05
RE00-22-249994	00-61644	55 10SE	12–13	QBT3	—	1.69E-06 (J)	—	—	—	5.35E-07 (J)	—	—	—	—	—	—	1.66E-05
RE00-22-249995	00-61645	55 15SE	0–1	SOIL	NA	NA	NA	NA	NA	NA	—	—	—	—	—	—	NA
RE00-22-249996	00-61645	55 15SE	3–4	SOIL	NA	NA	NA	NA	NA	NA	—	—	—	—	—	—	NA
RE00-22-249997	00-61645	55 15SE	7–8	SOIL	NA	NA	NA	NA	NA	NA	—	—	—	—	—	—	NA
RE00-22-250000	00-61646	55 15E	0–1	SOIL	NA	NA	NA	NA	NA	NA	—	—	—	—	—	—	NA
RE00-22-250001	00-61646	55 15E	3–4	SOIL	NA	NA	NA	NA	NA	NA	—	—	—	—	—	—	NA
RE00-22-250002	00-61646	55 15E	7–8	SOIL	NA	NA	NA	NA	NA	NA	—	—	—	—	—	—	NA

Table 5.1-2 (continued)

Sample ID	Location ID	Borehole ID	Depth (ft)	Media	Heptachlorodibenzofuran[1,2,3,4,7,8,9-]	Heptachlorodibenzofurans (Total)	Hexachlorodibenzodioxin[1,2,3,6,7,8-]	Hexachlorodibenzodioxins (Total)	Hexachlorodibenzofuran[1,2,3,4,7,8-]	Hexachlorodibenzofurans (Total)	Indeno(1,2,3-cd)pyrene	Methylene Chloride	Methylnaphthalene[1-]	Methylnaphthalene[2-]	Naphthalene	Nitrophenol[4-]	Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-]
Construction Worker SSL[a]					**na**	**na**	**na**	**na**	**na**	**na**	**240**	**1210**	**6060**	**1000**	**159**	**na**	**na**
Industrial SSL[a]					**na**	**na**	**na**	**na**	**na**	**na**	**32.3**	**5130**	**813**	**3370**	**108**	**na**	**na**
Recreational SSL[e]					**na**	**na**	**na**	**na**	**na**	**na**	**88.8**	**3610**		**1150**	**1930**	**na**	**na**
Residential SSL[a]					**na**	**na**	**na**	**na**	**na**	**na**	**1.53**	**409**	**172**	**232**	**22.6**	**na**	**na**
RE00-22-250005	00-61647	55 15NE	0–1	SOIL	NA	NA	NA	NA	NA	NA	—	—	—	—	—	—	NA
RE00-22-250008	00-61647	55 15NE	10–11	QBT3	NA	NA	NA	NA	NA	NA	—	—	—	—	—	—	NA
RE00-22-250009	00-61647	55 15NE	12–13	QBT3	NA	NA	NA	NA	NA	NA	—	—	—	—	—	—	NA
RE00-22-250010	00-61648	55 10NW	0–1	SOIL	NA	NA	NA	NA	NA	NA	—	—	0.0253 (J)	0.0326 (J)	0.0217 (J)	—	NA
RE00-22-250012	00-61648	55 10NW	7–8	QBT3	NA	NA	NA	NA	NA	NA	—	—	—	—	—	—	NA
RE00-22-250015	00-61649	55 10N	0–1	SOIL	NA	NA	NA	NA	NA	NA	—	—	—	—	—	—	NA
RE00-22-250016	00-61649	55 10N	3–4	SOIL	NA	NA	NA	NA	NA	NA	—	—	—	—	—	—	NA
RE00-22-250018	00-61649	55 10N	10–11	QBT3	NA	NA	NA	NA	NA	NA	—	—	—	—	—	—	NA
RE00-22-250946	00-61663	53 10ENE	0–1	SOIL	NA	NA	NA	NA	NA	NA	—	—	—	0.00905 (J)	—	—	NA
RE00-22-250948	00-61663	53 10ENE	7–8	QBT3	NA	NA	NA	NA	NA	NA	—	—	—	—	—	—	NA
RE00-22-253183	00-61710	53 10NNE	0–1	SOIL	NA	NA	NA	NA	NA	NA	0.00492 (J)	—	0.00562 (J)	0.00667 (J)	0.00492 (J)	—	NA
RE00-22-253215	00-61710	53 10NNE	4–5	SOIL	NA	NA	NA	NA	NA	NA	—	—	0.00219 (J)	0.00256 (J)	0.00183 (J)	—	NA
RE00-22-253216	00-61710	53 10NNE	7–8	SOIL	NA	NA	NA	NA	NA	NA	—	—	0.00211 (J)	0.00281 (J)	0.00211 (J)	—	NA
RE00-22-253199	00-61715	53 10NE	0–1	SOIL	NA	NA	NA	NA	NA	NA	0.0158 (J)	—	—	0.00877 (J)	—	—	NA
RE00-22-253200	00-61715	53 10NE	4–5	SOIL	NA	NA	NA	NA	NA	NA	—	—	0.0159 (J)	0.0167 (J)	0.0109 (J)	—	NA
RE00-22-253201	00-61715	53 10NE	7–8	QBT3	NA	NA	NA	NA	NA	NA	—	—	0.00217 (J)	0.00217 (J)	—	—	NA
RE00-22-253212	00-61718	53 10ENEV	9–10	QBT3	NA	NA	NA	NA	NA	NA	—	—	—	—	—	—	NA
RE00-22-253213	00-61718	53 10ENEV	11–12	QBT3	NA	NA	NA	NA	NA	NA	—	—	—	—	—	—	NA

Table 5.1-2 (continued)

Sample ID	Location ID	Borehole ID	Depth (ft)	Media	Octachlorodibenzofuran[1,2,3,4,6,7,8,9-]	Pentachlorodibenzofuran[1,2,3,7,8-]	Pentachlorodibenzofuran[2,3,4,7,8-]	Pentachlorodibenzofurans (Totals)	Phenanthrene	Pyrene	Tetrachlorodibenzodioxins (Total)	Tetrachlorodibenzofuran[2,3,7,8-]	Tetrachlorodibenzofurans (Totals)	Toluene	Total PAHs	Trimethylbenzene[1,2,4-]
Construction Worker SSL[a]					**na**	**na**	**na**	**na**	**8070**	**7530**	**na**	**0.0172**	**na**	**14,000**	**na**	**504[b]**
Industrial SSL[a]					**na**	**na**	**na**	**na**	**27,500**	**25,300**	**na**	**0.00243**	**na**	**61,300**	**na**	**1800[c]**
Recreational SSL[e]					**na**	**na**	**na**	**na**	**8630**	**8630**	**na**	**0.00297**	**na**	**47,600**	**na**	**5010**
Residential SSL[a]					**na**	**na**	**na**	**na**	**1850**	**1740**	**na**	**0.00049**	**na**	**5230**	**na**	**300[c]**
RE00-22-238044	00-172	41	12–13	QBT3	—	—	—	—	—	—	—	—	—	—	NA	—
RE00-22-238045	00-172	41	15–16	QBT3	—	—	—	—	—	—	—	—	—	—	NA	—
RE00-22-238059	00-178	46	3.0–4.0	SOIL	NA	NA	NA	NA	—	—	NA	NA	NA	—	NA	—
RE00-22-238063	00-180	53	0–1	SOIL	NA	NA	NA	NA	0.637 (J)	0.582 (J)	NA	NA	NA	—	NA	—
RE00-22-238070	00-182	54	8.1–9.0	QBT3	NA	NA	NA	NA	0.0112 (J)	0.0119 (J)	NA	NA	NA	—	NA	—
RE00-22-238086	00-189	30	0–1	FILL	NA	NA	NA	NA	—	—	NA	NA	NA	0.00124	NA	—
RE00-22-238092	00-191	36	14.5–15.5	QBT3	NA	NA	NA	NA	0.00169 (J)	—	NA	NA	NA	—	—	—
RE00-22-238211	00-241	38	20–21	QBT3	NA	NA	NA	NA	—	—	NA	NA	NA	—	—	—
RE00-22-238215	00-243	45	17–18	QBT3	NA	NA	NA	NA	—	—	NA	NA	NA	—	—	—
RE00-22-238216	00-244	50	13–14	QBT3	NA	NA	NA	NA	—	—	NA	NA	NA	—	—	—
RE00-22-238218	00-245	49	11–12	QBT3	NA	NA	NA	NA	—	—	NA	NA	NA	—	—	—
RE00-22-238225	00-248	55	13–14	QBT3	NA	NA	NA	NA	—	—	NA	NA	NA	—	—	—
RE00-22-238228	00-250	35	12–13	QBT3	NA	NA	NA	NA	—	—	NA	NA	NA	—	—	—
RE00-22-238230	00-251	44	15–16	QBT3	—	—	—	—	—	—	—	—	—	—	NA	—
RE00-22-238233	00-252	43	14–15	QBT3	—	—	—	—	—	—	—	—	—	—	NA	—
RE00-22-238234	00-253	42	14–15	QBT3	—	—	—	—	—	—	—	—	—	—	NA	—
RE00-22-238235	00-253	42	17–18	QBT3	—	—	—	—	—	—	—	—	—	—	NA	—
RE00-22-238303	00-61524	32	0–1	FILL	NA	NA	NA	NA	—	—	NA	NA	NA	—	NA	—
RE00-22-238288	00-61524	32	15–16	QBT3	NA	NA	NA	NA	0.00281 (J)	—	NA	NA	NA	—	—	—
RE00-22-238304	00-61525	31	0–1	FILL	NA	NA	NA	NA	—	0.0313 (J)	NA	NA	NA	—	—	—
RE00-22-238308	00-61529	51	0.0–1.0	FILL	NA	NA	NA	NA	0.0766	0.0836	NA	NA	NA	0.00243 (J+)	—	—
RE00-22-238309	00-61529	51	3.0–4.0	FILL	NA	NA	NA	NA	—	0.0566 (J)	NA	NA	NA	—	—	—
RE00-22-238310	00-61529	51	6–7	SOIL	NA	NA	NA	NA	0.0484	—	NA	NA	NA	—	—	—

Table 5.1-2 (continued)

Sample ID	Location ID	Borehole ID	Depth (ft)	Media	Octachlorodibenzofuran[1,2,3,4,6,7,8,9-]	Pentachlorodibenzofuran[1,2,3,7,8-]	Pentachlorodibenzofuran[2,3,4,7,8-]	Pentachlorodibenzofurans (Totals)	Phenanthrene	Pyrene	Tetrachlorodibenzodioxins (Total)	Tetrachlorodibenzofuran[2,3,7,8-]	Tetrachlorodibenzofurans (Totals)	Toluene	Total PAHs	Trimethylbenzene[1,2,4-]
Construction Worker SSL[a]					**na**	**na**	**na**	**na**	**8070**	**7530**	**na**	**0.0172**	**na**	**14,000**	**na**	**504[b]**
Industrial SSL[a]					**na**	**na**	**na**	**na**	**27,500**	**25,300**	**na**	**0.00243**	**na**	**61,300**	**na**	**1800[c]**
Recreational SSL[e]					**na**	**na**	**na**	**na**	**8630**	**8630**	**na**	**0.00297**	**na**	**47,600**	**na**	**5010**
Residential SSL[a]					**na**	**na**	**na**	**na**	**1850**	**1740**	**na**	**0.00049**	**na**	**5230**	**na**	**300[c]**
RE00-22-238311	00-61529	51	10–11	SOIL	NA	NA	NA	NA	0.036	—	NA	NA	NA	—	182	—
RE00-22-238312	00-61529	51	14.5–15.5	QBT3	NA	NA	NA	NA	—	—	NA	NA	NA	—	—	—
RE00-22-238313	00-61530	39	0–1	FILL	NA	NA	NA	NA	—	0.0663	NA	NA	NA	—	—	—
RE00-22-238314	00-61530	39	4–5	SOIL	NA	NA	NA	NA	0.154 (J+)	0.0585	NA	NA	NA	—	1040	—
RE00-22-238315	00-61530	39	7–8	SOIL	NA	NA	NA	NA	—	0.058	NA	NA	NA	—	130 (J+)	—
RE00-22-238316	00-61530	39	9–10	SOIL	NA	NA	NA	NA	0.0129 (J)	0.0061 (J)	NA	NA	NA	—	53.4	—
RE00-22-238318	00-61531	33	0–1	FILL	NA	NA	NA	NA	—	—	NA	NA	NA	—	NA	—
RE00-22-238322	00-61531	33	4–5	FILL	NA	NA	NA	NA	0.184 (J)	—	NA	NA	NA	—	NA	—
RE00-22-248883	00-61567	55 5N	0–1	SOIL	NA	NA	NA	NA	0.194	0.211	NA	NA	NA	—	433	—
RE00-22-248884	00-61567	55 5N	3–4	SOIL	NA	NA	NA	NA	—	—	NA	NA	NA	—	—	—
RE00-22-248885	00-61567	55 5N	7–8	SOIL	NA	NA	NA	NA	0.00635	0.00635	NA	NA	NA	—	—	—
RE00-22-248971	00-61595	53 5W	0–1	SOIL	NA	NA	NA	NA	—	0.0433 (J)	NA	NA	NA	—	—	—
RE00-22-248972	00-61595	53 5W	4–5	SOIL	NA	NA	NA	NA	—	—	NA	NA	NA	—	—	—
RE00-22-248973	00-61595	53 5W	7–8	QBT3	NA	NA	NA	NA	—	—	NA	NA	NA	—	—	—
RE00-22-249066	00-61595	53 5W	9–10	QBT3	NA	NA	NA	NA	—	—	NA	NA	NA	—	—	—
RE00-22-249006	00-61595	53 5W	11–12	QBT3	NA	NA	NA	NA	—	—	NA	NA	NA	—	—	—
RE00-22-248980	00-61598	55 5S	10–11	QBT3	NA	NA	NA	NA	—	—	NA	NA	NA	—	—	—
RE00-22-248995	00-61603	53 10N	0–1	SOIL	NA	NA	NA	NA	0.0299	0.0387	NA	NA	NA	—	—	—
RE00-22-248997	00-61603	53 10N	7–8	QBT3	NA	NA	NA	NA	—	—	NA	NA	NA	—	—	—
RE00-22-249000	00-61604	53 10NW	0–1	SOIL	NA	NA	NA	NA	—	0.0172 (J)	NA	NA	NA	—	—	—
RE00-22-248998	00-61604	53 10NW	7–8	QBT3	NA	NA	NA	NA	—	—	NA	NA	NA	—	—	—
RE00-22-249034	00-61617	55 5W	12–13	QBT3	NA	NA	NA	NA	0.00207 (J)	0.00379	NA	NA	NA	—	—	—
RE00-22-249935	00-61633	55 5NE	0–1	SOIL	6.85E-06 (J)	—	—	3.13E-06 (J)	—	0.0247 (J)	—	—	—	—	—	—

Table 5.1-2 (continued)

Sample ID	Location ID	Borehole ID	Depth (ft)	Media	Octachlorodibenzofuran[1,2,3,4,6,7,8,9-]	Pentachlorodibenzofuran[1,2,3,7,8-]	Pentachlorodibenzofuran[2,3,4,7,8-]	Pentachlorodibenzofurans (Totals)	Phenanthrene	Pyrene	Tetrachlorodibenzodioxins (Total)	Tetrachlorodibenzofuran[2,3,7,8-]	Tetrachlorodibenzofurans (Totals)	Toluene	Total PAHs	Trimethylbenzene[1,2,4-]
Construction Worker SSL[a]					**na**	**na**	**na**	**na**	**8070**	**7530**	**na**	**0.0172**	**na**	**14,000**	**na**	**504[b]**
Industrial SSL[a]					**na**	**na**	**na**	**na**	**27,500**	**25,300**	**na**	**0.00243**	**na**	**61,300**	**na**	**1800[c]**
Recreational SSL[e]					**na**	**na**	**na**	**na**	**8630**	**8630**	**na**	**0.00297**	**na**	**47,600**	**na**	**5010**
Residential SSL[a]					**na**	**na**	**na**	**na**	**1850**	**1740**	**na**	**0.00049**	**na**	**5230**	**na**	**300[c]**
RE00-22-249936	00-61633	55 5NE	3–4	SOIL	2.81E-06 (J)	5.76E-07 (J)	—	2.7E-06 (J)	0.0295	0.0148 (J)	—	—	—	—	310	—
RE00-22-249937	00-61633	55 5NE	7–8	SOIL	—	—	—	—	0.00364	0.00765	—	—	—	—	—	—
RE00-22-249938	00-61633	55 5NE	10–11	QBT3	4.86E-06 (J)	—	—	—	0.00307 (J)	0.0017 (J)	—	—	—	—	—	—
RE00-22-249939	00-61633	55 5NE	12–13	QBT3	—	—	—	—	0.00171 (J)	—	—	—	—	—	—	—
RE00-22-249940	00-61634	55 5SW	0–1	SOIL	NA	NA	NA	NA	0.018 (J)	0.0396	NA	NA	NA	—	—	—
RE00-22-249941	00-61634	55 5SW	3–4	SOIL	NA	NA	NA	NA	0.0188 (J)	0.188 (J)	NA	NA	NA	—	601	—
RE00-22-249946	00-61635	55 5SE	0–1	SOIL	NA	NA	NA	NA	0.0507 (J)	0.0797	NA	NA	NA	—	—	—
RE00-22-249947	00-61635	55 5SE	3–4	SOIL	NA	NA	NA	NA	—	0.0357 (J)	NA	NA	NA	—	—	—
RE00-22-249948	00-61635	55 5SE	7–8	SOIL	NA	NA	NA	NA	—	0.0502 (J)	NA	NA	NA	—	—	—
RE00-22-249950	00-61636	55 5NW	0–1	SOIL	NA	NA	NA	NA	0.0484 (J)	0.0761	NA	NA	NA	—	—	0.000523 (J)
RE00-22-249951	00-61636	55 5NW	3–4	SOIL	NA	NA	NA	NA	0.00286 (J)	—	NA	NA	NA	—	—	—
RE00-22-249953	00-61636	55 5NW	10–11	QBT3	NA	NA	NA	NA	—	—	NA	NA	NA	—	—	—
RE00-22-249954	00-61636	55 5NW	12–13	QBT3	NA	NA	NA	NA	0.00197 (J)	—	NA	NA	NA	—	—	—
RE00-22-249955	00-61637	55 10S	0–1	SOIL	NA	NA	NA	NA	0.0436 (J)	0.102	NA	NA	NA	—	—	—
RE00-22-249957	00-61637	55 10S	7–8	SOIL	NA	NA	NA	NA	0.0111 (J)	0.0186	NA	NA	NA	—	—	—
RE00-22-249963	00-61638	55 10E	10–11	QBT3	NA	NA	NA	NA	0.00556	0.0137	NA	NA	NA	—	12.2	—
RE00-22-249965	00-61639	55 15SW	0–1	SOIL	NA	NA	NA	NA	—	0.049 (J)	NA	NA	NA	—	—	—
RE00-22-249966	00-61639	55 15SW	3–4	SOIL	NA	NA	NA	NA	0.0111 (J)	0.0204	NA	NA	NA	—	—	—
RE00-22-249968	00-61639	55 15SW	10–11	QBT3	NA	NA	NA	NA	—	0.00419	NA	NA	NA	—	—	—
RE00-22-249970	00-61640	55 15S	0–1	SOIL	NA	NA	NA	NA	0.076 (J)	0.138 (J)	NA	NA	NA	—	470	—
RE00-22-249971	00-61640	55 15S	3–4	SOIL	NA	NA	NA	NA	0.196	0.176 (J)	NA	NA	NA	—	686	—
RE00-22-249972	00-61640	55 15S	7–8	SOIL	NA	NA	NA	NA	0.0242	0.0428	NA	NA	NA	—	—	—
RE00-22-249974	00-61640	55 15S	12–13	QBT3	NA	NA	NA	NA	—	—	NA	NA	NA	—	—	—

Table 5.1-2 (continued)

Sample ID	Location ID	Borehole ID	Depth (ft)	Media	Octachlorodibenzofuran[1,2,3,4,6,7,8,9-]	Pentachlorodibenzofuran[1,2,3,7,8-]	Pentachlorodibenzofuran[2,3,4,7,8-]	Pentachlorodibenzofurans (Totals)	Phenanthrene	Pyrene	Tetrachlorodibenzodioxins (Total)	Tetrachlorodibenzofuran[2,3,7,8-]	Tetrachlorodibenzofurans (Totals)	Toluene	Total PAHs	Trimethylbenzene[1,2,4-]
Construction Worker SSL[a]					**na**	**na**	**na**	**na**	**8070**	**7530**	**na**	**0.0172**	**na**	**14,000**	**na**	**504**[b]
Industrial SSL[a]					**na**	**na**	**na**	**na**	**27,500**	**25,300**	**na**	**0.00243**	**na**	**61,300**	**na**	**1800**[c]
Recreational SSL[e]					**na**	**na**	**na**	**na**	**8630**	**8630**	**na**	**0.00297**	**na**	**47,600**	**na**	**5010**
Residential SSL[a]					**na**	**na**	**na**	**na**	**1850**	**1740**	**na**	**0.00049**	**na**	**5230**	**na**	**300**[c]
RE00-22-249975	00-61641	55 15SSE	0–1	SOIL	NA	NA	NA	NA	0.728	1	NA	NA	NA	—	3740	—
RE00-22-249977	00-61641	55 15SSE	7–8	SOIL	NA	NA	NA	NA	0.022	0.0257	NA	NA	NA	—	—	—
RE00-22-249980	00-61642	55 10NE	0–1	SOIL	1.07E-05	1.27E-06 (J)	—	3.84E-06 (J)	0.0181 (J)	0.0289 (J)	—	3.65E-07 (J)	2.04E-06 (J)	—	—	—
RE00-22-249981	00-61642	55 10NE	3–4	SOIL	6.4E-06 (J)	7.1E-07 (J)	—	2.79E-06 (J)	—	0.011 (J)	—	—	—	—	—	—
RE00-22-249982	00-61642	55 10NE	7–8	SOIL	—	—	—	—	0.00225 (J)	—	—	1.56E-07 (J)	—	—	—	—
RE00-22-249983	00-61642	55 10NE	10–11	QBT3	1.3E-06 (J)	—	—	—	—	—	—	—	—	—	—	—
RE00-22-249984	00-61642	55 10NE	12–13	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-249985	00-61643	55 10SW	0–1	SOIL	1.97E-05	1.8E-06 (J)	4.37E-07 (J)	7.68E-06 (J)	—	0.065 (J)	—	6.67E-07 (J)	3.69E-06 (J)	—	—	—
RE00-22-249986	00-61643	55 10SW	3–4	SOIL	8.24E-06 (J)	8.45E-07 (J)	—	3.29E-06 (J)	—	—	—	—	5.1E-07 (J)	—	—	—
RE00-22-249987	00-61643	55 10SW	7–8	SOIL	1.50E-05	—	—	—	—	—	2.11E-07 (J)	—	—	—	—	—
RE00-22-249988	00-61643	55 10SW	10–11	QBT3	1.73E-06 (J)	—	—	—	—	0.014 (J)	—	—	—	—	—	—
RE00-22-249989	00-61643	55 10SW	12–13	QBT3	—	—	—	—	0.00172 (J)	—	—	—	—	—	—	—
RE00-22-249990	00-61644	55 10SE	0–1	SOIL	1.68E-05	2.62E-06 (J)	5.17E-07 (J)	8.28E-06 (J)	0.0254	0.0453	—	5.88E-07 (J)	1.85E-06 (J)	—	118	—
RE00-22-249991	00-61644	55 10SE	3–4	SOIL	1.01E-05	1.39E-06 (J)	—	3.37E-06 (J)	0.007	0.0129	—	4.24E-07 (J)	—	—	—	—
RE00-22-249992	00-61644	55 10SE	7–8	SOIL	5.95E-06 (J)	6.7E-07 (J)	—	2.44E-06 (J)	—	0.0112 (J)	1.32E-07 (J)	—	4.31E-07 (J)	—	—	—
RE00-22-249993	00-61644	55 10SE	10–11	QBT3	1.52E-06 (J)	—	—	—	—	—	—	—	—	—	—	—
RE00-22-249994	00-61644	55 10SE	12–13	QBT3	1.3E-06 (J)	—	—	—	—	0.0109 (J)	—	—	—	—	—	—
RE00-22-249995	00-61645	55 15SE	0–1	SOIL	NA	NA	NA	NA	0.0216 (J)	0.0467	NA	NA	NA	—	—	—
RE00-22-249996	00-61645	55 15SE	3–4	SOIL	NA	NA	NA	NA	0.0439	0.0658	NA	NA	NA	—	—	—
RE00-22-249997	00-61645	55 15SE	7–8	SOIL	NA	NA	NA	NA	0.0183 (J)	0.0403	NA	NA	NA	—	—	—
RE00-22-250000	00-61646	55 15E	0–1	SOIL	NA	NA	NA	NA	0.0257 (J)	0.0477	NA	NA	NA	—	—	—
RE00-22-250001	00-61646	55 15E	3–4	SOIL	NA	NA	NA	NA	—	0.0219 (J+)	NA	NA	NA	—	—	—
RE00-22-250002	00-61646	55 15E	7–8	SOIL	NA	NA	NA	NA	—	0.0265 (J)	NA	NA	NA	—	—	—

Table 5.1-2 (continued)

Sample ID	Location ID	Borehole ID	Depth (ft)	Media	Octachlorodibenzofuran[1,2,3,4,6,7,8,9-]	Pentachlorodibenzofuran[1,2,3,7,8-]	Pentachlorodibenzofuran[2,3,4,7,8-]	Pentachlorodibenzofurans (Totals)	Phenanthrene	Pyrene	Tetrachlorodibenzodioxins (Total)	Tetrachlorodibenzofuran[2,3,7,8-]	Tetrachlorodibenzofurans (Totals)	Toluene	Total PAHs	Trimethylbenzene[1,2,4-]
Construction Worker SSL[a]					**na**	**na**	**na**	**na**	**8070**	**7530**	**na**	**0.0172**	**na**	**14,000**	**na**	**504[b]**
Industrial SSL[a]					**na**	**na**	**na**	**na**	**27,500**	**25,300**	**na**	**0.00243**	**na**	**61,300**	**na**	**1800[c]**
Recreational SSL[e]					**na**	**na**	**na**	**na**	**8630**	**8630**	**na**	**0.00297**	**na**	**47,600**	**na**	**5010**
Residential SSL[a]					**na**	**na**	**na**	**na**	**1850**	**1740**	**na**	**0.00049**	**na**	**5230**	**na**	**300[c]**
RE00-22-250005	00-61647	55 15NE	0–1	SOIL	NA	NA	NA	NA	—	0.0286 (J)	NA	NA	NA	—	—	—
RE00-22-250008	00-61647	55 15NE	10–11	QBT3	NA	NA	NA	NA	0.00982 (J)	0.0138 (J)	NA	NA	NA	—	—	—
RE00-22-250009	00-61647	55 15NE	12–13	QBT3	NA	NA	NA	NA	0.00235 (J)	—	NA	NA	NA	—	—	—
RE00-22-250010	00-61648	55 10NW	0–1	SOIL	NA	NA	NA	NA	0.0217 (J)	0.0253 (J)	NA	NA	NA	—	—	—
RE00-22-250012	00-61648	55 10NW	7–8	QBT3	NA	NA	NA	NA	—	—	NA	NA	NA	—	—	—
RE00-22-250015	00-61649	55 10N	0–1	SOIL	NA	NA	NA	NA	—	0.127 (J)	NA	NA	NA	—	—	—
RE00-22-250016	00-61649	55 10N	3–4	SOIL	NA	NA	NA	NA	0.00181 (J)	—	NA	NA	NA	—	—	—
RE00-22-250018	00-61649	55 10N	10–11	QBT3	NA	NA	NA	NA	0.00164 (J)	—	NA	NA	NA	—	—	—
RE00-22-250946	00-61663	53 10ENE	0–1	SOIL	NA	NA	NA	NA	0.0127 (J)	0.0181	NA	NA	NA	—	—	—
RE00-22-250948	00-61663	53 10ENE	7–8	QBT3	NA	NA	NA	NA	0.0147 (J)	0.0202	NA	NA	NA	—	—	—
RE00-22-253183	00-61710	53 10NNE	0–1	SOIL	NA	NA	NA	NA	0.00738 (J)	0.0123 (J)	NA	NA	NA	—	43.6	—
RE00-22-253215	00-61710	53 10NNE	4–5	SOIL	NA	NA	NA	NA	0.00219 (J)	—	NA	NA	NA	—	—	—
RE00-22-253216	00-61710	53 10NNE	7–8	SOIL	NA	NA	NA	NA	0.00386 (J)	0.00281 (J)	NA	NA	NA	—	—	—
RE00-22-253199	00-61715	53 10NE	0–1	SOIL	NA	NA	NA	NA	0.014 (J)	0.0263	NA	NA	NA	—	—	—
RE00-22-253200	00-61715	53 10NE	4–5	SOIL	NA	NA	NA	NA	0.0134 (J)	0.00471	NA	NA	NA	—	56.9 (J)	—
RE00-22-253201	00-61715	53 10NE	7–8	QBT3	NA	NA	NA	NA	0.00217 (J)	—	NA	NA	NA	—	—	—
RE00-22-253212	00-61718	53 10ENEV	9–10	QBT3	NA	NA	NA	NA	—	—	NA	NA	NA	—	—	—
RE00-22-253213	00-61718	53 10ENEV	11–12	QBT3	NA	NA	NA	NA	—	—	NA	NA	NA	—	—	—

Notes: Results are in mg/kg. Data qualifiers are presented in Appendix A.

[a] SSLs from NMED (2022, 702484) unless otherwise noted.

[b] Construction worker SSLs calculated using the equations outlined in NMED (2022, 702484), incorporating toxicity and chemical-specific parameters from EPA regional screening level tables (https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables).

[c] Pyrene used as a surrogate based on structural similarity.

[d] EPA regional screening levels (https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables).

[e] SSLs from N3B (2020, 701072).

[f] na = Not available.

[g] — = Not detected.

[h] NA = Not analyzed.

Table 5.1-3
Radionuclides Detected or Detected above BVs/FVs at MDPR Tract A-8-a

Sample ID	Location ID	Borehole ID	Depth (ft)	Media	Plutonium-239/240	Strontium-90	Thorium-228	Thorium-230	Thorium-232	Tritium	Uranium-234	Uranium-235/236	Uranium-238
Soil BV/FV[a]					**0.054**	**1.31**	**2.28**	**2.29**	**2.33**	**na[b]**	**2.59**	**0.2**	**2.29**
Qbt 2,3,4 BV/FV[a]					**na**	**na**	**2.52**	**1.98**	**2.52**	**na**	**1.98**	**0.09**	**1.93**
Construction Worker SAL[c]					**200**	**1400**	**15**	**5**	**5**	**1,600,000**	**1000**	**130**	**470**
Industrial SAL[c]					**1200**	**2400**	**17**	**5**	**5**	**2,400,000**	**3100**	**160**	**710**
Recreational SAL[c]					**1300**	**4900**	**130**	**5**	**5**	**5,700,000**	**3900**	**1000**	**2800**
Residential SAL[c]					**79**	**15**	**4.6**	**5**	**5**	**1700**	**290**	**42**	**150**
RE00-22-238044	00-172	41	12–13	QBT3	—[d]	—	—	—	—	—	—	0.0931	—
RE00-22-238086	00-189	30	0–1	FILL	0.136	—	—	—	—	—	—	—	—
RE00-22-238210	00-241	38	17–18	QBT3	—	—	—	—	—	—	2.76	0.143	2.76
RE00-22-238211	00-241	38	20–21	QBT3	—	—	—	—	—	—	—	0.129	—
RE00-22-238212	00-242	37	13–14	QBT3	0.139	—	—	—	—	—	—	—	—
RE00-22-238213	00-242	37	16–17	QBT3	—	—	—	—	—	—	—	—	2.03
RE00-22-238214	00-243	45	14–15	QBT3	—	—	—	—	—	—	5.13	0.221	5.38
RE00-22-238215	00-243	45	17–18	QBT3	—	—	—	—	—	—	2.75	0.188	2.79
RE00-22-238218	00-245	49	11–12	QBT3	—	0.395	—	—	—	—	—	0.0933	2
RE00-22-238219	00-245	49	14–15	QBT3	—	—	—	—	—	—	—	0.13	1.94
RE00-22-238220	00-246	48	11–12	QBT3	1.97	—	—	—	—	—	4.89	0.269	5.02
RE00-22-238221	00-246	48	14–15	QBT3	0.154	0.342	—	—	—	—	4.43	0.213	4.53
RE00-22-238222	00-247	47	15–16	QBT3	—	—	—	—	—	—	3.52	0.21 (J)	3.62
RE00-22-238223	00-247	47	18–19	QBT3	—	—	—	—	—	—	3.06	0.18 (J)	2.94
RE00-22-238230	00-251	44	15–16	QBT3	—	—	—	—	—	—	2.45	0.148	2.45
RE00-22-238231	00-251	44	18–19	QBT3	—	—	—	—	—	—	2.23	0.131	2.19
RE00-22-238233	00-252	43	14–15	QBT3	0.562	—	—	—	—	—	—	—	—
RE00-22-238232	00-252	43	17–18	QBT3	—	0.26	—	—	—	—	—	0.094	—
RE00-22-238234	00-253	42	14–15	QBT3	0.313	—	—	—	—	—	3.74	0.241	3.8
RE00-22-238235	00-253	42	17–18	QBT3	0.124	—	—	—	—	—	2.6	0.146	2.61
RE00-22-238293	00-61524	32	7.2–8.2	FILL	—	—	—	—	—	—	—	—	2.59
RE00-22-238288	00-61524	32	15–16	QBT3	—	—	3.34 (J)	—	2.7 (J)	—	2.21	—	2.26
RE00-22-238289	00-61525	31	13.8–14.8	QBT3	—	—	—	—	—	7.74 (J)	—	—	—
RE00-22-238309	00-61529	51	3.0–4.0	FILL	0.118	—	—	—	—	—	—	—	—

Table 5.1-3 (continued)

Sample ID	Location ID	Borehole ID	Depth (ft)	Media	Plutonium-239/240	Strontium-90	Thorium-228	Thorium-230	Thorium-232	Tritium	Uranium-234	Uranium-235/236	Uranium-238
Soil BV/FV[a]					**0.054**	**1.31**	**2.28**	**2.29**	**2.33**	**na**	**2.59**	**0.2**	**2.29**
Qbt 2,3,4 BV/FV[a]					**na**	**na**	**2.52**	**1.98**	**2.52**	**na**	**1.98**	**0.09**	**1.93**
Construction Worker SAL[c]					**200**	**1400**	**15**	**5**	**5**	**1,600,000**	**1000**	**130**	**470**
Industrial SAL[c]					**1200**	**2400**	**17**	**5**	**5**	**2,400,000**	**3100**	**160**	**710**
Recreational SAL[c]					**1300**	**4900**	**130**	**5**	**5**	**5,700,000**	**3900**	**1000**	**2800**
Residential SAL[c]					**79**	**15**	**4.6**	**5**	**5**	**1700**	**290**	**42**	**150**
RE00-22-238310	00-61529	51	6–7	SOIL	—	—	—	—	—	—	4.02	0.272	4.28
RE00-22-238313	00-61530	39	0–1	FILL	—	—	—	—	—	5.69	—	—	—
RE00-22-238314	00-61530	39	4–5	SOIL	0.0359 (J)	—	—	—	—	—	3.9	0.24	4.12
RE00-22-238316	00-61530	39	9–10	SOIL	0.179	—	2.45	—	—	—	12	0.59	12.2
RE00-22-238317	00-61530	39	17–18	QBT3	—	—	—	—	—	—	2.37	0.109	2.44
RE00-22-248883	00-61567	55 5N	0–1	SOIL	0.112	—	—	—	—	—	—	—	—
RE00-22-248971	00-61595	53 5W	0–1	SOIL	0.113	—	—	—	—	—	—	—	—
RE00-22-249066	00-61595	53 5W	9–10	QBT3	—	0.314	—	—	—	—	—	—	—
RE00-22-248978	00-61597	55 5E	12–13	QBT3	0.0352 (J)	—	—	—	—	—	3.16	0.195	3.29
RE00-22-248980	00-61598	55 5S	10–11	QBT3	—	—	—	—	—	—	4.38	0.203	4.3
RE00-22-248981	00-61598	55 5S	12–13	QBT3	—	—	—	—	—	—	4.62	0.272	4.39
RE00-22-248999	00-61604	53 10NW	4–5	SOIL	—	0.625	—	—	—	—	—	—	—
RE00-22-249935	00-61633	55 5NE	0–1	SOIL	0.0847	—	—	—	—	—	—	—	—
RE00-22-249944	00-61634	55 5SW	10–11	QBT3	—	0.643	—	—	—	—	—	—	—
RE00-22-249948	00-61635	55 5SE	7–8	SOIL	0.156	—	—	—	—	—	—	—	—
RE00-22-249949	00-61635	55 5SE	10–11	QBT3	0.361	—	—	1.99	—	—	36.3	2.15	37.4
RE00-22-249945	00-61635	55 5SE	12–13	QBT3	0.0446	—	—	—	—	—	11.2	0.616	11.9
RE00-22-249956	00-61637	55 10S	3–4	SOIL	0.0301	—	—	—	—	—	—	—	—
RE00-22-249959	00-61637	55 10S	12–13	QBT3	0.0331 (J)	—	—	—	—	—	2.05	0.155 (J+)	2.17
RE00-22-249963	00-61638	55 10E	10–11	QBT3	—	—	—	—	—	—	4.85	0.284	4.56
RE00-22-249964	00-61638	55 10E	12–13	QBT3	—	—	—	—	—	—	6.06	0.388	6.61
RE00-22-249972	00-61640	55 15S	7–8	SOIL	0.0581	—	—	—	—	—	—	—	—
RE00-22-249974	00-61640	55 15S	12–13	QBT3	0.0436	—	—	—	—	—	—	0.0955	—
RE00-22-249976	00-61641	55 15SSE	3–4	SOIL	0.0473	—	—	—	—	—	—	—	—
RE00-22-249977	00-61641	55 15SSE	7–8	SOIL	0.0258	—	—	—	—	—	—	—	—
RE00-22-249978	00-61641	55 15SSE	10–11	QBT3	1.37	—	—	—	—	—	5.07	0.326	5.29

Table 5.1-3 (continued)

Sample ID	Location ID	Borehole ID	Depth (ft)	Media	Plutonium-239/240	Strontium-90	Thorium-228	Thorium-230	Thorium-232	Tritium	Uranium-234	Uranium-235/236	Uranium-238
Soil BV/FV[a]					**0.054**	**1.31**	**2.28**	**2.29**	**2.33**	**na**	**2.59**	**0.2**	**2.29**
Qbt 2,3,4 BV/FV[a]					**na**	**na**	**2.52**	**1.98**	**2.52**	**na**	**1.98**	**0.09**	**1.93**
Construction Worker SAL[c]					**200**	**1400**	**15**	**5**	**5**	**1,600,000**	**1000**	**130**	**470**
Industrial SAL[c]					**1200**	**2400**	**17**	**5**	**5**	**2,400,000**	**3100**	**160**	**710**
Recreational SAL[c]					**1300**	**4900**	**130**	**5**	**5**	**5,700,000**	**3900**	**1000**	**2800**
Residential SAL[c]					**79**	**15**	**4.6**	**5**	**5**	**1700**	**290**	**42**	**150**
RE00-22-249979	00-61641	55 15SSE	12–13	QBT3	0.799	—	—	—	—	—	2.62	0.13	2.64
RE00-22-249982	00-61642	55 10NE	7–8	SOIL	0.0486 (J)	—	—	—	—	—	—	—	—
RE00-22-249983	00-61642	55 10NE	10–11	QBT3	—	—	—	—	—	—	3.39	0.292	3.61
RE00-22-249984	00-61642	55 10NE	12–13	QBT3	—	—	—	—	—	—	4.02	0.205	3.41
RE00-22-249987	00-61643	55 10SW	7–8	SOIL	1.11 (J)	—	—	—	—	—	10.5	0.75	11.1
RE00-22-249989	00-61643	55 10SW	12–13	QBT3	—	—	—	—	—	—	—	0.122 (J+)	—
RE00-22-249990	00-61644	55 10SE	0–1	SOIL	0.115	—	—	—	—	—	—	—	—
RE00-22-249993	00-61644	55 10SE	10–11	QBT3	—	—	—	2.77 (J)	—	—	3.93	—	4.02
RE00-22-249994	00-61644	55 10SE	12–13	QBT3	0.271	—	—	—	—	—	4.22	0.235	4.16
RE00-22-249998	00-61645	55 15SE	10–11	QBT3	0.652	—	—	—	—	—	4.79	0.27	4.84
RE00-22-249999	00-61645	55 15SE	12–13	QBT3	0.102	—	—	—	—	—	5.01	0.279	5.16
RE00-22-250001	00-61646	55 15E	3–4	SOIL	0.0307	—	—	—	—	—	—	—	—
RE00-22-250002	00-61646	55 15E	7–8	SOIL	0.0444	—	—	—	—	—	—	—	—
RE00-22-250003	00-61646	55 15E	10–11	QBT3	—	—	—	—	—	—	7.61	0.353	7.44
RE00-22-250004	00-61646	55 15E	12–13	QBT3	—	—	—	—	—	—	9.71	0.538	9.65
RE00-22-250008	00-61647	55 15NE	10–11	QBT3	—	—	—	—	—	—	28	1.84	28.2
RE00-22-250009	00-61647	55 15NE	12–13	QBT3	—	—	—	—	—	—	38.4 (J)	1.89 (J)	39.2 (J)
RE00-22-252230	00-61647	55 15NE	13–14	QBT3	—	—	—	—	—	—	11.3	0.724	11.3
RE00-22-252231	00-61647	55 15NE	14–15	QBT3	—	—	—	—	—	—	10.8	0.534	10.8
RE00-22-250010	00-61648	55 10NW	0–1	SOIL	0.151	—	—	—	—	—	—	—	—
RE00-22-250015	00-61649	55 10N	0–1	SOIL	0.0778 (J)	—	—	—	—	—	—	—	—
RE00-22-250947	00-61663	53 10ENE	4–5	SOIL	—	—	2.29	—	—	—	—	—	—

Notes: Results are in pCi/g. Data qualifiers are presented in Appendix A.

[a] BVs/FVs from LANL (1998, 059730).

[b] na = Not available.

[c] SALs from LANL (2015, 600929).

[d] — = Not detected or not detected above BVs/FVs.

Table 5.2-1
Inorganic Chemicals Detected above BVs at MDPR Tract A-16-a

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper
Soil BV[b]						**29,200**	**0.83**	**8.17**	**295**	**1.83**	**0.4**	**6120**	**19.3**	**8.64**	**14.7**
Qbt2, 3, 4 BV[b]						**7340**	**0.5**	**2.79**	**46**	**1.21**	**1.63**	**2200**	**7.14**	**3.14**	**4.66**
Construction Worker SSL[c]						**41,400**	**142**	**41.2**	**4390**	**148**	**72.1**	**na[d]**	**134[e]**	**36.7**	**14,200**
Industrial SSL[c]						**1,290,000**	**519**	**35.9**	**255,000**	**2580**	**1110**	**na**	**505[e]**	**388**	**51,900**
Recreational SSL[f]						**619,000**	**248**	**42.9**	**124,000**	**1240**	**457**	**na**	**281[e]**	**186**	**24,800**
Residential SSL[c]						**78,000**	**31.3**	**7.07**	**15,600**	**156**	**70.5**	**na**	**96.6[e]**	**23.4**	**3130**
RE00-22-238042	00-171	4	North	7.5–8.5	QBT3	—[g]	—	—	—	—	—	—	—	—	—
RE00-22-238043	00-171	4	North	10.5–11.5	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-238046	00-173	9	North	6.5–7.5	QBT3	—	0.68 (U)	—	52.4	—	—	—	—	—	—
RE00-22-238047	00-173	9	North	9.5–10.5	QBT3	—	0.782 (U)	—	—	—	—	—	—	—	—
RE00-22-238051	00-175	23	North	6.9–7.9	QBT3	—	—	—	—	—	—	4170	—	—	—
RE00-22-238052	00-175	23	North	9.9–10.9	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-238056	00-177	11	North	9–10	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-238057	00-177	11	North	12–13	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-238061	00-179	8	North	8.5–9.5	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-238062	00-179	8	North	11.5–12.5	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-238066	00-181	13	North	8–9	QBT3	9810	—	—	—	—	—	4170	—	—	—
RE00-22-238067	00-181	13	North	11–12	QBT3	—	0.563 (U)	—	—	—	—	—	—	—	—
RE00-22-238071	00-183	10	North	11–12	QBT3	—	1.04 (U)	—	—	—	—	—	—	—	—
RE00-22-238072	00-183	10	North	14–15	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-238075	00-184	1	North	6–7	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-238076	00-185	24	North	6.5–7.5	QBT3	—	0.722 (U)	—	48	—	—	3530	—	—	—
RE00-22-238077	00-185	24	North	9.5–10.5	QBT3	—	0.531 (U)	—	—	—	—	—	—	—	—
RE00-22-238078	00-186	97	South	0–1	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-22-238079	00-186	97	South	3–4	SOIL	—	—	—	—	—	—	—	—	—	53.5
RE00-22-238080	00-186	97	South	6.5–7.5	QBT3	9850	0.676 (U)	—	85.4	—	—	—	—	—	—
RE00-22-238081	00-187	21	North	8–9	QBT3	—	0.907 (U)	—	—	—	—	—	—	—	—
RE00-22-238082	00-187	21	North	11–12	QBT3	—	1.06 (U)	—	—	—	—	—	—	—	—
RE00-22-238090	00-190	90	South	6–7	QBT3	—	—	—	—	—	—	—	—	—	6.41
RE00-22-238093	00-190	90	South	13–14	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-238094	00-192	91	South	0–1	FILL	—	—	—	—	—	—	—	—	—	—

Table 5.2-1 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper
Soil BV[b]						**29,200**	**0.83**	**8.17**	**295**	**1.83**	**0.4**	**6120**	**19.3**	**8.64**	**14.7**
Qbt2, 3, 4 BV[b]						**7340**	**0.5**	**2.79**	**46**	**1.21**	**1.63**	**2200**	**7.14**	**3.14**	**4.66**
Construction Worker SSL[c]						**41,400**	**142**	**41.2**	**4390**	**148**	**72.1**	**na[d]**	**134[e]**	**36.7**	**14,200**
Industrial SSL[c]						**1,290,000**	**519**	**35.9**	**255,000**	**2580**	**1110**	**na**	**505[e]**	**388**	**51,900**
Recreational SSL[f]						**619,000**	**248**	**42.9**	**124,000**	**1240**	**457**	**na**	**281[e]**	**186**	**24,800**
Residential SSL[c]						**78,000**	**31.3**	**7.07**	**15,600**	**156**	**70.5**	**na**	**96.6[e]**	**23.4**	**3130**
RE00-22-238095	00-192	91	South	7.5–8.5	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-238096	00-193	98	North	9.5–10.5	QBT3	—	1.27 (U)	—	—	—	—	—	—	—	—
RE00-22-238097	00-193	98	North	12.5–13.5	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-238100	00-195	25	North	8.5–9.5	QBT3	—	1.14 (U)	—	—	—	—	—	—	—	—
RE00-22-238101	00-195	25	North	11.5–12.5	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-238103	00-196	3	North	3.3–4.5	FILL	—	—	—	—	—	—	—	—	—	474
RE00-22-238104	00-196	3	North	7.5–8.5	QBT3	—	—	—	57.6	—	—	5130	—	—	494
RE00-22-238105	00-197	27	North	8.5–9.5	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-238106	00-197	27	North	11.5–12.5	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-238107	00-198	99	South	0–1	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-22-238108	00-198	99	South	3–4	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-22-238109	00-198	99	South	6–7.1	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-238110	00-199	28	North	12.5–13.5	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-238111	00-199	28	North	15.5–16.5	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-238112	00-200	66	South	0–1	FILL	—	—	—	—	—	—	—	—	—	—
RE00-22-238113	00-200	66	South	4–5	FILL	—	—	—	—	—	—	—	—	—	—
RE00-22-238114	00-200	66	South	6.1–7.1	QBT3	7710 (J)	—	3.05	87.9 (J)	—	—	—	—	4.72	5.17 (J)
RE00-22-238115	00-201	89	South	7.5–8.5	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-238116	00-201	89	South	10.5–11.5	QBT3	—	0.578 (U)	—	—	—	—	—	—	—	—
RE00-22-238117	00-202	92	South	0–1	FILL	—	—	—	—	—	—	—	—	—	—
RE00-22-238118	00-202	92	South	3–4	FILL	—	—	—	—	—	0.488	—	—	—	—
RE00-22-238119	00-202	92	South	7.7–8.7	QBT3	—	—	—	—	—	—	—	—	—	6.85 (J-)
RE00-22-238120	00-203	86	South	10–11	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-238121	00-203	86	South	13–14	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-238122	00-204	57A	South	0–1	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-22-238123	00-204	57A	South	3–4	SOIL	—	—	—	—	—	—	—	—	—	16.7 (J+)
RE00-22-238124	00-204	57A	South	7.9–8.9	QBT3	7680 (J)	—	—	49.8	—	—	—	—	—	4.68 (J+)

Table 5.2-1 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper
Soil BV[b]						**29,200**	**0.83**	**8.17**	**295**	**1.83**	**0.4**	**6120**	**19.3**	**8.64**	**14.7**
Qbt2, 3, 4 BV[b]						**7340**	**0.5**	**2.79**	**46**	**1.21**	**1.63**	**2200**	**7.14**	**3.14**	**4.66**
Construction Worker SSL[c]						**41,400**	**142**	**41.2**	**4390**	**148**	**72.1**	**na[d]**	**134[e]**	**36.7**	**14,200**
Industrial SSL[c]						**1,290,000**	**519**	**35.9**	**255,000**	**2580**	**1110**	**na**	**505[e]**	**388**	**51,900**
Recreational SSL[f]						**619,000**	**248**	**42.9**	**124,000**	**1240**	**457**	**na**	**281[e]**	**186**	**24,800**
Residential SSL[c]						**78,000**	**31.3**	**7.07**	**15,600**	**156**	**70.5**	**na**	**96.6[e]**	**23.4**	**3130**
RE00-22-238125	00-205	72	South	13–14	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-238126	00-205	72	South	16–17	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-238129	00-206	18	North	7.8–8.8	QBT3	9060	—	—	—	—	—	2290	—	—	119 (J)
RE00-22-238130	00-207	71	South	10–11	QBT3	11800 (J)	—	—	50.2	1.6	—	3730	—	—	5.28 (J+)
RE00-22-238131	00-207	71	South	13–14	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-238132	00-208	70	South	0–1	FILL	—	1.87 (U)	—	—	—	—	—	—	—	—
RE00-22-238133	00-208	70	South	4–5	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-22-238134	00-208	70	South	9–10	QBT3	—	—	—	131	—	—	5430	—	—	—
RE00-22-238135	00-209	76	South	13–14	QBT3	13200 (J)	—	—	—	—	—	—	8.75	—	5.07 (J+)
RE00-22-238136	00-209	76	South	16–17	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-238139	00-210	29	North	0–1.4	FILL	—	1.74 (U)	—	—	—	—	—	—	—	—
RE00-22-238138	00-210	29	North	4–5	SOIL	—	0.958 (U)	—	—	—	—	—	—	—	—
RE00-22-238137	00-210	29	North	7–8	QBT3	8420	1.25 (U)	—	166 (J)	—	—	10000 (J)	—	—	—
RE00-22-238140	00-211	82	South	14.5–15.5	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-238141	00-211	82	South	17.5–18.5	QBT3	—	—	—	51.1	—	—	—	—	—	—
RE00-22-238142	00-212	20	North	0–1	FILL	—	—	—	—	—	—	—	—	—	18.8
RE00-22-238143	00-212	20	North	4–5	SOIL	—	—	—	—	—	—	—	—	—	20.1
RE00-22-238144	00-212	20	North	6.2–7.2	QBT3	—	—	—	—	—	—	—	8.98	3.36	432 (J)
RE00-22-238145	00-213	79	South	12–13	QBT3	—	0.623 (U)	—	—	—	—	—	—	—	—
RE00-22-238146	00-213	79	South	15–16	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-238147	00-214	26	North	0–1	FILL	—	—	—	—	—	—	—	—	—	—
RE00-22-238148	00-214	26	North	4–5	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-22-238149	00-214	26	North	6.8–7.8	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-238150	00-215	12	North	7.5–8.5	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-238151	00-215	12	North	10.5–11.5	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-238152	00-216	83	South	12–13	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-238153	00-216	83	South	15–16	QBT3	—	—	—	—	—	—	—	—	—	—

Table 5.2-1 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper
Soil BV[b]						**29,200**	**0.83**	**8.17**	**295**	**1.83**	**0.4**	**6120**	**19.3**	**8.64**	**14.7**
Qbt2, 3, 4 BV[b]						**7340**	**0.5**	**2.79**	**46**	**1.21**	**1.63**	**2200**	**7.14**	**3.14**	**4.66**
Construction Worker SSL[c]						**41,400**	**142**	**41.2**	**4390**	**148**	**72.1**	**na[d]**	**134[e]**	**36.7**	**14,200**
Industrial SSL[c]						**1,290,000**	**519**	**35.9**	**255,000**	**2580**	**1110**	**na**	**505[e]**	**388**	**51,900**
Recreational SSL[f]						**619,000**	**248**	**42.9**	**124,000**	**1240**	**457**	**na**	**281[e]**	**186**	**24,800**
Residential SSL[c]						**78,000**	**31.3**	**7.07**	**15,600**	**156**	**70.5**	**na**	**96.6[e]**	**23.4**	**3130**
RE00-22-238154	00-217	80	South	12–13	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-238155	00-217	80	South	15–16	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-238156	00-218	22	North	0–1	FILL	—	—	—	—	—	—	—	—	—	—
RE00-22-238157	00-218	22	North	4–5	FILL	—	2.27	—	—	—	—	—	—	—	62.1 (J)
RE00-22-238158	00-218	22	North	11.9–12.9	QBT3	8740	—	—	60.9	—	—	2300 (J)	—	—	17.1 (J)
RE00-22-238159	00-219	87	South	8.5–9.5	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-238160	00-219	87	South	11.5–12.5	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-238161	00-220	85	South	0–1	FILL	—	—	—	—	—	—	—	—	—	—
RE00-22-238162	00-220	85	South	3–4	FILL	—	—	—	—	—	—	—	—	—	—
RE00-22-238163	00-220	85	South	4.9–5.9	QBT3	—	—	—	66.1	—	—	—	—	—	—
RE00-22-238164	00-221	84	South	11–12	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-238165	00-221	84	South	14–15	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-238166	00-222	7	North	0–1	FILL	—	—	—	—	—	—	—	—	—	280
RE00-22-238167	00-222	7	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-22-238168	00-222	7	North	5–6	QBT3	—	—	—	53.3	—	—	—	—	—	5.11
RE00-22-238169	00-223	81	South	6.5–7.5	QBT3	8370	—	—	119	—	—	2500 (J+)	—	—	—
RE00-22-238170	00-223	81	South	9.5–10.5	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-238174	00-225	77	South	8.5–9.5	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-238175	00-225	77	South	11.5–12.5	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-238176	00-226	95	South	0–1	FILL	—	—	—	—	—	—	10200 (J)	—	—	—
RE00-22-238177	00-226	95	South	3–4	SOIL	—	—	—	—	—	—	—	—	9.99	—
RE00-22-238178	00-226	95	South	6–7	QBT3	14100	—	3.07	132	—	—	3600	9.33	—	5.03
RE00-22-238179	00-227	78	South	7.5–8.5	QBT3	7930	—	—	57.5 (J)	—	—	2750 (J+)	—	—	—
RE00-22-238180	00-227	78	South	10.5–11.5	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-238181	00-228	59	South	0–1	FILL	—	—	—	—	—	—	—	—	—	—
RE00-22-238281	00-228	59	South	4–5	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-22-238286	00-228	59	South	9–10	QBT3	—	—	—	—	—	—	2750	—	—	—

Table 5.2-1 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper
Soil BV[b]						**29,200**	**0.83**	**8.17**	**295**	**1.83**	**0.4**	**6120**	**19.3**	**8.64**	**14.7**
Qbt2, 3, 4 BV[b]						**7340**	**0.5**	**2.79**	**46**	**1.21**	**1.63**	**2200**	**7.14**	**3.14**	**4.66**
Construction Worker SSL[c]						**41,400**	**142**	**41.2**	**4390**	**148**	**72.1**	**na[d]**	**134[e]**	**36.7**	**14,200**
Industrial SSL[c]						**1,290,000**	**519**	**35.9**	**255,000**	**2580**	**1110**	**na**	**505[e]**	**388**	**51,900**
Recreational SSL[f]						**619,000**	**248**	**42.9**	**124,000**	**1240**	**457**	**na**	**281[e]**	**186**	**24,800**
Residential SSL[c]						**78,000**	**31.3**	**7.07**	**15,600**	**156**	**70.5**	**na**	**96.6[e]**	**23.4**	**3130**
RE00-22-238184	00-229	73	South	7.5–8.5	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-238185	00-229	73	South	10.5–11.5	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-238189	00-231	69	South	7.5–8.5	QBT3	10100	—	—	233	—	—	3700 (J+)	—	—	—
RE00-22-238190	00-231	69	South	10.5–11.5	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-238192	00-232	96	South	0–1	FILL	—	—	—	—	—	—	—	—	—	—
RE00-22-238191	00-232	96	South	4–5	FILL	—	—	—	—	—	—	—	—	—	—
RE00-22-238193	00-232	96	South	6–7	QBT3	—	—	—	49	—	—	3010	—	—	—
RE00-22-238194	00-233	64	South	7.5–8.5	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-238195	00-233	64	South	10.5–11.5	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-238196	00-234	61	South	12.5–13.5	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-238197	00-234	61	South	15.5–16.5	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-238198	00-235	57	South	9–10	QBT3	10300 (J+)	—	—	110	—	—	2910 (J)	—	—	—
RE00-22-238199	00-235	57	South	12–13	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-238200	00-236	60	South	13–14	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-238201	00-236	60	South	16–17	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-238202	00-237	62	South	8.5–9.5	QBT3	10500 (J+)	0.523 (U)	3.03	98.4	1.32	—	3530 (J)	—	—	5.07
RE00-22-238203	00-237	62	South	11.5–12.5	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-238204	00-238	63	South	4–5	QBT3	—	0.521 (U)	—	—	—	—	—	—	—	—
RE00-22-238205	00-238	63	South	7–8	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-238206	00-239	67	South	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-238207	00-239	67	South	9.5–10.5	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-238208	00-240	68	South	5–6	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-238209	00-240	68	South	8–9	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-238226	00-249	5	North	8–9	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-238227	00-249	5	North	11–12	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-238237	00-254	15	North	7–8	QBT3	—	—	—	46.9	—	—	—	—	—	—
RE00-22-238238	00-255	93	South	0–1	FILL	—	—	—	—	—	—	—	—	—	—

Table 5.2-1 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper
Soil BV[b]						**29,200**	**0.83**	**8.17**	**295**	**1.83**	**0.4**	**6120**	**19.3**	**8.64**	**14.7**
Qbt2, 3, 4 BV[b]						**7340**	**0.5**	**2.79**	**46**	**1.21**	**1.63**	**2200**	**7.14**	**3.14**	**4.66**
Construction Worker SSL[c]						**41,400**	**142**	**41.2**	**4390**	**148**	**72.1**	**na[d]**	**134[e]**	**36.7**	**14,200**
Industrial SSL[c]						**1,290,000**	**519**	**35.9**	**255,000**	**2580**	**1110**	**na**	**505[e]**	**388**	**51,900**
Recreational SSL[f]						**619,000**	**248**	**42.9**	**124,000**	**1240**	**457**	**na**	**281[e]**	**186**	**24,800**
Residential SSL[c]						**78,000**	**31.3**	**7.07**	**15,600**	**156**	**70.5**	**na**	**96.6[e]**	**23.4**	**3130**
RE00-22-238239	00-255	93	South	4–5	FILL	—	—	—	—	—	—	—	—	—	—
RE00-22-238240	00-255	93	South	7.5–8.5	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-238242	00-256	14	North	7.3–8.3	QBT3	—	—	—	57.8 (J)	—	—	—	—	—	78.2 (J)
RE00-22-239164	00-257	6	North	6.1–7.1	QBT3	—	—	—	55.2 (J)	—	—	2950 (J)	7.65	—	138
RE00-22-238248	00-259	75	South	0–1	FILL	—	1.53 (U)	—	—	—	—	7070 (J)	—	—	—
RE00-22-238249	00-259	75	South	3–4	FILL	—	1.69 (U)	—	—	—	—	—	—	—	—
RE00-22-238250	00-259	75	South	6.9–7.9	QBT3	10700	1.7 (U)	2.95	101 (J-)	—	—	5170 (J)	—	—	—
RE00-22-238251	00-260	88	South	0–1	FILL	—	—	—	—	—	—	—	—	—	—
RE00-22-238252	00-260	88	South	5–6	QBT3	9840	—	3.49	—	—	—	—	—	—	—
RE00-22-238253	00-261	56A-A	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-22-238254	00-261	56A-A	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	41.3
RE00-22-238255	00-261	56A-A	North	11.6–12.6	QBT3	—	—	—	50.6	—	—	—	—	—	8.17
RE00-22-238273	00-61519	16	North	0–1	FILL	—	—	—	—	—	—	—	—	—	246
RE00-22-238278	00-61519	16	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	73.8
RE00-22-238283	00-61519	16	North	12–13	QBT3	8090	—	—	63.6	—	—	2760	8.88	—	117
RE00-22-238274	00-61520	94	South	0–1	FILL	—	—	—	—	—	—	—	—	—	—
RE00-22-238279	00-61520	94	South	4–5	FILL	—	—	—	—	—	—	—	—	—	—
RE00-22-238284	00-61520	94	South	9.1–9.9	QBT3	8580	—	—	120	—	—	6900	—	—	—
RE00-22-238287	00-61523	74	South	0–1	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-22-238282	00-61523	74	South	4–5	SOIL	—	1.89 (J)	—	—	—	0.616	—	—	—	62.1
RE00-22-238277	00-61523	74	South	8–9	QBT3	—	1.68 (U)	—	53.1 (J)	—	—	—	—	—	—
RE00-22-238290	00-61526	56	South	0–1	FILL	—	—	—	—	—	—	—	—	—	—
RE00-22-238295	00-61526	56	South	3.5–4	FILL	—	—	—	—	—	—	—	—	—	—
RE00-22-238300	00-61526	56	South	6–7	FILL	—	—	—	—	—	—	—	—	—	—
RE00-22-238305	00-61526	56	South	9.6–10.1	QBT3	8430	—	—	—	—	—	3470	—	—	—
RE00-22-238292	00-61528	65	South	0–1	FILL	—	—	—	—	—	—	—	—	—	—
RE00-22-238297	00-61528	65	South	3–4	FILL	—	—	—	—	—	—	—	—	—	—

Table 5.2-1 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper
Soil BV[b]						**29,200**	**0.83**	**8.17**	**295**	**1.83**	**0.4**	**6120**	**19.3**	**8.64**	**14.7**
Qbt2, 3, 4 BV[b]						**7340**	**0.5**	**2.79**	**46**	**1.21**	**1.63**	**2200**	**7.14**	**3.14**	**4.66**
Construction Worker SSL[c]						**41,400**	**142**	**41.2**	**4390**	**148**	**72.1**	**na[d]**	**134[e]**	**36.7**	**14,200**
Industrial SSL[c]						**1,290,000**	**519**	**35.9**	**255,000**	**2580**	**1110**	**na**	**505[e]**	**388**	**51,900**
Recreational SSL[f]						**619,000**	**248**	**42.9**	**124,000**	**1240**	**457**	**na**	**281[e]**	**186**	**24,800**
Residential SSL[c]						**78,000**	**31.3**	**7.07**	**15,600**	**156**	**70.5**	**na**	**96.6[e]**	**23.4**	**3130**
RE00-22-238302	00-61528	65	South	6–7	FILL	—	—	—	—	—	—	—	—	—	—
RE00-22-238307	00-61528	65	South	9–10	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-239217	00-61546	19	North	0–1	FILL	—	—	—	—	—	—	—	—	—	31.6 (J)
RE00-22-239227	00-61546	19	North	4–5	SOIL	—	0.85 (J)	—	—	—	—	—	—	—	—
RE00-22-239237	00-61546	19	North	5.75–6.8	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-239218	00-61547	55A-A	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-22-239228	00-61547	55A-A	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	31.4
RE00-22-239238	00-61547	55A-A	North	11.9–12.9	QBT3	—	—	—	—	—	—	—	—	—	11.1
RE00-22-239221	00-61550	58A	South	0–1	SOIL	—	—	—	—	—	—	—	—	—	15.9
RE00-22-239231	00-61550	58A	South	3–4	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-22-239241	00-61550	58A	South	8–9	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-239224	00-61553	54A	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-22-239234	00-61553	54A	North	4–5	SOIL	—	—	—	—	—	—	—	—	—	34 (J)
RE00-22-239244	00-61553	54A	North	6.9–7.9	QBT3	7810 (J)	—	—	66.5 (J)	—	—	6050	13.1	4.02	22.6 (J)
RE00-22-248888	00-61568	29 5NE	South	0–1	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-22-248889	00-61568	29 5NE	South	4–5	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-22-248890	00-61568	29 5NE	South	7–8	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-248891	00-61569	29 5S	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	18.7
RE00-22-248892	00-61569	29 5S	North	4–5	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-22-248893	00-61569	29 5S	North	7–8	QBT3	13500	—	2.98	72 (J)	—	—	3920 (J)	7.99	—	5.28
RE00-22-249057	00-61569	29 5S	North	9–10	QBT3	10100	—	2.87	—	—	—	—	8.28	—	4.78 (J)
RE00-22-249058	00-61569	29 5S	North	11–12	QBT3	8150	—	—	—	—	—	—	—	—	—
RE00-22-248894	00-61570	29 5SE	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	20.8
RE00-22-248895	00-61570	29 5SE	North	4–5	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-22-248896	00-61570	29 5SE	North	7–8	QBT3	—	0.625 (U)	—	—	—	—	—	—	—	—
RE00-22-248897	00-61571	22 5E	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-22-248898	00-61571	22 5E	North	4–5	SOIL	—	—	—	—	—	—	—	—	—	76.9

Table 5.2-1 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper
Soil BV[b]						**29,200**	**0.83**	**8.17**	**295**	**1.83**	**0.4**	**6120**	**19.3**	**8.64**	**14.7**
Qbt2, 3, 4 BV[b]						**7340**	**0.5**	**2.79**	**46**	**1.21**	**1.63**	**2200**	**7.14**	**3.14**	**4.66**
Construction Worker SSL[c]						**41,400**	**142**	**41.2**	**4390**	**148**	**72.1**	**na[d]**	**134[e]**	**36.7**	**14,200**
Industrial SSL[c]						**1,290,000**	**519**	**35.9**	**255,000**	**2580**	**1110**	**na**	**505[e]**	**388**	**51,900**
Recreational SSL[f]						**619,000**	**248**	**42.9**	**124,000**	**1240**	**457**	**na**	**281[e]**	**186**	**24,800**
Residential SSL[c]						**78,000**	**31.3**	**7.07**	**15,600**	**156**	**70.5**	**na**	**96.6[e]**	**23.4**	**3130**
RE00-22-248899	00-61571	22 5E	North	11.9–12.9	QBT3	—	0.805 (U)	—	—	—	—	—	—	—	11.8
RE00-22-248900	00-61572	92 5E	South	0–1	SOIL	—	—	—	—	—	—	—	—	—	16.3 (J-)
RE00-22-248901	00-61572	92 5E	South	3–4	SOIL	—	—	—	—	—	—	—	—	—	16 (J-)
RE00-22-248902	00-61572	92 5E	South	7.7–8.7	QBT3	9240	—	—	68	—	—	2860	7.49 (J-)	—	6.56 (J-)
RE00-22-248903	00-61573	92 5N	South	0–1	SOIL	—	—	—	—	—	—	—	—	—	20.9 (J-)
RE00-22-248904	00-61573	92 5N	South	3–4	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-22-248905	00-61573	92 5N	South	7.7–8.7	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-248906	00-61574	56A 5E	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	23.2 (J-)
RE00-22-248907	00-61574	56A 5E	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	17 (J)
RE00-22-248908	00-61574	56A 5E	North	11.6–12.6	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-248909	00-61575	56A 5N	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-22-248910	00-61575	56A 5N	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	19 (J-)
RE00-22-248911	00-61575	56A 5N	North	11.6–12.6	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-248912	00-61576	56A 5W	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-22-248913	00-61576	56A 5W	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	19.1
RE00-22-248914	00-61576	56A 5W	North	11.6–12.6	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-248915	00-61577	56A 5S	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-22-248916	00-61577	56A 5S	North	3–4	SOIL	—	3.78	—	—	—	—	—	—	—	17.1
RE00-22-248917	00-61577	56A 5S	North	11.6–12.6	QBT3	—	—	—	70.1	—	—	—	—	—	—
RE00-22-248930	00-61581	2 5S	North	6.5–7.5	QBT3	10600	—	3.8	66.4	—	—	2550	9.13	—	15.8 (J)
RE00-22-248979	00-61582	2 5SE	North	8.5–9.5	QBT3	—	0.69 (J)	3.09	—	—	—	—	—	—	18.6 (J)
RE00-22-248982	00-61582	2 5SE	North	10.5–11.5	QBT3	9240	—	3.01	48.3 (J)	—	—	—	—	—	150 (J)
RE00-22-248934	00-61583	58 5E	South	0–1	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-22-248935	00-61583	58 5E	South	4–5	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-22-248936	00-61583	58 5E	South	7–8	QBT3	12700	—	2.84	156	—	—	3980	9.83	—	5.56 (J)
RE00-22-255298	00-61584	58 5SW	South	13–14	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-22-248943	00-61586	94 5S	South	0–1	SOIL	—	—	—	—	—	—	—	—	—	—

Table 5.2-1 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper
Soil BV[b]						**29,200**	**0.83**	**8.17**	**295**	**1.83**	**0.4**	**6120**	**19.3**	**8.64**	**14.7**
Qbt2, 3, 4 BV[b]						**7340**	**0.5**	**2.79**	**46**	**1.21**	**1.63**	**2200**	**7.14**	**3.14**	**4.66**
Construction Worker SSL[c]						**41,400**	**142**	**41.2**	**4390**	**148**	**72.1**	**na[d]**	**134[e]**	**36.7**	**14,200**
Industrial SSL[c]						**1,290,000**	**519**	**35.9**	**255,000**	**2580**	**1110**	**na**	**505[e]**	**388**	**51,900**
Recreational SSL[f]						**619,000**	**248**	**42.9**	**124,000**	**1240**	**457**	**na**	**281[e]**	**186**	**24,800**
Residential SSL[c]						**78,000**	**31.3**	**7.07**	**15,600**	**156**	**70.5**	**na**	**96.6[e]**	**23.4**	**3130**
RE00-22-248944	00-61586	94 5S	South	4–5	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-22-248945	00-61586	94 5S	South	9.1–9.9	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-248946	00-61587	94 5E	South	0–1	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-22-248947	00-61587	94 5E	South	4–5	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-22-248948	00-61587	94 5E	South	9.1–9.9	QBT3	14700	—	—	90.4	—	—	2850	10.6	—	6.66
RE00-22-249009	00-61587	94 5E	South	10.9–11.9	QBT3	—	—	—	—	—	—	—	11.6 (J)	—	—
RE00-22-249010	00-61587	94 5E	South	12.9–13.9	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-248949	00-61588	94 5W	South	0–1	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-22-248950	00-61588	94 5W	South	4–5	SOIL	—	—	—	—	—	—	9240	—	—	—
RE00-22-248951	00-61588	94 5W	South	9.1–9.9	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-248952	00-61589	29 5W	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-22-248953	00-61589	29 5W	North	4–5	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-22-248954	00-61589	29 5W	North	7–8	QBT3	7840	—	—	50.3 (J)	—	—	3710 (J)	—	—	—
RE00-22-248955	00-61589	29 5W	North	11.5–12.5	QBT3	—	—	—	—	—	—	—	7.97	—	—
RE00-22-248956	00-61590	95 5W	South	0–1	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-22-248957	00-61590	95 5W	South	3–4	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-22-248958	00-61590	95 5W	South	6–7	QBT3	9580	—	—	84.8	—	—	5040	—	—	—
RE00-22-248960	00-61591	1 5S	North	3–4	SOIL	—	—	—	—	—	1.9 (J)	10400	—	—	2510 (J)
RE00-22-248961	00-61591	1 5S	North	6–7	QBT3	9830	—	—	57.1	—	—	—	—	—	19.1
RE00-22-248962	00-61592	1 5SW	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	17.2
RE00-22-248963	00-61592	1 5SW	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-22-248964	00-61592	1 5SW	North	6–7	QBT3	—	—	—	49.6	—	—	—	—	—	5.06
RE00-22-248965	00-61593	1 5NE	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	2380
RE00-22-248966	00-61593	1 5NE	North	3–4	SOIL	—	—	—	—	—	—	8410	—	—	158
RE00-22-248967	00-61593	1 5NE	North	6–7	QBT3	8070	—	—	59.8	—	—	3270	—	—	27.2 (J-)
RE00-22-248968	00-61594	1 5NW	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	14.8
RE00-22-248969	00-61594	1 5NW	North	3–4	SOIL	—	—	—	—	—	—	8670	—	—	34.6

Table 5.2-1 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper
Soil BV[b]						**29,200**	**0.83**	**8.17**	**295**	**1.83**	**0.4**	**6120**	**19.3**	**8.64**	**14.7**
Qbt2, 3, 4 BV[b]						**7340**	**0.5**	**2.79**	**46**	**1.21**	**1.63**	**2200**	**7.14**	**3.14**	**4.66**
Construction Worker SSL[c]						**41,400**	**142**	**41.2**	**4390**	**148**	**72.1**	**na[d]**	**134[e]**	**36.7**	**14,200**
Industrial SSL[c]						**1,290,000**	**519**	**35.9**	**255,000**	**2580**	**1110**	**na**	**505[e]**	**388**	**51,900**
Recreational SSL[f]						**619,000**	**248**	**42.9**	**124,000**	**1240**	**457**	**na**	**281[e]**	**186**	**24,800**
Residential SSL[c]						**78,000**	**31.3**	**7.07**	**15,600**	**156**	**70.5**	**na**	**96.6[e]**	**23.4**	**3130**
RE00-22-248970	00-61594	1 5NW	North	6–7	QBT3	9470	—	—	50.5	—	—	2500	—	—	6.56 (J-)
RE00-22-248985	00-61599	2 10N	North	6.5–7.5	QBT3	—	0.825 (J)	—	—	—	—	—	—	—	20.3 (J)
RE00-22-248986	00-61600	22 5NE	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-22-248987	00-61600	22 5NE	North	4–5	SOIL	—	—	—	—	—	—	—	—	—	74.1
RE00-22-248988	00-61600	22 5NE	North	11.9–12.9	QBT3	9650	—	—	58.6	—	—	3370	—	—	17
RE00-22-248989	00-61601	56A 10W	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-22-248990	00-61601	56A 10W	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-22-248991	00-61601	56A 10W	North	11.6–12.6	QBT3	—	—	—	—	—	—	—	—	—	15 (J)
RE00-22-248992	00-61602	94 10SE	South	0–1	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-22-248993	00-61602	94 10SE	South	4–5	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-22-248994	00-61602	94 10SE	South	9.1–9.9	QBT3	—	1.62 (U)	—	—	—	—	—	—	—	—
RE00-22-249013	00-61609	94 10S	South	0–1	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-22-249014	00-61609	94 10S	South	4–5	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-22-249015	00-61609	94 10S	South	9.1–9.9	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-249019	00-61611	92 5NW	South	0–1	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-22-249020	00-61611	92 5NW	South	3–4	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-22-249021	00-61611	92 5NW	South	7.7–8.7	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-249022	00-61612	22 10E	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-22-249023	00-61612	22 10E	North	4–5	SOIL	—	—	—	—	—	—	6640	—	—	54.3 (J)
RE00-22-249024	00-61612	22 10E	North	11.9–12.9	QBT3	9570	—	—	99	—	—	3150	7.46	3.43	63.9 (J)
RE00-22-249032	00-61616	27 5E	North	8.5–9.5	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-249031	00-61616	27 5E	North	11.5–12.5	QBT3	—	—	—	—	—	—	2520 (J)	—	—	—
RE00-22-249035	00-61618	2V	North	8–9	QBT3	—	—	—	—	—	—	—	—	—	16.9
RE00-22-249036	00-61618	2V	North	10–11	QBT3	—	—	—	—	—	—	—	—	—	97.8
RE00-22-249037	00-61619	58 5N	South	4–5	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-22-249038	00-61619	58 5N	South	7–8	QBT3	12000	—	—	83.7 (J)	—	—	5050 (J)	9.34 (J+)	3.73	7.6
RE00-22-249064	00-61619	58 5N	South	13.9–14.9	QBT3	—	—	—	54.3	—	—	3450 (J)	9.88 (J)	—	—

Table 5.2-1 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper
Soil BV[b]						**29,200**	**0.83**	**8.17**	**295**	**1.83**	**0.4**	**6120**	**19.3**	**8.64**	**14.7**
Qbt2, 3, 4 BV[b]						**7340**	**0.5**	**2.79**	**46**	**1.21**	**1.63**	**2200**	**7.14**	**3.14**	**4.66**
Construction Worker SSL[c]						**41,400**	**142**	**41.2**	**4390**	**148**	**72.1**	**na[d]**	**134[e]**	**36.7**	**14,200**
Industrial SSL[c]						**1,290,000**	**519**	**35.9**	**255,000**	**2580**	**1110**	**na**	**505[e]**	**388**	**51,900**
Recreational SSL[f]						**619,000**	**248**	**42.9**	**124,000**	**1240**	**457**	**na**	**281[e]**	**186**	**24,800**
Residential SSL[c]						**78,000**	**31.3**	**7.07**	**15,600**	**156**	**70.5**	**na**	**96.6[e]**	**23.4**	**3130**
RE00-22-249065	00-61619	58 5N	South	15.9–16.9	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-249039	00-61620	00-196	North	9.5–10.5	QBT3	9280	—	—	—	—	—	2880	8.25	—	17.2
RE00-22-249040	00-61620	00-196	North	11.5–12.5	QBT3	—	—	—	—	—	—	—	—	—	81.1
RE00-22-249041	00-61621	00-61521	North	9–10	QBT3	—	—	—	—	—	—	—	—	—	19.6
RE00-22-249042	00-61621	00-61521	North	11–12	QBT3	—	—	—	—	—	—	—	—	—	26.8
RE00-22-249045	00-61622	22 5SE	North	11.9–12.9	QBT3	10700	—	—	67.5	—	—	2990	10.5	—	6.6
RE00-22-249046	00-61623	17 5S	North	9–10	QBT3	—	—	—	—	—	—	—	—	—	1190 (J)
RE00-22-249047	00-61623	17 5S	North	11–12	QBT3	—	—	—	—	—	—	—	7.57 (J+)	—	133
RE00-22-249048	00-61624	00-212	North	8–9	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-249049	00-61624	00-212	North	10–11	QBT3	—	—	—	—	—	—	—	8.32 (J+)	—	11.5
RE00-22-249050	00-61625	00-61553	North	9–10	QBT3	—	—	—	—	—	—	—	7.33 (J+)	—	—
RE00-22-249051	00-61625	00-61553	North	11–12	QBT3	—	—	—	—	—	8.59	—	—	—	5.82
RE00-22-249025	00-61625	00-61553	North	13–14	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-249026	00-61625	00-61553	North	15–16	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-249053	00-61626	27 5W	North	8.5–9.5	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-249052	00-61626	27 5W	North	11.5–12.5	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-249054	00-61627	27 5N	North	8.5–9.5	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-249055	00-61627	27 5N	North	11.5–12.5	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-249056	00-61628	92 5S	South	7.7–8.7	QBT3	—	—	—	57.8	—	—	—	—	—	—
RE00-22-249059	00-61630	00-210	North	9–10	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-249060	00-61630	00-210	North	11–12	QBT3	—	—	—	—	—	—	2430 (J)	—	—	—
RE00-22-250910	00-61651	2 10NW	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	91.7 (J)
RE00-22-250911	00-61651	2 10NW	North	3–4	SOIL	—	—	—	—	—	1.48	19400 (J)	—	—	1230 (J)
RE00-22-250912	00-61651	2 10NW	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	7.36 (J)
RE00-22-250916	00-61653	2 10SE	North	0–1	SOIL	—	—	—	—	—	0.53	—	—	—	2510 (J)
RE00-22-250917	00-61653	2 10SE	North	3–4	SOIL	—	—	—	—	—	1.34	17900 (J)	—	—	1880 (J)
RE00-22-250918	00-61653	2 10SE	North	6.5–7.5	QBT3	8780	—	—	50.4 (J+)	—	—	—	—	—	51.5 (J)

Table 5.2-1 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper
Soil BV[b]						**29,200**	**0.83**	**8.17**	**295**	**1.83**	**0.4**	**6120**	**19.3**	**8.64**	**14.7**
Qbt2, 3, 4 BV[b]						**7340**	**0.5**	**2.79**	**46**	**1.21**	**1.63**	**2200**	**7.14**	**3.14**	**4.66**
Construction Worker SSL[c]						**41,400**	**142**	**41.2**	**4390**	**148**	**72.1**	**na[d]**	**134[e]**	**36.7**	**14,200**
Industrial SSL[c]						**1,290,000**	**519**	**35.9**	**255,000**	**2580**	**1110**	**na**	**505[e]**	**388**	**51,900**
Recreational SSL[f]						**619,000**	**248**	**42.9**	**124,000**	**1240**	**457**	**na**	**281[e]**	**186**	**24,800**
Residential SSL[c]						**78,000**	**31.3**	**7.07**	**15,600**	**156**	**70.5**	**na**	**96.6[e]**	**23.4**	**3130**
RE00-22-250919	00-61654	1 10SW	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-22-250920	00-61654	1 10SW	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-22-250921	00-61654	1 10SW	North	6.5–7.5	QBT3	8970	—	—	57.1	—	—	2710	8.48	—	—
RE00-22-250922	00-61655	22 10SE	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-22-250923	00-61655	22 10SE	North	4–5	SOIL	—	—	—	—	—	—	—	26.2	—	—
RE00-22-250924	00-61655	22 10SE	North	11.9–12.9	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-250928	00-61657	22 10S	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-22-250929	00-61657	22 10S	North	4–5	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-22-250930	00-61657	22 10S	North	11.9–12.9	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-250931	00-61658	56A 10S	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-22-250932	00-61658	56A 10S	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	15.1 (J)
RE00-22-250933	00-61658	56A 10S	North	11.6–12.6	QBT3	—	—	—	53.7	—	—	—	—	—	—
RE00-22-250934	00-61659	56A 10SE	North	0–1	SOIL	—	—	—	—	—	—	6460 (J)	—	—	—
RE00-22-250935	00-61659	56A 10SE	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	24.6 (J)
RE00-22-250936	00-61659	56A 10SE	North	11.6–12.6	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-250937	00-61660	56A 10SW	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-22-250938	00-61660	56A 10SW	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	15.6
RE00-22-250939	00-61660	56A 10SW	North	11.6–12.6	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-250940	00-61661	94 10SW	South	0–1	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-22-250941	00-61661	94 10SW	South	4–5	SOIL	—	—	—	—	—	—	—	—	9.22	—
RE00-22-250942	00-61661	94 10SW	South	9.1–9.9	QBT3	9800	—	—	87.6 (J)	—	—	3390 (J)	10.5	—	5.81
RE00-22-252842	00-61700	2 14N	North	6.5–7.5	QBT3	7800	—	—	49.7	—	—	—	—	—	6.98 (J)
RE00-22-252845	00-61701	2 15NNE	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	45.8 (J)
RE00-22-253161	00-61705	29 10S	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-22-253162	00-61705	29 10S	North	4–5	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-22-253163	00-61705	29 10S	North	7–8	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-22-253164	00-61705	29 10S	North	9–10	SOIL	—	—	—	—	—	—	—	—	—	—

Table 5.2-1 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper
Soil BV[b]						**29,200**	**0.83**	**8.17**	**295**	**1.83**	**0.4**	**6120**	**19.3**	**8.64**	**14.7**
Qbt2, 3, 4 BV[b]						**7340**	**0.5**	**2.79**	**46**	**1.21**	**1.63**	**2200**	**7.14**	**3.14**	**4.66**
Construction Worker SSL[c]						**41,400**	**142**	**41.2**	**4390**	**148**	**72.1**	**na[d]**	**134[e]**	**36.7**	**14,200**
Industrial SSL[c]						**1,290,000**	**519**	**35.9**	**255,000**	**2580**	**1110**	**na**	**505[e]**	**388**	**51,900**
Recreational SSL[f]						**619,000**	**248**	**42.9**	**124,000**	**1240**	**457**	**na**	**281[e]**	**186**	**24,800**
Residential SSL[c]						**78,000**	**31.3**	**7.07**	**15,600**	**156**	**70.5**	**na**	**96.6[e]**	**23.4**	**3130**
RE00-22-253165	00-61705	29 10S	North	11–12	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-253167	00-61706	29 10WSW	North	0–1	SOIL	—	1.17 (U)	—	—	—	—	—	—	—	—
RE00-22-253168	00-61706	29 10WSW	North	4–5	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-22-253169	00-61706	29 10WSW	North	7–8	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-253170	00-61706	29 10WSW	North	9–10	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-253171	00-61706	29 10WSW	North	11–12	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-253172	00-61707	29 10SE	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-22-253173	00-61707	29 10SE	North	4–5	SOIL	—	—	—	—	—	—	—	—	—	32.8 (J)
RE00-22-253174	00-61707	29 10SE	North	7–8	SOIL	—	—	—	—	—	—	—	—	—	17.9 (J)
RE00-22-253175	00-61707	29 10SE	North	9–10	SOIL	—	—	—	—	—	—	—	—	—	16.1 (J)
RE00-22-253176	00-61707	29 10SE	North	11–12	QBT3	—	—	—	—	—	—	—	—	—	4.82 (J)
RE00-22-253177	00-61708	29 15SW	North	0–1	SOIL	—	—	—	—	—	—	6590 (J)	—	—	68.2 (J)
RE00-22-253178	00-61708	29 15SW	North	4–5	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-22-253179	00-61708	29 15SW	North	7–8	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-253180	00-61708	29 15SW	North	9–10	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-253181	00-61708	29 15SW	North	11–12	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-253182	00-61709	56A 5WV	North	13.6–14.6	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-253184	00-61711	56A 10NW	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-22-253185	00-61711	56A 10NW	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-22-253186	00-61711	56A 10NW	North	11.6–12.6	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-253190	00-61712	94 15SW	South	0–1	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-22-253191	00-61712	94 15SW	South	4–5	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-22-253192	00-61712	94 15SW	South	9.1–9.9	QBT3	12000 (J)	1.85 (J)	—	149 (J)	—	—	2830	8.29 (J)	—	32.7
RE00-22-253193	00-61713	94 15WSW	South	0–1	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-22-253194	00-61713	94 15WSW	South	4–5	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-22-253195	00-61713	94 15WSW	South	9.1–9.9	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-22-253196	00-61714	94 10W	South	0–1	SOIL	—	1.26 (J)	—	—	—	—	—	—	—	—

Table 5.2-1 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper
Soil BV[b]						**29,200**	**0.83**	**8.17**	**295**	**1.83**	**0.4**	**6120**	**19.3**	**8.64**	**14.7**
Qbt2, 3, 4 BV[b]						**7340**	**0.5**	**2.79**	**46**	**1.21**	**1.63**	**2200**	**7.14**	**3.14**	**4.66**
Construction Worker SSL[c]						**41,400**	**142**	**41.2**	**4390**	**148**	**72.1**	**na[d]**	**134[e]**	**36.7**	**14,200**
Industrial SSL[c]						**1,290,000**	**519**	**35.9**	**255,000**	**2580**	**1110**	**na**	**505[e]**	**388**	**51,900**
Recreational SSL[f]						**619,000**	**248**	**42.9**	**124,000**	**1240**	**457**	**na**	**281[e]**	**186**	**24,800**
Residential SSL[c]						**78,000**	**31.3**	**7.07**	**15,600**	**156**	**70.5**	**na**	**96.6[e]**	**23.4**	**3130**
RE00-22-253197	00-61714	94 10W	South	4–5	SOIL	—	0.933 (J)	—	—	—	—	—	—	—	—
RE00-22-253198	00-61714	94 10W	South	9.1–9.9	QBT3	13000 (J)	—	—	121 (J)	—	—	7390	7.79 (J)	—	5.49
RE00-22-253202	00-61716	58 10S	South	0–1	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-22-253203	00-61716	58 10S	South	4–5	QBT3	8200	—	4.46	72.5 (J)	—	—	—	—	3.55	4.99
RE00-22-253204	00-61716	58 10S	South	7–8	QBT3	—	1.63 (J)	—	50.2 (J)	—	—	—	—	—	—
RE00-22-253205	00-61716	58 10S	South	9–10	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-253206	00-61716	58 10S	South	11–12	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-253207	00-61717	58 10SE	South	0–1	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-22-253208	00-61717	58 10SE	South	4–5	QBT3	—	0.943 (J)	—	—	—	—	—	—	—	—
RE00-22-253209	00-61717	58 10SE	South	7–8	QBT3	—	1.17 (J)	—	—	—	—	—	—	—	—
RE00-22-253210	00-61717	58 10SE	South	9–10	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-253211	00-61717	58 10SE	South	11–12	QBT3	—	0.538 (J)	—	—	—	—	—	—	—	—
RE00-22-255274	00-61722	2 25ENE	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-22-255275	00-61722	2 25ENE	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	25.7
RE00-22-255276	00-61722	2 25ENE	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	5.04
RE00-22-255285	00-61725	2 19N	North	6.5–7.5	QBT3	—	—	—	—	—	—	4020	—	—	56.6
RE00-22-255286	00-61726	2 15NW	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	145
RE00-22-255287	00-61726	2 15NW	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	242
RE00-22-255288	00-61726	2 15NW	North	6.5–7.5	SOIL	—	—	—	—	—	—	—	—	—	51.9
RE00-22-255289	00-61727	2 20NW	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	364 (J)
RE00-22-255290	00-61727	2 20NW	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	461 (J)
RE00-22-255291	00-61727	2 20NW	North	6.5–7.5	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-22-255294	00-61728	2 24N	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	10.2 (J)
RE00-22-255295	00-61729	2 24NE	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	40.3 (J)
RE00-22-255296	00-61729	2 24NE	North	3–4	SOIL	—	3.26 (U)	—	—	—	—	—	—	—	—
RE00-22-255297	00-61729	2 24NE	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	10.1 (J)
RE00-23-259861	00-61736	SE3	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	—

Table 5.2-1 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper
Soil BV[b]						**29,200**	**0.83**	**8.17**	**295**	**1.83**	**0.4**	**6120**	**19.3**	**8.64**	**14.7**
Qbt2, 3, 4 BV[b]						**7340**	**0.5**	**2.79**	**46**	**1.21**	**1.63**	**2200**	**7.14**	**3.14**	**4.66**
Construction Worker SSL[c]						**41,400**	**142**	**41.2**	**4390**	**148**	**72.1**	**na[d]**	**134[e]**	**36.7**	**14,200**
Industrial SSL[c]						**1,290,000**	**519**	**35.9**	**255,000**	**2580**	**1110**	**na**	**505[e]**	**388**	**51,900**
Recreational SSL[f]						**619,000**	**248**	**42.9**	**124,000**	**1240**	**457**	**na**	**281[e]**	**186**	**24,800**
Residential SSL[c]						**78,000**	**31.3**	**7.07**	**15,600**	**156**	**70.5**	**na**	**96.6[e]**	**23.4**	**3130**
RE00-23-259862	00-61736	SE3	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	71
RE00-23-259863	00-61736	SE3	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	174
RE00-23-259864	00-61737	NE2	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	155 (J)
RE00-23-259866	00-61737	NE2	North	6.5–7.5	QBT3	11200	—	—	117	—	—	13400 (J)	—	—	5.39 (J)
RE00-23-259867	00-61738	NE1	North	0–1	SOIL	—	—	—	—	—	0.53	—	—	—	120 (J)
RE00-23-259868	00-61738	NE1	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	63.4 (J)
RE00-23-259869	00-61738	NE1	North	6.5–7.5	QBT3	12800	—	—	111	—	—	2400 (J)	7.34	3.38	688 (J)
RE00-23-282088	00-61739	NE6	North	17–18	QBT3	—	—	14.5	—	—	—	—	—	—	—
RE00-23-282089	00-61739	NE6	North	19–20	QBT3	—	—	13.4	—	—	—	—	—	—	—
RE00-23-259873	00-61740	2 25NW	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	167
RE00-23-259874	00-61740	2 25NW	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	230
RE00-23-259875	00-61740	2 25NW	North	6.5–7.5	QBT3	9310	—	—	55.2	—	—	—	7.63 (J-)	—	60.8
RE00-23-259876	00-61741	N1	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	51.5
RE00-23-259877	00-61741	N1	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	76
RE00-23-259878	00-61741	N1	North	6.5–7.5	QBT3	8050	—	4.64 (J)	52.5	—	—	—	—	—	16
RE00-23-259882	00-61743	SE2	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-23-259883	00-61743	SE2	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	54
RE00-23-259884	00-61743	SE2	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-23-265182	00-61744	N2	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	27.9 (J)
RE00-23-265183	00-61744	N2	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	40.9 (J)
RE00-23-265184	00-61744	N2	North	6.5–7.5	QBT3	10600	—	4.13	—	—	—	—	—	—	—
RE00-23-265179	00-61745	NE10	North	0–1	SOIL	—	—	—	—	—	1.01 (J)	15000 (J)	—	—	21.7 (J)
RE00-23-265180	00-61745	NE10	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-23-264877	00-61745	NE10	North	6.5–7.5	QBT3	—	—	4.13	—	—	—	—	—	—	—
RE00-23-264878	00-61746	N5	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	25.3
RE00-23-264879	00-61746	N5	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-23-264880	00-61746	N5	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	—

Table 5.2-1 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper
Soil BV[b]						**29,200**	**0.83**	**8.17**	**295**	**1.83**	**0.4**	**6120**	**19.3**	**8.64**	**14.7**
Qbt2, 3, 4 BV[b]						**7340**	**0.5**	**2.79**	**46**	**1.21**	**1.63**	**2200**	**7.14**	**3.14**	**4.66**
Construction Worker SSL[c]						**41,400**	**142**	**41.2**	**4390**	**148**	**72.1**	**na[d]**	**134[e]**	**36.7**	**14,200**
Industrial SSL[c]						**1,290,000**	**519**	**35.9**	**255,000**	**2580**	**1110**	**na**	**505[e]**	**388**	**51,900**
Recreational SSL[f]						**619,000**	**248**	**42.9**	**124,000**	**1240**	**457**	**na**	**281[e]**	**186**	**24,800**
Residential SSL[c]						**78,000**	**31.3**	**7.07**	**15,600**	**156**	**70.5**	**na**	**96.6[e]**	**23.4**	**3130**
RE00-23-264881	00-61747	N4	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	25.9
RE00-23-264882	00-61747	N4	North	3–4	SOIL	—	—	—	305	—	—	8230 (J-)	—	—	—
RE00-23-264883	00-61747	N4	North	6.5–7.5	QBT3	23800	—	3.91	119	1.72	—	4250 (J-)	13.2	3.58 (J-)	6.71
RE00-23-264884	00-61748	NE4	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	72.5 (J)
RE00-23-264885	00-61748	NE4	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	58.1 (J)
RE00-23-264886	00-61748	NE4	North	6.5–7.5	SOIL	—	—	—	—	—	—	—	—	—	30.9 (J)
RE00-23-265185	00-61749	N3	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	107 (J)
RE00-23-265187	00-61749	N3	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-23-265188	00-61750	NE3	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	18.2 (J)
RE00-23-265189	00-61750	NE3	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-23-265190	00-61750	NE3	North	6.5–7.5	QBT3	—	—	5.77	—	—	—	—	—	—	5.02 (J)
RE00-23-264893	00-61751	2 20NEV	North	9–10	QBT3	9340	—	2.94	93.5	—	—	2750	—	—	3070 (J)
RE00-23-264894	00-61751	2 20NEV	North	11–12	QBT3	—	—	2.86	77.2	—	—	3150	—	—	247 (J)
RE00-23-264896	00-61752	N6	North	0–1	SOIL	—	1.34 (U)	—	—	—	—	—	—	—	28.5
RE00-23-264897	00-61752	N6	North	3–4	SOIL	—	1.14 (U)	—	—	—	—	—	—	—	—
RE00-23-264898	00-61752	N6	North	6.5–7.5	QBT3	—	0.628 (U)	—	—	—	—	—	—	—	5.87
RE00-23-264899	00-61753	NE5	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	130
RE00-23-264901	00-61753	NE5	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	5.16 (J)
RE00-23-264902	00-61754	SE1V	North	9–10	QBT3	—	0.752 (U)	—	—	—	—	—	—	—	17.3 (J)
RE00-23-264903	00-61754	SE1V	North	11–12	QBT3	—	0.774 (U)	—	—	—	—	—	—	—	8.7 (J)
RE00-23-264908	00-61756	SE10	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	16
RE00-23-264909	00-61756	SE10	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-23-264910	00-61756	SE10	North	5–6	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-23-267856	00-61757	SE4	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-23-267857	00-61757	SE4	North	3–4	SOIL	—	0.854 (J)	—	—	—	1.04	—	—	—	782
RE00-23-267858	00-61757	SE4	North	6.5–7.5	QBT3	—	19.7	—	—	—	—	—	—	—	695
RE00-23-267859	00-61758	SE7	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	—

Table 5.2-1 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper
Soil BV[b]						**29,200**	**0.83**	**8.17**	**295**	**1.83**	**0.4**	**6120**	**19.3**	**8.64**	**14.7**
Qbt2, 3, 4 BV[b]						**7340**	**0.5**	**2.79**	**46**	**1.21**	**1.63**	**2200**	**7.14**	**3.14**	**4.66**
Construction Worker SSL[c]						**41,400**	**142**	**41.2**	**4390**	**148**	**72.1**	**na[d]**	**134[e]**	**36.7**	**14,200**
Industrial SSL[c]						**1,290,000**	**519**	**35.9**	**255,000**	**2580**	**1110**	**na**	**505[e]**	**388**	**51,900**
Recreational SSL[f]						**619,000**	**248**	**42.9**	**124,000**	**1240**	**457**	**na**	**281[e]**	**186**	**24,800**
Residential SSL[c]						**78,000**	**31.3**	**7.07**	**15,600**	**156**	**70.5**	**na**	**96.6[e]**	**23.4**	**3130**
RE00-23-267860	00-61758	SE7	North	3–4	SOIL	—	1.14 (J)	—	—	—	—	—	—	—	684
RE00-23-267861	00-61758	SE7	North	6.5–7.5	QBT3	—	0.578 (J)	—	—	—	—	—	—	—	44.6
RE00-23-267871	00-61762	NE7	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	238 (J)
RE00-23-267872	00-61762	NE7	North	3–4	SOIL	—	—	—	—	—	—	7270	—	—	—
RE00-23-267873	00-61762	NE7	North	6–7	QBT3	7460	—	—	53.9	—	—	—	—	—	—
RE00-23-267874	00-61763	NE28	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-23-267876	00-61763	NE28	North	5–6	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-23-267877	00-61764	NE23	North	0–1	SOIL	—	—	—	—	—	0.773	—	—	—	70.5
RE00-23-267878	00-61764	NE23	North	3–4	SOIL	—	0.952 (U)	—	—	—	—	—	—	—	—
RE00-23-267879	00-61764	NE23	North	5–6	QBT3	—	—	—	—	—	—	—	—	—	5.05 (J+)
RE00-23-267882	00-61765	NE24	North	5–6	QBT3	—	—	—	—	—	—	—	—	—	12.2
RE00-23-267886	00-61767	NE26	North	0–1	SOIL	—	—	—	—	—	0.734	—	—	—	30.4
RE00-23-267887	00-61767	NE26	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-23-267888	00-61767	NE26	North	5–6	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-23-267889	00-61768	NE29	North	0.5–1.5	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-23-267890	00-61768	NE29	North	3.5–4.5	QBT3	—	—	—	52.2	—	—	—	—	—	—
RE00-23-267891	00-61768	NE29	North	5.5–6.5	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-23-271182	00-61775	NE34	North	3.5–4.5	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-23-271183	00-61775	NE34	North	5.5–6.5	QBT3	—	—	3.58	—	—	—	—	—	—	6.36 (J+)
RE00-23-271187	00-61776	NE25	North	5–6	QBT3	—	—	—	47.7	—	—	—	—	—	—
RE00-23-271191	00-61778	NE37	North	2–4	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-23-271192	00-61778	NE37	North	4–5	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-23-271196	00-61779	SE11	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	278 (J)
RE00-23-271197	00-61780	NE20	North	0–1	SOIL	—	—	—	—	—	0.718	—	—	—	328 (J)
RE00-23-271198	00-61780	NE20	North	3–4	SOIL	—	—	—	—	—	—	6550	—	—	—
RE00-23-271199	00-61780	NE20	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-23-271200	00-61781	NE21	North	0–1	SOIL	—	—	—	—	—	0.867	—	—	—	226 (J)

Table 5.2-1 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper
Soil BV[b]						**29,200**	**0.83**	**8.17**	**295**	**1.83**	**0.4**	**6120**	**19.3**	**8.64**	**14.7**
Qbt2, 3, 4 BV[b]						**7340**	**0.5**	**2.79**	**46**	**1.21**	**1.63**	**2200**	**7.14**	**3.14**	**4.66**
Construction Worker SSL[c]						**41,400**	**142**	**41.2**	**4390**	**148**	**72.1**	**na[d]**	**134[e]**	**36.7**	**14,200**
Industrial SSL[c]						**1,290,000**	**519**	**35.9**	**255,000**	**2580**	**1110**	**na**	**505[e]**	**388**	**51,900**
Recreational SSL[f]						**619,000**	**248**	**42.9**	**124,000**	**1240**	**457**	**na**	**281[e]**	**186**	**24,800**
Residential SSL[c]						**78,000**	**31.3**	**7.07**	**15,600**	**156**	**70.5**	**na**	**96.6[e]**	**23.4**	**3130**
RE00-23-271201	00-61781	NE21	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-23-271202	00-61781	NE21	North	6.5–7.5	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-23-271203	00-61782	NE54	North	0–1	SOIL	—	—	—	—	—	0.757	—	—	—	197 (J)
RE00-23-271205	00-61782	NE54	North	6.5–7.5	QBT3	—	—	—	55.2	—	—	—	—	—	8.3 (J)
RE00-23-271206	00-61783	NE53	North	0–1	SOIL	—	—	—	—	—	0.464	—	—	—	46.3 (J)
RE00-23-271207	00-61783	NE53	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	17.7 (J)
RE00-23-271208	00-61783	NE53	North	6.5–7.5	QBT3	16200	—	4.11	105	—	—	2290	7.41	3.31	29.4 (J)
RE00-23-271209	00-61784	SE14	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	63.5 (J)
RE00-23-271210	00-61784	SE14	North	3–4	SOIL	—	—	—	—	—	—	8440	—	—	26.7 (J)
RE00-23-271211	00-61784	SE14	North	5–6	QBT3	8010	—	—	77.9	—	—	2550	—	—	6.32 (J)
RE00-23-271212	00-61785	SE13	North	2–3	SOIL	—	—	—	—	—	—	6580	—	—	—
RE00-23-271213	00-61785	SE13	North	4–5	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-23-271215	00-61786	SE12	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	239 (J)
RE00-23-271216	00-61786	SE12	North	3–4	SOIL	—	—	—	—	—	—	6330	—	—	68.7 (J)
RE00-23-271217	00-61786	SE12	North	11–12	QBT3	—	—	—	—	—	—	—	—	—	48.1 (J)
RE00-23-271218	00-61787	SE15	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	57.8
RE00-23-271219	00-61787	SE15	North	3–4	SOIL	—	—	—	—	—	—	10500	—	—	79.9
RE00-23-271220	00-61787	SE15	North	11.5–12.5	QBT3	—	—	—	—	—	—	—	—	—	62.5
RE00-23-271227	00-61790	NE45	North	0.5–1.5	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-23-271228	00-61790	NE45	North	2.5–3.5	QBT3	—	—	4.27 (J)	—	—	—	—	—	—	—
RE00-23-271230	00-61791	NE47	North	1–2	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-23-271231	00-61791	NE47	North	2.5–3.5	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-23-271233	00-61792	NE55	North	0–1	SOIL	—	—	—	—	—	0.404	—	—	—	50.5 (J)
RE00-23-271234	00-61792	NE55	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-23-271235	00-61792	NE55	North	6.5–7.5	QBT3	—	—	—	56.9	—	—	—	—	—	14.5 (J)
RE00-23-271237	00-61793	NE38	North	5–6	QBT3	—	—	4.66	—	—	—	—	—	—	—
RE00-23-271239	00-61794	NE39	North	0.5–1.5	SOIL	—	—	—	—	—	—	—	—	—	21.5

Table 5.2-1 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper
Soil BV[b]						**29,200**	**0.83**	**8.17**	**295**	**1.83**	**0.4**	**6120**	**19.3**	**8.64**	**14.7**
Qbt2, 3, 4 BV[b]						**7340**	**0.5**	**2.79**	**46**	**1.21**	**1.63**	**2200**	**7.14**	**3.14**	**4.66**
Construction Worker SSL[c]						**41,400**	**142**	**41.2**	**4390**	**148**	**72.1**	**na[d]**	**134[e]**	**36.7**	**14,200**
Industrial SSL[c]						**1,290,000**	**519**	**35.9**	**255,000**	**2580**	**1110**	**na**	**505[e]**	**388**	**51,900**
Recreational SSL[f]						**619,000**	**248**	**42.9**	**124,000**	**1240**	**457**	**na**	**281[e]**	**186**	**24,800**
Residential SSL[c]						**78,000**	**31.3**	**7.07**	**15,600**	**156**	**70.5**	**na**	**96.6[e]**	**23.4**	**3130**
RE00-23-271240	00-61794	NE39	North	2–3	QBT3	—	—	—	67.8 (J)	—	—	—	—	—	—
RE00-23-271242	00-61795	NE48	North	3.5–4.5	QBT3	—	—	—	—	—	—	5520	—	—	—
RE00-23-271243	00-61795	NE48	North	5.5–6.5	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-23-271248	00-61797	NE56	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-23-271249	00-61797	NE56	North	2–3	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-23-282091	00-61799	NE60	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-23-282092	00-61799	NE60	North	2–3	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-23-289091	00-61804	NE68	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-23-289092	00-61804	NE68	North	2–3	QBT3	—	—	5.27 (J-)	—	—	—	—	—	—	—
RE00-23-289873	00-61805	NE64	North	18–19	QBT3	—	1.39 (J)	16.1	—	—	—	—	15.2	—	—
RE00-23-282118	00-61808	NE66	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-23-282119	00-61808	NE66	North	2–3	QBT3	—	—	4.54 (J+)	—	—	—	—	—	—	—
RE00-23-289205	00-61811	NE67	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-23-289206	00-61811	NE67	North	2–3	QBT3	—	—	3.97 (J-)	—	—	—	—	—	—	—
RE00-23-289519	00-61813	NE80	North	0–1	SOIL	—	—	—	—	—	—	8140	—	—	—
RE00-23-289520	00-61813	NE80	North	2–3	SOIL	—	—	—	—	—	—	17500	—	—	—
RE00-23-289510	00-61815	NE74	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-23-289511	00-61815	NE74	North	2–3	SOIL	—	1.05 (U)	—	—	—	—	—	—	—	—
RE00-23-289513	00-61816	NE79	North	0–1	SOIL	—	—	—	—	—	—	9950	—	—	19.2
RE00-23-289514	00-61816	NE79	North	2–3	SOIL	—	—	—	—	—	—	16000	—	—	—
RE00-23-289516	00-61817	NE81	North	0–1	SOIL	—	—	—	—	—	—	6820	—	—	—
RE00-23-289517	00-61817	NE81	North	2–3	QBT3	—	0.51 (U)	6.16	50 (J)	—	—	10100	—	—	4.89
RE00-23-290099	00-61818	NE82	North	0–1	SOIL	—	—	—	—	—	—	6590	—	—	16.8
RE00-23-290100	00-61818	NE82	North	2–3	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-23-290101	00-61818	NE82	North	4–5	QBT3	9780	—	3.35	48.6	—	—	—	—	—	—

Table 5.2-1 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Cyanide (Total)	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Nitrate	Nitrite	Perchlorate
Soil BV[b]						**0.5**	**21,500**	**22.3**	**4610**	**671**	**0.1**	**15.4**	**na**	**na**	**na**
Qbt2, 3, 4 BV[b]						**0.5**	**14,500**	**11.2**	**1690**	**482**	**0.1**	**6.58**	**na**	**na**	**na**
Construction Worker SSL[c]						**12.1**	**248,000**	**800**	**na**	**464**	**20.7**	**753**	**566,000**	**35,400**	**248**
Industrial SSL[c]						**63.3**	**908,000**	**800**	**na**	**160,000**	**112**	**25,700**	**2,080,000**	**130,000**	**908**
Recreational SSL[f]						**224**	**434,000**	**1120**	**na**	**14,800**	**186**	**12,400**	**991,000**	**61,900**	**434**
Residential SSL[c]						**11.2**	**54,800**	**400**	**na**	**10,500**	**23.8**	**1560**	**125,000**	**7820**	**54.8**
RE00-22-238042	00-171	4	North	7.5–8.5	QBT3	—	—	—	—	—	—	—	0.518 (J)	—	0.000566 (J)
RE00-22-238043	00-171	4	North	10.5–11.5	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-238046	00-173	9	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	0.497 (J)	—	0.00203
RE00-22-238047	00-173	9	North	9.5–10.5	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-238051	00-175	23	North	6.9–7.9	QBT3	—	—	—	—	—	—	—	—	—	0.000495 (J)
RE00-22-238052	00-175	23	North	9.9–10.9	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-238056	00-177	11	North	9–10	QBT3	—	—	—	—	—	—	—	0.708 (J)	—	0.00128 (J)
RE00-22-238057	00-177	11	North	12–13	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-238061	00-179	8	North	8.5–9.5	QBT3	—	—	—	—	—	—	—	0.71 (J)	—	—
RE00-22-238062	00-179	8	North	11.5–12.5	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-238066	00-181	13	North	8–9	QBT3	—	—	—	—	—	—	—	—	—	0.000536 (J)
RE00-22-238067	00-181	13	North	11–12	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-238071	00-183	10	North	11–12	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-238072	00-183	10	North	14–15	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-238075	00-184	1	North	6–7	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-238076	00-185	24	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	0.531 (J)	—	0.000538 (J)
RE00-22-238077	00-185	24	North	9.5–10.5	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-238078	00-186	97	South	0–1	SOIL	—	—	—	—	—	—	—	0.667 (J)	—	—
RE00-22-238079	00-186	97	South	3–4	SOIL	—	—	—	—	—	—	—	0.69 (J)	—	0.00138 (J)
RE00-22-238080	00-186	97	South	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	0.00158 (J)
RE00-22-238081	00-187	21	North	8–9	QBT3	—	—	—	—	—	—	—	0.358 (J)	—	—
RE00-22-238082	00-187	21	North	11–12	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-238090	00-190	90	South	6–7	QBT3	—	—	—	—	—	—	—	3.18	—	—
RE00-22-238093	00-190	90	South	13–14	QBT3	—	—	—	—	—	—	—	0.383 (J)	—	—
RE00-22-238094	00-192	91	South	0–1	FILL	—	—	—	—	—	—	—	5.49	—	—

Table 5.2-1 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Cyanide (Total)	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Nitrate	Nitrite	Perchlorate
Soil BV[b]						**0.5**	**21,500**	**22.3**	**4610**	**671**	**0.1**	**15.4**	**na**	**na**	**na**
Qbt2, 3, 4 BV[b]						**0.5**	**14,500**	**11.2**	**1690**	**482**	**0.1**	**6.58**	**na**	**na**	**na**
Construction Worker SSL[c]						**12.1**	**248,000**	**800**	**na**	**464**	**20.7**	**753**	**566,000**	**35,400**	**248**
Industrial SSL[c]						**63.3**	**908,000**	**800**	**na**	**160,000**	**112**	**25,700**	**2,080,000**	**130,000**	**908**
Recreational SSL[f]						**224**	**434,000**	**1120**	**na**	**14,800**	**186**	**12,400**	**991,000**	**61,900**	**434**
Residential SSL[c]						**11.2**	**54,800**	**400**	**na**	**10,500**	**23.8**	**1560**	**125,000**	**7820**	**54.8**
RE00-22-238095	00-192	91	South	7.5–8.5	QBT3	—	—	—	—	—	—	—	2.3	—	0.000876 (J)
RE00-22-238096	00-193	98	North	9.5–10.5	QBT3	—	—	—	—	—	—	—	—	—	0.000529 (J)
RE00-22-238097	00-193	98	North	12.5–13.5	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-238100	00-195	25	North	8.5–9.5	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-238101	00-195	25	North	11.5–12.5	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-238103	00-196	3	North	3.3–4.5	FILL	—	—	62.1	—	—	—	—	2.02	—	0.00131 (J)
RE00-22-238104	00-196	3	North	7.5–8.5	QBT3	—	—	44.4	—	—	—	9.74	1.95	—	0.00133 (J)
RE00-22-238105	00-197	27	North	8.5–9.5	QBT3	—	—	—	—	529	—	—	—	—	—
RE00-22-238106	00-197	27	North	11.5–12.5	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-238107	00-198	99	South	0–1	SOIL	—	—	—	—	—	—	—	0.634 (J)	—	0.000723 (J)
RE00-22-238108	00-198	99	South	3–4	SOIL	—	—	—	—	—	—	—	0.787 (J)	—	0.000682 (J)
RE00-22-238109	00-198	99	South	6–7.1	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-238110	00-199	28	North	12.5–13.5	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-238111	00-199	28	North	15.5–16.5	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-238112	00-200	66	South	0–1	FILL	—	—	—	—	—	—	—	2.38	—	0.00185 (J)
RE00-22-238113	00-200	66	South	4–5	FILL	—	—	—	—	—	—	—	15.3	—	0.000698 (J)
RE00-22-238114	00-200	66	South	6.1–7.1	QBT3	—	—	12.3 (J)	—	—	—	—	4.79	—	0.000605 (J)
RE00-22-238115	00-201	89	South	7.5–8.5	QBT3	—	—	—	—	—	—	—	1.35	—	—
RE00-22-238116	00-201	89	South	10.5–11.5	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-238117	00-202	92	South	0–1	FILL	—	—	—	—	—	—	—	5.33	—	—
RE00-22-238118	00-202	92	South	3–4	FILL	—	—	—	—	—	—	—	12.9	—	0.00116 (J)
RE00-22-238119	00-202	92	South	7.7–8.7	QBT3	—	—	—	—	—	—	—	2.98	—	—
RE00-22-238120	00-203	86	South	10–11	QBT3	—	—	—	—	—	—	—	0.747 (J)	—	—
RE00-22-238121	00-203	86	South	13–14	QBT3	—	—	—	—	—	—	—	0.899 (J)	—	0.000765 (J)
RE00-22-238122	00-204	57A	South	0–1	SOIL	—	—	—	—	—	—	—	6.22	—	0.0114
RE00-22-238123	00-204	57A	South	3–4	SOIL	—	—	—	—	—	—	—	35.3	—	0.00114 (J)
RE00-22-238124	00-204	57A	South	7.9–8.9	QBT3	—	—	—	—	—	—	—	4.07	—	0.001 (J)

Table 5.2-1 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Cyanide (Total)	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Nitrate	Nitrite	Perchlorate
Soil BV[b]						**0.5**	**21,500**	**22.3**	**4610**	**671**	**0.1**	**15.4**	**na**	**na**	**na**
Qbt2, 3, 4 BV[b]						**0.5**	**14,500**	**11.2**	**1690**	**482**	**0.1**	**6.58**	**na**	**na**	**na**
Construction Worker SSL[c]						**12.1**	**248,000**	**800**	**na**	**464**	**20.7**	**753**	**566,000**	**35,400**	**248**
Industrial SSL[c]						**63.3**	**908,000**	**800**	**na**	**160,000**	**112**	**25,700**	**2,080,000**	**130,000**	**908**
Recreational SSL[f]						**224**	**434,000**	**1120**	**na**	**14,800**	**186**	**12,400**	**991,000**	**61,900**	**434**
Residential SSL[c]						**11.2**	**54,800**	**400**	**na**	**10,500**	**23.8**	**1560**	**125,000**	**7820**	**54.8**
RE00-22-238125	00-205	72	South	13–14	QBT3	—	—	—	—	—	—	—	2.57	—	0.0115
RE00-22-238126	00-205	72	South	16–17	QBT3	—	—	—	—	—	—	—	6.22	—	0.0785
RE00-22-238129	00-206	18	North	7.8–8.8	QBT3	—	—	15.7	—	—	—	—	0.821 (J)	—	—
RE00-22-238130	00-207	71	South	10–11	QBT3	—	—	—	—	—	—	8.88	6.5	—	0.00589
RE00-22-238131	00-207	71	South	13–14	QBT3	—	—	—	—	—	—	—	2.38	—	0.004
RE00-22-238132	00-208	70	South	0–1	FILL	—	—	—	—	—	—	—	12.8	—	0.00142 (J)
RE00-22-238133	00-208	70	South	4–5	SOIL	—	—	—	—	—	—	—	26.9	—	—
RE00-22-238134	00-208	70	South	9–10	QBT3	—	—	—	—	—	—	—	4.75	—	0.000917 (J)
RE00-22-238135	00-209	76	South	13–14	QBT3	—	—	—	—	—	—	—	3.63	—	0.0292
RE00-22-238136	00-209	76	South	16–17	QBT3	—	—	—	—	—	—	—	1.51	—	0.0299
RE00-22-238139	00-210	29	North	0–1.4	FILL	—	—	—	—	—	—	—	5.63	—	0.00178 (J)
RE00-22-238138	00-210	29	North	4–5	SOIL	—	—	—	—	—	—	—	1.35	—	0.00079 (J)
RE00-22-238137	00-210	29	North	7–8	QBT3	—	—	13.2	—	633 (J)	—	—	1.37	—	0.0019 (J)
RE00-22-238140	00-211	82	South	14.5–15.5	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-238141	00-211	82	South	17.5–18.5	QBT3	—	—	—	—	—	—	—	—	—	0.00227
RE00-22-238142	00-212	20	North	0–1	FILL	—	—	—	—	—	—	—	1.38	—	0.000993 (J)
RE00-22-238143	00-212	20	North	4–5	SOIL	—	—	—	—	—	—	—	—	—	0.00372
RE00-22-238144	00-212	20	North	6.2–7.2	QBT3	—	—	16.5 (J)	—	—	—	—	—	—	0.00139 (J)
RE00-22-238145	00-213	79	South	12–13	QBT3	—	—	—	—	—	0.151	—	0.753 (J)	—	—
RE00-22-238146	00-213	79	South	15–16	QBT3	—	—	—	—	—	—	—	0.532 (J)	—	0.000628 (J)
RE00-22-238147	00-214	26	North	0–1	FILL	—	—	—	—	—	—	—	0.442 (J)	—	—
RE00-22-238148	00-214	26	North	4–5	SOIL	—	—	—	—	—	—	—	0.843 (J)	—	—
RE00-22-238149	00-214	26	North	6.8–7.8	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-238150	00-215	12	North	7.5–8.5	QBT3	—	—	—	—	—	—	—	1.72	—	0.0028
RE00-22-238151	00-215	12	North	10.5–11.5	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-238152	00-216	83	South	12–13	QBT3	—	—	—	—	—	—	—	1.15	—	0.00455
RE00-22-238153	00-216	83	South	15–16	QBT3	—	—	—	—	—	—	—	1.52	—	0.00106 (J)

Table 5.2-1 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Cyanide (Total)	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Nitrate	Nitrite	Perchlorate
Soil BV[b]						**0.5**	**21,500**	**22.3**	**4610**	**671**	**0.1**	**15.4**	**na**	**na**	**na**
Qbt2, 3, 4 BV[b]						**0.5**	**14,500**	**11.2**	**1690**	**482**	**0.1**	**6.58**	**na**	**na**	**na**
Construction Worker SSL[c]						**12.1**	**248,000**	**800**	**na**	**464**	**20.7**	**753**	**566,000**	**35,400**	**248**
Industrial SSL[c]						**63.3**	**908,000**	**800**	**na**	**160,000**	**112**	**25,700**	**2,080,000**	**130,000**	**908**
Recreational SSL[f]						**224**	**434,000**	**1120**	**na**	**14,800**	**186**	**12,400**	**991,000**	**61,900**	**434**
Residential SSL[c]						**11.2**	**54,800**	**400**	**na**	**10,500**	**23.8**	**1560**	**125,000**	**7820**	**54.8**
RE00-22-238154	00-217	80	South	12–13	QBT3	—	—	—	—	—	—	—	1.53	—	0.00231
RE00-22-238155	00-217	80	South	15–16	QBT3	—	—	—	—	—	—	—	3.77	—	0.00624
RE00-22-238156	00-218	22	North	0–1	FILL	—	—	—	—	—	—	—	2.33	—	0.00902
RE00-22-238157	00-218	22	North	4–5	FILL	—	—	39.8 (J)	—	—	—	—	10.1	—	0.00131 (J)
RE00-22-238158	00-218	22	North	11.9–12.9	QBT3	—	—	11.9 (J)	—	—	—	—	2.42	—	0.00126 (J)
RE00-22-238159	00-219	87	South	8.5–9.5	QBT3	—	—	—	—	—	—	—	1.75	—	0.000661 (J)
RE00-22-238160	00-219	87	South	11.5–12.5	QBT3	—	—	—	—	—	—	—	3.31	—	0.00324
RE00-22-238161	00-220	85	South	0–1	FILL	—	—	—	—	—	—	—	6.77	—	0.00345
RE00-22-238162	00-220	85	South	3–4	FILL	—	—	—	—	—	—	—	0.537 (J)	—	—
RE00-22-238163	00-220	85	South	4.9–5.9	QBT3	—	—	—	—	—	—	—	0.707 (J)	—	0.000575 (J)
RE00-22-238164	00-221	84	South	11–12	QBT3	—	—	—	—	—	—	—	0.508 (J)	—	0.00636
RE00-22-238165	00-221	84	South	14–15	QBT3	—	—	—	—	—	—	—	1.36	—	0.00448
RE00-22-238166	00-222	7	North	0–1	FILL	—	—	26.6	—	—	—	—	3.86	—	—
RE00-22-238167	00-222	7	North	3–4	SOIL	—	—	—	—	—	—	—	1.21	—	—
RE00-22-238168	00-222	7	North	5–6	QBT3	—	—	—	—	—	—	—	0.622 (J)	—	—
RE00-22-238169	00-223	81	South	6.5–7.5	QBT3	—	—	—	—	—	—	—	0.561 (J)	—	0.00413 (J+)
RE00-22-238170	00-223	81	South	9.5–10.5	QBT3	—	—	—	—	—	—	—	—	—	0.000888 (J+)
RE00-22-238174	00-225	77	South	8.5–9.5	QBT3	—	—	—	—	—	—	—	2.36	—	0.00101 (J+)
RE00-22-238175	00-225	77	South	11.5–12.5	QBT3	—	—	—	—	—	—	—	12.1	—	0.00654 (J+)
RE00-22-238176	00-226	95	South	0–1	FILL	—	—	—	—	—	—	—	5.4	—	0.0017 (J)
RE00-22-238177	00-226	95	South	3–4	SOIL	—	—	—	—	—	—	—	2.64	—	0.000667 (J)
RE00-22-238178	00-226	95	South	6–7	QBT3	—	—	—	—	—	—	8.5	0.721 (J)	—	0.0012 (J)
RE00-22-238179	00-227	78	South	7.5–8.5	QBT3	—	—	—	—	—	—	6.69	10.9	—	0.00218 (J+)
RE00-22-238180	00-227	78	South	10.5–11.5	QBT3	—	—	—	—	—	—	—	0.653 (J)	—	0.00167 (J+)
RE00-22-238181	00-228	59	South	0–1	FILL	—	—	—	—	—	—	—	7.05	—	0.00143 (J)
RE00-22-238281	00-228	59	South	4–5	SOIL	—	—	—	—	—	—	—	3.69	—	0.000544 (J)
RE00-22-238286	00-228	59	South	9–10	QBT3	—	—	—	—	—	—	—	3.93	—	0.00111 (J)

Table 5.2-1 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Cyanide (Total)	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Nitrate	Nitrite	Perchlorate
Soil BV[b]						**0.5**	**21,500**	**22.3**	**4610**	**671**	**0.1**	**15.4**	**na**	**na**	**na**
Qbt2, 3, 4 BV[b]						**0.5**	**14,500**	**11.2**	**1690**	**482**	**0.1**	**6.58**	**na**	**na**	**na**
Construction Worker SSL[c]						**12.1**	**248,000**	**800**	**na**	**464**	**20.7**	**753**	**566,000**	**35,400**	**248**
Industrial SSL[c]						**63.3**	**908,000**	**800**	**na**	**160,000**	**112**	**25,700**	**2,080,000**	**130,000**	**908**
Recreational SSL[f]						**224**	**434,000**	**1120**	**na**	**14,800**	**186**	**12,400**	**991,000**	**61,900**	**434**
Residential SSL[c]						**11.2**	**54,800**	**400**	**na**	**10,500**	**23.8**	**1560**	**125,000**	**7820**	**54.8**
RE00-22-238184	00-229	73	South	7.5–8.5	QBT3	—	—	—	—	—	—	—	15.1	—	0.00237 (J+)
RE00-22-238185	00-229	73	South	10.5–11.5	QBT3	—	—	—	—	—	—	—	13.1	—	0.0033 (J+)
RE00-22-238189	00-231	69	South	7.5–8.5	QBT3	—	—	—	—	—	—	—	7.5	—	—
RE00-22-238190	00-231	69	South	10.5–11.5	QBT3	—	—	—	—	—	—	—	5.77	—	—
RE00-22-238192	00-232	96	South	0–1	FILL	—	—	—	—	—	—	—	0.863 (J)	—	—
RE00-22-238191	00-232	96	South	4–5	FILL	—	—	—	—	—	—	—	1.36	—	0.000922 (J)
RE00-22-238193	00-232	96	South	6–7	QBT3	—	—	—	—	—	—	—	0.845 (J)	—	0.000432 (J)
RE00-22-238194	00-233	64	South	7.5–8.5	QBT3	—	—	—	—	—	—	—	8.76	—	0.00103 (J+)
RE00-22-238195	00-233	64	South	10.5–11.5	QBT3	—	—	—	—	—	—	—	9.35	—	0.00155 (J+)
RE00-22-238196	00-234	61	South	12.5–13.5	QBT3	—	—	—	—	—	0.102	—	1.98	—	0.00189 (J)
RE00-22-238197	00-234	61	South	15.5–16.5	QBT3	—	—	—	—	—	—	—	5.28	—	0.00902
RE00-22-238198	00-235	57	South	9–10	QBT3	—	—	—	—	—	—	—	2.22	—	0.00293
RE00-22-238199	00-235	57	South	12–13	QBT3	—	—	—	—	—	—	—	0.572 (J)	—	0.000522 (J)
RE00-22-238200	00-236	60	South	13–14	QBT3	—	—	—	—	—	—	—	1.38	—	0.00158 (J)
RE00-22-238201	00-236	60	South	16–17	QBT3	—	—	—	—	—	—	—	1.55	—	0.00579
RE00-22-238202	00-237	62	South	8.5–9.5	QBT3	—	—	—	1900	—	—	10.1	21.1	—	0.00342
RE00-22-238203	00-237	62	South	11.5–12.5	QBT3	—	—	—	—	—	—	—	2.97	—	0.000462 (J)
RE00-22-238204	00-238	63	South	4–5	QBT3	—	—	—	—	—	—	—	4.45	—	0.023
RE00-22-238205	00-238	63	South	7–8	QBT3	—	—	—	—	—	—	—	2.61	—	0.0132
RE00-22-238206	00-239	67	South	6.5–7.5	QBT3	—	—	—	—	—	—	—	0.867 (J)	—	—
RE00-22-238207	00-239	67	South	9.5–10.5	QBT3	—	—	—	—	—	—	—	4.02	—	0.049
RE00-22-238208	00-240	68	South	5–6	QBT3	—	—	—	—	—	—	—	6.77	—	0.0107
RE00-22-238209	00-240	68	South	8–9	QBT3	—	—	—	—	—	—	—	16.9	—	0.0317
RE00-22-238226	00-249	5	North	8–9	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-238227	00-249	5	North	11–12	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-238237	00-254	15	North	7–8	QBT3	—	—	—	—	—	—	—	—	—	0.000611 (J)
RE00-22-238238	00-255	93	South	0–1	FILL	—	—	—	—	—	—	—	15.1	—	0.00302

Table 5.2-1 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Cyanide (Total)	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Nitrate	Nitrite	Perchlorate
Soil BV[b]						**0.5**	**21,500**	**22.3**	**4610**	**671**	**0.1**	**15.4**	**na**	**na**	**na**
Qbt2, 3, 4 BV[b]						**0.5**	**14,500**	**11.2**	**1690**	**482**	**0.1**	**6.58**	**na**	**na**	**na**
Construction Worker SSL[c]						**12.1**	**248,000**	**800**	**na**	**464**	**20.7**	**753**	**566,000**	**35,400**	**248**
Industrial SSL[c]						**63.3**	**908,000**	**800**	**na**	**160,000**	**112**	**25,700**	**2,080,000**	**130,000**	**908**
Recreational SSL[f]						**224**	**434,000**	**1120**	**na**	**14,800**	**186**	**12,400**	**991,000**	**61,900**	**434**
Residential SSL[c]						**11.2**	**54,800**	**400**	**na**	**10,500**	**23.8**	**1560**	**125,000**	**7820**	**54.8**
RE00-22-238239	00-255	93	South	4–5	FILL	—	—	—	—	—	—	—	11.8	—	0.00652
RE00-22-238240	00-255	93	South	7.5–8.5	QBT3	—	—	—	—	—	—	—	1.33	—	—
RE00-22-238242	00-256	14	North	7.3–8.3	QBT3	—	—	12.5 (J)	—	—	—	—	1.11	—	—
RE00-22-239164	00-257	6	North	6.1–7.1	QBT3	—	—	13.3	—	—	0.998	—	0.624 (J)	—	—
RE00-22-238248	00-259	75	South	0–1	FILL	—	—	—	—	—	—	—	12.2	—	0.00201 (J)
RE00-22-238249	00-259	75	South	3–4	FILL	—	—	—	—	—	—	—	13.9	—	0.0017 (J)
RE00-22-238250	00-259	75	South	6.9–7.9	QBT3	—	—	—	—	—	—	7.03	1.56	—	0.00105 (J)
RE00-22-238251	00-260	88	South	0–1	FILL	—	—	—	—	—	—	—	10.5	—	0.000739 (J)
RE00-22-238252	00-260	88	South	5–6	QBT3	—	—	—	—	—	—	7.15	0.679 (J)	—	0.000725 (J)
RE00-22-238253	00-261	56A-A	North	0–1	SOIL	—	—	43.1	—	—	—	—	3.11	—	0.00396 (J+)
RE00-22-238254	00-261	56A-A	North	3–4	SOIL	—	—	32.8	—	—	—	—	6.83	—	0.000937 (J+)
RE00-22-238255	00-261	56A-A	North	11.6–12.6	QBT3	—	—	—	—	—	—	—	6.66	—	0.00107 (J+)
RE00-22-238273	00-61519	16	North	0–1	FILL	0.786 (U)	—	33.6	—	—	—	—	3.67	—	0.000518 (J)
RE00-22-238278	00-61519	16	North	3–4	SOIL	—	—	33.9	—	—	—	—	3.43	—	—
RE00-22-238283	00-61519	16	North	12–13	QBT3	—	—	26.5	—	—	—	6.85	1.6	—	—
RE00-22-238274	00-61520	94	South	0–1	FILL	—	—	—	—	—	—	—	14.1	—	0.00109 (J)
RE00-22-238279	00-61520	94	South	4–5	FILL	—	—	—	—	956	—	—	8.94	—	0.00261
RE00-22-238284	00-61520	94	South	9.1–9.9	QBT3	—	—	—	—	—	—	6.95	3.61	—	0.0136
RE00-22-238287	00-61523	74	South	0–1	SOIL	—	—	—	—	—	0.103	—	5.08	—	0.00139 (J)
RE00-22-238282	00-61523	74	South	4–5	SOIL	—	—	27.4	—	—	0.137	—	10.2	—	0.000576 (J)
RE00-22-238277	00-61523	74	South	8–9	QBT3	—	—	—	—	—	—	—	5.34	—	0.000675 (J)
RE00-22-238290	00-61526	56	South	0–1	FILL	—	—	—	—	—	—	—	1.86	—	—
RE00-22-238295	00-61526	56	South	3.5–4	FILL	—	—	—	—	—	—	—	0.875 (J)	—	—
RE00-22-238300	00-61526	56	South	6–7	FILL	—	—	—	—	—	—	—	28.6	—	0.00167 (J)
RE00-22-238305	00-61526	56	South	9.6–10.1	QBT3	—	—	—	—	—	—	—	9.49	—	0.00286
RE00-22-238292	00-61528	65	South	0–1	FILL	—	—	—	—	—	—	—	4.17	—	0.000723 (J)
RE00-22-238297	00-61528	65	South	3–4	FILL	—	—	—	—	—	—	—	6.44	—	—

Table 5.2-1 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Cyanide (Total)	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Nitrate	Nitrite	Perchlorate
Soil BV[b]						**0.5**	**21,500**	**22.3**	**4610**	**671**	**0.1**	**15.4**	**na**	**na**	**na**
Qbt2, 3, 4 BV[b]						**0.5**	**14,500**	**11.2**	**1690**	**482**	**0.1**	**6.58**	**na**	**na**	**na**
Construction Worker SSL[c]						**12.1**	**248,000**	**800**	**na**	**464**	**20.7**	**753**	**566,000**	**35,400**	**248**
Industrial SSL[c]						**63.3**	**908,000**	**800**	**na**	**160,000**	**112**	**25,700**	**2,080,000**	**130,000**	**908**
Recreational SSL[f]						**224**	**434,000**	**1120**	**na**	**14,800**	**186**	**12,400**	**991,000**	**61,900**	**434**
Residential SSL[c]						**11.2**	**54,800**	**400**	**na**	**10,500**	**23.8**	**1560**	**125,000**	**7820**	**54.8**
RE00-22-238302	00-61528	65	South	6–7	FILL	—	—	—	—	—	—	—	8.7	—	0.000583 (J)
RE00-22-238307	00-61528	65	South	9–10	QBT3	—	—	—	—	—	—	—	7.19	—	0.00067 (J)
RE00-22-239217	00-61546	19	North	0–1	FILL	—	—	—	—	—	—	—	0.609 (J)	—	—
RE00-22-239227	00-61546	19	North	4–5	SOIL	—	—	—	—	—	—	—	—	—	0.000627 (J)
RE00-22-239237	00-61546	19	North	5.75–6.8	QBT3	—	—	—	—	—	—	—	—	—	0.000623 (J)
RE00-22-239218	00-61547	55A-A	North	0–1	SOIL	—	—	—	—	—	—	—	3.62	—	0.00453
RE00-22-239228	00-61547	55A-A	North	3–4	SOIL	—	—	30.5	—	—	—	—	9.96	—	0.00101 (J)
RE00-22-239238	00-61547	55A-A	North	11.9–12.9	QBT3	—	—	11.7	—	—	—	—	3.71	—	0.000533 (J)
RE00-22-239221	00-61550	58A	South	0–1	SOIL	—	—	—	—	—	—	—	3.36	—	0.00064 (J+)
RE00-22-239231	00-61550	58A	South	3–4	SOIL	—	—	—	—	—	—	—	11	—	0.000847 (J+)
RE00-22-239241	00-61550	58A	South	8–9	QBT3	—	—	—	—	—	—	—	1.89	—	—
RE00-22-239224	00-61553	54A	North	0–1	SOIL	—	—	—	—	—	—	—	1.66	—	0.00124 (J)
RE00-22-239234	00-61553	54A	North	4–5	SOIL	—	—	27 (J)	—	—	—	—	8.7 (J)	—	0.00182 (J)
RE00-22-239244	00-61553	54A	North	6.9–7.9	QBT3	—	—	11.9 (J)	2850	—	—	8.7	2.76	—	0.00668
RE00-22-248888	00-61568	29 5NE	South	0–1	SOIL	—	—	—	—	—	—	—	7.81	—	0.00728 (J+)
RE00-22-248889	00-61568	29 5NE	South	4–5	SOIL	—	—	—	—	—	—	—	3	—	0.00176 (J)
RE00-22-248890	00-61568	29 5NE	South	7–8	QBT3	—	—	—	—	—	—	—	1.29	—	0.000901 (J+)
RE00-22-248891	00-61569	29 5S	North	0–1	SOIL	—	—	—	—	—	—	—	5.62	—	0.000556 (J+)
RE00-22-248892	00-61569	29 5S	North	4–5	SOIL	—	—	—	—	—	—	—	1.62	—	0.000887 (J+)
RE00-22-248893	00-61569	29 5S	North	7–8	QBT3	—	—	—	—	—	—	6.68	1.55	—	0.00104 (J+)
RE00-22-249057	00-61569	29 5S	North	9–10	QBT3	—	—	—	—	—	—	7.75	2.12	—	0.000666 (J+)
RE00-22-249058	00-61569	29 5S	North	11–12	QBT3	—	—	—	—	—	—	7.05	1.52	—	—
RE00-22-248894	00-61570	29 5SE	North	0–1	SOIL	—	—	23.1	—	—	—	—	2.8	—	—
RE00-22-248895	00-61570	29 5SE	North	4–5	SOIL	—	—	—	—	—	—	—	2.33	—	0.00174 (J+)
RE00-22-248896	00-61570	29 5SE	North	7–8	QBT3	—	—	—	—	—	—	—	0.532 (J)	—	—
RE00-22-248897	00-61571	22 5E	North	0–1	SOIL	—	—	—	—	—	—	—	4.68	—	0.00418
RE00-22-248898	00-61571	22 5E	North	4–5	SOIL	—	—	40.1 (J)	—	—	—	—	8.47	—	0.00103 (J)

Table 5.2-1 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Cyanide (Total)	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Nitrate	Nitrite	Perchlorate
Soil BV[b]						**0.5**	**21,500**	**22.3**	**4610**	**671**	**0.1**	**15.4**	**na**	**na**	**na**
Qbt2, 3, 4 BV[b]						**0.5**	**14,500**	**11.2**	**1690**	**482**	**0.1**	**6.58**	**na**	**na**	**na**
Construction Worker SSL[c]						**12.1**	**248,000**	**800**	**na**	**464**	**20.7**	**753**	**566,000**	**35,400**	**248**
Industrial SSL[c]						**63.3**	**908,000**	**800**	**na**	**160,000**	**112**	**25,700**	**2,080,000**	**130,000**	**908**
Recreational SSL[f]						**224**	**434,000**	**1120**	**na**	**14,800**	**186**	**12,400**	**991,000**	**61,900**	**434**
Residential SSL[c]						**11.2**	**54,800**	**400**	**na**	**10,500**	**23.8**	**1560**	**125,000**	**7820**	**54.8**
RE00-22-248899	00-61571	22 5E	North	11.9–12.9	QBT3	—	—	—	—	—	—	—	3.11	—	0.000561 (J)
RE00-22-248900	00-61572	92 5E	South	0–1	SOIL	—	—	22.5 (J+)	—	—	0.272 (J+)	—	4.91	—	0.000844 (J)
RE00-22-248901	00-61572	92 5E	South	3–4	SOIL	—	—	—	—	—	—	—	15.6	—	0.00194 (J)
RE00-22-248902	00-61572	92 5E	South	7.7–8.7	QBT3	—	—	—	—	—	—	8.75	3.29	—	0.00101 (J)
RE00-22-248903	00-61573	92 5N	South	0–1	SOIL	—	—	—	—	—	—	18.2	5.57	—	—
RE00-22-248904	00-61573	92 5N	South	3–4	SOIL	—	—	—	—	—	—	—	12.7	—	0.00136 (J)
RE00-22-248905	00-61573	92 5N	South	7.7–8.7	QBT3	—	—	—	—	—	—	—	2.19	—	—
RE00-22-248906	00-61574	56A 5E	North	0–1	SOIL	—	—	—	—	—	—	—	5.71	—	0.00298
RE00-22-248907	00-61574	56A 5E	North	3–4	SOIL	—	—	—	—	—	—	—	4.63	—	0.000798 (J)
RE00-22-248908	00-61574	56A 5E	North	11.6–12.6	QBT3	—	—	—	—	—	—	—	0.7 (J)	—	—
RE00-22-248909	00-61575	56A 5N	North	0–1	SOIL	—	—	—	—	—	—	—	3.62	—	0.00199
RE00-22-248910	00-61575	56A 5N	North	3–4	SOIL	—	—	28.9 (J+)	—	—	—	—	8.47	—	0.00091 (J)
RE00-22-248911	00-61575	56A 5N	North	11.6–12.6	QBT3	—	—	—	—	—	—	—	0.929 (J)	—	—
RE00-22-248912	00-61576	56A 5W	North	0–1	SOIL	—	—	—	—	—	—	—	3.8	—	0.00708
RE00-22-248913	00-61576	56A 5W	North	3–4	SOIL	—	—	25.8	—	871	—	—	9.94	—	0.00089 (J)
RE00-22-248914	00-61576	56A 5W	North	11.6–12.6	QBT3	—	—	—	—	—	—	—	1.04 (J)	—	—
RE00-22-248915	00-61577	56A 5S	North	0–1	SOIL	—	—	—	—	—	—	—	4.11	—	0.0192
RE00-22-248916	00-61577	56A 5S	North	3–4	SOIL	—	—	—	—	—	—	—	10.7	—	0.0015 (J)
RE00-22-248917	00-61577	56A 5S	North	11.6–12.6	QBT3	—	—	—	—	620	—	7.33	2.47	—	0.000533 (J)
RE00-22-248930	00-61581	2 5S	North	6.5–7.5	QBT3	—	—	—	—	—	—	7.14	0.665 (J)	—	0.000889 (J)
RE00-22-248979	00-61582	2 5SE	North	8.5–9.5	QBT3	—	—	—	—	—	—	—	0.877 (J)	—	0.00058 (J)
RE00-22-248982	00-61582	2 5SE	North	10.5–11.5	QBT3	—	—	—	—	—	—	6.79	1.32	—	0.000975 (J)
RE00-22-248934	00-61583	58 5E	South	0–1	SOIL	—	—	—	—	—	0.158	—	1.73	—	—
RE00-22-248935	00-61583	58 5E	South	4–5	SOIL	—	—	—	—	—	—	—	14.7	—	0.00283
RE00-22-248936	00-61583	58 5E	South	7–8	QBT3	—	—	—	—	—	—	7.92	8.97	—	0.121
RE00-22-255298	00-61584	58 5SW	South	13–14	SOIL	—	—	—	—	—	—	—	9.48	—	1.64
RE00-22-248943	00-61586	94 5S	South	0–1	SOIL	—	—	—	—	—	—	—	20.4	—	0.0114

Table 5.2-1 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Cyanide (Total)	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Nitrate	Nitrite	Perchlorate
Soil BV[b]						**0.5**	**21,500**	**22.3**	**4610**	**671**	**0.1**	**15.4**	**na**	**na**	**na**
Qbt2, 3, 4 BV[b]						**0.5**	**14,500**	**11.2**	**1690**	**482**	**0.1**	**6.58**	**na**	**na**	**na**
Construction Worker SSL[c]						**12.1**	**248,000**	**800**	**na**	**464**	**20.7**	**753**	**566,000**	**35,400**	**248**
Industrial SSL[c]						**63.3**	**908,000**	**800**	**na**	**160,000**	**112**	**25,700**	**2,080,000**	**130,000**	**908**
Recreational SSL[f]						**224**	**434,000**	**1120**	**na**	**14,800**	**186**	**12,400**	**991,000**	**61,900**	**434**
Residential SSL[c]						**11.2**	**54,800**	**400**	**na**	**10,500**	**23.8**	**1560**	**125,000**	**7820**	**54.8**
RE00-22-248944	00-61586	94 5S	South	4–5	SOIL	—	—	—	—	—	—	—	7.68	—	0.00261
RE00-22-248945	00-61586	94 5S	South	9.1–9.9	QBT3	—	—	—	—	—	—	—	2.31	—	0.000968 (J)
RE00-22-248946	00-61587	94 5E	South	0–1	SOIL	—	—	—	—	—	—	—	8.47	—	0.00278
RE00-22-248947	00-61587	94 5E	South	4–5	SOIL	—	—	—	—	—	—	—	3.48	—	0.00228
RE00-22-248948	00-61587	94 5E	South	9.1–9.9	QBT3	—	—	—	—	—	—	8.34	5.84	—	0.0841
RE00-22-249009	00-61587	94 5E	South	10.9–11.9	QBT3	—	—	—	—	—	—	7.1	4.57	—	0.0614 (J+)
RE00-22-249010	00-61587	94 5E	South	12.9–13.9	QBT3	—	—	—	—	—	—	—	4.45	—	0.0664 (J+)
RE00-22-248949	00-61588	94 5W	South	0–1	SOIL	—	—	—	—	—	—	—	8.18	—	0.00344
RE00-22-248950	00-61588	94 5W	South	4–5	SOIL	—	—	—	—	—	—	—	7.28	—	0.00298
RE00-22-248951	00-61588	94 5W	South	9.1–9.9	QBT3	—	—	—	—	—	—	—	1.72	—	0.000653 (J)
RE00-22-248952	00-61589	29 5W	North	0–1	SOIL	—	—	—	—	—	—	—	1.09	—	0.000609 (J)
RE00-22-248953	00-61589	29 5W	North	4–5	SOIL	—	—	—	—	—	—	—	4.18	—	0.00058 (J+)
RE00-22-248954	00-61589	29 5W	North	7–8	QBT3	—	—	—	—	—	—	—	0.581 (J)	—	—
RE00-22-248955	00-61589	29 5W	North	11.5–12.5	QBT3	—	—	—	—	—	—	—	0.709 (J)	—	—
RE00-22-248956	00-61590	95 5W	South	0–1	SOIL	—	—	—	—	—	—	—	1.55	—	0.000711 (J)
RE00-22-248957	00-61590	95 5W	South	3–4	SOIL	—	—	—	—	—	—	—	1.24	—	—
RE00-22-248958	00-61590	95 5W	South	6–7	QBT3	—	—	—	—	—	—	—	—	—	0.000669 (J)
RE00-22-248960	00-61591	1 5S	North	3–4	SOIL	—	—	237 (J)	—	—	—	—	3.06	—	0.000875 (J)
RE00-22-248961	00-61591	1 5S	North	6–7	QBT3	—	—	11.6	—	—	—	6.82	0.668 (J)	—	0.0017 (J)
RE00-22-248962	00-61592	1 5SW	North	0–1	SOIL	—	—	—	—	—	—	—	1.08	—	—
RE00-22-248963	00-61592	1 5SW	North	3–4	SOIL	—	—	—	—	—	—	—	1.41	—	0.000796 (J)
RE00-22-248964	00-61592	1 5SW	North	6–7	QBT3	—	—	—	—	—	—	—	—	—	0.000663 (J)
RE00-22-248965	00-61593	1 5NE	North	0–1	SOIL	—	—	36.5	—	—	—	—	4.18	—	0.000628 (J)
RE00-22-248966	00-61593	1 5NE	North	3–4	SOIL	—	—	36	—	—	—	—	1.36	—	0.000951 (J)
RE00-22-248967	00-61593	1 5NE	North	6–7	QBT3	—	—	16.5 (J-)	—	—	—	—	—	—	0.000776 (J)
RE00-22-248968	00-61594	1 5NW	North	0–1	SOIL	—	—	—	—	—	—	—	0.873 (J)	—	—
RE00-22-248969	00-61594	1 5NW	North	3–4	SOIL	—	25000 (J)	—	—	—	—	—	1.11	—	0.000604 (J)

Table 5.2-1 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Cyanide (Total)	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Nitrate	Nitrite	Perchlorate
Soil BV[b]						**0.5**	**21,500**	**22.3**	**4610**	**671**	**0.1**	**15.4**	**na**	**na**	**na**
Qbt2, 3, 4 BV[b]						**0.5**	**14,500**	**11.2**	**1690**	**482**	**0.1**	**6.58**	**na**	**na**	**na**
Construction Worker SSL[c]						**12.1**	**248,000**	**800**	**na**	**464**	**20.7**	**753**	**566,000**	**35,400**	**248**
Industrial SSL[c]						**63.3**	**908,000**	**800**	**na**	**160,000**	**112**	**25,700**	**2,080,000**	**130,000**	**908**
Recreational SSL[f]						**224**	**434,000**	**1120**	**na**	**14,800**	**186**	**12,400**	**991,000**	**61,900**	**434**
Residential SSL[c]						**11.2**	**54,800**	**400**	**na**	**10,500**	**23.8**	**1560**	**125,000**	**7820**	**54.8**
RE00-22-248970	00-61594	1 5NW	North	6–7	QBT3	—	—	—	—	—	—	—	—	—	0.000582 (J)
RE00-22-248985	00-61599	2 10N	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	1.3	—	0.000801 (J)
RE00-22-248986	00-61600	22 5NE	North	0–1	SOIL	—	—	—	—	—	—	15.9	3.15	—	0.00295
RE00-22-248987	00-61600	22 5NE	North	4–5	SOIL	—	—	34.1 (J)	—	—	—	—	10.8	—	0.00116 (J)
RE00-22-248988	00-61600	22 5NE	North	11.9–12.9	QBT3	—	—	11.7 (J)	—	—	0.145	7.81	2.75	—	0.00064 (J)
RE00-22-248989	00-61601	56A 10W	North	0–1	SOIL	—	—	—	—	—	—	—	6.4	—	0.0163
RE00-22-248990	00-61601	56A 10W	North	3–4	SOIL	—	—	—	—	—	—	—	8	—	0.00151 (J)
RE00-22-248991	00-61601	56A 10W	North	11.6–12.6	QBT3	—	—	—	—	—	—	—	0.847 (J)	—	—
RE00-22-248992	00-61602	94 10SE	South	0–1	SOIL	—	—	—	—	—	—	—	1.69	—	—
RE00-22-248993	00-61602	94 10SE	South	4–5	SOIL	—	—	—	—	—	—	—	0.995 (J)	—	0.00108 (J)
RE00-22-248994	00-61602	94 10SE	South	9.1–9.9	QBT3	—	—	—	—	—	—	—	1.68	—	0.00218
RE00-22-249013	00-61609	94 10S	South	0–1	SOIL	—	—	—	—	—	—	—	10.8	—	0.00284 (J)
RE00-22-249014	00-61609	94 10S	South	4–5	SOIL	—	—	—	—	—	—	—	6.21	—	0.00173 (J+)
RE00-22-249015	00-61609	94 10S	South	9.1–9.9	QBT3	—	—	—	—	—	—	—	2.45	—	0.000618 (J)
RE00-22-249019	00-61611	92 5NW	South	0–1	SOIL	—	—	—	—	—	—	—	1.29	—	—
RE00-22-249020	00-61611	92 5NW	South	3–4	SOIL	—	—	—	—	—	—	—	2.51	—	0.000548 (J)
RE00-22-249021	00-61611	92 5NW	South	7.7–8.7	QBT3	—	—	—	—	—	—	—	0.791 (J)	—	—
RE00-22-249022	00-61612	22 10E	North	0–1	SOIL	—	—	—	—	—	—	—	1.46	—	—
RE00-22-249023	00-61612	22 10E	North	4–5	SOIL	—	—	—	—	—	—	—	4.62	—	0.00226 (J+)
RE00-22-249024	00-61612	22 10E	North	11.9–12.9	QBT3	—	—	21.8 (J)	—	—	—	—	2.96	—	0.00383 (J+)
RE00-22-249032	00-61616	27 5E	North	8.5–9.5	QBT3	—	—	—	—	—	—	—	1.01 (J)	—	0.00219
RE00-22-249031	00-61616	27 5E	North	11.5–12.5	QBT3	—	—	—	—	—	—	—	1.46	—	0.0038
RE00-22-249035	00-61618	2V	North	8–9	QBT3	—	—	69.5	—	—	—	—	0.655 (J)	—	0.000661 (J)
RE00-22-249036	00-61618	2V	North	10–11	QBT3	—	—	260	—	—	—	—	—	—	—
RE00-22-249037	00-61619	58 5N	South	4–5	SOIL	—	—	—	—	—	—	—	7.47	—	—
RE00-22-249038	00-61619	58 5N	South	7–8	QBT3	—	—	12.6 (J+)	—	—	—	7.06 (J+)	6.61	—	—
RE00-22-249064	00-61619	58 5N	South	13.9–14.9	QBT3	—	—	—	—	—	—	7.58	20.2	—	0.0125 (J+)

Table 5.2-1 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Cyanide (Total)	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Nitrate	Nitrite	Perchlorate
Soil BV[b]						**0.5**	**21,500**	**22.3**	**4610**	**671**	**0.1**	**15.4**	**na**	**na**	**na**
Qbt2, 3, 4 BV[b]						**0.5**	**14,500**	**11.2**	**1690**	**482**	**0.1**	**6.58**	**na**	**na**	**na**
Construction Worker SSL[c]						**12.1**	**248,000**	**800**	**na**	**464**	**20.7**	**753**	**566,000**	**35,400**	**248**
Industrial SSL[c]						**63.3**	**908,000**	**800**	**na**	**160,000**	**112**	**25,700**	**2,080,000**	**130,000**	**908**
Recreational SSL[f]						**224**	**434,000**	**1120**	**na**	**14,800**	**186**	**12,400**	**991,000**	**61,900**	**434**
Residential SSL[c]						**11.2**	**54,800**	**400**	**na**	**10,500**	**23.8**	**1560**	**125,000**	**7820**	**54.8**
RE00-22-249065	00-61619	58 5N	South	15.9–16.9	QBT3	—	—	—	—	—	—	—	8.45	—	0.0218
RE00-22-249039	00-61620	00-196	North	9.5–10.5	QBT3	—	—	—	—	—	—	6.63	1.98	—	0.000626 (J)
RE00-22-249040	00-61620	00-196	North	11.5–12.5	QBT3	—	—	16 (J+)	—	—	—	—	1.09	—	—
RE00-22-249041	00-61621	00-61521	North	9–10	QBT3	—	—	—	—	—	—	—	0.873 (J)	—	0.000733 (J)
RE00-22-249042	00-61621	00-61521	North	11–12	QBT3	—	—	—	—	—	—	—	0.669 (J)	—	—
RE00-22-249045	00-61622	22 5SE	North	11.9–12.9	QBT3	—	—	—	—	—	—	8.72	2.33	—	0.0011 (J)
RE00-22-249046	00-61623	17 5S	North	9–10	QBT3	—	—	54.3 (J)	—	—	—	—	0.606 (J)	—	—
RE00-22-249047	00-61623	17 5S	North	11–12	QBT3	—	—	16	—	—	—	—	1.82	—	0.000573 (J)
RE00-22-249048	00-61624	00-212	North	8–9	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-249049	00-61624	00-212	North	10–11	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-249050	00-61625	00-61553	North	9–10	QBT3	—	—	—	—	—	—	—	1.01 (J)	—	0.000809 (J)
RE00-22-249051	00-61625	00-61553	North	11–12	QBT3	—	—	—	—	—	—	—	1.23	—	—
RE00-22-249025	00-61625	00-61553	North	13–14	QBT3	—	—	—	—	—	—	—	2.4	—	0.00111 (J+)
RE00-22-249026	00-61625	00-61553	North	15–16	QBT3	—	—	—	—	—	—	—	1.37	—	—
RE00-22-249053	00-61626	27 5W	North	8.5–9.5	QBT3	—	—	—	—	—	—	—	0.7 (J)	—	—
RE00-22-249052	00-61626	27 5W	North	11.5–12.5	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-249054	00-61627	27 5N	North	8.5–9.5	QBT3	—	—	—	—	—	—	—	0.707 (J)	—	0.000584 (J)
RE00-22-249055	00-61627	27 5N	North	11.5–12.5	QBT3	—	—	—	—	—	—	—	0.599 (J)	—	0.00192
RE00-22-249056	00-61628	92 5S	South	7.7–8.7	QBT3	—	—	—	—	—	—	—	1.84	—	—
RE00-22-249059	00-61630	00-210	North	9–10	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-249060	00-61630	00-210	North	11–12	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-250910	00-61651	2 10NW	North	0–1	SOIL	—	—	32.3 (J)	—	—	—	—	1.69	—	—
RE00-22-250911	00-61651	2 10NW	North	3–4	SOIL	—	—	153 (J)	—	—	0.237 (J)	—	—	—	0.000814 (J)
RE00-22-250912	00-61651	2 10NW	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-250916	00-61653	2 10SE	North	0–1	SOIL	—	—	109 (J)	—	—	—	—	6.39	—	—
RE00-22-250917	00-61653	2 10SE	North	3–4	SOIL	—	—	122 (J)	—	—	—	—	3.95	—	0.0006 (J)
RE00-22-250918	00-61653	2 10SE	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	0.805 (J)	—	0.000611 (J)

Table 5.2-1 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Cyanide (Total)	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Nitrate	Nitrite	Perchlorate
Soil BV[b]						**0.5**	**21,500**	**22.3**	**4610**	**671**	**0.1**	**15.4**	**na**	**na**	**na**
Qbt2, 3, 4 BV[b]						**0.5**	**14,500**	**11.2**	**1690**	**482**	**0.1**	**6.58**	**na**	**na**	**na**
Construction Worker SSL[c]						**12.1**	**248,000**	**800**	**na**	**464**	**20.7**	**753**	**566,000**	**35,400**	**248**
Industrial SSL[c]						**63.3**	**908,000**	**800**	**na**	**160,000**	**112**	**25,700**	**2,080,000**	**130,000**	**908**
Recreational SSL[f]						**224**	**434,000**	**1120**	**na**	**14,800**	**186**	**12,400**	**991,000**	**61,900**	**434**
Residential SSL[c]						**11.2**	**54,800**	**400**	**na**	**10,500**	**23.8**	**1560**	**125,000**	**7820**	**54.8**
RE00-22-250919	00-61654	1 10SW	North	0–1	SOIL	—	—	—	—	—	—	—	1.29	—	—
RE00-22-250920	00-61654	1 10SW	North	3–4	SOIL	—	—	—	—	—	—	—	1.24	—	0.000642 (J)
RE00-22-250921	00-61654	1 10SW	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	0.952 (J)	—	0.000688 (J)
RE00-22-250922	00-61655	22 10SE	North	0–1	SOIL	—	—	—	—	—	—	—	7.71	—	0.00716
RE00-22-250923	00-61655	22 10SE	North	4–5	SOIL	—	—	—	—	—	—	—	6.93	—	0.00648
RE00-22-250924	00-61655	22 10SE	North	11.9–12.9	QBT3	—	—	—	—	—	—	—	0.902 (J)	—	0.000803 (J)
RE00-22-250928	00-61657	22 10S	North	0–1	SOIL	—	—	—	—	—	—	—	5.72	—	0.00251 (J+)
RE00-22-250929	00-61657	22 10S	North	4–5	SOIL	—	—	—	—	—	—	—	4	—	0.00304 (J+)
RE00-22-250930	00-61657	22 10S	North	11.9–12.9	QBT3	—	—	—	—	—	—	—	1.04	—	0.000924 (J+)
RE00-22-250931	00-61658	56A 10S	North	0–1	SOIL	—	—	—	—	—	—	—	10.6	—	0.029 (J+)
RE00-22-250932	00-61658	56A 10S	North	3–4	SOIL	—	—	—	—	—	—	—	10.5	—	0.00127 (J+)
RE00-22-250933	00-61658	56A 10S	North	11.6–12.6	QBT3	—	—	—	—	—	—	—	5.43	—	0.000824 (J+)
RE00-22-250934	00-61659	56A 10SE	North	0–1	SOIL	—	—	—	—	—	—	—	7.04	—	0.0279 (J+)
RE00-22-250935	00-61659	56A 10SE	North	3–4	SOIL	—	—	32.1 (J)	—	—	—	—	5.56	—	0.000709 (J+)
RE00-22-250936	00-61659	56A 10SE	North	11.6–12.6	QBT3	—	—	—	—	—	—	—	1.21	—	—
RE00-22-250937	00-61660	56A 10SW	North	0–1	SOIL	—	—	—	—	—	—	—	6.68	—	0.0186
RE00-22-250938	00-61660	56A 10SW	North	3–4	SOIL	—	—	—	—	—	—	—	8.56	—	0.00134 (J)
RE00-22-250939	00-61660	56A 10SW	North	11.6–12.6	QBT3	—	—	—	—	—	—	—	1.46	—	0.000841 (J)
RE00-22-250940	00-61661	94 10SW	South	0–1	SOIL	—	—	—	—	—	—	—	8.59	—	0.00318
RE00-22-250941	00-61661	94 10SW	South	4–5	SOIL	—	—	—	—	1140 (J)	—	—	2.97	—	0.00309
RE00-22-250942	00-61661	94 10SW	South	9.1–9.9	QBT3	—	—	—	—	—	—	9.23	4.23	—	0.00197 (J)
RE00-22-252842	00-61700	2 14N	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	0.000879 (J)
RE00-22-252845	00-61701	2 15NNE	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-253161	00-61705	29 10S	North	0–1	SOIL	—	—	—	—	—	—	—	2.09	—	0.000994 (J)
RE00-22-253162	00-61705	29 10S	North	4–5	SOIL	—	—	—	—	—	—	—	2.67	—	—
RE00-22-253163	00-61705	29 10S	North	7–8	SOIL	—	—	—	—	—	—	—	1.24	—	0.00109 (J)
RE00-22-253164	00-61705	29 10S	North	9–10	SOIL	—	—	—	—	—	—	—	0.939 (J)	—	—

Table 5.2-1 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Cyanide (Total)	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Nitrate	Nitrite	Perchlorate
Soil BV[b]						**0.5**	**21,500**	**22.3**	**4610**	**671**	**0.1**	**15.4**	**na**	**na**	**na**
Qbt2, 3, 4 BV[b]						**0.5**	**14,500**	**11.2**	**1690**	**482**	**0.1**	**6.58**	**na**	**na**	**na**
Construction Worker SSL[c]						**12.1**	**248,000**	**800**	**na**	**464**	**20.7**	**753**	**566,000**	**35,400**	**248**
Industrial SSL[c]						**63.3**	**908,000**	**800**	**na**	**160,000**	**112**	**25,700**	**2,080,000**	**130,000**	**908**
Recreational SSL[f]						**224**	**434,000**	**1120**	**na**	**14,800**	**186**	**12,400**	**991,000**	**61,900**	**434**
Residential SSL[c]						**11.2**	**54,800**	**400**	**na**	**10,500**	**23.8**	**1560**	**125,000**	**7820**	**54.8**
RE00-22-253165	00-61705	29 10S	North	11–12	QBT3	—	—	—	—	—	—	—	0.808 (J)	—	—
RE00-22-253167	00-61706	29 10WSW	North	0–1	SOIL	—	—	—	—	—	—	—	1.89	—	—
RE00-22-253168	00-61706	29 10WSW	North	4–5	SOIL	—	—	—	—	—	—	—	1.5	—	0.000721 (J+)
RE00-22-253169	00-61706	29 10WSW	North	7–8	QBT3	—	—	—	—	—	—	—	0.627 (J)	—	—
RE00-22-253170	00-61706	29 10WSW	North	9–10	QBT3	—	—	—	—	—	—	—	0.707 (J)	—	—
RE00-22-253171	00-61706	29 10WSW	North	11–12	QBT3	—	—	—	—	—	—	—	0.58 (J)	—	—
RE00-22-253172	00-61707	29 10SE	North	0–1	SOIL	—	—	—	—	—	—	—	8.07	—	0.00367
RE00-22-253173	00-61707	29 10SE	North	4–5	SOIL	—	—	39.9	—	—	—	—	8.7	—	0.000871 (J)
RE00-22-253174	00-61707	29 10SE	North	7–8	SOIL	—	—	—	—	—	—	—	6.26	—	—
RE00-22-253175	00-61707	29 10SE	North	9–10	SOIL	—	—	—	—	—	—	—	6.09	—	0.000828 (J)
RE00-22-253176	00-61707	29 10SE	North	11–12	QBT3	—	—	—	—	—	—	—	2.62	—	—
RE00-22-253177	00-61708	29 15SW	North	0–1	SOIL	—	—	—	—	—	—	—	6.84	—	0.000785 (J)
RE00-22-253178	00-61708	29 15SW	North	4–5	SOIL	—	—	—	—	—	—	—	0.797 (J)	—	—
RE00-22-253179	00-61708	29 15SW	North	7–8	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-253180	00-61708	29 15SW	North	9–10	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-253181	00-61708	29 15SW	North	11–12	QBT3	—	—	—	—	—	—	—	0.695 (J)	—	—
RE00-22-253182	00-61709	56A 5WV	North	13.6–14.6	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-253184	00-61711	56A 10NW	North	0–1	SOIL	—	—	—	—	—	—	—	0.827 (J)	—	—
RE00-22-253185	00-61711	56A 10NW	North	3–4	SOIL	—	—	—	—	692 (J)	—	—	7.72	—	0.00123 (J+)
RE00-22-253186	00-61711	56A 10NW	North	11.6–12.6	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-253190	00-61712	94 15SW	South	0–1	SOIL	—	—	—	—	—	—	—	1.38	—	—
RE00-22-253191	00-61712	94 15SW	South	4–5	SOIL	—	—	—	—	—	—	—	2.38	—	0.00325 (J+)
RE00-22-253192	00-61712	94 15SW	South	9.1–9.9	QBT3	—	—	—	—	—	—	7.3	3.18	—	0.00197 (J+)
RE00-22-253193	00-61713	94 15WSW	South	0–1	SOIL	—	—	—	—	—	—	—	9.92	—	0.00188 (J+)
RE00-22-253194	00-61713	94 15WSW	South	4–5	SOIL	—	—	—	—	—	—	—	5.48	—	0.00174 (J+)
RE00-22-253195	00-61713	94 15WSW	South	9.1–9.9	SOIL	—	—	—	—	—	—	—	1.45	—	0.00156 (J+)
RE00-22-253196	00-61714	94 10W	South	0–1	SOIL	—	—	—	—	—	—	—	2.97	—	0.000995 (J+)

Table 5.2-1 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Cyanide (Total)	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Nitrate	Nitrite	Perchlorate
Soil BV[b]						**0.5**	**21,500**	**22.3**	**4610**	**671**	**0.1**	**15.4**	**na**	**na**	**na**
Qbt2, 3, 4 BV[b]						**0.5**	**14,500**	**11.2**	**1690**	**482**	**0.1**	**6.58**	**na**	**na**	**na**
Construction Worker SSL[c]						**12.1**	**248,000**	**800**	**na**	**464**	**20.7**	**753**	**566,000**	**35,400**	**248**
Industrial SSL[c]						**63.3**	**908,000**	**800**	**na**	**160,000**	**112**	**25,700**	**2,080,000**	**130,000**	**908**
Recreational SSL[f]						**224**	**434,000**	**1120**	**na**	**14,800**	**186**	**12,400**	**991,000**	**61,900**	**434**
Residential SSL[c]						**11.2**	**54,800**	**400**	**na**	**10,500**	**23.8**	**1560**	**125,000**	**7820**	**54.8**
RE00-22-253197	00-61714	94 10W	South	4–5	SOIL	—	—	—	—	—	—	—	5	—	0.00151 (J+)
RE00-22-253198	00-61714	94 10W	South	9.1–9.9	QBT3	—	—	—	—	—	—	7.34	3.33	—	0.000866 (J+)
RE00-22-253202	00-61716	58 10S	South	0–1	SOIL	—	—	—	—	—	0.108	—	13	—	0.0112 (J+)
RE00-22-253203	00-61716	58 10S	South	4–5	QBT3	—	—	—	—	—	—	—	3.28	—	0.0148 (J+)
RE00-22-253204	00-61716	58 10S	South	7–8	QBT3	—	—	—	—	—	—	—	5.97	—	0.00439 (J+)
RE00-22-253205	00-61716	58 10S	South	9–10	QBT3	—	—	—	—	—	—	—	0.794 (J)	—	0.0019 (J+)
RE00-22-253206	00-61716	58 10S	South	11–12	QBT3	—	—	—	—	—	—	—	1.48	—	0.00461 (J+)
RE00-22-253207	00-61717	58 10SE	South	0–1	SOIL	—	—	—	—	—	—	—	5.22 (J)	—	0.00093 (J)
RE00-22-253208	00-61717	58 10SE	South	4–5	QBT3	—	—	—	—	—	—	—	7.87 (J)	—	0.0107
RE00-22-253209	00-61717	58 10SE	South	7–8	QBT3	—	—	—	—	—	—	—	4.88 (J)	—	0.00383
RE00-22-253210	00-61717	58 10SE	South	9–10	QBT3	—	—	—	—	—	—	—	2.13 (J)	—	0.0271
RE00-22-253211	00-61717	58 10SE	South	11–12	QBT3	—	—	32.8 (J+)	—	—	—	—	2.42 (J)	—	0.0349
RE00-22-255274	00-61722	2 25ENE	North	0–1	SOIL	—	—	—	—	—	—	—	1.27	—	—
RE00-22-255275	00-61722	2 25ENE	North	3–4	SOIL	—	—	—	—	—	—	—	9.08	—	0.00389 (J+)
RE00-22-255276	00-61722	2 25ENE	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	0.808 (J)	—	—
RE00-22-255285	00-61725	2 19N	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-255286	00-61726	2 15NW	North	0–1	SOIL	—	—	34.5	—	—	—	—	0.99 (J)	—	—
RE00-22-255287	00-61726	2 15NW	North	3–4	SOIL	—	—	31.6	—	—	—	—	0.588 (J)	—	—
RE00-22-255288	00-61726	2 15NW	North	6.5–7.5	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-22-255289	00-61727	2 20NW	North	0–1	SOIL	—	—	74.7	—	—	—	—	1.03 (J)	—	0.000739 (J)
RE00-22-255290	00-61727	2 20NW	North	3–4	SOIL	—	—	43	—	—	—	—	0.776 (J)	—	0.000693 (J)
RE00-22-255291	00-61727	2 20NW	North	6.5–7.5	SOIL	—	—	—	—	—	—	—	—	—	0.000643 (J)
RE00-22-255294	00-61728	2 24N	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-22-255295	00-61729	2 24NE	North	0–1	SOIL	—	—	—	—	—	—	—	1.2	—	—
RE00-22-255296	00-61729	2 24NE	North	3–4	SOIL	—	—	—	—	—	—	—	0.659 (J)	—	—
RE00-22-255297	00-61729	2 24NE	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	0.00057 (J)
RE00-23-259861	00-61736	SE3	North	0–1	SOIL	—	—	—	—	—	—	—	5.03	—	0.000527 (J)

Table 5.2-1 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Cyanide (Total)	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Nitrate	Nitrite	Perchlorate
Soil BV[b]						**0.5**	**21,500**	**22.3**	**4610**	**671**	**0.1**	**15.4**	**na**	**na**	**na**
Qbt2, 3, 4 BV[b]						**0.5**	**14,500**	**11.2**	**1690**	**482**	**0.1**	**6.58**	**na**	**na**	**na**
Construction Worker SSL[c]						**12.1**	**248,000**	**800**	**na**	**464**	**20.7**	**753**	**566,000**	**35,400**	**248**
Industrial SSL[c]						**63.3**	**908,000**	**800**	**na**	**160,000**	**112**	**25,700**	**2,080,000**	**130,000**	**908**
Recreational SSL[f]						**224**	**434,000**	**1120**	**na**	**14,800**	**186**	**12,400**	**991,000**	**61,900**	**434**
Residential SSL[c]						**11.2**	**54,800**	**400**	**na**	**10,500**	**23.8**	**1560**	**125,000**	**7820**	**54.8**
RE00-23-259862	00-61736	SE3	North	3–4	SOIL	—	—	—	—	—	—	—	1.16	0.671 (J)	—
RE00-23-259863	00-61736	SE3	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	0.794 (J)	—	—
RE00-23-259864	00-61737	NE2	North	0–1	SOIL	—	—	45.6	—	—	—	—	1.13 (J)	—	—
RE00-23-259866	00-61737	NE2	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	0.00305
RE00-23-259867	00-61738	NE1	North	0–1	SOIL	—	—	66	—	—	—	—	4.31 (J)	—	—
RE00-23-259868	00-61738	NE1	North	3–4	SOIL	—	24400	28.7	—	—	—	—	—	—	—
RE00-23-259869	00-61738	NE1	North	6.5–7.5	QBT3	—	—	42.3	—	—	—	6.9	—	—	—
RE00-23-282088	00-61739	NE6	North	17–18	QBT3	—	—	46.3 (J)	—	—	—	—	0.647 (J)	—	—
RE00-23-282089	00-61739	NE6	North	19–20	QBT3	—	—	52.9 (J)	—	—	—	—	0.594 (J)	—	—
RE00-23-259873	00-61740	2 25NW	North	0–1	SOIL	—	—	36.8	—	—	—	—	0.542 (J)	—	—
RE00-23-259874	00-61740	2 25NW	North	3–4	SOIL	—	—	33.8	—	—	—	—	—	—	—
RE00-23-259875	00-61740	2 25NW	North	6.5–7.5	QBT3	—	—	12.7	—	—	—	—	—	—	—
RE00-23-259876	00-61741	N1	North	0–1	SOIL	—	—	23.6	—	—	—	—	0.941 (J)	—	0.00119 (J)
RE00-23-259877	00-61741	N1	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-23-259878	00-61741	N1	North	6.5–7.5	QBT3	—	—	31.6	—	—	—	—	—	—	—
RE00-23-259882	00-61743	SE2	North	0–1	SOIL	—	—	—	—	—	—	—	4.49	—	0.000782 (J)
RE00-23-259883	00-61743	SE2	North	3–4	SOIL	—	—	—	—	—	—	—	1.93	0.717 (J)	—
RE00-23-259884	00-61743	SE2	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	0.783 (J)	—	—
RE00-23-265182	00-61744	N2	North	0–1	SOIL	—	—	—	—	—	—	—	0.874 (J)	—	—
RE00-23-265183	00-61744	N2	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-23-265184	00-61744	N2	North	6.5–7.5	QBT3	—	—	42.5	—	—	—	—	—	—	—
RE00-23-265179	00-61745	NE10	North	0–1	SOIL	—	—	—	—	—	—	—	2.02	—	—
RE00-23-265180	00-61745	NE10	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	0.000443 (J)
RE00-23-264877	00-61745	NE10	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-23-264878	00-61746	N5	North	0–1	SOIL	—	—	—	—	—	—	—	4.63 (J)	—	—
RE00-23-264879	00-61746	N5	North	3–4	SOIL	—	—	—	—	—	—	—	0.539 (J)	—	—
RE00-23-264880	00-61746	N5	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	—

Table 5.2-1 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Cyanide (Total)	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Nitrate	Nitrite	Perchlorate
Soil BV[b]						**0.5**	**21,500**	**22.3**	**4610**	**671**	**0.1**	**15.4**	**na**	**na**	**na**
Qbt2, 3, 4 BV[b]						**0.5**	**14,500**	**11.2**	**1690**	**482**	**0.1**	**6.58**	**na**	**na**	**na**
Construction Worker SSL[c]						**12.1**	**248,000**	**800**	**na**	**464**	**20.7**	**753**	**566,000**	**35,400**	**248**
Industrial SSL[c]						**63.3**	**908,000**	**800**	**na**	**160,000**	**112**	**25,700**	**2,080,000**	**130,000**	**908**
Recreational SSL[f]						**224**	**434,000**	**1120**	**na**	**14,800**	**186**	**12,400**	**991,000**	**61,900**	**434**
Residential SSL[c]						**11.2**	**54,800**	**400**	**na**	**10,500**	**23.8**	**1560**	**125,000**	**7820**	**54.8**
RE00-23-264881	00-61747	N4	North	0–1	SOIL	—	—	—	—	—	—	—	1.8 (J)	—	—
RE00-23-264882	00-61747	N4	North	3–4	SOIL	—	—	—	—	—	—	—	4.7 (J)	—	—
RE00-23-264883	00-61747	N4	North	6.5–7.5	QBT3	—	—	18.8	3540	—	—	11.8	—	—	—
RE00-23-264884	00-61748	NE4	North	0–1	SOIL	—	—	29.3 (J)	—	—	—	—	1.61	—	—
RE00-23-264885	00-61748	NE4	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-23-264886	00-61748	NE4	North	6.5–7.5	SOIL	—	—	—	—	—	—	—	—	—	0.00101 (J)
RE00-23-265185	00-61749	N3	North	0–1	SOIL	—	—	—	—	—	—	—	0.799 (J)	—	—
RE00-23-265187	00-61749	N3	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-23-265188	00-61750	NE3	North	0–1	SOIL	—	—	—	—	—	—	—	1.94	—	0.000687 (J)
RE00-23-265189	00-61750	NE3	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	0.00169 (J)
RE00-23-265190	00-61750	NE3	North	6.5–7.5	QBT3	—	—	37.3	—	—	—	—	—	—	0.000452 (J)
RE00-23-264893	00-61751	2 20NEV	North	9–10	QBT3	—	—	69.7 (J)	—	—	—	—	1.13	—	0.000512 (J)
RE00-23-264894	00-61751	2 20NEV	North	11–12	QBT3	—	—	30 (J)	—	—	—	—	0.906 (J)	—	0.000525 (J)
RE00-23-264896	00-61752	N6	North	0–1	SOIL	—	—	38.2	—	—	—	—	1.06	—	0.00147 (J)
RE00-23-264897	00-61752	N6	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-23-264898	00-61752	N6	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-23-264899	00-61753	NE5	North	0–1	SOIL	—	—	39.4	—	—	—	—	0.621 (J)	—	—
RE00-23-264901	00-61753	NE5	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-23-264902	00-61754	SE1V	North	9–10	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-23-264903	00-61754	SE1V	North	11–12	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-23-264908	00-61756	SE10	North	0–1	SOIL	—	—	—	—	—	—	—	2.73	—	—
RE00-23-264909	00-61756	SE10	North	3–4	SOIL	—	—	—	—	—	—	—	1.83	—	0.00193
RE00-23-264910	00-61756	SE10	North	5–6	QBT3	—	—	—	—	—	—	—	1.21	2.42	—
RE00-23-267856	00-61757	SE4	North	0–1	SOIL	—	—	—	—	—	—	—	3.84	—	0.000763 (J)
RE00-23-267857	00-61757	SE4	North	3–4	SOIL	—	—	50.1 (J+)	—	—	—	—	1.43	—	—
RE00-23-267858	00-61757	SE4	North	6.5–7.5	QBT3	—	—	33.5 (J+)	—	—	—	—	1.06	—	—
RE00-23-267859	00-61758	SE7	North	0–1	SOIL	—	—	—	—	—	—	—	2.42	—	0.00061 (J)

Table 5.2-1 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Cyanide (Total)	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Nitrate	Nitrite	Perchlorate
Soil BV[b]						**0.5**	**21,500**	**22.3**	**4610**	**671**	**0.1**	**15.4**	**na**	**na**	**na**
Qbt2, 3, 4 BV[b]						**0.5**	**14,500**	**11.2**	**1690**	**482**	**0.1**	**6.58**	**na**	**na**	**na**
Construction Worker SSL[c]						**12.1**	**248,000**	**800**	**na**	**464**	**20.7**	**753**	**566,000**	**35,400**	**248**
Industrial SSL[c]						**63.3**	**908,000**	**800**	**na**	**160,000**	**112**	**25,700**	**2,080,000**	**130,000**	**908**
Recreational SSL[f]						**224**	**434,000**	**1120**	**na**	**14,800**	**186**	**12,400**	**991,000**	**61,900**	**434**
Residential SSL[c]						**11.2**	**54,800**	**400**	**na**	**10,500**	**23.8**	**1560**	**125,000**	**7820**	**54.8**
RE00-23-267860	00-61758	SE7	North	3–4	SOIL	—	—	37.9 (J+)	—	—	—	—	2.61	—	0.000653 (J)
RE00-23-267861	00-61758	SE7	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	0.754	—	—
RE00-23-267871	00-61762	NE7	North	0–1	SOIL	—	—	—	—	—	—	—	0.743 (J)	—	—
RE00-23-267872	00-61762	NE7	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-23-267873	00-61762	NE7	North	6–7	QBT3	—	—	21.9 (J)	—	—	—	—	—	—	—
RE00-23-267874	00-61763	NE28	North	0–1	SOIL	—	—	—	—	—	—	—	0.944 (J)	—	0.00063 (J)
RE00-23-267876	00-61763	NE28	North	5–6	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-23-267877	00-61764	NE23	North	0–1	SOIL	—	—	36.1	—	—	—	—	4.42	0.377 (J)	0.000564 (J)
RE00-23-267878	00-61764	NE23	North	3–4	SOIL	—	—	—	—	—	—	—	0.402 (J)	—	—
RE00-23-267879	00-61764	NE23	North	5–6	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-23-267882	00-61765	NE24	North	5–6	QBT3	0.569	—	—	—	—	—	—	—	—	—
RE00-23-267886	00-61767	NE26	North	0–1	SOIL	—	—	—	—	—	—	—	0.712 (J)	—	—
RE00-23-267887	00-61767	NE26	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	0.0015 (J)
RE00-23-267888	00-61767	NE26	North	5–6	QBT3	—	—	—	—	—	—	—	—	—	0.00155 (J)
RE00-23-267889	00-61768	NE29	North	0.5–1.5	SOIL	—	—	—	—	—	—	—	2.39	—	0.000674 (J)
RE00-23-267890	00-61768	NE29	North	3.5–4.5	QBT3	—	—	—	—	—	—	—	0.722 (J)	—	—
RE00-23-267891	00-61768	NE29	North	5.5–6.5	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-23-271182	00-61775	NE34	North	3.5–4.5	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-23-271183	00-61775	NE34	North	5.5–6.5	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-23-271187	00-61776	NE25	North	5–6	QBT3	—	—	—	—	—	—	—	—	—	0.000459 (J)
RE00-23-271191	00-61778	NE37	North	2–4	SOIL	—	—	—	—	—	—	—	0.676 (J)	—	0.000806 (J)
RE00-23-271192	00-61778	NE37	North	4–5	QBT3	—	—	—	—	—	—	—	—	—	0.000999 (J)
RE00-23-271196	00-61779	SE11	North	6.5–7.5	QBT3	—	—	18.1	—	—	—	—	0.761 (J)	—	—
RE00-23-271197	00-61780	NE20	North	0–1	SOIL	—	—	31.7	—	—	—	—	1.65	—	—
RE00-23-271198	00-61780	NE20	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-23-271199	00-61780	NE20	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-23-271200	00-61781	NE21	North	0–1	SOIL	—	—	41.6	—	—	—	—	1.36	—	0.000604 (J)

Table 5.2-1 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Cyanide (Total)	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Nitrate	Nitrite	Perchlorate
Soil BV[b]						**0.5**	**21,500**	**22.3**	**4610**	**671**	**0.1**	**15.4**	**na**	**na**	**na**
Qbt2, 3, 4 BV[b]						**0.5**	**14,500**	**11.2**	**1690**	**482**	**0.1**	**6.58**	**na**	**na**	**na**
Construction Worker SSL[c]						**12.1**	**248,000**	**800**	**na**	**464**	**20.7**	**753**	**566,000**	**35,400**	**248**
Industrial SSL[c]						**63.3**	**908,000**	**800**	**na**	**160,000**	**112**	**25,700**	**2,080,000**	**130,000**	**908**
Recreational SSL[f]						**224**	**434,000**	**1120**	**na**	**14,800**	**186**	**12,400**	**991,000**	**61,900**	**434**
Residential SSL[c]						**11.2**	**54,800**	**400**	**na**	**10,500**	**23.8**	**1560**	**125,000**	**7820**	**54.8**
RE00-23-271201	00-61781	NE21	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	0.00087 (J)
RE00-23-271202	00-61781	NE21	North	6.5–7.5	SOIL	—	—	—	—	—	—	—	—	—	0.00301
RE00-23-271203	00-61782	NE54	North	0–1	SOIL	—	—	44.1	—	—	—	—	2.4	—	—
RE00-23-271205	00-61782	NE54	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	—
RE00-23-271206	00-61783	NE53	North	0–1	SOIL	—	—	25.4	—	—	—	—	1.6	—	0.00051 (J)
RE00-23-271207	00-61783	NE53	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	0.000835 (J)
RE00-23-271208	00-61783	NE53	North	6.5–7.5	QBT3	—	—	30.1	—	—	—	—	—	—	0.00591
RE00-23-271209	00-61784	SE14	North	0–1	SOIL	—	—	35.5	—	—	—	—	1.56	—	0.000467 (J)
RE00-23-271210	00-61784	SE14	North	3–4	SOIL	—	—	—	—	—	—	—	2.14	—	0.00114 (J)
RE00-23-271211	00-61784	SE14	North	5–6	QBT3	—	—	—	—	—	—	—	0.675 (J)	—	0.000566 (J)
RE00-23-271212	00-61785	SE13	North	2–3	SOIL	—	—	—	—	—	—	—	2.46	0.411 (J)	0.00195 (J+)
RE00-23-271213	00-61785	SE13	North	4–5	QBT3	—	—	—	—	—	—	—	1.8	—	—
RE00-23-271215	00-61786	SE12	North	0–1	SOIL	—	—	38.8	—	—	—	—	8.25	—	0.000501 (J)
RE00-23-271216	00-61786	SE12	North	3–4	SOIL	—	—	25.8	—	—	—	—	5.2	—	0.000841 (J)
RE00-23-271217	00-61786	SE12	North	11–12	QBT3	—	—	12.4	—	—	—	—	1.28	—	0.000521 (J)
RE00-23-271218	00-61787	SE15	North	0–1	SOIL	—	—	—	—	—	—	—	2.42	—	0.000573 (J+)
RE00-23-271219	00-61787	SE15	North	3–4	SOIL	—	—	35.7 (J)	—	—	—	—	3.31	—	0.000588 (J+)
RE00-23-271220	00-61787	SE15	North	11.5–12.5	QBT3	—	—	15.2 (J)	—	—	—	—	1.1	—	—
RE00-23-271227	00-61790	NE45	North	0.5–1.5	SOIL	—	—	29.9	—	—	—	—	2.6	—	—
RE00-23-271228	00-61790	NE45	North	2.5–3.5	QBT3	—	—	41.3	—	—	—	—	1.52	—	—
RE00-23-271230	00-61791	NE47	North	1–2	SOIL	—	—	—	—	—	—	—	3.03	—	0.0015 (J)
RE00-23-271231	00-61791	NE47	North	2.5–3.5	QBT3	—	—	—	—	—	—	—	0.919 (J)	—	—
RE00-23-271233	00-61792	NE55	North	0–1	SOIL	—	—	31.9	—	—	—	—	1.24	0.653 (J)	0.00053 (J)
RE00-23-271234	00-61792	NE55	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	—
RE00-23-271235	00-61792	NE55	North	6.5–7.5	QBT3	—	—	21.4	—	—	—	—	—	—	—
RE00-23-271237	00-61793	NE38	North	5–6	QBT3	—	—	73.7 (J)	—	—	—	—	—	—	—
RE00-23-271239	00-61794	NE39	North	0.5–1.5	SOIL	—	—	—	—	—	—	—	0.65 (J)	—	—

Table 5.2-1 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Cyanide (Total)	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Nitrate	Nitrite	Perchlorate
Soil BV[b]						**0.5**	**21,500**	**22.3**	**4610**	**671**	**0.1**	**15.4**	**na**	**na**	**na**
Qbt2, 3, 4 BV[b]						**0.5**	**14,500**	**11.2**	**1690**	**482**	**0.1**	**6.58**	**na**	**na**	**na**
Construction Worker SSL[c]						**12.1**	**248,000**	**800**	**na**	**464**	**20.7**	**753**	**566,000**	**35,400**	**248**
Industrial SSL[c]						**63.3**	**908,000**	**800**	**na**	**160,000**	**112**	**25,700**	**2,080,000**	**130,000**	**908**
Recreational SSL[f]						**224**	**434,000**	**1120**	**na**	**14,800**	**186**	**12,400**	**991,000**	**61,900**	**434**
Residential SSL[c]						**11.2**	**54,800**	**400**	**na**	**10,500**	**23.8**	**1560**	**125,000**	**7820**	**54.8**
RE00-23-271240	00-61794	NE39	North	2–3	QBT3	—	—	61	—	—	—	—	—	—	—
RE00-23-271242	00-61795	NE48	North	3.5–4.5	QBT3	—	—	—	—	—	—	—	3.02	—	0.00078 (J)
RE00-23-271243	00-61795	NE48	North	5.5–6.5	QBT3	—	—	—	—	—	—	—	1.51	—	0.00105 (J)
RE00-23-271248	00-61797	NE56	North	0–1	SOIL	—	—	—	—	—	—	—	0.528 (J)	—	—
RE00-23-271249	00-61797	NE56	North	2–3	QBT3	—	—	15.2	—	—	—	—	—	—	—
RE00-23-282091	00-61799	NE60	North	0–1	SOIL	—	—	78.4	—	—	—	—	—	—	—
RE00-23-282092	00-61799	NE60	North	2–3	QBT3	—	—	25.5	—	—	—	—	—	—	—
RE00-23-289091	00-61804	NE68	North	0–1	SOIL	—	—	—	—	—	NA	—	0.724 (J)	—	—
RE00-23-289092	00-61804	NE68	North	2–3	QBT3	—	—	—	—	—	NA	—	0.854 (J)	—	—
RE00-23-289873	00-61805	NE64	North	18–19	QBT3	—	—	78.7	—	—	NA	7.25	0.591 (J)	—	—
RE00-23-282118	00-61808	NE66	North	0–1	SOIL	—	—	—	—	—	—	—	0.659 (J)	—	—
RE00-23-282119	00-61808	NE66	North	2–3	QBT3	—	—	55.8	—	—	—	—	0.674 (J)	—	—
RE00-23-289205	00-61811	NE67	North	0–1	SOIL	—	—	—	—	—	NA	—	1.46	—	—
RE00-23-289206	00-61811	NE67	North	2–3	QBT3	—	—	—	—	—	NA	—	0.689 (J)	—	—
RE00-23-289519	00-61813	NE80	North	0–1	SOIL	—	—	—	—	—	NA	—	0.589 (J)	—	—
RE00-23-289520	00-61813	NE80	North	2–3	SOIL	1	—	—	—	—	NA	—	1.69	0.697 (J)	—
RE00-23-289510	00-61815	NE74	North	0–1	SOIL	—	—	—	—	—	—	—	0.934 (J)	—	—
RE00-23-289511	00-61815	NE74	North	2–3	SOIL	—	—	48.4 (J)	—	—	—	—	0.719 (J)	—	—
RE00-23-289513	00-61816	NE79	North	0–1	SOIL	—	—	—	—	—	—	—	0.776 (J)	—	—
RE00-23-289514	00-61816	NE79	North	2–3	SOIL	0.8	—	—	—	—	—	—	1.29	0.935 (J)	—
RE00-23-289516	00-61817	NE81	North	0–1	SOIL	—	—	—	—	—	NA	—	0.61 (J)	—	—
RE00-23-289517	00-61817	NE81	North	2–3	QBT3	—	—	—	—	—	NA	—	1.26	—	—
RE00-23-290099	00-61818	NE82	North	0–1	SOIL	—	—	—	—	—	NA	—	1.14	—	—
RE00-23-290100	00-61818	NE82	North	2–3	SOIL	—	—	43.1	—	—	NA	—	1.95	—	—
RE00-23-290101	00-61818	NE82	North	4–5	QBT3	—	—	36.8	—	—	NA	6.67	1.14	—	—

Table 5.2-1 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Selenium	Silver	Thallium	Vanadium	Zinc
Soil BV[b]						**1.52**	**1**	**0.73**	**39.6**	**48.8**
Qbt2, 3, 4 BV[b]						**0.3**	**1**	**1.1**	**17**	**63.5**
Construction Worker SSL[c]						**1750**	**1770**	**3.54**	**614**	**106,000**
Industrial SSL[c]						**6490**	**6490**	**13**	**6530**	**389,000**
Recreational SSL[f]						**3100**	**3100**	**6.19**	**3100**	**186,000**
Residential SSL[c]						**391**	**391**	**0.782**	**394**	**23,500**
RE00-22-238042	00-171	4	North	7.5–8.5	QBT3	0.809 (J)	—	—	—	—
RE00-22-238043	00-171	4	North	10.5–11.5	QBT3	0.736 (J)	—	—	—	—
RE00-22-238046	00-173	9	North	6.5–7.5	QBT3	0.732 (J)	—	—	—	—
RE00-22-238047	00-173	9	North	9.5–10.5	QBT3	0.985 (J)	—	—	—	—
RE00-22-238051	00-175	23	North	6.9–7.9	QBT3	0.736 (J)	—	—	—	—
RE00-22-238052	00-175	23	North	9.9–10.9	QBT3	1.02	—	—	—	—
RE00-22-238056	00-177	11	North	9–10	QBT3	0.913 (J)	—	—	—	—
RE00-22-238057	00-177	11	North	12–13	QBT3	1.05	—	—	—	—
RE00-22-238061	00-179	8	North	8.5–9.5	QBT3	0.849 (J)	—	—	—	—
RE00-22-238062	00-179	8	North	11.5–12.5	QBT3	0.926 (J)	—	—	—	—
RE00-22-238066	00-181	13	North	8–9	QBT3	0.986 (J)	—	—	—	—
RE00-22-238067	00-181	13	North	11–12	QBT3	0.959 (J)	—	—	—	—
RE00-22-238071	00-183	10	North	11–12	QBT3	1.09	—	—	—	—
RE00-22-238072	00-183	10	North	14–15	QBT3	1.23	—	—	—	—
RE00-22-238075	00-184	1	North	6–7	QBT3	1.91	—	—	—	—
RE00-22-238076	00-185	24	North	6.5–7.5	QBT3	0.748 (J)	—	—	—	—
RE00-22-238077	00-185	24	North	9.5–10.5	QBT3	1.05	—	—	—	—
RE00-22-238078	00-186	97	South	0–1	SOIL	1.58	—	—	—	—
RE00-22-238079	00-186	97	South	3–4	SOIL	—	—	—	—	—
RE00-22-238080	00-186	97	South	6.5–7.5	QBT3	1.94	—	—	—	—
RE00-22-238081	00-187	21	North	8–9	QBT3	0.914 (J)	—	—	—	—
RE00-22-238082	00-187	21	North	11–12	QBT3	1.17	—	—	—	—
RE00-22-238090	00-190	90	South	6–7	QBT3	2.4	—	—	—	—
RE00-22-238093	00-190	90	South	13–14	QBT3	0.661 (J)	—	—	—	—
RE00-22-238094	00-192	91	South	0–1	FILL	1.9	—	—	—	—

Table 5.2-1 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Selenium	Silver	Thallium	Vanadium	Zinc
Soil BV[b]						**1.52**	**1**	**0.73**	**39.6**	**48.8**
Qbt2, 3, 4 BV[b]						**0.3**	**1**	**1.1**	**17**	**63.5**
Construction Worker SSL[c]						**1750**	**1770**	**3.54**	**614**	**106,000**
Industrial SSL[c]						**6490**	**6490**	**13**	**6530**	**389,000**
Recreational SSL[f]						**3100**	**3100**	**6.19**	**3100**	**186,000**
Residential SSL[c]						**391**	**391**	**0.782**	**394**	**23,500**
RE00-22-238095	00-192	91	South	7.5–8.5	QBT3	3.15	—	—	—	—
RE00-22-238096	00-193	98	North	9.5–10.5	QBT3	1.04	—	—	—	—
RE00-22-238097	00-193	98	North	12.5–13.5	QBT3	1.02	—	—	—	—
RE00-22-238100	00-195	25	North	8.5–9.5	QBT3	1.08	—	—	—	—
RE00-22-238101	00-195	25	North	11.5–12.5	QBT3	0.904 (J)	—	—	—	—
RE00-22-238103	00-196	3	North	3.3–4.5	FILL	—	—	—	—	807
RE00-22-238104	00-196	3	North	7.5–8.5	QBT3	1.64	—	—	—	260
RE00-22-238105	00-197	27	North	8.5–9.5	QBT3	0.982 (J)	—	—	—	—
RE00-22-238106	00-197	27	North	11.5–12.5	QBT3	1.42	—	—	—	—
RE00-22-238107	00-198	99	South	0–1	SOIL	1.62	—	—	—	—
RE00-22-238108	00-198	99	South	3–4	SOIL	—	—	—	—	58.4
RE00-22-238109	00-198	99	South	6–7.1	QBT3	1.43	—	—	—	—
RE00-22-238110	00-199	28	North	12.5–13.5	QBT3	1.17	—	—	—	—
RE00-22-238111	00-199	28	North	15.5–16.5	QBT3	1.07	—	—	—	—
RE00-22-238112	00-200	66	South	0–1	FILL	1.91	—	—	—	—
RE00-22-238113	00-200	66	South	4–5	FILL	—	—	—	—	65.1
RE00-22-238114	00-200	66	South	6.1–7.1	QBT3	2.18	—	—	—	—
RE00-22-238115	00-201	89	South	7.5–8.5	QBT3	1.45	—	—	—	—
RE00-22-238116	00-201	89	South	10.5–11.5	QBT3	1.12	—	—	—	—
RE00-22-238117	00-202	92	South	0–1	FILL	—	—	—	—	—
RE00-22-238118	00-202	92	South	3–4	FILL	—	—	—	—	—
RE00-22-238119	00-202	92	South	7.7–8.7	QBT3	1.96	—	—	—	—
RE00-22-238120	00-203	86	South	10–11	QBT3	1.49	—	—	—	—
RE00-22-238121	00-203	86	South	13–14	QBT3	1.37	—	—	—	—
RE00-22-238122	00-204	57A	South	0–1	SOIL	—	—	—	—	—
RE00-22-238123	00-204	57A	South	3–4	SOIL	—	1.52	—	—	—
RE00-22-238124	00-204	57A	South	7.9–8.9	QBT3	1.09	—	—	—	—

Table 5.2-1 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Selenium	Silver	Thallium	Vanadium	Zinc
Soil BV[b]						**1.52**	**1**	**0.73**	**39.6**	**48.8**
Qbt2, 3, 4 BV[b]						**0.3**	**1**	**1.1**	**17**	**63.5**
Construction Worker SSL[c]						**1750**	**1770**	**3.54**	**614**	**106,000**
Industrial SSL[c]						**6490**	**6490**	**13**	**6530**	**389,000**
Recreational SSL[f]						**3100**	**3100**	**6.19**	**3100**	**186,000**
Residential SSL[c]						**391**	**391**	**0.782**	**394**	**23,500**
RE00-22-238125	00-205	72	South	13–14	QBT3	1.6	—	—	—	—
RE00-22-238126	00-205	72	South	16–17	QBT3	1.16	—	—	—	—
RE00-22-238129	00-206	18	North	7.8–8.8	QBT3	1.1	—	—	—	203
RE00-22-238130	00-207	71	South	10–11	QBT3	1.4	—	—	—	—
RE00-22-238131	00-207	71	South	13–14	QBT3	1.44	—	—	—	—
RE00-22-238132	00-208	70	South	0–1	FILL	—	—	—	—	—
RE00-22-238133	00-208	70	South	4–5	SOIL	—	—	—	—	—
RE00-22-238134	00-208	70	South	9–10	QBT3	0.755 (J)	—	—	—	—
RE00-22-238135	00-209	76	South	13–14	QBT3	1.51	—	—	—	—
RE00-22-238136	00-209	76	South	16–17	QBT3	1.44	—	—	—	—
RE00-22-238139	00-210	29	North	0–1.4	FILL	—	—	—	—	—
RE00-22-238138	00-210	29	North	4–5	SOIL	—	—	—	—	—
RE00-22-238137	00-210	29	North	7–8	QBT3	1.21	—	—	—	—
RE00-22-238140	00-211	82	South	14.5–15.5	QBT3	1.29	—	—	—	—
RE00-22-238141	00-211	82	South	17.5–18.5	QBT3	1.41	—	—	—	—
RE00-22-238142	00-212	20	North	0–1	FILL	—	—	—	—	—
RE00-22-238143	00-212	20	North	4–5	SOIL	—	—	—	—	—
RE00-22-238144	00-212	20	North	6.2–7.2	QBT3	0.638 (J)	—	—	—	145 (J-)
RE00-22-238145	00-213	79	South	12–13	QBT3	0.381 (J)	—	—	—	—
RE00-22-238146	00-213	79	South	15–16	QBT3	1.17	—	—	—	—
RE00-22-238147	00-214	26	North	0–1	FILL	—	—	—	—	—
RE00-22-238148	00-214	26	North	4–5	SOIL	—	—	—	—	—
RE00-22-238149	00-214	26	North	6.8–7.8	QBT3	0.68 (J)	—	—	—	—
RE00-22-238150	00-215	12	North	7.5–8.5	QBT3	0.912 (J)	—	—	—	—
RE00-22-238151	00-215	12	North	10.5–11.5	QBT3	1.02	—	—	—	—
RE00-22-238152	00-216	83	South	12–13	QBT3	1.17	—	—	—	—
RE00-22-238153	00-216	83	South	15–16	QBT3	1.36	—	—	—	—

Table 5.2-1 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Selenium	Silver	Thallium	Vanadium	Zinc
Soil BV[b]						**1.52**	**1**	**0.73**	**39.6**	**48.8**
Qbt2, 3, 4 BV[b]						**0.3**	**1**	**1.1**	**17**	**63.5**
Construction Worker SSL[c]						**1750**	**1770**	**3.54**	**614**	**106,000**
Industrial SSL[c]						**6490**	**6490**	**13**	**6530**	**389,000**
Recreational SSL[f]						**3100**	**3100**	**6.19**	**3100**	**186,000**
Residential SSL[c]						**391**	**391**	**0.782**	**394**	**23,500**
RE00-22-238154	00-217	80	South	12–13	QBT3	1.2	—	—	—	—
RE00-22-238155	00-217	80	South	15–16	QBT3	1.32	—	—	—	—
RE00-22-238156	00-218	22	North	0–1	FILL	—	—	—	—	—
RE00-22-238157	00-218	22	North	4–5	FILL	—	9.28	—	—	144 (J)
RE00-22-238158	00-218	22	North	11.9–12.9	QBT3	1.33	—	—	—	—
RE00-22-238159	00-219	87	South	8.5–9.5	QBT3	1.26	—	—	—	—
RE00-22-238160	00-219	87	South	11.5–12.5	QBT3	1.34	—	—	—	—
RE00-22-238161	00-220	85	South	0–1	FILL	—	—	—	—	—
RE00-22-238162	00-220	85	South	3–4	FILL	—	—	—	—	—
RE00-22-238163	00-220	85	South	4.9–5.9	QBT3	2.07	—	—	—	—
RE00-22-238164	00-221	84	South	11–12	QBT3	1.29	—	—	—	—
RE00-22-238165	00-221	84	South	14–15	QBT3	1.32	—	—	—	—
RE00-22-238166	00-222	7	North	0–1	FILL	—	1.69 (J+)	—	—	182 (J-)
RE00-22-238167	00-222	7	North	3–4	SOIL	—	—	—	—	—
RE00-22-238168	00-222	7	North	5–6	QBT3	0.689 (J)	—	—	—	—
RE00-22-238169	00-223	81	South	6.5–7.5	QBT3	0.802 (J)	—	—	—	—
RE00-22-238170	00-223	81	South	9.5–10.5	QBT3	1.09	—	—	—	—
RE00-22-238174	00-225	77	South	8.5–9.5	QBT3	0.964 (J)	—	—	—	—
RE00-22-238175	00-225	77	South	11.5–12.5	QBT3	0.834 (J)	—	—	—	—
RE00-22-238176	00-226	95	South	0–1	FILL	—	—	—	—	—
RE00-22-238177	00-226	95	South	3–4	SOIL	—	—	—	—	—
RE00-22-238178	00-226	95	South	6–7	QBT3	2.04	—	—	—	—
RE00-22-238179	00-227	78	South	7.5–8.5	QBT3	0.958 (J)	—	—	—	—
RE00-22-238180	00-227	78	South	10.5–11.5	QBT3	1.28	—	—	—	—
RE00-22-238181	00-228	59	South	0–1	FILL	—	—	—	—	—
RE00-22-238281	00-228	59	South	4–5	SOIL	—	—	—	—	—
RE00-22-238286	00-228	59	South	9–10	QBT3	0.935 (J)	—	—	—	—

Table 5.2-1 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Selenium	Silver	Thallium	Vanadium	Zinc
Soil BV[b]						**1.52**	**1**	**0.73**	**39.6**	**48.8**
Qbt2, 3, 4 BV[b]						**0.3**	**1**	**1.1**	**17**	**63.5**
Construction Worker SSL[c]						**1750**	**1770**	**3.54**	**614**	**106,000**
Industrial SSL[c]						**6490**	**6490**	**13**	**6530**	**389,000**
Recreational SSL[f]						**3100**	**3100**	**6.19**	**3100**	**186,000**
Residential SSL[c]						**391**	**391**	**0.782**	**394**	**23,500**
RE00-22-238184	00-229	73	South	7.5–8.5	QBT3	0.926 (J)	—	—	—	—
RE00-22-238185	00-229	73	South	10.5–11.5	QBT3	0.873 (J)	—	—	—	—
RE00-22-238189	00-231	69	South	7.5–8.5	QBT3	0.694 (J)	—	—	—	—
RE00-22-238190	00-231	69	South	10.5–11.5	QBT3	0.89 (J)	—	—	—	—
RE00-22-238192	00-232	96	South	0–1	FILL	—	—	—	—	—
RE00-22-238191	00-232	96	South	4–5	FILL	1.59	—	—	—	—
RE00-22-238193	00-232	96	South	6–7	QBT3	2.11	—	—	—	—
RE00-22-238194	00-233	64	South	7.5–8.5	QBT3	0.895 (J)	—	—	—	—
RE00-22-238195	00-233	64	South	10.5–11.5	QBT3	0.771 (J)	—	—	—	—
RE00-22-238196	00-234	61	South	12.5–13.5	QBT3	1.46	—	—	—	—
RE00-22-238197	00-234	61	South	15.5–16.5	QBT3	0.988 (J)	—	—	—	—
RE00-22-238198	00-235	57	South	9–10	QBT3	1.09	—	—	—	—
RE00-22-238199	00-235	57	South	12–13	QBT3	0.968	—	—	—	—
RE00-22-238200	00-236	60	South	13–14	QBT3	1.22	—	—	—	—
RE00-22-238201	00-236	60	South	16–17	QBT3	1.14	—	—	—	—
RE00-22-238202	00-237	62	South	8.5–9.5	QBT3	2.38	—	—	—	—
RE00-22-238203	00-237	62	South	11.5–12.5	QBT3	1.06	—	—	—	—
RE00-22-238204	00-238	63	South	4–5	QBT3	1.26	—	—	—	—
RE00-22-238205	00-238	63	South	7–8	QBT3	1.1	—	—	—	—
RE00-22-238206	00-239	67	South	6.5–7.5	QBT3	1.09	—	—	—	—
RE00-22-238207	00-239	67	South	9.5–10.5	QBT3	0.874 (J)	—	—	—	—
RE00-22-238208	00-240	68	South	5–6	QBT3	1.08	—	—	—	—
RE00-22-238209	00-240	68	South	8–9	QBT3	1.03	—	—	—	—
RE00-22-238226	00-249	5	North	8–9	QBT3	0.692 (J)	—	—	—	—
RE00-22-238227	00-249	5	North	11–12	QBT3	0.862 (J)	—	—	—	—
RE00-22-238237	00-254	15	North	7–8	QBT3	1.58	—	—	—	—
RE00-22-238238	00-255	93	South	0–1	FILL	—	—	—	—	—

Table 5.2-1 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Selenium	Silver	Thallium	Vanadium	Zinc
Soil BV[b]						**1.52**	**1**	**0.73**	**39.6**	**48.8**
Qbt2, 3, 4 BV[b]						**0.3**	**1**	**1.1**	**17**	**63.5**
Construction Worker SSL[c]						**1750**	**1770**	**3.54**	**614**	**106,000**
Industrial SSL[c]						**6490**	**6490**	**13**	**6530**	**389,000**
Recreational SSL[f]						**3100**	**3100**	**6.19**	**3100**	**186,000**
Residential SSL[c]						**391**	**391**	**0.782**	**394**	**23,500**
RE00-22-238239	00-255	93	South	4–5	FILL	—	—	—	—	—
RE00-22-238240	00-255	93	South	7.5–8.5	QBT3	1.06	—	—	—	—
RE00-22-238242	00-256	14	North	7.3–8.3	QBT3	1.25	3.1	—	—	338 (J)
RE00-22-239164	00-257	6	North	6.1–7.1	QBT3	0.906 (J)	—	—	—	159
RE00-22-238248	00-259	75	South	0–1	FILL	—	—	—	—	—
RE00-22-238249	00-259	75	South	3–4	FILL	—	—	—	—	—
RE00-22-238250	00-259	75	South	6.9–7.9	QBT3	1.36	—	—	—	—
RE00-22-238251	00-260	88	South	0–1	FILL	1.71	—	—	—	—
RE00-22-238252	00-260	88	South	5–6	QBT3	3.17	—	—	—	—
RE00-22-238253	00-261	56A-A	North	0–1	SOIL	—	—	—	—	—
RE00-22-238254	00-261	56A-A	North	3–4	SOIL	—	1.39	—	—	—
RE00-22-238255	00-261	56A-A	North	11.6–12.6	QBT3	0.932 (J)	—	—	—	—
RE00-22-238273	00-61519	16	North	0–1	FILL	—	1.64	—	—	154
RE00-22-238278	00-61519	16	North	3–4	SOIL	—	4.87	—	—	409
RE00-22-238283	00-61519	16	North	12–13	QBT3	1.83	2.39	—	—	195 (J+)
RE00-22-238274	00-61520	94	South	0–1	FILL	—	—	—	—	—
RE00-22-238279	00-61520	94	South	4–5	FILL	—	—	—	—	—
RE00-22-238284	00-61520	94	South	9.1–9.9	QBT3	0.989 (J)	—	—	—	—
RE00-22-238287	00-61523	74	South	0–1	SOIL	2.15	—	—	—	—
RE00-22-238282	00-61523	74	South	4–5	SOIL	—	—	—	—	207
RE00-22-238277	00-61523	74	South	8–9	QBT3	1.42	—	—	—	—
RE00-22-238290	00-61526	56	South	0–1	FILL	—	—	—	—	—
RE00-22-238295	00-61526	56	South	3.5–4	FILL	—	—	—	—	—
RE00-22-238300	00-61526	56	South	6–7	FILL	—	—	—	—	—
RE00-22-238305	00-61526	56	South	9.6–10.1	QBT3	0.862 (J)	—	—	—	—
RE00-22-238292	00-61528	65	South	0–1	FILL	—	—	—	—	—
RE00-22-238297	00-61528	65	South	3–4	FILL	—	—	—	—	—

Table 5.2-1 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Selenium	Silver	Thallium	Vanadium	Zinc
Soil BV[b]						**1.52**	**1**	**0.73**	**39.6**	**48.8**
Qbt2, 3, 4 BV[b]						**0.3**	**1**	**1.1**	**17**	**63.5**
Construction Worker SSL[c]						**1750**	**1770**	**3.54**	**614**	**106,000**
Industrial SSL[c]						**6490**	**6490**	**13**	**6530**	**389,000**
Recreational SSL[f]						**3100**	**3100**	**6.19**	**3100**	**186,000**
Residential SSL[c]						**391**	**391**	**0.782**	**394**	**23,500**
RE00-22-238302	00-61528	65	South	6–7	FILL	2.19	—	—	—	—
RE00-22-238307	00-61528	65	South	9–10	QBT3	2.3	—	—	—	—
RE00-22-239217	00-61546	19	North	0–1	FILL	—	—	—	—	61.1
RE00-22-239227	00-61546	19	North	4–5	SOIL	—	—	—	—	—
RE00-22-239237	00-61546	19	North	5.75–6.8	QBT3	0.946 (J)	—	—	—	—
RE00-22-239218	00-61547	55A-A	North	0–1	SOIL	—	—	—	—	—
RE00-22-239228	00-61547	55A-A	North	3–4	SOIL	—	2.44	—	—	78.9
RE00-22-239238	00-61547	55A-A	North	11.9–12.9	QBT3	0.795 (J)	—	—	—	—
RE00-22-239221	00-61550	58A	South	0–1	SOIL	—	—	—	—	—
RE00-22-239231	00-61550	58A	South	3–4	SOIL	—	12.5	—	—	50.3
RE00-22-239241	00-61550	58A	South	8–9	QBT3	0.786 (J)	—	—	—	—
RE00-22-239224	00-61553	54A	North	0–1	SOIL	—	—	—	—	—
RE00-22-239234	00-61553	54A	North	4–5	SOIL	—	2.9 (J)	—	—	88.6 (J)
RE00-22-239244	00-61553	54A	North	6.9–7.9	QBT3	0.628 (J)	—	—	20.2 (J)	—
RE00-22-248888	00-61568	29 5NE	South	0–1	SOIL	—	—	—	—	—
RE00-22-248889	00-61568	29 5NE	South	4–5	SOIL	—	—	—	—	—
RE00-22-248890	00-61568	29 5NE	South	7–8	QBT3	1.42	—	—	—	—
RE00-22-248891	00-61569	29 5S	North	0–1	SOIL	1.68	—	—	—	—
RE00-22-248892	00-61569	29 5S	North	4–5	SOIL	—	—	—	—	—
RE00-22-248893	00-61569	29 5S	North	7–8	QBT3	1.3	—	—	—	—
RE00-22-249057	00-61569	29 5S	North	9–10	QBT3	2.49	—	—	—	—
RE00-22-249058	00-61569	29 5S	North	11–12	QBT3	2.85	—	—	—	—
RE00-22-248894	00-61570	29 5SE	North	0–1	SOIL	—	1.01	—	—	49.6
RE00-22-248895	00-61570	29 5SE	North	4–5	SOIL	—	—	—	—	—
RE00-22-248896	00-61570	29 5SE	North	7–8	QBT3	2.13	—	—	—	—
RE00-22-248897	00-61571	22 5E	North	0–1	SOIL	1.73	—	—	—	—
RE00-22-248898	00-61571	22 5E	North	4–5	SOIL	1.7	4.2 (J+)	—	—	142 (J)

Table 5.2-1 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Selenium	Silver	Thallium	Vanadium	Zinc
Soil BV[b]						**1.52**	**1**	**0.73**	**39.6**	**48.8**
Qbt2, 3, 4 BV[b]						**0.3**	**1**	**1.1**	**17**	**63.5**
Construction Worker SSL[c]						**1750**	**1770**	**3.54**	**614**	**106,000**
Industrial SSL[c]						**6490**	**6490**	**13**	**6530**	**389,000**
Recreational SSL[f]						**3100**	**3100**	**6.19**	**3100**	**186,000**
Residential SSL[c]						**391**	**391**	**0.782**	**394**	**23,500**
RE00-22-248899	00-61571	22 5E	North	11.9–12.9	QBT3	2.41	1.3 (J+)	—	—	—
RE00-22-248900	00-61572	92 5E	South	0–1	SOIL	1.62	—	—	—	—
RE00-22-248901	00-61572	92 5E	South	3–4	SOIL	1.56	—	—	—	—
RE00-22-248902	00-61572	92 5E	South	7.7–8.7	QBT3	1.92	—	—	—	—
RE00-22-248903	00-61573	92 5N	South	0–1	SOIL	—	—	—	—	—
RE00-22-248904	00-61573	92 5N	South	3–4	SOIL	—	—	—	—	—
RE00-22-248905	00-61573	92 5N	South	7.7–8.7	QBT3	2.57	—	—	—	—
RE00-22-248906	00-61574	56A 5E	North	0–1	SOIL	—	—	—	—	—
RE00-22-248907	00-61574	56A 5E	North	3–4	SOIL	—	5.05 (J)	—	—	55.2 (J)
RE00-22-248908	00-61574	56A 5E	North	11.6–12.6	QBT3	1.48 (J-)	—	—	—	—
RE00-22-248909	00-61575	56A 5N	North	0–1	SOIL	—	—	—	—	—
RE00-22-248910	00-61575	56A 5N	North	3–4	SOIL	—	1.53	—	—	52.2
RE00-22-248911	00-61575	56A 5N	North	11.6–12.6	QBT3	1.08 (J-)	—	—	—	—
RE00-22-248912	00-61576	56A 5W	North	0–1	SOIL	—	—	—	—	—
RE00-22-248913	00-61576	56A 5W	North	3–4	SOIL	—	1.21	—	—	—
RE00-22-248914	00-61576	56A 5W	North	11.6–12.6	QBT3	1.75 (J-)	—	—	—	—
RE00-22-248915	00-61577	56A 5S	North	0–1	SOIL	—	—	—	—	—
RE00-22-248916	00-61577	56A 5S	North	3–4	SOIL	—	1.93	—	—	—
RE00-22-248917	00-61577	56A 5S	North	11.6–12.6	QBT3	1.77 (J-)	—	—	—	—
RE00-22-248930	00-61581	2 5S	North	6.5–7.5	QBT3	3.59	—	—	—	—
RE00-22-248979	00-61582	2 5SE	North	8.5–9.5	QBT3	2.75	—	—	—	—
RE00-22-248982	00-61582	2 5SE	North	10.5–11.5	QBT3	2.2	—	—	—	93.1 (J+)
RE00-22-248934	00-61583	58 5E	South	0–1	SOIL	36	—	—	—	—
RE00-22-248935	00-61583	58 5E	South	4–5	SOIL	1.62	—	—	—	—
RE00-22-248936	00-61583	58 5E	South	7–8	QBT3	2.48	—	—	—	—
RE00-22-255298	00-61584	58 5SW	South	13–14	SOIL	1.9	—	—	—	—
RE00-22-248943	00-61586	94 5S	South	0–1	SOIL	1.74	—	—	—	—

Table 5.2-1 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Selenium	Silver	Thallium	Vanadium	Zinc
Soil BV[b]						**1.52**	**1**	**0.73**	**39.6**	**48.8**
Qbt2, 3, 4 BV[b]						**0.3**	**1**	**1.1**	**17**	**63.5**
Construction Worker SSL[c]						**1750**	**1770**	**3.54**	**614**	**106,000**
Industrial SSL[c]						**6490**	**6490**	**13**	**6530**	**389,000**
Recreational SSL[f]						**3100**	**3100**	**6.19**	**3100**	**186,000**
Residential SSL[c]						**391**	**391**	**0.782**	**394**	**23,500**
RE00-22-248944	00-61586	94 5S	South	4–5	SOIL	—	—	—	—	—
RE00-22-248945	00-61586	94 5S	South	9.1–9.9	QBT3	1.97	—	—	—	—
RE00-22-248946	00-61587	94 5E	South	0–1	SOIL	—	—	—	—	—
RE00-22-248947	00-61587	94 5E	South	4–5	SOIL	—	—	—	—	—
RE00-22-248948	00-61587	94 5E	South	9.1–9.9	QBT3	1.3	—	—	—	—
RE00-22-249009	00-61587	94 5E	South	10.9–11.9	QBT3	0.838 (J)	—	—	—	—
RE00-22-249010	00-61587	94 5E	South	12.9–13.9	QBT3	1.03	—	—	—	—
RE00-22-248949	00-61588	94 5W	South	0–1	SOIL	—	—	—	—	—
RE00-22-248950	00-61588	94 5W	South	4–5	SOIL	—	—	—	—	—
RE00-22-248951	00-61588	94 5W	South	9.1–9.9	QBT3	1.26	—	—	—	—
RE00-22-248952	00-61589	29 5W	North	0–1	SOIL	—	—	—	—	—
RE00-22-248953	00-61589	29 5W	North	4–5	SOIL	1.59	—	—	—	55.8
RE00-22-248954	00-61589	29 5W	North	7–8	QBT3	1.26	—	—	—	—
RE00-22-248955	00-61589	29 5W	North	11.5–12.5	QBT3	1.87	—	—	—	—
RE00-22-248956	00-61590	95 5W	South	0–1	SOIL	—	—	—	—	—
RE00-22-248957	00-61590	95 5W	South	3–4	SOIL	—	—	—	—	—
RE00-22-248958	00-61590	95 5W	South	6–7	QBT3	1.33	—	—	—	—
RE00-22-248960	00-61591	1 5S	North	3–4	SOIL	—	—	—	—	5360 (J)
RE00-22-248961	00-61591	1 5S	North	6–7	QBT3	1.43	—	—	—	—
RE00-22-248962	00-61592	1 5SW	North	0–1	SOIL	—	—	—	—	—
RE00-22-248963	00-61592	1 5SW	North	3–4	SOIL	—	—	—	—	—
RE00-22-248964	00-61592	1 5SW	North	6–7	QBT3	1.62	—	—	—	—
RE00-22-248965	00-61593	1 5NE	North	0–1	SOIL	—	—	—	—	296
RE00-22-248966	00-61593	1 5NE	North	3–4	SOIL	—	—	—	—	200
RE00-22-248967	00-61593	1 5NE	North	6–7	QBT3	0.478 (J)	—	—	—	—
RE00-22-248968	00-61594	1 5NW	North	0–1	SOIL	—	—	—	—	—
RE00-22-248969	00-61594	1 5NW	North	3–4	SOIL	—	—	—	—	51.9

Table 5.2-1 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Selenium	Silver	Thallium	Vanadium	Zinc
Soil BV[b]						**1.52**	**1**	**0.73**	**39.6**	**48.8**
Qbt2, 3, 4 BV[b]						**0.3**	**1**	**1.1**	**17**	**63.5**
Construction Worker SSL[c]						**1750**	**1770**	**3.54**	**614**	**106,000**
Industrial SSL[c]						**6490**	**6490**	**13**	**6530**	**389,000**
Recreational SSL[f]						**3100**	**3100**	**6.19**	**3100**	**186,000**
Residential SSL[c]						**391**	**391**	**0.782**	**394**	**23,500**
RE00-22-248970	00-61594	1 5NW	North	6–7	QBT3	0.554 (J)	—	—	—	—
RE00-22-248985	00-61599	2 10N	North	6.5–7.5	QBT3	1.81	—	—	—	—
RE00-22-248986	00-61600	22 5NE	North	0–1	SOIL	1.58	—	—	—	—
RE00-22-248987	00-61600	22 5NE	North	4–5	SOIL	1.83	4.62 (J+)	—	—	144 (J)
RE00-22-248988	00-61600	22 5NE	North	11.9–12.9	QBT3	2.84	1.24 (J+)	—	—	—
RE00-22-248989	00-61601	56A 10W	North	0–1	SOIL	1.58	—	—	—	—
RE00-22-248990	00-61601	56A 10W	North	3–4	SOIL	2.01	—	—	—	—
RE00-22-248991	00-61601	56A 10W	North	11.6–12.6	QBT3	2.39	—	—	—	—
RE00-22-248992	00-61602	94 10SE	South	0–1	SOIL	—	—	—	—	—
RE00-22-248993	00-61602	94 10SE	South	4–5	SOIL	—	—	—	—	—
RE00-22-248994	00-61602	94 10SE	South	9.1–9.9	QBT3	1.02 (J-)	—	—	—	—
RE00-22-249013	00-61609	94 10S	South	0–1	SOIL	—	—	—	—	—
RE00-22-249014	00-61609	94 10S	South	4–5	SOIL	1.63	—	—	—	—
RE00-22-249015	00-61609	94 10S	South	9.1–9.9	QBT3	2.93 (J-)	—	—	—	—
RE00-22-249019	00-61611	92 5NW	South	0–1	SOIL	—	—	—	—	—
RE00-22-249020	00-61611	92 5NW	South	3–4	SOIL	1.55	—	—	—	—
RE00-22-249021	00-61611	92 5NW	South	7.7–8.7	QBT3	2.1	—	—	—	—
RE00-22-249022	00-61612	22 10E	North	0–1	SOIL	—	—	—	—	—
RE00-22-249023	00-61612	22 10E	North	4–5	SOIL	—	2.8 (J+)	—	—	106
RE00-22-249024	00-61612	22 10E	North	11.9–12.9	QBT3	1.26	3.44 (J+)	—	—	183
RE00-22-249032	00-61616	27 5E	North	8.5–9.5	QBT3	1.4	—	—	—	—
RE00-22-249031	00-61616	27 5E	North	11.5–12.5	QBT3	0.79 (J)	—	—	—	—
RE00-22-249035	00-61618	2V	North	8–9	QBT3	0.837 (J-)	—	—	—	—
RE00-22-249036	00-61618	2V	North	10–11	QBT3	1.04 (J-)	—	—	—	147
RE00-22-249037	00-61619	58 5N	South	4–5	SOIL	—	—	—	—	—
RE00-22-249038	00-61619	58 5N	South	7–8	QBT3	1.84	—	—	—	—
RE00-22-249064	00-61619	58 5N	South	13.9–14.9	QBT3	0.769 (J)	—	—	—	—

Table 5.2-1 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Selenium	Silver	Thallium	Vanadium	Zinc
Soil BV[b]						**1.52**	**1**	**0.73**	**39.6**	**48.8**
Qbt2, 3, 4 BV[b]						**0.3**	**1**	**1.1**	**17**	**63.5**
Construction Worker SSL[c]						**1750**	**1770**	**3.54**	**614**	**106,000**
Industrial SSL[c]						**6490**	**6490**	**13**	**6530**	**389,000**
Recreational SSL[f]						**3100**	**3100**	**6.19**	**3100**	**186,000**
Residential SSL[c]						**391**	**391**	**0.782**	**394**	**23,500**
RE00-22-249065	00-61619	58 5N	South	15.9–16.9	QBT3	0.851 (J-)	—	—	—	—
RE00-22-249039	00-61620	00-196	North	9.5–10.5	QBT3	2.13 (J-)	—	—	—	—
RE00-22-249040	00-61620	00-196	North	11.5–12.5	QBT3	2.19 (J-)	—	—	—	79.5
RE00-22-249041	00-61621	00-61521	North	9–10	QBT3	1.72	—	—	—	—
RE00-22-249042	00-61621	00-61521	North	11–12	QBT3	1.82	—	—	—	67
RE00-22-249045	00-61622	22 5SE	North	11.9–12.9	QBT3	2.52	—	—	—	—
RE00-22-249046	00-61623	17 5S	North	9–10	QBT3	1.55	—	—	—	108
RE00-22-249047	00-61623	17 5S	North	11–12	QBT3	1.54	—	—	—	94.5
RE00-22-249048	00-61624	00-212	North	8–9	QBT3	1.57	—	—	—	—
RE00-22-249049	00-61624	00-212	North	10–11	QBT3	1.59	—	—	—	—
RE00-22-249050	00-61625	00-61553	North	9–10	QBT3	1.84	—	—	—	—
RE00-22-249051	00-61625	00-61553	North	11–12	QBT3	1.8	—	—	—	—
RE00-22-249025	00-61625	00-61553	North	13–14	QBT3	2.4	—	—	—	—
RE00-22-249026	00-61625	00-61553	North	15–16	QBT3	2.22	—	—	—	—
RE00-22-249053	00-61626	27 5W	North	8.5–9.5	QBT3	0.839 (J)	—	—	—	—
RE00-22-249052	00-61626	27 5W	North	11.5–12.5	QBT3	0.741 (J)	—	—	—	—
RE00-22-249054	00-61627	27 5N	North	8.5–9.5	QBT3	0.731 (J)	—	—	—	—
RE00-22-249055	00-61627	27 5N	North	11.5–12.5	QBT3	1.1	—	—	—	—
RE00-22-249056	00-61628	92 5S	South	7.7–8.7	QBT3	2.43	—	—	—	—
RE00-22-249059	00-61630	00-210	North	9–10	QBT3	2.17	—	—	—	—
RE00-22-249060	00-61630	00-210	North	11–12	QBT3	1.81	—	—	—	—
RE00-22-250910	00-61651	2 10NW	North	0–1	SOIL	—	—	—	—	198
RE00-22-250911	00-61651	2 10NW	North	3–4	SOIL	—	—	—	—	2060
RE00-22-250912	00-61651	2 10NW	North	6.5–7.5	QBT3	1.81 (J-)	—	—	—	—
RE00-22-250916	00-61653	2 10SE	North	0–1	SOIL	—	—	—	—	260
RE00-22-250917	00-61653	2 10SE	North	3–4	SOIL	—	2.11	—	—	2940
RE00-22-250918	00-61653	2 10SE	North	6.5–7.5	QBT3	1.44 (J-)	—	—	—	—

Table 5.2-1 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Selenium	Silver	Thallium	Vanadium	Zinc
Soil BV[b]						**1.52**	**1**	**0.73**	**39.6**	**48.8**
Qbt2, 3, 4 BV[b]						**0.3**	**1**	**1.1**	**17**	**63.5**
Construction Worker SSL[c]						**1750**	**1770**	**3.54**	**614**	**106,000**
Industrial SSL[c]						**6490**	**6490**	**13**	**6530**	**389,000**
Recreational SSL[f]						**3100**	**3100**	**6.19**	**3100**	**186,000**
Residential SSL[c]						**391**	**391**	**0.782**	**394**	**23,500**
RE00-22-250919	00-61654	1 10SW	North	0–1	SOIL	—	—	—	—	—
RE00-22-250920	00-61654	1 10SW	North	3–4	SOIL	—	—	—	—	—
RE00-22-250921	00-61654	1 10SW	North	6.5–7.5	QBT3	1.36	—	—	—	—
RE00-22-250922	00-61655	22 10SE	North	0–1	SOIL	—	—	—	—	—
RE00-22-250923	00-61655	22 10SE	North	4–5	SOIL	—	—	—	—	—
RE00-22-250924	00-61655	22 10SE	North	11.9–12.9	QBT3	1.2	—	—	—	—
RE00-22-250928	00-61657	22 10S	North	0–1	SOIL	—	—	—	—	—
RE00-22-250929	00-61657	22 10S	North	4–5	SOIL	—	—	—	—	—
RE00-22-250930	00-61657	22 10S	North	11.9–12.9	QBT3	0.928	—	—	—	—
RE00-22-250931	00-61658	56A 10S	North	0–1	SOIL	—	—	—	—	—
RE00-22-250932	00-61658	56A 10S	North	3–4	SOIL	—	—	—	—	—
RE00-22-250933	00-61658	56A 10S	North	11.6–12.6	QBT3	0.534 (J)	—	—	—	—
RE00-22-250934	00-61659	56A 10SE	North	0–1	SOIL	—	—	—	—	—
RE00-22-250935	00-61659	56A 10SE	North	3–4	SOIL	—	1.05	—	—	—
RE00-22-250936	00-61659	56A 10SE	North	11.6–12.6	QBT3	0.81 (J)	—	—	—	—
RE00-22-250937	00-61660	56A 10SW	North	0–1	SOIL	—	—	—	—	—
RE00-22-250938	00-61660	56A 10SW	North	3–4	SOIL	—	1.8	—	—	—
RE00-22-250939	00-61660	56A 10SW	North	11.6–12.6	QBT3	0.963 (J)	—	—	—	—
RE00-22-250940	00-61661	94 10SW	South	0–1	SOIL	—	—	—	—	—
RE00-22-250941	00-61661	94 10SW	South	4–5	SOIL	—	—	—	—	—
RE00-22-250942	00-61661	94 10SW	South	9.1–9.9	QBT3	2.08	—	—	—	—
RE00-22-252842	00-61700	2 14N	North	6.5–7.5	QBT3	1.13	—	—	—	—
RE00-22-252845	00-61701	2 15NNE	North	6.5–7.5	QBT3	1.16	—	—	—	66.8 (J)
RE00-22-253161	00-61705	29 10S	North	0–1	SOIL	—	—	—	—	—
RE00-22-253162	00-61705	29 10S	North	4–5	SOIL	—	—	—	—	—
RE00-22-253163	00-61705	29 10S	North	7–8	SOIL	1.53	—	—	—	—
RE00-22-253164	00-61705	29 10S	North	9–10	SOIL	1.73	—	—	—	—

Table 5.2-1 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Selenium	Silver	Thallium	Vanadium	Zinc
Soil BV[b]						**1.52**	**1**	**0.73**	**39.6**	**48.8**
Qbt2, 3, 4 BV[b]						**0.3**	**1**	**1.1**	**17**	**63.5**
Construction Worker SSL[c]						**1750**	**1770**	**3.54**	**614**	**106,000**
Industrial SSL[c]						**6490**	**6490**	**13**	**6530**	**389,000**
Recreational SSL[f]						**3100**	**3100**	**6.19**	**3100**	**186,000**
Residential SSL[c]						**391**	**391**	**0.782**	**394**	**23,500**
RE00-22-253165	00-61705	29 10S	North	11–12	QBT3	1.7	—	—	—	—
RE00-22-253167	00-61706	29 10WSW	North	0–1	SOIL	—	—	—	—	—
RE00-22-253168	00-61706	29 10WSW	North	4–5	SOIL	—	—	—	—	—
RE00-22-253169	00-61706	29 10WSW	North	7–8	QBT3	1.2	—	—	—	—
RE00-22-253170	00-61706	29 10WSW	North	9–10	QBT3	1.13	—	—	—	—
RE00-22-253171	00-61706	29 10WSW	North	11–12	QBT3	1.49	—	—	—	—
RE00-22-253172	00-61707	29 10SE	North	0–1	SOIL	—	—	—	—	—
RE00-22-253173	00-61707	29 10SE	North	4–5	SOIL	—	2.48	—	—	75.7 (J+)
RE00-22-253174	00-61707	29 10SE	North	7–8	SOIL	—	1.07	—	—	—
RE00-22-253175	00-61707	29 10SE	North	9–10	SOIL	—	—	—	—	—
RE00-22-253176	00-61707	29 10SE	North	11–12	QBT3	1.51	—	—	—	—
RE00-22-253177	00-61708	29 15SW	North	0–1	SOIL	—	—	—	—	—
RE00-22-253178	00-61708	29 15SW	North	4–5	SOIL	—	—	—	—	—
RE00-22-253179	00-61708	29 15SW	North	7–8	QBT3	1.22	—	—	—	—
RE00-22-253180	00-61708	29 15SW	North	9–10	QBT3	1.19	—	—	—	—
RE00-22-253181	00-61708	29 15SW	North	11–12	QBT3	1.16	—	—	—	—
RE00-22-253182	00-61709	56A 5WV	North	13.6–14.6	QBT3	1.69	—	—	—	—
RE00-22-253184	00-61711	56A 10NW	North	0–1	SOIL	—	—	—	—	—
RE00-22-253185	00-61711	56A 10NW	North	3–4	SOIL	—	—	—	—	—
RE00-22-253186	00-61711	56A 10NW	North	11.6–12.6	QBT3	1.48	—	—	—	—
RE00-22-253190	00-61712	94 15SW	South	0–1	SOIL	—	—	—	—	—
RE00-22-253191	00-61712	94 15SW	South	4–5	SOIL	—	—	—	—	—
RE00-22-253192	00-61712	94 15SW	South	9.1–9.9	QBT3	1.26	—	—	—	—
RE00-22-253193	00-61713	94 15WSW	South	0–1	SOIL	—	—	—	—	—
RE00-22-253194	00-61713	94 15WSW	South	4–5	SOIL	—	—	—	—	—
RE00-22-253195	00-61713	94 15WSW	South	9.1–9.9	SOIL	—	—	—	—	—
RE00-22-253196	00-61714	94 10W	South	0–1	SOIL	—	—	—	—	—

Table 5.2-1 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Selenium	Silver	Thallium	Vanadium	Zinc
Soil BV[b]						**1.52**	**1**	**0.73**	**39.6**	**48.8**
Qbt2, 3, 4 BV[b]						**0.3**	**1**	**1.1**	**17**	**63.5**
Construction Worker SSL[c]						**1750**	**1770**	**3.54**	**614**	**106,000**
Industrial SSL[c]						**6490**	**6490**	**13**	**6530**	**389,000**
Recreational SSL[f]						**3100**	**3100**	**6.19**	**3100**	**186,000**
Residential SSL[c]						**391**	**391**	**0.782**	**394**	**23,500**
RE00-22-253197	00-61714	94 10W	South	4–5	SOIL	—	—	—	—	—
RE00-22-253198	00-61714	94 10W	South	9.1–9.9	QBT3	1.13	—	—	—	—
RE00-22-253202	00-61716	58 10S	South	0–1	SOIL	—	—	—	—	—
RE00-22-253203	00-61716	58 10S	South	4–5	QBT3	0.929 (J)	—	—	—	—
RE00-22-253204	00-61716	58 10S	South	7–8	QBT3	1.4	—	—	—	—
RE00-22-253205	00-61716	58 10S	South	9–10	QBT3	1.8	—	—	—	—
RE00-22-253206	00-61716	58 10S	South	11–12	QBT3	1.23	—	—	—	—
RE00-22-253207	00-61717	58 10SE	South	0–1	SOIL	—	—	—	—	94.5 (J)
RE00-22-253208	00-61717	58 10SE	South	4–5	QBT3	0.943 (J)	—	—	—	—
RE00-22-253209	00-61717	58 10SE	South	7–8	QBT3	1.15 (J)	—	—	—	101 (J)
RE00-22-253210	00-61717	58 10SE	South	9–10	QBT3	1.27 (J)	—	—	—	—
RE00-22-253211	00-61717	58 10SE	South	11–12	QBT3	0.919 (J)	—	—	—	399 (J)
RE00-22-255274	00-61722	2 25ENE	North	0–1	SOIL	—	—	—	—	—
RE00-22-255275	00-61722	2 25ENE	North	3–4	SOIL	—	—	—	—	52.7
RE00-22-255276	00-61722	2 25ENE	North	6.5–7.5	QBT3	0.95 (J)	—	—	—	—
RE00-22-255285	00-61725	2 19N	North	6.5–7.5	QBT3	1.36	—	—	—	104
RE00-22-255286	00-61726	2 15NW	North	0–1	SOIL	—	—	—	—	243
RE00-22-255287	00-61726	2 15NW	North	3–4	SOIL	—	—	—	—	415
RE00-22-255288	00-61726	2 15NW	North	6.5–7.5	SOIL	1.56	—	—	—	98.7
RE00-22-255289	00-61727	2 20NW	North	0–1	SOIL	—	—	—	—	449
RE00-22-255290	00-61727	2 20NW	North	3–4	SOIL	—	—	—	—	656
RE00-22-255291	00-61727	2 20NW	North	6.5–7.5	SOIL	—	—	—	—	—
RE00-22-255294	00-61728	2 24N	North	6.5–7.5	QBT3	1.95	—	—	—	—
RE00-22-255295	00-61729	2 24NE	North	0–1	SOIL	—	—	—	—	69.2
RE00-22-255296	00-61729	2 24NE	North	3–4	SOIL	—	—	—	—	—
RE00-22-255297	00-61729	2 24NE	North	6.5–7.5	QBT3	1.25	—	—	—	—
RE00-23-259861	00-61736	SE3	North	0–1	SOIL	1.91	—	—	—	—

Table 5.2-1 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Selenium	Silver	Thallium	Vanadium	Zinc
Soil BV[b]						**1.52**	**1**	**0.73**	**39.6**	**48.8**
Qbt2, 3, 4 BV[b]						**0.3**	**1**	**1.1**	**17**	**63.5**
Construction Worker SSL[c]						**1750**	**1770**	**3.54**	**614**	**106,000**
Industrial SSL[c]						**6490**	**6490**	**13**	**6530**	**389,000**
Recreational SSL[f]						**3100**	**3100**	**6.19**	**3100**	**186,000**
Residential SSL[c]						**391**	**391**	**0.782**	**394**	**23,500**
RE00-23-259862	00-61736	SE3	North	3–4	SOIL	—	—	—	—	248
RE00-23-259863	00-61736	SE3	North	6.5–7.5	QBT3	1.8	—	—	—	—
RE00-23-259864	00-61737	NE2	North	0–1	SOIL	—	—	—	—	466
RE00-23-259866	00-61737	NE2	North	6.5–7.5	QBT3	0.784 (J)	—	—	—	—
RE00-23-259867	00-61738	NE1	North	0–1	SOIL	—	1.19	—	—	318
RE00-23-259868	00-61738	NE1	North	3–4	SOIL	—	—	—	—	240
RE00-23-259869	00-61738	NE1	North	6.5–7.5	QBT3	0.603 (J)	3.94	—	—	612
RE00-23-282088	00-61739	NE6	North	17–18	QBT3	1.86	—	—	—	—
RE00-23-282089	00-61739	NE6	North	19–20	QBT3	1.98	—	—	—	—
RE00-23-259873	00-61740	2 25NW	North	0–1	SOIL	—	—	—	—	346
RE00-23-259874	00-61740	2 25NW	North	3–4	SOIL	—	—	—	—	417
RE00-23-259875	00-61740	2 25NW	North	6.5–7.5	QBT3	1.38	—	—	—	63.7
RE00-23-259876	00-61741	N1	North	0–1	SOIL	—	2.18	—	—	83.4
RE00-23-259877	00-61741	N1	North	3–4	SOIL	—	—	—	—	102
RE00-23-259878	00-61741	N1	North	6.5–7.5	QBT3	2.32	—	—	—	—
RE00-23-259882	00-61743	SE2	North	0–1	SOIL	1.89	—	—	—	—
RE00-23-259883	00-61743	SE2	North	3–4	SOIL	—	—	—	—	112
RE00-23-259884	00-61743	SE2	North	6.5–7.5	QBT3	1.94	—	—	—	—
RE00-23-265182	00-61744	N2	North	0–1	SOIL	—	—	—	—	68.7
RE00-23-265183	00-61744	N2	North	3–4	SOIL	—	—	—	—	—
RE00-23-265184	00-61744	N2	North	6.5–7.5	QBT3	0.359 (J)	—	—	—	—
RE00-23-265179	00-61745	NE10	North	0–1	SOIL	—	—	—	—	417 (J)
RE00-23-265180	00-61745	NE10	North	3–4	SOIL	—	—	—	—	—
RE00-23-264877	00-61745	NE10	North	6.5–7.5	QBT3	1.43	—	—	—	—
RE00-23-264878	00-61746	N5	North	0–1	SOIL	—	—	—	—	—
RE00-23-264879	00-61746	N5	North	3–4	SOIL	—	—	—	—	—
RE00-23-264880	00-61746	N5	North	6.5–7.5	QBT3	1.2	—	—	—	—

Table 5.2-1 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Selenium	Silver	Thallium	Vanadium	Zinc
Soil BV[b]						**1.52**	**1**	**0.73**	**39.6**	**48.8**
Qbt2, 3, 4 BV[b]						**0.3**	**1**	**1.1**	**17**	**63.5**
Construction Worker SSL[c]						**1750**	**1770**	**3.54**	**614**	**106,000**
Industrial SSL[c]						**6490**	**6490**	**13**	**6530**	**389,000**
Recreational SSL[f]						**3100**	**3100**	**6.19**	**3100**	**186,000**
Residential SSL[c]						**391**	**391**	**0.782**	**394**	**23,500**
RE00-23-264881	00-61747	N4	North	0–1	SOIL	—	—	—	—	55.6
RE00-23-264882	00-61747	N4	North	3–4	SOIL	—	—	—	—	—
RE00-23-264883	00-61747	N4	North	6.5–7.5	QBT3	1.24	—	—	19.1	—
RE00-23-264884	00-61748	NE4	North	0–1	SOIL	1.7	—	—	—	198
RE00-23-264885	00-61748	NE4	North	3–4	SOIL	—	—	—	—	154
RE00-23-264886	00-61748	NE4	North	6.5–7.5	SOIL	1.66	—	—	—	94
RE00-23-265185	00-61749	N3	North	0–1	SOIL	—	—	—	—	—
RE00-23-265187	00-61749	N3	North	6.5–7.5	QBT3	0.317 (U)	—	—	—	—
RE00-23-265188	00-61750	NE3	North	0–1	SOIL	—	—	—	—	—
RE00-23-265189	00-61750	NE3	North	3–4	SOIL	—	—	—	—	—
RE00-23-265190	00-61750	NE3	North	6.5–7.5	QBT3	0.373 (U)	—	—	—	—
RE00-23-264893	00-61751	2 20NEV	North	9–10	QBT3	1.71	1.13 (J)	—	—	480
RE00-23-264894	00-61751	2 20NEV	North	11–12	QBT3	2.02	1.97 (J)	—	—	372
RE00-23-264896	00-61752	N6	North	0–1	SOIL	—	—	—	—	60
RE00-23-264897	00-61752	N6	North	3–4	SOIL	—	—	—	—	—
RE00-23-264898	00-61752	N6	North	6.5–7.5	QBT3	0.913 (J)	—	—	—	—
RE00-23-264899	00-61753	NE5	North	0–1	SOIL	—	3.37	—	—	349
RE00-23-264901	00-61753	NE5	North	6.5–7.5	QBT3	0.353 (U)	—	—	—	—
RE00-23-264902	00-61754	SE1V	North	9–10	QBT3	0.904 (J)	—	—	—	—
RE00-23-264903	00-61754	SE1V	North	11–12	QBT3	0.846 (J)	—	—	—	—
RE00-23-264908	00-61756	SE10	North	0–1	SOIL	—	—	—	—	50.4
RE00-23-264909	00-61756	SE10	North	3–4	SOIL	—	—	—	—	—
RE00-23-264910	00-61756	SE10	North	5–6	QBT3	0.419 (J)	—	—	—	—
RE00-23-267856	00-61757	SE4	North	0–1	SOIL	—	—	—	—	—
RE00-23-267857	00-61757	SE4	North	3–4	SOIL	—	—	—	—	1430
RE00-23-267858	00-61757	SE4	North	6.5–7.5	QBT3	0.347 (J)	4.72	—	—	1310
RE00-23-267859	00-61758	SE7	North	0–1	SOIL	—	—	—	—	54.4

Table 5.2-1 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Selenium	Silver	Thallium	Vanadium	Zinc
Soil BV[b]						**1.52**	**1**	**0.73**	**39.6**	**48.8**
Qbt2, 3, 4 BV[b]						**0.3**	**1**	**1.1**	**17**	**63.5**
Construction Worker SSL[c]						**1750**	**1770**	**3.54**	**614**	**106,000**
Industrial SSL[c]						**6490**	**6490**	**13**	**6530**	**389,000**
Recreational SSL[f]						**3100**	**3100**	**6.19**	**3100**	**186,000**
Residential SSL[c]						**391**	**391**	**0.782**	**394**	**23,500**
RE00-23-267860	00-61758	SE7	North	3–4	SOIL	—	1.83	—	—	385
RE00-23-267861	00-61758	SE7	North	6.5–7.5	QBT3	0.417 (J)	4.96	—	—	92.3
RE00-23-267871	00-61762	NE7	North	0–1	SOIL	—	—	—	—	125 (J)
RE00-23-267872	00-61762	NE7	North	3–4	SOIL	—	—	—	—	—
RE00-23-267873	00-61762	NE7	North	6–7	QBT3	0.869 (J)	—	—	—	—
RE00-23-267874	00-61763	NE28	North	0–1	SOIL	—	—	—	—	—
RE00-23-267876	00-61763	NE28	North	5–6	QBT3	1.68	—	—	—	—
RE00-23-267877	00-61764	NE23	North	0–1	SOIL	—	—	—	—	127
RE00-23-267878	00-61764	NE23	North	3–4	SOIL	—	—	—	—	—
RE00-23-267879	00-61764	NE23	North	5–6	QBT3	1.26	—	—	—	—
RE00-23-267882	00-61765	NE24	North	5–6	QBT3	1.25	—	—	—	—
RE00-23-267886	00-61767	NE26	North	0–1	SOIL	—	—	—	—	62.1
RE00-23-267887	00-61767	NE26	North	3–4	SOIL	—	—	—	—	—
RE00-23-267888	00-61767	NE26	North	5–6	QBT3	1.39	—	—	—	—
RE00-23-267889	00-61768	NE29	North	0.5–1.5	SOIL	—	—	—	—	—
RE00-23-267890	00-61768	NE29	North	3.5–4.5	QBT3	0.814 (J)	—	—	—	—
RE00-23-267891	00-61768	NE29	North	5.5–6.5	QBT3	0.868 (J)	—	—	—	—
RE00-23-271182	00-61775	NE34	North	3.5–4.5	QBT3	1.17	—	—	—	—
RE00-23-271183	00-61775	NE34	North	5.5–6.5	QBT3	2	—	—	—	—
RE00-23-271187	00-61776	NE25	North	5–6	QBT3	2.08	—	—	—	—
RE00-23-271191	00-61778	NE37	North	2–4	SOIL	—	—	—	—	—
RE00-23-271192	00-61778	NE37	North	4–5	QBT3	0.529 (J)	—	—	—	—
RE00-23-271196	00-61779	SE11	North	6.5–7.5	QBT3	1.66	—	—	—	279
RE00-23-271197	00-61780	NE20	North	0–1	SOIL	—	—	—	—	314
RE00-23-271198	00-61780	NE20	North	3–4	SOIL	—	—	—	—	—
RE00-23-271199	00-61780	NE20	North	6.5–7.5	QBT3	0.556 (J)	—	—	—	—
RE00-23-271200	00-61781	NE21	North	0–1	SOIL	—	—	—	—	312

Table 5.2-1 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Selenium	Silver	Thallium	Vanadium	Zinc
Soil BV[b]						**1.52**	**1**	**0.73**	**39.6**	**48.8**
Qbt2, 3, 4 BV[b]						**0.3**	**1**	**1.1**	**17**	**63.5**
Construction Worker SSL[c]						**1750**	**1770**	**3.54**	**614**	**106,000**
Industrial SSL[c]						**6490**	**6490**	**13**	**6530**	**389,000**
Recreational SSL[f]						**3100**	**3100**	**6.19**	**3100**	**186,000**
Residential SSL[c]						**391**	**391**	**0.782**	**394**	**23,500**
RE00-23-271201	00-61781	NE21	North	3–4	SOIL	—	—	—	—	—
RE00-23-271202	00-61781	NE21	North	6.5–7.5	SOIL	—	—	—	—	—
RE00-23-271203	00-61782	NE54	North	0–1	SOIL	—	—	—	—	258
RE00-23-271205	00-61782	NE54	North	6.5–7.5	QBT3	0.634 (J)	—	—	—	—
RE00-23-271206	00-61783	NE53	North	0–1	SOIL	—	—	—	—	137
RE00-23-271207	00-61783	NE53	North	3–4	SOIL	—	—	—	—	74.2
RE00-23-271208	00-61783	NE53	North	6.5–7.5	QBT3	0.786 (J)	—	—	—	96.4
RE00-23-271209	00-61784	SE14	North	0–1	SOIL	—	1.49	—	—	96.3
RE00-23-271210	00-61784	SE14	North	3–4	SOIL	—	—	—	—	109
RE00-23-271211	00-61784	SE14	North	5–6	QBT3	0.552 (J)	—	—	—	—
RE00-23-271212	00-61785	SE13	North	2–3	SOIL	—	—	—	—	—
RE00-23-271213	00-61785	SE13	North	4–5	QBT3	0.805 (J)	—	—	—	—
RE00-23-271215	00-61786	SE12	North	0–1	SOIL	—	2.7 (J+)	—	—	397
RE00-23-271216	00-61786	SE12	North	3–4	SOIL	—	3.85 (J+)	—	—	325
RE00-23-271217	00-61786	SE12	North	11–12	QBT3	1.69	1.63 (J+)	—	—	146
RE00-23-271218	00-61787	SE15	North	0–1	SOIL	—	1.66 (J+)	—	—	136
RE00-23-271219	00-61787	SE15	North	3–4	SOIL	—	4.62 (J+)	—	—	282
RE00-23-271220	00-61787	SE15	North	11.5–12.5	QBT3	0.656 (J)	1.39 (J+)	—	—	101
RE00-23-271227	00-61790	NE45	North	0.5–1.5	SOIL	—	—	—	—	—
RE00-23-271228	00-61790	NE45	North	2.5–3.5	QBT3	0.691 (J)	—	—	—	—
RE00-23-271230	00-61791	NE47	North	1–2	SOIL	—	—	—	—	—
RE00-23-271231	00-61791	NE47	North	2.5–3.5	QBT3	0.605 (J)	—	—	—	—
RE00-23-271233	00-61792	NE55	North	0–1	SOIL	—	—	—	—	96.2
RE00-23-271234	00-61792	NE55	North	3–4	SOIL	—	—	—	—	—
RE00-23-271235	00-61792	NE55	North	6.5–7.5	QBT3	0.606 (J)	—	—	—	—
RE00-23-271237	00-61793	NE38	North	5–6	QBT3	0.911 (J)	—	—	—	—
RE00-23-271239	00-61794	NE39	North	0.5–1.5	SOIL	—	—	—	—	—

Table 5.2-1 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Selenium	Silver	Thallium	Vanadium	Zinc
Soil BV[b]						**1.52**	**1**	**0.73**	**39.6**	**48.8**
Qbt2, 3, 4 BV[b]						**0.3**	**1**	**1.1**	**17**	**63.5**
Construction Worker SSL[c]						**1750**	**1770**	**3.54**	**614**	**106,000**
Industrial SSL[c]						**6490**	**6490**	**13**	**6530**	**389,000**
Recreational SSL[f]						**3100**	**3100**	**6.19**	**3100**	**186,000**
Residential SSL[c]						**391**	**391**	**0.782**	**394**	**23,500**
RE00-23-271240	00-61794	NE39	North	2–3	QBT3	0.813 (J)	—	—	—	—
RE00-23-271242	00-61795	NE48	North	3.5–4.5	QBT3	0.555 (J)	—	—	—	—
RE00-23-271243	00-61795	NE48	North	5.5–6.5	QBT3	0.571 (J)	—	—	—	—
RE00-23-271248	00-61797	NE56	North	0–1	SOIL	—	—	—	—	—
RE00-23-271249	00-61797	NE56	North	2–3	QBT3	1.47	—	—	—	—
RE00-23-282091	00-61799	NE60	North	0–1	SOIL	—	—	—	—	—
RE00-23-282092	00-61799	NE60	North	2–3	QBT3	0.748 (J)	—	—	—	—
RE00-23-289091	00-61804	NE68	North	0–1	SOIL	—	—	—	—	—
RE00-23-289092	00-61804	NE68	North	2–3	QBT3	1.23	—	—	—	—
RE00-23-289873	00-61805	NE64	North	18–19	QBT3	1.38	—	—	—	—
RE00-23-282118	00-61808	NE66	North	0–1	SOIL	—	—	—	—	—
RE00-23-282119	00-61808	NE66	North	2–3	QBT3	0.493 (J)	—	—	—	—
RE00-23-289205	00-61811	NE67	North	0–1	SOIL	—	—	—	—	—
RE00-23-289206	00-61811	NE67	North	2–3	QBT3	1.54	—	—	—	—
RE00-23-289519	00-61813	NE80	North	0–1	SOIL	—	—	—	—	—
RE00-23-289520	00-61813	NE80	North	2–3	SOIL	—	—	—	—	—
RE00-23-289510	00-61815	NE74	North	0–1	SOIL	—	—	—	—	—
RE00-23-289511	00-61815	NE74	North	2–3	SOIL	3.93	—	0.79	—	—
RE00-23-289513	00-61816	NE79	North	0–1	SOIL	—	—	—	—	—
RE00-23-289514	00-61816	NE79	North	2–3	SOIL	1.56	—	—	—	—
RE00-23-289516	00-61817	NE81	North	0–1	SOIL	—	—	—	—	—
RE00-23-289517	00-61817	NE81	North	2–3	QBT3	1.88	—	—	—	—
RE00-23-290099	00-61818	NE82	North	0–1	SOIL	—	—	—	—	—
RE00-23-290100	00-61818	NE82	North	2–3	SOIL	2.31	—	—	—	—
RE00-23-290101	00-61818	NE82	North	4–5	QBT3	1.64	—	—	—	—

Notes: Results are in mg/kg. Data qualifiers are presented in Appendix A.

[a] Sampling location in northern or southern portion of tract A-16-a.

[b] BVs from LANL (1998, 059730).

[c] SSLs from NMED (2022, 702484).

[d] na = Not available.

[e] SSL for total chromium.

[f] SSLs from N3B (2020, 701072).

[g] — = Not detected or not detected above BV.

Table 5.2-2
Organic Chemicals Detected at MDPR Tract A-16-a

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Acenaphthene	Acenaphthylene	Acetone	Acetonitrile	Anthracene	Aroclor-1254	Aroclor-1260	Benzene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene
Construction Worker SSL[b]						**15,100**	**7530[c]**	**242,000**	**1850[d]**	**75,300**	**4.91**	**85.3**	**142**	**240**	**15.0**	**240**	**7530[c]**
Industrial SSL[b]						**50,500**	**25,300[c]**	**960,000**	**3400[e]**	**253,000**	**11**	**11.1**	**87.2**	**32.3**	**23.6**	**32.3**	**25,300[c]**
Recreational SSL[f]						**17,300**	**8630[c]**	**550,000**	**na[g]**	**86,300**	**5.53**	**10.3**	**429**	**88.8**	**8.88**	**88.8**	**8630[c]**
Residential SSL[b]						**3480**	**1740[c]**	**66,300**	**810[e]**	**17,400**	**1.14**	**2.43**	**17.8**	**1.53**	**1.12**	**1.53**	**1740[c]**
RE00-22-238042	00-171	4	North	7.5–8.5	QBT3	—[h]	—	—	—	—	NA[i]	NA	—	—	—	—	—
RE00-22-238043	00-171	4	North	10.5–11.5	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-238046	00-173	9	North	6.5–7.5	QBT3	—	—	—	—	—	NA	NA	—	0.0112 (J)	0.00665	0.0115 (J)	0.0056
RE00-22-238047	00-173	9	North	9.5–10.5	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-238051	00-175	23	North	6.9–7.9	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-238052	00-175	23	North	9.9–10.9	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-238056	00-177	11	North	9–10	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-238057	00-177	11	North	12–13	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-238061	00-179	8	North	8.5–9.5	QBT3	—	—	0.00508 (J)	—	—	NA	NA	—	—	—	—	—
RE00-22-238062	00-179	8	North	11.5–12.5	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-238066	00-181	13	North	8–9	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-238067	00-181	13	North	11–12	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-238071	00-183	10	North	11–12	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-238072	00-183	10	North	14–15	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-238075	00-184	1	North	6–7	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	0.0017 (J)
RE00-22-238076	00-185	24	North	6.5–7.5	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-238077	00-185	24	North	9.5–10.5	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-238078	00-186	97	South	0–1	SOIL	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-238080	00-186	97	South	6.5–7.5	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-238081	00-187	21	North	8–9	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-238082	00-187	21	North	11–12	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-238093	00-190	90	South	13–14	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-238096	00-193	98	North	9.5–10.5	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Acenaphthene	Acenaphthylene	Acetone	Acetonitrile	Anthracene	Aroclor-1254	Aroclor-1260	Benzene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene
Construction Worker SSL[b]						**15,100**	**7530[c]**	**242,000**	**1850[d]**	**75,300**	**4.91**	**85.3**	**142**	**240**	**15.0**	**240**	**7530[c]**
Industrial SSL[b]						**50,500**	**25,300[c]**	**960,000**	**3400[e]**	**253,000**	**11**	**11.1**	**87.2**	**32.3**	**23.6**	**32.3**	**25,300[c]**
Recreational SSL[f]						**17,300**	**8630[c]**	**550,000**	**na[g]**	**86,300**	**5.53**	**10.3**	**429**	**88.8**	**8.88**	**88.8**	**8630[c]**
Residential SSL[b]						**3480**	**1740[c]**	**66,300**	**810[e]**	**17,400**	**1.14**	**2.43**	**17.8**	**1.53**	**1.12**	**1.53**	**1740[c]**
RE00-22-238097	00-193	98	North	12.5–13.5	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-238100	00-195	25	North	8.5–9.5	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-238101	00-195	25	North	11.5–12.5	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-238103	00-196	3	North	3.3–4.5	FILL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238104	00-196	3	North	7.5–8.5	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238105	00-197	27	North	8.5–9.5	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-238106	00-197	27	North	11.5–12.5	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-238107	00-198	99	South	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238108	00-198	99	South	3–4	SOIL	—	—	—	—	—	—	0.0298	—	—	—	—	—
RE00-22-238109	00-198	99	South	6–7.1	QBT3	—	—	—	—	—	—	0.00255 (J)	—	—	—	—	—
RE00-22-238110	00-199	28	North	12.5–13.5	QBT3	—	—	—	—	—	NA	NA	—	0.00201 (J)	—	0.00168 (J)	—
RE00-22-238111	00-199	28	North	15.5–16.5	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-238112	00-200	66	South	0–1	FILL	—	—	—	—	—	—	0.00204 (J)	—	—	—	—	—
RE00-22-238113	00-200	66	South	4–5	FILL	—	—	—	—	—	—	0.00387	—	—	—	—	—
RE00-22-238114	00-200	66	South	6.1–7.1	QBT3	—	—	—	—	—	—	0.00206 (J)	—	—	—	—	—
RE00-22-238115	00-201	89	South	7.5–8.5	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-238116	00-201	89	South	10.5–11.5	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-238117	00-202	92	South	0–1	FILL	—	—	—	—	—	0.0275	0.052	—	0.0351 (J)	—	0.0351 (J)	—
RE00-22-238118	00-202	92	South	3–4	FILL	—	—	—	—	—	—	0.423	—	—	—	—	—
RE00-22-238119	00-202	92	South	7.7–8.7	QBT3	—	—	—	—	—	—	0.0237	—	—	—	—	—
RE00-22-238122	00-204	57A	South	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238123	00-204	57A	South	3–4	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238124	00-204	57A	South	7.9–8.9	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238125	00-205	72	South	13–14	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-238126	00-205	72	South	16–17	QBT3	—	—	—	0.00969 (J+)	—	NA	NA	—	—	—	—	—

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Acenaphthene	Acenaphthylene	Acetone	Acetonitrile	Anthracene	Aroclor-1254	Aroclor-1260	Benzene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene
Construction Worker SSL[b]						**15,100**	**7530[c]**	**242,000**	**1850[d]**	**75,300**	**4.91**	**85.3**	**142**	**240**	**15.0**	**240**	**7530[c]**
Industrial SSL[b]						**50,500**	**25,300[c]**	**960,000**	**3400[e]**	**253,000**	**11**	**11.1**	**87.2**	**32.3**	**23.6**	**32.3**	**25,300[c]**
Recreational SSL[f]						**17,300**	**8630[c]**	**550,000**	**na[g]**	**86,300**	**5.53**	**10.3**	**429**	**88.8**	**8.88**	**88.8**	**8630[c]**
Residential SSL[b]						**3480**	**1740[c]**	**66,300**	**810[e]**	**17,400**	**1.14**	**2.43**	**17.8**	**1.53**	**1.12**	**1.53**	**1740[c]**
RE00-22-238129	00-206	18	North	7.8–8.8	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238130	00-207	71	South	10–11	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-238131	00-207	71	South	13–14	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-238132	00-208	70	South	0–1	FILL	—	—	—	—	—	—	—	—	0.0345 (J)	0.0345 (J)	0.0552 (J)	—
RE00-22-238133	00-208	70	South	4–5	SOIL	—	—	—	—	—	—	0.0225 (J)	—	0.00297 (J)	0.00185 (J)	0.00297 (J)	0.00259 (J)
RE00-22-238134	00-208	70	South	9–10	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238135	00-209	76	South	13–14	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-238136	00-209	76	South	16–17	QBT3	—	—	—	0.0102 (J+)	—	NA	NA	—	—	—	—	—
RE00-22-238139	00-210	29	North	0–1.4	FILL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238138	00-210	29	North	4–5	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238137	00-210	29	North	7–8	QBT3	—	—	—	—	—	—	0.00182 (J)	—	—	—	—	—
RE00-22-238140	00-211	82	South	14.5–15.5	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-238141	00-211	82	South	17.5–18.5	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-238142	00-212	20	North	0–1	FILL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238143	00-212	20	North	4–5	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238144	00-212	20	North	6.2–7.2	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238145	00-213	79	South	12–13	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-238146	00-213	79	South	15–16	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-238147	00-214	26	North	0–1	FILL	—	—	—	—	—	—	—	—	0.00288 (J)	0.00324 (J)	0.00396	0.00288 (J)
RE00-22-238148	00-214	26	North	4–5	SOIL	—	0.00185 (J)	—	—	—	—	—	0.000771 (J)	0.00332 (J)	0.00258 (J)	0.00406 (J)	0.00295 (J)
RE00-22-238149	00-214	26	North	6.8–7.8	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238150	00-215	12	North	7.5–8.5	QBT3	—	—	—	—	—	NA	NA	—	0.0021 (J)	0.00245 (J)	0.00314 (J)	0.0021 (J)
RE00-22-238151	00-215	12	North	10.5–11.5	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-238153	00-216	83	South	15–16	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-238154	00-217	80	South	12–13	QBT3	—	—	—	—	0.00249 (J)	NA	NA	—	0.00356	0.0274	0.0757	0.0434

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Acenaphthene	Acenaphthylene	Acetone	Acetonitrile	Anthracene	Aroclor-1254	Aroclor-1260	Benzene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene
Construction Worker SSL[b]						**15,100**	**7530[c]**	**242,000**	**1850[d]**	**75,300**	**4.91**	**85.3**	**142**	**240**	**15.0**	**240**	**7530[c]**
Industrial SSL[b]						**50,500**	**25,300[c]**	**960,000**	**3400[e]**	**253,000**	**11**	**11.1**	**87.2**	**32.3**	**23.6**	**32.3**	**25,300[c]**
Recreational SSL[f]						**17,300**	**8630[c]**	**550,000**	**na[g]**	**86,300**	**5.53**	**10.3**	**429**	**88.8**	**8.88**	**88.8**	**8630[c]**
Residential SSL[b]						**3480**	**1740[c]**	**66,300**	**810[e]**	**17,400**	**1.14**	**2.43**	**17.8**	**1.53**	**1.12**	**1.53**	**1740[c]**
RE00-22-238156	00-218	22	North	0–1	FILL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238157	00-218	22	North	4–5	FILL	0.164	0.064 (J)	—	—	0.256	—	0.00284 (J)	—	0.313 (J)	0.313	0.327	0.213
RE00-22-238158	00-218	22	North	11.9–12.9	QBT3	—	—	—	—	0.0422 (J)	—	—	—	0.0352 (J)	0.0352 (J)	0.0633 (J)	0.0422 (J)
RE00-22-238159	00-219	87	South	8.5–9.5	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-238161	00-220	85	South	0–1	FILL	—	—	—	—	—	—	0.00996	—	—	0.0362 (J)	0.0434 (J)	0.0362 (J)
RE00-22-238162	00-220	85	South	3–4	FILL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238163	00-220	85	South	4.9–5.9	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238164	00-221	84	South	11–12	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-238165	00-221	84	South	14–15	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-238166	00-222	7	North	0–1	FILL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238167	00-222	7	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238168	00-222	7	North	5–6	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238169	00-223	81	South	6.5–7.5	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-238170	00-223	81	South	9.5–10.5	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-238174	00-225	77	South	8.5–9.5	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-238175	00-225	77	South	11.5–12.5	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-238176	00-226	95	South	0–1	FILL	—	—	—	—	—	NA	NA	—	0.0697	0.0697	0.0906	0.0348 (J)
RE00-22-238177	00-226	95	South	3–4	SOIL	—	—	—	—	—	NA	NA	—	0.0426 (J)	0.0355 (J)	—	—
RE00-22-238178	00-226	95	South	6–7	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-238179	00-227	78	South	7.5–8.5	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-238181	00-228	59	South	0–1	FILL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238281	00-228	59	South	4–5	SOIL	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-238184	00-229	73	South	7.5–8.5	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-238185	00-229	73	South	10.5–11.5	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-238189	00-231	69	South	7.5–8.5	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Acenaphthene	Acenaphthylene	Acetone	Acetonitrile	Anthracene	Aroclor-1254	Aroclor-1260	Benzene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene
Construction Worker SSL[b]						**15,100**	**7530[c]**	**242,000**	**1850[d]**	**75,300**	**4.91**	**85.3**	**142**	**240**	**15.0**	**240**	**7530[c]**
Industrial SSL[b]						**50,500**	**25,300[c]**	**960,000**	**3400[e]**	**253,000**	**11**	**11.1**	**87.2**	**32.3**	**23.6**	**32.3**	**25,300[c]**
Recreational SSL[f]						**17,300**	**8630[c]**	**550,000**	**na[g]**	**86,300**	**5.53**	**10.3**	**429**	**88.8**	**8.88**	**88.8**	**8630[c]**
Residential SSL[b]						**3480**	**1740[c]**	**66,300**	**810[e]**	**17,400**	**1.14**	**2.43**	**17.8**	**1.53**	**1.12**	**1.53**	**1740[c]**
RE00-22-238190	00-231	69	South	10.5–11.5	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-238192	00-232	96	South	0–1	FILL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238191	00-232	96	South	4–5	FILL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238193	00-232	96	South	6–7	QBT3	—	—	—	—	—	—	0.00395	—	—	—	—	—
RE00-22-238194	00-233	64	South	7.5–8.5	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-238195	00-233	64	South	10.5–11.5	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-238196	00-234	61	South	12.5–13.5	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	0.00179 (J)
RE00-22-238197	00-234	61	South	15.5–16.5	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-238199	00-235	57	South	12–13	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-238200	00-236	60	South	13–14	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-238201	00-236	60	South	16–17	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-238202	00-237	62	South	8.5–9.5	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-238203	00-237	62	South	11.5–12.5	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-238204	00-238	63	South	4–5	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-238205	00-238	63	South	7–8	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-238208	00-240	68	South	5–6	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-238226	00-249	5	North	8–9	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-238237	00-254	15	North	7–8	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-238239	00-255	93	South	4–5	FILL	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-238242	00-256	14	North	7.3–8.3	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-239164	00-257	6	North	6.1–7.1	QBT3	—	—	—	—	—	—	0.00114 (J)	0.000389 (J)	—	—	—	—
RE00-22-238248	00-259	75	South	0–1	FILL	—	—	—	—	—	NA	NA	—	—	0.041 (J)	0.0752	0.0342 (J)
RE00-22-238249	00-259	75	South	3–4	FILL	—	—	—	—	—	NA	NA	—	0.00329 (J)	0.00256 (J)	0.00475	0.00183 (J)
RE00-22-238250	00-259	75	South	6.9–7.9	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-238251	00-260	88	South	0–1	FILL	—	—	—	—	—	NA	NA	—	0.042 (J)	0.056 (J)	0.07	0.042 (J)

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Acenaphthene	Acenaphthylene	Acetone	Acetonitrile	Anthracene	Aroclor-1254	Aroclor-1260	Benzene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene
Construction Worker SSL[b]						**15,100**	**7530[c]**	**242,000**	**1850[d]**	**75,300**	**4.91**	**85.3**	**142**	**240**	**15.0**	**240**	**7530[c]**
Industrial SSL[b]						**50,500**	**25,300[c]**	**960,000**	**3400[e]**	**253,000**	**11**	**11.1**	**87.2**	**32.3**	**23.6**	**32.3**	**25,300[c]**
Recreational SSL[f]						**17,300**	**8630[c]**	**550,000**	**na[g]**	**86,300**	**5.53**	**10.3**	**429**	**88.8**	**8.88**	**88.8**	**8630[c]**
Residential SSL[b]						**3480**	**1740[c]**	**66,300**	**810[e]**	**17,400**	**1.14**	**2.43**	**17.8**	**1.53**	**1.12**	**1.53**	**1740[c]**
RE00-22-238253	00-261	56A	North	0–1	SOIL	0.0533	—	—	—	0.0945	NA	NA	—	0.23	0.173	0.259	0.0561
RE00-22-238254	00-261	56A	North	3–4	SOIL	—	—	—	—	0.0108	NA	NA	0.00079 (J)	0.059	0.0672	0.0893	0.0269 (J)
RE00-22-238255	00-261	56A	North	11.6–12.6	QBT3	—	—	—	—	0.00213 (J)	NA	NA	—	0.0121 (J)	0.00709	0.0117 (J)	0.00355
RE00-22-238273	00-61519	16	North	0–1	FILL	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-238278	00-61519	16	North	3–4	SOIL	—	—	—	—	—	NA	NA	—	0.0628 (J)	0.0698	0.0908	0.0349 (J)
RE00-22-238283	00-61519	16	North	12–13	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-238279	00-61520	South	North	4–5	FILL	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-238282	00-61523	74	South	4–5	SOIL	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-238277	00-61523	74	South	8–9	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-238300	00-61526	56	North	6–7	FILL	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-239217	00-61546	19	North	0–1	FILL	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-239227	00-61546	19	North	4–5	SOIL	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-239237	00-61546	19	North	5.75–6.8	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-239218	00-61547	55A	North	0–1	SOIL	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-239228	00-61547	55A	North	3–4	SOIL	—	—	—	—	0.0223 (J)	NA	NA	—	0.0371	0.0371	0.0482	0.0223 (J)
RE00-22-239238	00-61547	55A	North	11.9–12.9	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-239221	00-61550	58A	South	0–1	SOIL	—	—	—	—	0.00581	NA	NA	—	0.0207 (J)	0.0152	0.0243 (J)	0.00472
RE00-22-239231	00-61550	58A	South	3–4	SOIL	—	—	—	—	0.00486	NA	NA	—	0.0198 (J)	0.0123	0.0213	0.00486
RE00-22-239241	00-61550	58A	South	8–9	QBT3	—	—	—	—	—	NA	NA	0.00044 (J)	0.00354	0.00283 (J)	0.0046	—
RE00-22-239224	00-61553	54A	North	0–1	SOIL	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-239234	00-61553	54A	North	4–5	SOIL	—	—	—	—	—	NA	NA	—	0.0424 (J)	0.0353 (J)	0.0565 (J)	0.0353 (J)
RE00-22-239244	00-61553	54A	North	6.9–7.9	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-248888	00-61568	29 5NE	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-248889	00-61568	29 5NE	North	4–5	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-248890	00-61568	29 5NE	North	7–8	QBT3	—	—	—	—	—	—	—	—	—	—	—	—

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Acenaphthene	Acenaphthylene	Acetone	Acetonitrile	Anthracene	Aroclor-1254	Aroclor-1260	Benzene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene
Construction Worker SSL[b]						**15,100**	**7530[c]**	**242,000**	**1850[d]**	**75,300**	**4.91**	**85.3**	**142**	**240**	**15.0**	**240**	**7530[c]**
Industrial SSL[b]						**50,500**	**25,300[c]**	**960,000**	**3400[e]**	**253,000**	**11**	**11.1**	**87.2**	**32.3**	**23.6**	**32.3**	**25,300[c]**
Recreational SSL[f]						**17,300**	**8630[c]**	**550,000**	**na[g]**	**86,300**	**5.53**	**10.3**	**429**	**88.8**	**8.88**	**88.8**	**8630[c]**
Residential SSL[b]						**3480**	**1740[c]**	**66,300**	**810[e]**	**17,400**	**1.14**	**2.43**	**17.8**	**1.53**	**1.12**	**1.53**	**1740[c]**
RE00-22-248891	00-61569	29 5S	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-248892	00-61569	29 5S	North	4–5	SOIL	—	—	—	—	—	—	—	0.00046 (J)	—	—	—	—
RE00-22-248893	00-61569	29 5S	North	7–8	QBT3	—	—	—	—	—	—	—	0.00104 (J)	—	—	—	—
RE00-22-249057	00-61569	29 5S	North	9–10	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-249058	00-61569	29 5S	North	11–12	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-248894	00-61570	29 5SE	North	0–1	SOIL	—	—	—	—	—	—	0.00352 (J)	—	0.0216 (J)	—	0.0252 (J)	—
RE00-22-248895	00-61570	29 5SE	North	4–5	SOIL	—	—	—	—	—	0.00156 (J)	—	—	—	—	—	—
RE00-22-248896	00-61570	29 5SE	North	7–8	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-248897	00-61571	22 5E	North	0–1	SOIL	—	—	—	—	—	—	0.00197 (J)	—	—	—	—	—
RE00-22-248898	00-61571	22 5E	North	4–5	SOIL	—	—	—	—	—	—	0.00233 (J)	—	—	—	0.0852 (J)	—
RE00-22-248899	00-61571	22 5E	North	11.9–12.9	QBT3	—	—	—	—	—	—	0.0017 (J)	—	—	—	—	—
RE00-22-248900	00-61572	92 5E	South	0–1	SOIL	—	—	—	—	—	—	0.0168 (J)	—	0.221 (J)	0.0589 (J)	0.0736	0.0442 (J)
RE00-22-248901	00-61572	92 5E	South	3–4	SOIL	—	—	—	—	—	—	0.00582	—	—	—	—	—
RE00-22-248902	00-61572	92 5E	South	7.7–8.7	QBT3	—	—	—	—	—	—	0.00308 (J)	—	—	—	—	—
RE00-22-248903	00-61573	92 5N	South	0–1	SOIL	—	—	—	—	—	—	0.0589 (J)	—	—	—	0.0864 (J)	—
RE00-22-248904	00-61573	92 5N	South	3–4	SOIL	—	—	—	—	—	—	0.0601	—	—	—	—	—
RE00-22-248905	00-61573	92 5N	South	7.7–8.7	QBT3	—	—	—	—	—	—	0.0217	—	—	—	—	—
RE00-22-248906	00-61574	56A 5E	North	0–1	SOIL	—	—	—	—	—	NA	NA	—	0.0355 (J)	—	0.0426 (J)	—
RE00-22-248907	00-61574	56A 5E	North	3–4	SOIL	—	—	—	—	—	NA	NA	—	—	—	0.0435 (J)	—
RE00-22-248909	00-61575	56A 5N	North	0–1	SOIL	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-248910	00-61575	56A 5N	North	3–4	SOIL	—	—	—	—	—	NA	NA	0.000549 (J)	—	—	—	—
RE00-22-248911	00-61575	56A 5N	North	11.6–12.6	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-248913	00-61576	56A 5W	North	3–4	SOIL	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-248914	00-61576	56A 5W	North	11.6–12.6	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-248915	00-61577	56A 5S	North	0–1	SOIL	—	—	—	—	—	NA	NA	—	—	—	0.0429 (J)	—

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Acenaphthene	Acenaphthylene	Acetone	Acetonitrile	Anthracene	Aroclor-1254	Aroclor-1260	Benzene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene
Construction Worker SSL[b]						**15,100**	**7530[c]**	**242,000**	**1850[d]**	**75,300**	**4.91**	**85.3**	**142**	**240**	**15.0**	**240**	**7530[c]**
Industrial SSL[b]						**50,500**	**25,300[c]**	**960,000**	**3400[e]**	**253,000**	**11**	**11.1**	**87.2**	**32.3**	**23.6**	**32.3**	**25,300[c]**
Recreational SSL[f]						**17,300**	**8630[c]**	**550,000**	**na[g]**	**86,300**	**5.53**	**10.3**	**429**	**88.8**	**8.88**	**88.8**	**8630[c]**
Residential SSL[b]						**3480**	**1740[c]**	**66,300**	**810[e]**	**17,400**	**1.14**	**2.43**	**17.8**	**1.53**	**1.12**	**1.53**	**1740[c]**
RE00-22-248916	00-61577	56A 5S	North	3–4	SOIL	—	—	—	—	—	NA	NA	—	0.0522 (J)	0.0522 (J)	0.0745	0.0447 (J)
RE00-22-248930	00-61581	2 5S	North	6.5–7.5	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-248979	00-61582	2 5SE	North	8.5–9.5	QBT3	—	—	—	—	—	NA	NA	—	0.00171 (J)	—	0.00171 (J)	—
RE00-22-248982	00-61582	2 5SE	North	10.5–11.5	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-248934	00-61583	58 5E	South	0–1	SOIL	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-248935	00-61583	58 5E	South	4–5	SOIL	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-255298	00-61584	58 5SW	South	13–14	SOIL	—	—	—	—	—	NA	NA	—	0.00227 (J)	0.00265 (J)	0.00416	0.00303 (J)
RE00-22-248943	00-61586	94 5S	South	0–1	SOIL	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-248944	00-61586	94 5S	South	4–5	SOIL	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-248947	00-61587	94 5E	South	4–5	SOIL	—	—	—	—	—	NA	NA	0.000889 (J)	—	—	0.0176 (J)	—
RE00-22-248948	00-61587	94 5E	South	9.1–9.9	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-249009	00-61587	94 5E	South	10.9–11.9	QBT3	—	—	—	—	0.0037	NA	NA	—	0.00605	0.00437	0.00639	0.0037
RE00-22-249010	00-61587	94 5E	South	12.9–13.9	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-248949	00-61588	94 5W	South	0–1	SOIL	—	—	—	—	—	NA	NA	—	0.0364	0.051	0.0546	0.0328 (J)
RE00-22-248950	00-61588	94 5W	South	4–5	SOIL	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-248952	00-61589	29 5W	North	0–1	SOIL	—	—	—	—	—	0.0075 (J)	0.00841 (J)	—	0.0241 (J)	0.0172 (J)	0.0241 (J)	—
RE00-22-248953	00-61589	29 5W	North	4–5	SOIL	—	—	—	—	—	—	0.0786	—	—	—	—	—
RE00-22-248954	00-61589	29 5W	North	7–8	QBT3	—	—	—	—	—	—	0.00696	—	—	—	0.00175 (J)	—
RE00-22-248955	00-61589	29 5W	North	11.5–12.5	QBT3	—	—	—	—	—	—	0.00977	—	—	—	—	—
RE00-22-248956	00-61590	95 5W	South	0–1	SOIL	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-248957	00-61590	95 5W	South	3–4	SOIL	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-248958	00-61590	95 5W	South	6–7	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-248960	00-61591	1 5S	North	3–4	SOIL	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-248961	00-61591	1 5S	North	6–7	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-248962	00-61592	1 5SW	North	0–1	SOIL	—	—	—	—	—	NA	NA	—	—	—	—	—

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Acenaphthene	Acenaphthylene	Acetone	Acetonitrile	Anthracene	Aroclor-1254	Aroclor-1260	Benzene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene
Construction Worker SSL[b]						**15,100**	**7530[c]**	**242,000**	**1850[d]**	**75,300**	**4.91**	**85.3**	**142**	**240**	**15.0**	**240**	**7530[c]**
Industrial SSL[b]						**50,500**	**25,300[c]**	**960,000**	**3400[e]**	**253,000**	**11**	**11.1**	**87.2**	**32.3**	**23.6**	**32.3**	**25,300[c]**
Recreational SSL[f]						**17,300**	**8630[c]**	**550,000**	**na[g]**	**86,300**	**5.53**	**10.3**	**429**	**88.8**	**8.88**	**88.8**	**8630[c]**
Residential SSL[b]						**3480**	**1740[c]**	**66,300**	**810[e]**	**17,400**	**1.14**	**2.43**	**17.8**	**1.53**	**1.12**	**1.53**	**1740[c]**
RE00-22-248963	00-61592	1 5SW	North	3–4	SOIL	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-248964	00-61592	1 5SW	North	6–7	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-248965	00-61593	1 5NE	North	0–1	SOIL	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-248966	00-61593	1 5NE	North	3–4	SOIL	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-248967	00-61593	1 5NE	North	6–7	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-248968	00-61594	1 5NW	North	0–1	SOIL	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-248969	00-61594	1 5NW	North	3–4	SOIL	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-248970	00-61594	1 5NW	North	6–7	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-248985	00-61599	2 10N	North	6.5–7.5	QBT3	—	—	—	—	—	NA	NA	0.000356 (J)	—	—	—	—
RE00-22-248986	00-61600	22 5NE	North	0–1	SOIL	—	—	—	—	—	—	0.00132 (J)	—	—	—	—	—
RE00-22-248987	00-61600	22 5NE	North	4–5	SOIL	—	—	—	—	—	—	0.0028 (J)	—	0.057 (J)	0.057 (J)	0.0926	0.0427 (J)
RE00-22-248988	00-61600	22 5NE	North	11.9–12.9	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-248989	00-61601	56A 10W	North	0–1	SOIL	—	—	—	—	—	NA	NA	—	0.0105 (J)	0.0105 (J)	0.0157 (J)	—
RE00-22-248990	00-61601	56A 10W	North	3–4	SOIL	—	—	—	—	—	NA	NA	—	0.00223 (J)	—	0.0026 (J)	—
RE00-22-248991	00-61601	56A 10W	North	11.6–12.6	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-248992	00-61602	94 10SE	South	0–1	SOIL	—	—	—	—	0.0177	NA	NA	—	0.0601 (J)	0.0248	0.0371	0.0195
RE00-22-248994	00-61602	94 10SE	South	9.1–9.9	QBT3	—	—	—	—	—	NA	NA	—	—	—	—	—
RE00-22-249014	00-61609	94 10S	South	4–5	SOIL	—	—	—	—	—	—	NA	—	—	—	—	—
RE00-22-249015	00-61609	94 10S	South	9.1–9.9	QBT3	—	—	—	—	—	—	NA	—	—	—	—	—
RE00-22-249019	00-61611	92 5NW	South	0–1	SOIL	—	—	—	—	—	—	0.0805	—	0.147 (J)	0.0859	0.111 (J)	0.0286 (J)
RE00-22-249020	00-61611	92 5NW	South	3–4	SOIL	—	—	—	—	—	—	0.0487	—	0.0231 (J)	0.0231 (J)	0.0308 (J)	—
RE00-22-249021	00-61611	92 5NW	South	7.7–8.7	QBT3	—	—	—	—	—	—	0.0121	—	—	—	—	—
RE00-22-249022	00-61612	22 10E	North	0–1	SOIL	—	—	—	—	—	—	NA	—	—	—	—	—
RE00-22-249023	00-61612	22 10E	North	4–5	SOIL	—	—	—	—	—	—	NA	—	—	—	—	—
RE00-22-249024	00-61612	22 10E	North	11.9–12.9	QBT3	—	—	—	—	—	—	NA	—	0.00871 (J)	—	0.0105 (J)	—

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Acenaphthene	Acenaphthylene	Acetone	Acetonitrile	Anthracene	Aroclor-1254	Aroclor-1260	Benzene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene
Construction Worker SSL[b]						**15,100**	**7530[c]**	**242,000**	**1850[d]**	**75,300**	**4.91**	**85.3**	**142**	**240**	**15.0**	**240**	**7530[c]**
Industrial SSL[b]						**50,500**	**25,300[c]**	**960,000**	**3400[e]**	**253,000**	**11**	**11.1**	**87.2**	**32.3**	**23.6**	**32.3**	**25,300[c]**
Recreational SSL[f]						**17,300**	**8630[c]**	**550,000**	**na[g]**	**86,300**	**5.53**	**10.3**	**429**	**88.8**	**8.88**	**88.8**	**8630[c]**
Residential SSL[b]						**3480**	**1740[c]**	**66,300**	**810[e]**	**17,400**	**1.14**	**2.43**	**17.8**	**1.53**	**1.12**	**1.53**	**1740[c]**
RE00-22-249031	00-61616	27 5E	North	11.5–12.5	QBT3	—	—	—	—	—	—	NA	—	0.00273 (J)	0.00342	0.00513	0.00273 (J)
RE00-22-249036	00-61618	2V	North	10–11	QBT3	—	—	—	—	—	—	NA	—	—	—	—	—
RE00-22-249037	00-61619	58 5N	South	4–5	SOIL	—	—	—	—	—	—	NA	—	—	—	0.072 (J)	—
RE00-22-249038	00-61619	58 5N	South	7–8	QBT3	—	—	—	—	—	—	NA	—	—	0.0726 (J)	0.0871 (J)	—
RE00-22-249064	00-61619	58 5N	South	13.9–14.9	QBT3	—	—	—	—	—	—	0.0427	—	0.0246 (J)	0.021 (J)	0.0281 (J)	0.021 (J)
RE00-22-249065	00-61619	58 5N	South	15.9–16.9	QBT3	—	—	—	—	—	—	0.00774	—	0.0105 (J)	—	0.0105 (J)	—
RE00-22-249039	00-61620	00-196	North	9.5–10.5	QBT3	—	—	—	—	—	—	NA	—	—	—	—	—
RE00-22-249041	00-61621	00-61521	North	9–10	QBT3	—	—	—	—	—	—	NA	—	—	—	—	—
RE00-22-249042	00-61621	00-61521	North	11–12	QBT3	—	—	—	—	—	—	NA	—	—	—	—	—
RE00-22-249045	00-61622	22 5SE	North	11.9–12.9	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-249046	00-61623	17 5S	North	9–10	QBT3	—	—	—	—	—	—	NA	—	—	—	—	—
RE00-22-249047	00-61623	17 5S	North	11–12	QBT3	—	—	—	—	—	—	NA	—	—	—	—	—
RE00-22-249049	00-61624	00-212	North	10–11	QBT3	—	—	—	—	—	—	NA	—	—	—	—	—
RE00-22-249050	00-61625	00-61553	North	9–10	QBT3	—	—	—	—	—	—	NA	—	—	—	—	—
RE00-22-249051	00-61625	00-61553	North	11–12	QBT3	—	—	—	—	—	—	NA	—	—	—	—	—
RE00-22-249025	00-61625	00-61553	North	13–14	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-249026	00-61625	00-61553	North	15–16	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-249053	00-61626	27 5W	North	8.5–9.5	QBT3	—	—	—	—	—	—	NA	—	—	—	—	—
RE00-22-249052	00-61626	27 5W	North	11.5–12.5	QBT3	—	—	—	—	—	—	NA	—	—	—	—	—
RE00-22-249055	00-61627	27 5N	North	11.5–12.5	QBT3	—	—	—	—	—	—	NA	—	—	—	—	—
RE00-22-249056	00-61628	92 5S	South	7.7–8.7	QBT3	—	—	—	—	—	—	0.00396	—	—	—	—	—
RE00-22-249059	00-61630	00-210	North	9–10	QBT3	—	—	—	—	—	—	0.0026 (J)	—	—	—	—	—
RE00-22-249060	00-61630	00-210	North	11–12	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-250910	00-61651	2 10NW	North	0–1	SOIL	—	—	—	—	—	—	NA	—	—	—	—	—
RE00-22-250911	00-61651	2 10NW	North	3–4	SOIL	—	—	—	—	—	—	NA	0.00339 (J+)	—	—	—	—

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Acenaphthene	Acenaphthylene	Acetone	Acetonitrile	Anthracene	Aroclor-1254	Aroclor-1260	Benzene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene
Construction Worker SSL[b]						**15,100**	**7530[c]**	**242,000**	**1850[d]**	**75,300**	**4.91**	**85.3**	**142**	**240**	**15.0**	**240**	**7530[c]**
Industrial SSL[b]						**50,500**	**25,300[c]**	**960,000**	**3400[e]**	**253,000**	**11**	**11.1**	**87.2**	**32.3**	**23.6**	**32.3**	**25,300[c]**
Recreational SSL[f]						**17,300**	**8630[c]**	**550,000**	**na[g]**	**86,300**	**5.53**	**10.3**	**429**	**88.8**	**8.88**	**88.8**	**8630[c]**
Residential SSL[b]						**3480**	**1740[c]**	**66,300**	**810[e]**	**17,400**	**1.14**	**2.43**	**17.8**	**1.53**	**1.12**	**1.53**	**1740[c]**
RE00-22-250912	00-61651	2 10NW	North	6.5–7.5	QBT3	—	—	—	—	—	—	NA	—	—	—	—	—
RE00-22-250916	00-61653	2 10SE	North	0–1	SOIL	—	—	—	—	—	—	NA	—	0.0212 (J)	—	0.0318 (J)	—
RE00-22-250917	00-61653	2 10SE	North	3–4	SOIL	0.0782	0.0107 (J)	—	—	0.421	—	NA	—	0.659	0.485	0.745	0.302
RE00-22-250918	00-61653	2 10SE	North	6.5–7.5	QBT3	—	—	—	—	—	—	NA	—	—	—	—	—
RE00-22-250919	00-61654	1 10SW	North	0–1	SOIL	—	—	—	—	—	—	NA	—	0.00836 (J)	0.0117 (J)	0.0167	0.00836 (J)
RE00-22-250920	00-61654	1 10SW	North	3–4	SOIL	—	—	—	—	—	—	NA	0.00233	—	—	—	—
RE00-22-250921	00-61654	1 10SW	North	6.5–7.5	QBT3	—	—	—	—	—	—	NA	0.00625	0.00885 (J)	—	0.0106 (J)	—
RE00-22-250922	00-61655	22 10SE	North	0–1	SOIL	—	—	—	—	—	—	NA	—	0.00484	0.00484	0.00899	0.00277 (J)
RE00-22-250923	00-61655	22 10SE	North	4–5	SOIL	—	—	—	—	—	—	NA	—	0.00251 (J)	—	0.00394	—
RE00-22-250924	00-61655	22 10SE	North	11.9–12.9	QBT3	—	—	—	—	—	—	NA	—	0.00238 (J)	0.00238 (J)	0.00442	—
RE00-22-250928	00-61657	22 10S	North	0–1	SOIL	—	—	—	—	—	—	—	—	0.00273 (J)	0.00238 (J)	0.00443	0.00273 (J)
RE00-22-250929	00-61657	22 10S	North	4–5	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-250930	00-61657	22 10S	North	11.9–12.9	QBT3	—	—	—	—	—	—	—	—	0.00174 (J)	—	0.00174 (J)	—
RE00-22-250931	00-61658	56A 10S	South	0–1	SOIL	—	—	—	—	—	—	NA	—	0.0139 (J)	0.0156 (J)	0.0243	0.0139 (J)
RE00-22-250932	00-61658	56A 10S	South	3–4	SOIL	—	—	—	—	0.00327 (J)	—	NA	—	0.0109	0.00726	0.0134	0.00654
RE00-22-250933	00-61658	56A 10S	South	11.6–12.6	QBT3	—	—	—	—	0.00208 (J)	—	NA	—	0.00795	0.00588	0.00899	0.0038
RE00-22-250934	00-61659	56A 10SE	North	0–1	SOIL	0.00328	—	—	—	0.00426	—	NA	—	0.00688	0.00688	0.0102	0.00492
RE00-22-250935	00-61659	56A 10SE	North	3–4	SOIL	—	—	—	—	0.00911	—	NA	—	0.0237	0.0135	0.0284	0.0142 (J)
RE00-22-250936	00-61659	56A 10SE	North	11.6–12.6	QBT3	—	—	—	—	—	—	NA	—	—	—	—	—
RE00-22-250937	00-61660	56A 10SW	North	0–1	SOIL	—	—	—	—	—	—	NA	—	0.0137 (J)	0.0172 (J)	0.0309 (J)	0.0206 (J)
RE00-22-250938	00-61660	56A 10SW	North	3–4	SOIL	—	—	—	—	—	—	NA	—	0.0204 (J)	0.013 (J)	0.0223 (J)	0.0148 (J)
RE00-22-250939	00-61660	56A 10SW	North	11.6–12.6	QBT3	—	—	—	—	—	—	NA	—	0.00175 (J)	—	—	—
RE00-22-250940	00-61661	94 10SW	South	0–1	SOIL	—	—	—	—	—	—	NA	—	—	—	—	—
RE00-22-250941	00-61661	94 10SW	South	4–5	SOIL	—	—	—	—	—	—	NA	—	—	—	—	—
RE00-22-250942	00-61661	94 10SW	South	9.1–9.9	QBT3	—	—	—	—	—	—	NA	—	—	—	—	—

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Acenaphthene	Acenaphthylene	Acetone	Acetonitrile	Anthracene	Aroclor-1254	Aroclor-1260	Benzene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene
Construction Worker SSL[b]						**15,100**	**7530[c]**	**242,000**	**1850[d]**	**75,300**	**4.91**	**85.3**	**142**	**240**	**15.0**	**240**	**7530[c]**
Industrial SSL[b]						**50,500**	**25,300[c]**	**960,000**	**3400[e]**	**253,000**	**11**	**11.1**	**87.2**	**32.3**	**23.6**	**32.3**	**25,300[c]**
Recreational SSL[f]						**17,300**	**8630[c]**	**550,000**	**na[g]**	**86,300**	**5.53**	**10.3**	**429**	**88.8**	**8.88**	**88.8**	**8630[c]**
Residential SSL[b]						**3480**	**1740[c]**	**66,300**	**810[e]**	**17,400**	**1.14**	**2.43**	**17.8**	**1.53**	**1.12**	**1.53**	**1740[c]**
RE00-22-252842	00-61700	2 14N	North	6.5–7.5	QBT3	—	—	—	—	—	—	NA	—	—	—	—	—
RE00-22-252845	00-61701	2 15NNE	North	6.5–7.5	QBT3	—	—	—	—	—	—	NA	—	—	—	—	—
RE00-22-253161	00-61705	29 10S	North	0–1	SOIL	—	—	—	—	—	—	NA	—	0.00213 (J)	0.00178 (J)	0.00285 (J)	0.00249 (J)
RE00-22-253162	00-61705	29 10S	North	4–5	SOIL	—	—	—	—	—	—	NA	—	—	—	—	—
RE00-22-253163	00-61705	29 10S	North	7–8	SOIL	—	—	—	—	—	—	NA	—	—	—	—	—
RE00-22-253164	00-61705	29 10S	North	9–10	SOIL	—	—	—	—	—	—	NA	—	—	—	—	—
RE00-22-253165	00-61705	29 10S	North	11–12	QBT3	—	—	—	—	—	—	NA	—	—	—	—	—
RE00-22-253167	00-61706	29 10WSW	North	0–1	SOIL	—	—	—	—	—	—	NA	—	0.00284 (J)	0.00248 (J)	0.0039	0.00248 (J)
RE00-22-253168	00-61706	29 10WSW	North	4–5	SOIL	—	—	—	—	—	—	NA	—	0.00509	0.0043	0.0133 (J)	0.0047
RE00-22-253169	00-61706	29 10WSW	North	7–8	QBT3	—	—	—	—	—	—	NA	—	—	—	—	—
RE00-22-253170	00-61706	29 10WSW	North	9–10	QBT3	—	—	—	—	—	—	NA	—	—	—	—	—
RE00-22-253171	00-61706	29 10WSW	North	11–12	QBT3	—	—	—	—	—	—	NA	—	—	—	—	—
RE00-22-253172	00-61707	29 10SE	North	0–1	SOIL	—	—	—	—	0.00177 (J)	—	NA	—	0.0053	0.0046	0.00778	0.00424
RE00-22-253173	00-61707	29 10SE	North	4–5	SOIL	—	—	—	—	—	—	NA	—	0.0229	0.0191	0.0325	0.0153 (J)
RE00-22-253174	00-61707	29 10SE	North	7–8	SOIL	—	—	—	—	0.00506	—	NA	—	0.0181	0.0166	0.025	0.0105
RE00-22-253175	00-61707	29 10SE	North	9–10	SOIL	—	—	—	—	0.00213 (J)	—	NA	—	0.00709	0.00496	0.00921	0.00425
RE00-22-253176	00-61707	29 10SE	North	11–12	QBT3	—	—	—	—	—	—	NA	—	0.0039	0.00283 (J)	0.00461	0.00213 (J)
RE00-22-253177	00-61708	29 15SW	North	0–1	SOIL	—	—	—	—	—	—	NA	—	—	—	—	—
RE00-22-253178	00-61708	29 15SW	North	4–5	SOIL	—	—	—	—	—	—	NA	—	0.00177 (J)	—	—	—
RE00-22-253179	00-61708	29 15SW	North	7–8	QBT3	—	—	—	—	—	—	NA	—	0.00201 (J)	—	—	0.00168 (J)
RE00-22-253180	00-61708	29 15SW	North	9–10	QBT3	—	—	—	—	—	—	NA	—	—	—	—	—
RE00-22-253181	00-61708	29 15SW	North	11–12	QBT3	—	—	—	—	—	—	NA	—	—	—	—	—
RE00-22-253182	00-61709	56A 5WV	North	13.6–14.6	QBT3	—	—	—	—	—	—	NA	—	—	—	—	—
RE00-22-253184	00-61711	56A 10NW	North	0–1	SOIL	—	—	—	—	—	—	NA	—	0.00563	0.00457	0.00915	0.00774
RE00-22-253185	00-61711	56A 10NW	North	3–4	SOIL	—	—	—	—	—	—	NA	—	0.00929 (J)	—	0.00929 (J)	—

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Acenaphthene	Acenaphthylene	Acetone	Acetonitrile	Anthracene	Aroclor-1254	Aroclor-1260	Benzene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene
Construction Worker SSL[b]						**15,100**	**7530[c]**	**242,000**	**1850[d]**	**75,300**	**4.91**	**85.3**	**142**	**240**	**15.0**	**240**	**7530[c]**
Industrial SSL[b]						**50,500**	**25,300[c]**	**960,000**	**3400[e]**	**253,000**	**11**	**11.1**	**87.2**	**32.3**	**23.6**	**32.3**	**25,300[c]**
Recreational SSL[f]						**17,300**	**8630[c]**	**550,000**	**na[g]**	**86,300**	**5.53**	**10.3**	**429**	**88.8**	**8.88**	**88.8**	**8630[c]**
Residential SSL[b]						**3480**	**1740[c]**	**66,300**	**810[e]**	**17,400**	**1.14**	**2.43**	**17.8**	**1.53**	**1.12**	**1.53**	**1740[c]**
RE00-22-253186	00-61711	56A 10NW	North	11.6–12.6	QBT3	—	—	—	—	—	—	NA	—	0.00182 (J)	—	0.00182 (J)	—
RE00-22-253190	00-61712	94 15SW	South	0–1	SOIL	—	—	—	—	—	—	—	—	0.0213 (J)	—	0.0283 (J)	0.0248 (J)
RE00-22-253191	00-61712	94 15SW	South	4–5	SOIL	—	—	—	—	0.00284 (J)	—	—	—	0.00533	0.00782	0.0199	0.00888
RE00-22-253192	00-61712	94 15SW	South	9.1–9.9	QBT3	—	—	—	—	—	—	—	—	0.00322 (J)	0.0025 (J)	0.00644	0.00393
RE00-22-253193	00-61713	94 15WSW	South	0–1	SOIL	—	—	—	—	—	—	—	—	0.0382	—	0.0243 (J)	0.0174 (J)
RE00-22-253194	00-61713	94 15WSW	South	4–5	SOIL	—	0.00221 (J)	—	—	0.00295 (J)	—	—	—	0.00812	0.0048	0.0114	0.00443
RE00-22-253195	00-61713	94 15WSW	South	9.1–9.9	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-253196	00-61714	94 10W	South	0–1	SOIL	—	—	—	—	—	—	0.0194 (J)	—	0.0172	—	0.012 (J)	0.00858 (J)
RE00-22-253197	00-61714	94 10W	South	4–5	SOIL	—	—	—	—	—	—	—	0.00182	0.00485	0.00373	0.00896	0.0041
RE00-22-253198	00-61714	94 10W	South	9.1–9.9	QBT3	—	0.00183 (J)	0.00255 (J)	—	0.00183 (J)	—	—	0.00195	0.00696	0.00403	0.00879	0.0033 (J)
RE00-22-253202	00-61716	58 10S	South	0–1	SOIL	—	—	—	—	0.0171 (J)	—	NA	—	0.00691	0.00581	0.012	0.004
RE00-22-253203	00-61716	58 10S	South	4–5	QBT3	—	—	—	—	—	—	NA	—	0.0024 (J)	0.00206 (J)	0.00309 (J)	0.0024 (J)
RE00-22-253204	00-61716	58 10S	South	7–8	QBT3	—	—	—	—	—	—	NA	—	0.00238 (J)	—	0.00409	—
RE00-22-253205	00-61716	58 10S	South	9–10	QBT3	—	—	—	—	—	—	NA	—	—	—	—	—
RE00-22-253206	00-61716	58 10S	South	11–12	QBT3	—	—	—	—	—	—	NA	—	0.00166 (J)	—	0.00199 (J)	—
RE00-22-253207	00-61717	58 10SE	South	0–1	SOIL	—	—	—	—	—	—	NA	—	0.00257 (J)	0.00293 (J)	0.00513 (J)	—
RE00-22-253208	00-61717	58 10SE	South	4–5	QBT3	—	—	—	—	—	—	NA	—	—	—	—	—
RE00-22-253209	00-61717	58 10SE	South	7–8	QBT3	—	—	—	—	—	—	NA	—	0.00281 (J)	0.00351 (J)	0.00562 (J)	0.00176 (J)
RE00-22-253210	00-61717	58 10SE	South	9–10	QBT3	—	—	—	—	—	—	NA	—	—	—	—	—
RE00-22-253211	00-61717	58 10SE	South	11–12	QBT3	—	—	4.14 (J+)	—	—	—	NA	—	—	—	0.00169 (J)	—
RE00-22-255274	00-61722	2 25ENE	North	0–1	SOIL	—	—	—	—	0.00223 (J)	—	NA	—	0.0112 (J)	0.00558 (J)	0.0104 (J)	0.00744 (J)
RE00-22-255275	00-61722	2 25ENE	North	3–4	SOIL	—	—	—	—	—	—	NA	—	0.00253 (J)	0.00217 (J)	0.00289 (J)	0.00253 (J)
RE00-22-255276	00-61722	2 25ENE	North	6.5–7.5	QBT3	—	—	—	—	0.00205 (J)	—	NA	—	0.00581 (J)	0.00547 (J)	0.0065 (J)	0.00616 (J)
RE00-22-255285	00-61725	2 19N	North	6.5–7.5	QBT3	0.052	—	—	—	—	—	NA	—	—	—	—	—
RE00-22-255286	00-61726	2 15NW	North	0–1	SOIL	—	—	—	—	—	—	NA	—	—	—	—	—

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Acenaphthene	Acenaphthylene	Acetone	Acetonitrile	Anthracene	Aroclor-1254	Aroclor-1260	Benzene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene
Construction Worker SSL[b]						**15,100**	**7530[c]**	**242,000**	**1850[d]**	**75,300**	**4.91**	**85.3**	**142**	**240**	**15.0**	**240**	**7530[c]**
Industrial SSL[b]						**50,500**	**25,300[c]**	**960,000**	**3400[e]**	**253,000**	**11**	**11.1**	**87.2**	**32.3**	**23.6**	**32.3**	**25,300[c]**
Recreational SSL[f]						**17,300**	**8630[c]**	**550,000**	**na[g]**	**86,300**	**5.53**	**10.3**	**429**	**88.8**	**8.88**	**88.8**	**8630[c]**
Residential SSL[b]						**3480**	**1740[c]**	**66,300**	**810[e]**	**17,400**	**1.14**	**2.43**	**17.8**	**1.53**	**1.12**	**1.53**	**1740[c]**
RE00-22-255287	00-61726	2 15NW	North	3–4	SOIL	—	—	—	—	—	—	NA	—	—	0.0719 (J)	0.0829 (J)	—
RE00-22-255288	00-61726	2 15NW	North	6.5–7.5	SOIL	—	—	—	—	—	—	NA	—	—	—	0.0129 (J)	—
RE00-22-255289	00-61727	2 20NW	North	0–1	SOIL	—	—	—	—	—	—	NA	—	—	—	0.0107 (J)	—
RE00-22-255290	00-61727	2 20NW	North	3–4	SOIL	—	—	—	—	—	—	NA	—	0.0213 (J)	—	0.0213 (J)	0.0178 (J)
RE00-22-255291	00-61727	2 20NW	North	6.5–7.5	SOIL	—	—	—	—	—	—	NA	—	—	—	—	—
RE00-22-255294	00-61728	2 24N	North	6.5–7.5	QBT3	0.00447	—	—	—	—	—	NA	—	0.00172 (J)	0.0117 (J)	0.0124 (J)	0.00172 (J)
RE00-22-255295	00-61729	2 24NE	North	0–1	SOIL	0.0305 (J)	—	—	—	—	—	NA	—	0.0203 (J)	—	0.119 (J)	0.0237 (J)
RE00-22-255296	00-61729	2 24NE	North	3–4	SOIL	—	—	—	—	0.0192 (J)	—	NA	—	—	0.0294 (J)	0.0337 (J)	—
RE00-22-255297	00-61729	2 24NE	North	6.5–7.5	QBT3	0.00173 (J)	—	—	—	0.00208 (J)	—	NA	0.000431 (J)	0.00588	0.0149 (J)	0.0187 (J)	0.00346
RE00-23-259861	00-61736	SE3	North	0–1	SOIL	—	—	—	—	—	—	NA	—	—	—	0.0127 (J)	—
RE00-23-259864	00-61737	NE2	North	0–1	SOIL	—	—	—	—	—	—	NA	—	0.0143 (J)	0.0107 (J)	0.0179	0.0125 (J)
RE00-23-259865	00-61737	NE2	North	3–4	SOIL	—	—	—	—	—	—	NA	—	—	—	—	—
RE00-23-259866	00-61737	NE2	North	6.5–7.5	QBT3	—	—	—	—	—	—	NA	—	—	—	—	—
RE00-23-259867	00-61738	NE1	North	0–1	SOIL	—	—	—	—	0.0108 (J)	—	NA	—	0.0252	0.0234	0.036	0.0216
RE00-23-259868	00-61738	NE1	North	3–4	SOIL	—	—	—	—	—	—	NA	—	0.0104 (J)	—	0.0104 (J)	—
RE00-23-259869	00-61738	NE1	North	6.5–7.5	QBT3	—	—	—	—	—	—	NA	—	—	—	—	—
RE00-23-282088	00-61739	NE6	North	17–18	QBT3	—	—	—	—	—	—	NA	—	0.00274 (J)	0.00205 (J)	0.00308 (J)	0.0024 (J)
RE00-23-282089	00-61739	NE6	North	19–20	QBT3	0.00505	—	—	—	0.00471	—	NA	—	0.0148 (J)	0.00674	0.0145 (J)	0.00606
RE00-23-259873	00-61740	2 25NW	North	0–1	SOIL	—	—	—	—	—	—	NA	0.000585 (J)	0.0244 (J)	0.021 (J)	0.0314 (J)	0.021 (J)
RE00-23-259874	00-61740	2 25NW	North	3–4	SOIL	—	—	—	—	—	—	NA	—	0.0143 (J)	—	0.0143 (J)	0.0107 (J)
RE00-23-259875	00-61740	2 25NW	North	6.5–7.5	QBT3	—	—	—	—	—	—	NA	0.00147	0.0142 (J)	0.0106 (J)	0.0159 (J)	0.00885 (J)
RE00-23-259876	00-61741	N1	North	0–1	SOIL	—	—	—	—	—	—	NA	—	0.0141 (J)	0.0123 (J)	0.0211	0.0123 (J)
RE00-23-259877	00-61741	N1	North	3–4	SOIL	—	—	—	—	—	—	NA	—	0.0124 (J)	—	0.0142 (J)	0.0107 (J)
RE00-23-259878	00-61741	N1	North	6.5–7.5	QBT3	—	—	—	—	—	—	NA	—	—	—	—	—
RE00-23-259882	00-61743	SE2	North	0–1	SOIL	—	—	—	—	—	—	—	—	0.0186 (J)	0.0167 (J)	0.0279 (J)	0.0112 (J)

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Acenaphthene	Acenaphthylene	Acetone	Acetonitrile	Anthracene	Aroclor-1254	Aroclor-1260	Benzene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene
Construction Worker SSL[b]						**15,100**	**7530[c]**	**242,000**	**1850[d]**	**75,300**	**4.91**	**85.3**	**142**	**240**	**15.0**	**240**	**7530[c]**
Industrial SSL[b]						**50,500**	**25,300[c]**	**960,000**	**3400[e]**	**253,000**	**11**	**11.1**	**87.2**	**32.3**	**23.6**	**32.3**	**25,300[c]**
Recreational SSL[f]						**17,300**	**8630[c]**	**550,000**	**na[g]**	**86,300**	**5.53**	**10.3**	**429**	**88.8**	**8.88**	**88.8**	**8630[c]**
Residential SSL[b]						**3480**	**1740[c]**	**66,300**	**810[e]**	**17,400**	**1.14**	**2.43**	**17.8**	**1.53**	**1.12**	**1.53**	**1740[c]**
RE00-23-259883	00-61743	SE2	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-23-259884	00-61743	SE2	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-23-265182	00-61744	N2	North	0–1	SOIL	—	—	—	—	—	—	—	—	0.0168 (J-)	0.0151 (J-)	0.0197 (J-)	0.0136 (J-)
RE00-23-265183	00-61744	N2	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-23-265184	00-61744	N2	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-23-265179	00-61745	NE10	North	0–1	SOIL	—	—	—	—	—	—	NA	—	0.0142 (J)	0.0106 (J)	0.0177	0.00886 (J)
RE00-23-265180	00-61745	NE10	North	3–4	SOIL	—	—	—	—	—	—	NA	—	—	—	—	—
RE00-23-264877	00-61745	NE10	North	6.5–7.5	QBT3	—	—	—	—	—	—	NA	0.00103 (J)	—	—	—	—
RE00-23-264878	00-61746	N5	North	0–1	SOIL	—	—	—	—	—	—	NA	—	0.0216 (J)	—	0.0252 (J)	—
RE00-23-264879	00-61746	N5	North	3–4	SOIL	—	—	—	—	—	—	NA	—	—	—	—	—
RE00-23-264880	00-61746	N5	North	6.5–7.5	QBT3	—	—	—	—	—	—	NA	—	—	—	—	—
RE00-23-264881	00-61747	N4	North	0–1	SOIL	—	—	—	—	—	—	NA	—	0.0176 (J)	0.0246 (J)	0.0316 (J)	0.0387
RE00-23-264882	00-61747	N4	North	3–4	SOIL	—	—	—	—	—	—	NA	—	—	—	—	—
RE00-23-264883	00-61747	N4	North	6.5–7.5	QBT3	—	—	—	—	—	—	NA	—	—	—	—	—
RE00-23-264884	00-61748	NE4	North	0–1	SOIL	—	—	—	—	—	—	NA	—	0.0211 (J)	—	0.0246 (J)	—
RE00-23-264885	00-61748	NE4	North	3–4	SOIL	—	—	—	—	—	—	NA	—	0.0176 (J)	—	—	—
RE00-23-264886	00-61748	NE4	North	6.5–7.5	SOIL	—	—	—	—	0.0341 (J)	—	NA	—	0.0211 (J)	—	0.0211 (J)	—
RE00-23-265185	00-61749	N3	North	0–1	SOIL	—	—	—	—	—	—	—	—	0.0126 (J-)	—	0.0153 (J-)	0.014 (J-)
RE00-23-265186	00-61749	N3	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-23-265187	00-61749	N3	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-23-265188	00-61750	NE3	North	0–1	SOIL	—	0.019	—	—	0.0241	—	—	—	0.1 (J)	0.0345	0.107 (J)	0.0552 (J)
RE00-23-265189	00-61750	NE3	North	3–4	SOIL	—	—	—	—	—	—	—	—	0.00257 (J)	0.0022 (J)	0.00294 (J)	0.00184 (J)
RE00-23-265190	00-61750	NE3	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	0.00415	0.00277 (J)	0.00519	0.00277 (J)
RE00-23-264893	00-61751	2 20NEV	North	9–10	QBT3	—	—	—	—	—	—	NA	—	0.0177 (J)	—	0.0177 (J)	—
RE00-23-264894	00-61751	2 20NEV	North	11–12	QBT3	—	—	—	—	—	—	NA	—	0.0118 (J)	—	0.0174 (J)	—

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Acenaphthene	Acenaphthylene	Acetone	Acetonitrile	Anthracene	Aroclor-1254	Aroclor-1260	Benzene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene
Construction Worker SSL[b]						**15,100**	**7530[c]**	**242,000**	**1850[d]**	**75,300**	**4.91**	**85.3**	**142**	**240**	**15.0**	**240**	**7530[c]**
Industrial SSL[b]						**50,500**	**25,300[c]**	**960,000**	**3400[e]**	**253,000**	**11**	**11.1**	**87.2**	**32.3**	**23.6**	**32.3**	**25,300[c]**
Recreational SSL[f]						**17,300**	**8630[c]**	**550,000**	**na[g]**	**86,300**	**5.53**	**10.3**	**429**	**88.8**	**8.88**	**88.8**	**8630[c]**
Residential SSL[b]						**3480**	**1740[c]**	**66,300**	**810[e]**	**17,400**	**1.14**	**2.43**	**17.8**	**1.53**	**1.12**	**1.53**	**1740[c]**
RE00-23-264896	00-61752	N6	North	0–1	SOIL	—	—	—	—	—	—	NA	—	0.0282 (J)	0.0247 (J)	0.0459	0.0353
RE00-23-264897	00-61752	N6	North	3–4	SOIL	—	—	—	—	—	—	NA	—	0.0323 (J)	0.0215 (J)	0.0323 (J)	0.0251 (J)
RE00-23-264898	00-61752	N6	North	6.5–7.5	QBT3	—	—	—	—	—	—	NA	—	—	—	—	—
RE00-23-264899	00-61753	NE5	North	0–1	SOIL	0.0356	—	—	—	—	—	NA	—	—	—	0.0178 (J)	—
RE00-23-264900	00-61753	NE5	North	3–4	SOIL	—	—	—	—	—	—	NA	—	0.00185 (J)	—	—	—
RE00-23-264901	00-61753	NE5	North	6.5–7.5	QBT3	—	—	—	—	0.00518	—	NA	0.000782 (J)	0.0152 (J)	0.00587	0.0131 (J)	0.0107 (J)
RE00-23-264902	00-61754	SE1V	North	9–10	QBT3	—	—	—	—	—	—	NA	—	—	—	—	—
RE00-23-264903	00-61754	SE1V	North	11–12	QBT3	—	—	—	—	—	—	NA	—	—	—	—	—
RE00-23-264909	00-61756	SE10	North	3–4	SOIL	—	—	—	—	0.0115 (J-)	—	NA	—	0.0233 (J-)	—	0.0203 (J-)	—
RE00-23-267856	00-61757	SE4	North	0–1	SOIL	—	—	—	—	0.00227 (J)	—	NA	—	0.0102 (J)	0.0106 (J)	0.02 (J)	0.00832 (J)
RE00-23-267857	00-61757	SE4	North	3–4	SOIL	—	—	—	—	—	—	NA	—	—	—	—	—
RE00-23-267858	00-61757	SE4	North	6.5–7.5	QBT3	—	—	—	—	—	—	NA	—	—	—	0.00205 (J)	—
RE00-23-267859	00-61758	SE7	North	0–1	SOIL	—	—	—	—	—	—	NA	—	0.00724 (J)	0.00762 (J)	0.0149 (J)	0.00533 (J)
RE00-23-267860	00-61758	SE7	North	3–4	SOIL	—	—	—	—	0.00218 (J)	—	NA	—	0.00835 (J)	0.00581 (J)	0.0105 (J)	0.00435 (J)
RE00-23-267861	00-61758	SE7	North	6.5–7.5	QBT3	—	—	—	—	—	—	NA	—	0.00312 (J)	0.00243 (J)	0.00416 (J)	0.00208 (J)
RE00-23-267871	00-61762	NE7	North	0–1	SOIL	—	—	—	—	0.00555	—	NA	0.000554 (J)	0.017	0.0167 (J)	0.0218	0.0178 (J)
RE00-23-267872	00-61762	NE7	North	3–4	SOIL	0.00332 (J)	0.00369	—	—	0.00258 (J)	—	NA	—	0.00332 (J)	0.00221 (J)	0.00332 (J)	—
RE00-23-267873	00-61762	NE7	North	6–7	QBT3	0.00836	—	—	—	—	—	NA	—	0.00279 (J)	0.00209 (J)	0.00557	—
RE00-23-267874	00-61763	NE28	North	0–1	SOIL	—	—	—	—	—	—	NA	—	0.00627	0.00405	0.0107 (J)	0.00405 (J)
RE00-23-267875	00-61763	NE28	North	3–4	SOIL	—	—	—	—	—	—	NA	—	—	—	—	—
RE00-23-267876	00-61763	NE28	North	5–6	QBT3	—	—	—	—	—	—	NA	—	—	—	—	—
RE00-23-267877	00-61764	NE23	North	0–1	SOIL	0.00227 (J)	—	—	—	0.0102	—	NA	—	0.0378	0.0363 (J)	0.0639 (J)	0.0178 (J)
RE00-23-267878	00-61764	NE23	North	3–4	SOIL	—	—	—	—	—	—	NA	—	0.00179 (J)	—	0.00323 (J)	—
RE00-23-267879	00-61764	NE23	North	5–6	QBT3	—	—	—	—	—	—	NA	—	—	—	—	—
RE00-23-267882	00-61765	NE24	North	5–6	QBT3	—	—	—	—	—	—	NA	—	0.00453	0.00453	0.00836 (J)	0.00557 (J)

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Acenaphthene	Acenaphthylene	Acetone	Acetonitrile	Anthracene	Aroclor-1254	Aroclor-1260	Benzene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene
Construction Worker SSL[b]						**15,100**	**7530[c]**	**242,000**	**1850[d]**	**75,300**	**4.91**	**85.3**	**142**	**240**	**15.0**	**240**	**7530[c]**
Industrial SSL[b]						**50,500**	**25,300[c]**	**960,000**	**3400[e]**	**253,000**	**11**	**11.1**	**87.2**	**32.3**	**23.6**	**32.3**	**25,300[c]**
Recreational SSL[f]						**17,300**	**8630[c]**	**550,000**	**na[g]**	**86,300**	**5.53**	**10.3**	**429**	**88.8**	**8.88**	**88.8**	**8630[c]**
Residential SSL[b]						**3480**	**1740[c]**	**66,300**	**810[e]**	**17,400**	**1.14**	**2.43**	**17.8**	**1.53**	**1.12**	**1.53**	**1740[c]**
RE00-23-267886	00-61767	NE26	North	0–1	SOIL	0.00182 (J)	—	—	—	0.0098	—	NA	—	0.0294	0.025 (J)	0.0338	0.0109 (J)
RE00-23-267887	00-61767	NE26	North	3–4	SOIL	—	—	—	—	—	—	NA	—	—	—	—	—
RE00-23-267888	00-61767	NE26	North	5–6	QBT3	—	—	—	—	—	—	NA	—	—	—	—	—
RE00-23-267889	00-61768	NE29	North	0.5–1.5	SOIL	—	—	—	—	—	—	NA	—	0.00628	0.00444	0.00961 (J)	0.00296 (J)
RE00-23-267890	00-61768	NE29	North	3.5–4.5	QBT3	—	—	—	—	—	—	NA	—	—	—	—	—
RE00-23-267891	00-61768	NE29	North	5.5–6.5	QBT3	—	—	—	—	—	—	NA	—	—	—	—	—
RE00-23-271182	00-61775	NE34	North	3.5–4.5	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-23-271183	00-61775	NE34	North	5.5–6.5	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-23-271187	00-61776	NE25	North	5–6	QBT3	—	—	0.011	—	—	—	NA	—	—	—	—	0.00169 (J)
RE00-23-271196	00-61779	SE11	North	6.5–7.5	QBT3	—	—	—	—	—	—	NA	—	—	—	—	—
RE00-23-271197	00-61780	NE20	North	0–1	SOIL	0.0121 (J)	—	—	—	0.0264	—	NA	—	0.0723 (J)	0.0365	0.0644	0.0332
RE00-23-271198	00-61780	NE20	North	3–4	SOIL	0.00355 (J)	0.00177 (J)	—	—	0.00213 (J)	—	NA	—	—	0.00248 (J)	0.00319 (J)	0.00213 (J)
RE00-23-271199	00-61780	NE20	North	6.5–7.5	QBT3	—	—	—	—	—	—	NA	—	—	—	—	—
RE00-23-271200	00-61781	NE21	North	0–1	SOIL	0.00179 (J)	—	—	—	0.00821 (J)	—	NA	—	0.0221 (J)	0.0189 (J)	0.0254 (J)	0.0179 (J)
RE00-23-271201	00-61781	NE21	North	3–4	SOIL	—	—	—	—	—	—	NA	—	—	—	—	—
RE00-23-271202	00-61781	NE21	North	6.5–7.5	SOIL	—	—	—	—	—	—	NA	—	—	—	—	—
RE00-23-271203	00-61782	NE54	North	0–1	SOIL	0.00412	—	—	—	—	—	NA	—	0.018 (J)	0.0131 (J+)	0.0236 (J+)	0.0139 (J)
RE00-23-271204	00-61782	NE54	North	3–4	SOIL	—	—	—	—	—	—	NA	—	—	—	—	—
RE00-23-271205	00-61782	NE54	North	6.5–7.5	QBT3	—	—	—	—	—	—	NA	—	—	—	—	—
RE00-23-271206	00-61783	NE53	North	0–1	SOIL	—	—	—	—	—	—	NA	—	0.0158 (J)	0.014 (J)	0.0217 (J)	0.0118 (J)
RE00-23-271207	00-61783	NE53	North	3–4	SOIL	—	—	—	—	—	—	NA	—	—	—	—	0.00247 (J)
RE00-23-271208	00-61783	NE53	North	6.5–7.5	QBT3	—	—	—	—	—	—	NA	—	0.0123 (J)	—	0.00948 (J+)	0.00351
RE00-23-271209	00-61784	SE14	North	0–1	SOIL	—	—	—	—	0.00893 (J+)	—	NA	—	0.0332 (J+)	0.0204 (J)	0.0396 (J+)	0.0186 (J)
RE00-23-271210	00-61784	SE14	North	3–4	SOIL	—	—	—	—	—	—	NA	—	—	—	0.0106 (J+)	0.00282 (J)
RE00-23-271211	00-61784	SE14	North	5–6	QBT3	—	—	—	—	—	—	NA	—	—	—	—	—

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Acenaphthene	Acenaphthylene	Acetone	Acetonitrile	Anthracene	Aroclor-1254	Aroclor-1260	Benzene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene
Construction Worker SSL[b]						**15,100**	**7530[c]**	**242,000**	**1850[d]**	**75,300**	**4.91**	**85.3**	**142**	**240**	**15.0**	**240**	**7530[c]**
Industrial SSL[b]						**50,500**	**25,300[c]**	**960,000**	**3400[e]**	**253,000**	**11**	**11.1**	**87.2**	**32.3**	**23.6**	**32.3**	**25,300[c]**
Recreational SSL[f]						**17,300**	**8630[c]**	**550,000**	**na[g]**	**86,300**	**5.53**	**10.3**	**429**	**88.8**	**8.88**	**88.8**	**8630[c]**
Residential SSL[b]						**3480**	**1740[c]**	**66,300**	**810[e]**	**17,400**	**1.14**	**2.43**	**17.8**	**1.53**	**1.12**	**1.53**	**1740[c]**
RE00-23-271215	00-61786	SE12	North	0–1	SOIL	—	—	—	—	—	—	0.00293 (J)	—	0.0175	0.014 (J)	0.0281	0.0105 (J)
RE00-23-271216	00-61786	SE12	North	3–4	SOIL	—	—	—	—	0.00559	—	0.00157 (J)	—	0.0189 (J)	0.00804	0.0175	0.00629
RE00-23-271217	00-61786	SE12	North	11–12	QBT3	—	—	—	—	0.00169 (J)	—	—	—	0.00475	0.00237 (J)	0.00542	0.00203 (J)
RE00-23-271218	00-61787	SE15	North	0–1	SOIL	0.0035 (J)	—	—	—	0.00665 (J)	—	NA	—	0.0224 (J)	0.0203 (J)	0.028 (J)	0.0189 (J)
RE00-23-271219	00-61787	SE15	North	3–4	SOIL	0.263 (J)	0.0111 (J)	—	—	0.304 (J)	—	NA	—	0.294 (J)	0.326 (J)	0.33 (J)	0.211 (J)
RE00-23-271220	00-61787	SE15	North	11.5–12.5	QBT3	0.0146 (J)	0.00169 (J)	—	—	0.0213 (J)	—	NA	—	0.0298 (J)	0.0284 (J)	0.0311 (J)	0.022 (J)
RE00-23-271227	00-61790	NE45	North	0.5–1.5	SOIL	—	—	—	—	—	—	NA	—	0.00247 (J)	0.00212 (J)	0.00353 (J)	0.00212 (J)
RE00-23-271230	00-61791	NE47	North	1–2	SOIL	—	—	—	—	—	—	NA	—	—	—	—	—
RE00-23-271233	00-61792	NE55	North	0–1	SOIL	—	—	—	—	0.0248 (J)	—	—	—	0.0722 (J+)	0.0602	0.11 (J)	0.0448
RE00-23-271234	00-61792	NE55	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	—	0.00181 (J)	—
RE00-23-271235	00-61792	NE55	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	—	0.00205 (J)	—
RE00-23-271236	00-61793	NE38	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-23-271239	00-61794	NE39	North	0.5–1.5	SOIL	—	—	—	—	0.00295 (J)	—	—	—	0.014 (J)	0.00663 (J)	0.011 (J)	0.00479 (J)
RE00-23-271240	00-61794	NE39	North	2–3	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-23-271242	00-61795	NE48	North	3.5–4.5	QBT3	—	—	—	—	—	—	NA	—	—	—	—	—
RE00-23-271243	00-61795	NE48	North	5.5–6.5	QBT3	0.0238	—	—	—	0.0339	—	NA	—	0.107	0.0745	0.116	0.0276 (J)
RE00-23-271248	00-61797	NE56	North	0–1	SOIL	—	—	—	—	—	—	NA	—	0.00207 (J)	0.00207 (J)	0.0031 (J)	0.00241 (J)
RE00-23-271249	00-61797	NE56	North	2–3	QBT3	—	—	—	—	—	—	NA	—	—	—	—	—
RE00-23-282091	00-61799	NE60	North	0–1	SOIL	—	—	—	—	—	—	NA	—	0.0132 (J)	—	—	—
RE00-23-282092	00-61799	NE60	North	2–3	QBT3	—	—	—	—	—	—	NA	—	0.0111 (J)	—	—	—
RE00-23-289091	00-61804	NE68	North	0–1	SOIL	NA	NA	NA	NA	NA	—	—	NA	NA	NA	NA	NA
RE00-23-291181	00-61804	NE68	North	0–1	SOIL	—	—	—	—	—	—	NA	—	0.00236 (J)	0.00202 (J)	0.00404	0.00337
RE00-23-282118	00-61808	NE66	North	0–1	SOIL	—	—	—	—	—	—	NA	—	—	—	0.00866 (J)	—
RE00-23-291184	00-61811	NE67	North	0–1	SOIL	—	—	—	—	—	—	NA	—	0.00236 (J)	0.00203 (J)	0.00304 (J)	0.00236 (J)
RE00-23-289519	00-61813	NE80	North	0–1	SOIL	NA	NA	NA	NA	NA	—	—	NA	NA	NA	NA	NA

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Acenaphthene	Acenaphthylene	Acetone	Acetonitrile	Anthracene	Aroclor-1254	Aroclor-1260	Benzene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene
Construction Worker SSL[b]						**15,100**	**7530[c]**	**242,000**	**1850[d]**	**75,300**	**4.91**	**85.3**	**142**	**240**	**15.0**	**240**	**7530[c]**
Industrial SSL[b]						**50,500**	**25,300[c]**	**960,000**	**3400[e]**	**253,000**	**11**	**11.1**	**87.2**	**32.3**	**23.6**	**32.3**	**25,300[c]**
Recreational SSL[f]						**17,300**	**8630[c]**	**550,000**	**na[g]**	**86,300**	**5.53**	**10.3**	**429**	**88.8**	**8.88**	**88.8**	**8630[c]**
Residential SSL[b]						**3480**	**1740[c]**	**66,300**	**810[e]**	**17,400**	**1.14**	**2.43**	**17.8**	**1.53**	**1.12**	**1.53**	**1740[c]**
RE00-23-291186	00-61813	NE80	North	0–1	SOIL	—	—	—	—	—	—	NA	—	—	0.00852 (J)	0.0119 (J)	0.0119 (J)
RE00-23-289520	00-61813	NE80	North	2–3	SOIL	NA	NA	NA	NA	NA	—	—	NA	NA	NA	NA	NA
RE00-23-291187	00-61813	NE80	North	2–3	SOIL	—	—	—	—	—	—	NA	—	—	0.0022 (J)	0.00403	0.00293 (J)
RE00-23-289510	00-61815	NE74	North	0–1	SOIL	—	—	—	—	—	—	NA	—	—	—	0.00211 (J)	—
RE00-23-289513	00-61816	NE79	North	0–1	SOIL	—	—	—	—	—	—	NA	—	—	0.00723 (J)	0.00362 (J)	0.00253 (J)
RE00-23-289514	00-61816	NE79	North	2–3	SOIL	—	—	—	0.0108 (J)	—	—	NA	—	0.00182 (J)	0.00255 (J)	0.00364 (J)	0.00327 (J)
RE00-23-291188	00-61817	NE81	North	0–1	SOIL	—	—	—	—	—	—	NA	—	0.0127 (J)	0.00949	0.0225 (J)	0.0169 (J)
RE00-23-291189	00-61817	NE81	North	2–3	QBT3	—	—	—	—	—	—	NA	—	—	—	—	—
RE00-23-290099	00-61818	NE82	North	0–1	SOIL	NA	NA	NA	NA	NA	—	—	NA	NA	NA	NA	NA
RE00-23-291190	00-61818	NE82	North	0–1	SOIL	—	—	—	—	—	—	NA	—	0.00239 (J)	0.00444	0.00888	0.00341
RE00-23-290100	00-61818	NE82	North	2–3	SOIL	NA	NA	NA	NA	NA	—	—	NA	NA	NA	NA	NA
RE00-23-290101	00-61818	NE82	North	4–5	QBT3	NA	NA	NA	NA	NA	—	—	NA	NA	NA	NA	NA
RE00-23-291192	00-61818	NE82	North	4–5	QBT3	—	—	—	—	—	—	NA	—	—	—	—	—

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Benzo(k)fluoranthene	Benzoic Acid	Benzyl Alcohol	Bis(2-ethylhexyl)phthalate	Butanol[1-]	Butanone[2-]	Butylbenzylphthalate	Carbazole	Chloroform	Chloroanaline[2-]	Chrysene	Di-n-butylphthalate
Construction Worker SSL[b]						**2310**	**1,080,000[d]**	**26,900[d]**	**5380**	**na**	**91,700**	**53,800[d]**	**251[d,j]**	**134**	**28,300[k]**	**23,100**	**26,900**
Industrial SSL[b]						**323**	**3,300,000[e]**	**82,000[e]**	**1830**	**120,000[e]**	**411,000**	**12,000[e]**	**1200[e,j]**	**28.7**	**104,000[k]**	**3230**	**91,600**
Recreational SSL[f]						**888**	**1,310,000**	**32,800**	**1770**	**na**	**353,000**	**13,100**	**2340[j]**	**204**	**49,500[k]**	**8880**	**32,800**
Residential SSL[b]						**15.3**	**250,000[e]**	**6300[e]**	**380**	**7800[e]**	**37,400**	**2900[e]**	**78[e,j]**	**5.9**	**6260[k]**	**153**	**6160**
RE00-22-238042	00-171	4	North	7.5–8.5	QBT3	—	—	—	—	—	—	0.0187 (J)	—	—	—	—	0.0249 (J)
RE00-22-238043	00-171	4	North	10.5–11.5	QBT3	—	—	—	—	—	—	0.0202 (J)	—	—	—	—	—
RE00-22-238046	00-173	9	North	6.5–7.5	QBT3	0.00385	—	—	—	—	—	0.0129 (J)	—	—	—	0.0101	—
RE00-22-238047	00-173	9	North	9.5–10.5	QBT3	—	—	0.547	—	—	—	—	—	—	—	—	—
RE00-22-238051	00-175	23	North	6.9–7.9	QBT3	—	—	—	—	—	—	0.0226 (J)	—	—	—	—	—
RE00-22-238052	00-175	23	North	9.9–10.9	QBT3	—	—	0.314 (J)	—	—	—	0.0241 (J)	—	—	—	—	—
RE00-22-238056	00-177	11	North	9–10	QBT3	—	—	0.171 (J)	—	—	—	0.0296 (J)	—	—	—	—	—
RE00-22-238057	00-177	11	North	12–13	QBT3	—	—	1.4	—	—	—	—	—	—	—	—	0.0248 (J)
RE00-22-238061	00-179	8	North	8.5–9.5	QBT3	—	—	0.187 (J)	—	—	—	0.0694	—	—	—	—	—
RE00-22-238062	00-179	8	North	11.5–12.5	QBT3	—	—	0.403	—	—	—	0.106	—	—	—	—	0.0136 (J)
RE00-22-238066	00-181	13	North	8–9	QBT3	—	—	—	—	—	—	0.106	—	—	—	—	—
RE00-22-238067	00-181	13	North	11–12	QBT3	—	—	0.165 (J)	—	—	—	—	—	—	—	—	—
RE00-22-238071	00-183	10	North	11–12	QBT3	—	—	0.221 (J)	—	—	—	—	—	—	—	—	0.0227 (J)
RE00-22-238072	00-183	10	North	14–15	QBT3	—	—	0.171 (J)	—	—	—	—	—	—	—	—	—
RE00-22-238075	00-184	1	North	6–7	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238076	00-185	24	North	6.5–7.5	QBT3	—	—	0.149 (J)	—	—	—	0.0338 (J)	—	—	—	—	0.0169 (J)
RE00-22-238077	00-185	24	North	9.5–10.5	QBT3	—	—	0.799	—	—	—	0.0243 (J)	—	—	—	—	0.0199 (J)
RE00-22-238078	00-186	97	South	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238080	00-186	97	South	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	—	—	0.025 (J+)
RE00-22-238081	00-187	21	North	8–9	QBT3	—	0.736	0.31 (J)	—	—	—	0.0555	—	—	—	—	0.0299 (J)
RE00-22-238082	00-187	21	North	11–12	QBT3	—	0.912	0.967	—	—	—	0.0697	—	—	—	—	—
RE00-22-238093	00-190	90	South	13–14	QBT3	—	—	—	—	—	—	—	—	—	—	—	0.0301 (J)
RE00-22-238096	00-193	98	North	9.5–10.5	QBT3	—	—	0.276 (J)	—	—	—	0.0504	—	—	—	—	0.0153 (J)

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Benzo(k)fluoranthene	Benzoic Acid	Benzyl Alcohol	Bis(2-ethylhexyl)phthalate	Butanol[1-]	Butanone[2-]	Butylbenzylphthalate	Carbazole	Chloroform	Chloroanaline[2-]	Chrysene	Di-n-butylphthalate
Construction Worker SSL[b]						**2310**	**1,080,000[d]**	**26,900[d]**	**5380**	**na**	**91,700**	**53,800[d]**	**251[d,j]**	**134**	**28,300[k]**	**23,100**	**26,900**
Industrial SSL[b]						**323**	**3,300,000[e]**	**82,000[e]**	**1830**	**120,000[e]**	**411,000**	**12,000[e]**	**1200[e,j]**	**28.7**	**104,000[k]**	**3230**	**91,600**
Recreational SSL[f]						**888**	**1,310,000**	**32,800**	**1770**	**na**	**353,000**	**13,100**	**2340[j]**	**204**	**49,500[k]**	**8880**	**32,800**
Residential SSL[b]						**15.3**	**250,000[e]**	**6300[e]**	**380**	**7800[e]**	**37,400**	**2900[e]**	**78[e,j]**	**5.9**	**6260[k]**	**153**	**6160**
RE00-22-238097	00-193	98	North	12.5–13.5	QBT3	—	—	0.226 (J)	—	—	—	—	—	—	—	—	—
RE00-22-238100	00-195	25	North	8.5–9.5	QBT3	—	—	0.459	—	—	—	0.0716	—	—	—	—	0.0106 (J)
RE00-22-238101	00-195	25	North	11.5–12.5	QBT3	—	—	0.794	—	—	—	0.0508	—	—	—	—	—
RE00-22-238103	00-196	3	North	3.3–4.5	FILL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238104	00-196	3	North	7.5–8.5	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238105	00-197	27	North	8.5–9.5	QBT3	—	—	0.129 (J)	—	—	—	—	—	—	—	—	0.0186 (J)
RE00-22-238106	00-197	27	North	11.5–12.5	QBT3	—	—	0.133 (J)	—	—	—	—	—	—	—	—	—
RE00-22-238107	00-198	99	South	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238108	00-198	99	South	3–4	SOIL	—	—	—	—	—	—	—	—	—	—	—	0.297 (J+)
RE00-22-238109	00-198	99	South	6–7.1	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238110	00-199	28	North	12.5–13.5	QBT3	—	—	0.2 (J)	—	—	—	0.0174 (J)	—	—	—	0.00201 (J)	—
RE00-22-238111	00-199	28	North	15.5–16.5	QBT3	—	—	0.347	—	—	—	—	—	—	—	—	—
RE00-22-238112	00-200	66	South	0–1	FILL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238113	00-200	66	South	4–5	FILL	—	—	—	—	—	—	—	—	—	—	0.0253 (J)	—
RE00-22-238114	00-200	66	South	6.1–7.1	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238115	00-201	89	South	7.5–8.5	QBT3	—	—	0.18 (J)	—	—	—	—	—	—	—	—	—
RE00-22-238116	00-201	89	South	10.5–11.5	QBT3	—	—	0.352	—	—	—	—	—	—	—	—	—
RE00-22-238117	00-202	92	South	0–1	FILL	—	—	—	—	—	—	—	—	—	—	0.0421 (J)	—
RE00-22-238118	00-202	92	South	3–4	FILL	—	—	—	—	—	—	—	—	—	—	0.0298 (J)	—
RE00-22-238119	00-202	92	South	7.7–8.7	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238122	00-204	57A	South	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238123	00-204	57A	South	3–4	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238124	00-204	57A	South	7.9–8.9	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238125	00-205	72	South	13–14	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238126	00-205	72	South	16–17	QBT3	—	—	0.956	—	—	—	0.0123 (J)	—	—	—	—	—

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Benzo(k)fluoranthene	Benzoic Acid	Benzyl Alcohol	Bis(2-ethylhexyl)phthalate	Butanol[1-]	Butanone[2-]	Butylbenzylphthalate	Carbazole	Chloroform	Chloroanaline[2-]	Chrysene	Di-n-butylphthalate
Construction Worker SSL[b]						**2310**	**1,080,000[d]**	**26,900[d]**	**5380**	**na**	**91,700**	**53,800[d]**	**251[d,j]**	**134**	**28,300[k]**	**23,100**	**26,900**
Industrial SSL[b]						**323**	**3,300,000[e]**	**82,000[e]**	**1830**	**120,000[e]**	**411,000**	**12,000[e]**	**1200[e,j]**	**28.7**	**104,000[k]**	**3230**	**91,600**
Recreational SSL[f]						**888**	**1,310,000**	**32,800**	**1770**	**na**	**353,000**	**13,100**	**2340[j]**	**204**	**49,500[k]**	**8880**	**32,800**
Residential SSL[b]						**15.3**	**250,000[e]**	**6300[e]**	**380**	**7800[e]**	**37,400**	**2900[e]**	**78[e,j]**	**5.9**	**6260[k]**	**153**	**6160**
RE00-22-238129	00-206	18	North	7.8–8.8	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238130	00-207	71	South	10–11	QBT3	—	—	0.184 (J)	—	—	—	0.0155 (J)	—	—	—	—	—
RE00-22-238131	00-207	71	South	13–14	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238132	00-208	70	South	0–1	FILL	—	—	—	—	—	—	—	—	—	—	0.0552 (J)	0.352 (J)
RE00-22-238133	00-208	70	South	4–5	SOIL	—	—	—	—	—	—	—	—	—	—	0.00519	—
RE00-22-238134	00-208	70	South	9–10	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238135	00-209	76	South	13–14	QBT3	—	—	0.157 (J)	—	—	—	—	—	—	—	—	—
RE00-22-238136	00-209	76	South	16–17	QBT3	—	—	0.149 (J)	—	—	—	0.0108 (J)	—	—	—	—	—
RE00-22-238139	00-210	29	North	0–1.4	FILL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238138	00-210	29	North	4–5	SOIL	—	—	—	—	—	—	—	—	—	—	—	0.06 (J+)
RE00-22-238137	00-210	29	North	7–8	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238140	00-211	82	South	14.5–15.5	QBT3	—	—	0.225 (J)	—	—	—	—	—	—	—	—	—
RE00-22-238141	00-211	82	South	17.5–18.5	QBT3	—	0.337 (J)	—	—	—	—	—	—	—	—	—	—
RE00-22-238142	00-212	20	North	0–1	FILL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238143	00-212	20	North	4–5	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238144	00-212	20	North	6.2–7.2	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238145	00-213	79	South	12–13	QBT3	—	—	0.145 (J)	—	—	—	—	—	—	—	—	—
RE00-22-238146	00-213	79	South	15–16	QBT3	—	—	0.301 (J)	—	—	—	0.0336 (J)	—	—	—	—	—
RE00-22-238147	00-214	26	North	0–1	FILL	—	—	—	—	—	—	—	—	—	—	0.00324 (J)	—
RE00-22-238148	00-214	26	North	4–5	SOIL	—	—	—	—	—	—	—	—	—	—	0.00665	—
RE00-22-238149	00-214	26	North	6.8–7.8	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238150	00-215	12	North	7.5–8.5	QBT3	—	2.67 (J)	1.13	—	—	—	0.0206 (J)	—	—	—	0.00314 (J)	—
RE00-22-238151	00-215	12	North	10.5–11.5	QBT3	—	—	0.416	—	—	—	—	—	—	—	—	—
RE00-22-238153	00-216	83	South	15–16	QBT3	—	—	0.261 (J)	—	—	—	—	—	—	—	—	—
RE00-22-238154	00-217	80	South	12–13	QBT3	0.0249 (J)	—	0.127 (J)	—	—	—	—	—	—	—	0.022	—

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Benzo(k)fluoranthene	Benzoic Acid	Benzyl Alcohol	Bis(2-ethylhexyl)phthalate	Butanol[1-]	Butanone[2-]	Butylbenzylphthalate	Carbazole	Chloroform	Chloroanaline[2-]	Chrysene	Di-n-butylphthalate
Construction Worker SSL[b]						**2310**	**1,080,000[d]**	**26,900[d]**	**5380**	**na**	**91,700**	**53,800[d]**	**251[d,j]**	**134**	**28,300[k]**	**23,100**	**26,900**
Industrial SSL[b]						**323**	**3,300,000[e]**	**82,000[e]**	**1830**	**120,000[e]**	**411,000**	**12,000[e]**	**1200[e,j]**	**28.7**	**104,000[k]**	**3230**	**91,600**
Recreational SSL[f]						**888**	**1,310,000**	**32,800**	**1770**	**na**	**353,000**	**13,100**	**2340[j]**	**204**	**49,500[k]**	**8880**	**32,800**
Residential SSL[b]						**15.3**	**250,000[e]**	**6300[e]**	**380**	**7800[e]**	**37,400**	**2900[e]**	**78[e,j]**	**5.9**	**6260[k]**	**153**	**6160**
RE00-22-238156	00-218	22	North	0–1	FILL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238157	00-218	22	North	4–5	FILL	0.114	—	—	—	—	—	—	—	—	—	0.263	—
RE00-22-238158	00-218	22	North	11.9–12.9	QBT3	—	—	—	—	—	—	—	—	—	—	0.0563 (J)	—
RE00-22-238159	00-219	87	South	8.5–9.5	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238161	00-220	85	South	0–1	FILL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238162	00-220	85	South	3–4	FILL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238163	00-220	85	South	4.9–5.9	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238164	00-221	84	South	11–12	QBT3	—	—	—	—	—	—	0.066	—	—	—	—	—
RE00-22-238165	00-221	84	South	14–15	QBT3	—	—	—	—	—	—	0.0149 (J)	—	—	—	—	—
RE00-22-238166	00-222	7	North	0–1	FILL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238167	00-222	7	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	—	—	0.0565
RE00-22-238168	00-222	7	North	5–6	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238169	00-223	81	South	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238170	00-223	81	South	9.5–10.5	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238174	00-225	77	South	8.5–9.5	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238175	00-225	77	South	11.5–12.5	QBT3	—	0.376 (J)	0.26 (J)	—	—	—	—	—	—	—	—	—
RE00-22-238176	00-226	95	South	0–1	FILL	—	—	—	—	—	—	—	—	—	—	0.0906	—
RE00-22-238177	00-226	95	South	3–4	SOIL	—	—	—	—	—	—	—	—	—	—	0.071	—
RE00-22-238178	00-226	95	South	6–7	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238179	00-227	78	South	7.5–8.5	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238181	00-228	59	South	0–1	FILL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238281	00-228	59	South	4–5	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238184	00-229	73	South	7.5–8.5	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238185	00-229	73	South	10.5–11.5	QBT3	—	—	0.154 (J)	—	—	—	—	—	—	—	—	—
RE00-22-238189	00-231	69	South	7.5–8.5	QBT3	—	—	—	—	—	—	—	—	—	—	—	—

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Benzo(k)fluoranthene	Benzoic Acid	Benzyl Alcohol	Bis(2-ethylhexyl)phthalate	Butanol[1-]	Butanone[2-]	Butylbenzylphthalate	Carbazole	Chloroform	Chloroanaline[2-]	Chrysene	Di-n-butylphthalate
Construction Worker SSL[b]						**2310**	**1,080,000[d]**	**26,900[d]**	**5380**	**na**	**91,700**	**53,800[d]**	**251[d,j]**	**134**	**28,300[k]**	**23,100**	**26,900**
Industrial SSL[b]						**323**	**3,300,000[e]**	**82,000[e]**	**1830**	**120,000[e]**	**411,000**	**12,000[e]**	**1200[e,j]**	**28.7**	**104,000[k]**	**3230**	**91,600**
Recreational SSL[f]						**888**	**1,310,000**	**32,800**	**1770**	**na**	**353,000**	**13,100**	**2340[j]**	**204**	**49,500[k]**	**8880**	**32,800**
Residential SSL[b]						**15.3**	**250,000[e]**	**6300[e]**	**380**	**7800[e]**	**37,400**	**2900[e]**	**78[e,j]**	**5.9**	**6260[k]**	**153**	**6160**
RE00-22-238190	00-231	69	South	10.5–11.5	QBT3	—	—	0.147 (J)	—	—	—	—	—	—	—	—	—
RE00-22-238192	00-232	96	South	0–1	FILL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238191	00-232	96	South	4–5	FILL	—	—	—	—	—	—	—	—	—	—	—	0.135 (J)
RE00-22-238193	00-232	96	South	6–7	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238194	00-233	64	South	7.5–8.5	QBT3	—	0.362 (J)	0.606	—	—	—	—	—	—	—	—	—
RE00-22-238195	00-233	64	South	10.5–11.5	QBT3	—	—	0.216 (J)	—	—	—	—	—	—	—	—	—
RE00-22-238196	00-234	61	South	12.5–13.5	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238197	00-234	61	South	15.5–16.5	QBT3	—	—	0.306 (J)	—	—	—	—	—	—	—	—	—
RE00-22-238199	00-235	57	South	12–13	QBT3	—	—	0.272 (J)	—	—	—	—	—	—	—	—	—
RE00-22-238200	00-236	60	South	13–14	QBT3	—	—	0.222 (J)	—	—	—	—	—	—	—	—	—
RE00-22-238201	00-236	60	South	16–17	QBT3	—	—	0.586	—	—	—	—	—	—	—	—	—
RE00-22-238202	00-237	62	South	8.5–9.5	QBT3	—	—	—	—	—	—	0.0326 (J+)	—	—	—	—	—
RE00-22-238203	00-237	62	South	11.5–12.5	QBT3	—	—	0.127 (J)	—	—	—	—	—	—	—	—	—
RE00-22-238204	00-238	63	South	4–5	QBT3	—	—	0.172 (J)	—	—	—	—	—	—	—	—	—
RE00-22-238205	00-238	63	South	7–8	QBT3	—	—	0.134 (J)	—	—	—	0.0287 (J+)	—	—	—	—	—
RE00-22-238208	00-240	68	South	5–6	QBT3	—	—	0.233 (J)	—	—	—	—	—	—	—	—	—
RE00-22-238226	00-249	5	North	8–9	QBT3	—	—	0.109 (J)	—	—	—	—	—	—	—	—	—
RE00-22-238237	00-254	15	North	7–8	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238239	00-255	93	South	4–5	FILL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238242	00-256	14	North	7.3–8.3	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-239164	00-257	6	North	6.1–7.1	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238248	00-259	75	South	0–1	FILL	—	—	—	—	—	—	—	—	—	—	0.0752	—
RE00-22-238249	00-259	75	South	3–4	FILL	—	—	—	—	—	—	—	—	—	—	0.00695	—
RE00-22-238250	00-259	75	South	6.9–7.9	QBT3	—	—	—	—	—	—	—	—	—	—	—	0.0142 (J)
RE00-22-238251	00-260	88	South	0–1	FILL	—	—	—	—	—	—	—	—	—	—	0.056 (J)	—

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Benzo(k)fluoranthene	Benzoic Acid	Benzyl Alcohol	Bis(2-ethylhexyl)phthalate	Butanol[1-]	Butanone[2-]	Butylbenzylphthalate	Carbazole	Chloroform	Chloroanaline[2-]	Chrysene	Di-n-butylphthalate
Construction Worker SSL[b]						**2310**	**1,080,000[d]**	**26,900[d]**	**5380**	**na**	**91,700**	**53,800[d]**	**251[d,j]**	**134**	**28,300[k]**	**23,100**	**26,900**
Industrial SSL[b]						**323**	**3,300,000[e]**	**82,000[e]**	**1830**	**120,000[e]**	**411,000**	**12,000[e]**	**1200[e,j]**	**28.7**	**104,000[k]**	**3230**	**91,600**
Recreational SSL[f]						**888**	**1,310,000**	**32,800**	**1770**	**na**	**353,000**	**13,100**	**2340[j]**	**204**	**49,500[k]**	**8880**	**32,800**
Residential SSL[b]						**15.3**	**250,000[e]**	**6300[e]**	**380**	**7800[e]**	**37,400**	**2900[e]**	**78[e,j]**	**5.9**	**6260[k]**	**153**	**6160**
RE00-22-238253	00-261	56A	North	0–1	SOIL	0.0942	—	—	—	—	—	—	0.0755	—	—	0.24	0.0114 (J)
RE00-22-238254	00-261	56A	North	3–4	SOIL	0.0314	—	—	—	—	—	—	—	—	—	0.0773	—
RE00-22-238255	00-261	56A	North	11.6–12.6	QBT3	0.00284 (J)	—	—	0.0156 (J)	—	—	—	—	—	—	0.0128	0.0128 (J)
RE00-22-238273	00-61519	16	North	0–1	FILL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238278	00-61519	16	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	—	0.0908	—
RE00-22-238283	00-61519	16	North	12–13	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238279	00-61520	South	North	4–5	FILL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238282	00-61523	74	South	4–5	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238277	00-61523	74	South	8–9	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238300	00-61526	56	North	6–7	FILL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-239217	00-61546	19	North	0–1	FILL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-239227	00-61546	19	North	4–5	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-239237	00-61546	19	North	5.75–6.8	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-239218	00-61547	55A	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-239228	00-61547	55A	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	—	0.0482	—
RE00-22-239238	00-61547	55A	North	11.9–12.9	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-239221	00-61550	58A	South	0–1	SOIL	0.00726	—	—	0.0138 (J)	—	—	—	—	—	—	0.0254 (J)	—
RE00-22-239231	00-61550	58A	South	3–4	SOIL	0.00448	—	—	—	—	—	—	—	—	—	0.0291 (J)	—
RE00-22-239241	00-61550	58A	South	8–9	QBT3	—	—	—	—	—	—	—	—	—	—	0.00567	—
RE00-22-239224	00-61553	54A	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-239234	00-61553	54A	North	4–5	SOIL	—	—	—	—	—	—	—	—	—	—	0.0636 (J)	—
RE00-22-239244	00-61553	54A	North	6.9–7.9	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-248888	00-61568	29 5NE	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-248889	00-61568	29 5NE	North	4–5	SOIL	—	—	—	—	—	0.258 (J)	—	—	—	—	—	—
RE00-22-248890	00-61568	29 5NE	North	7–8	QBT3	—	—	—	—	—	—	—	—	—	—	0.00207 (J)	—

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Benzo(k)fluoranthene	Benzoic Acid	Benzyl Alcohol	Bis(2-ethylhexyl)phthalate	Butanol[1-]	Butanone[2-]	Butylbenzylphthalate	Carbazole	Chloroform	Chloroanaline[2-]	Chrysene	Di-n-butylphthalate
Construction Worker SSL[b]						**2310**	**1,080,000[d]**	**26,900[d]**	**5380**	**na**	**91,700**	**53,800[d]**	**251[d,j]**	**134**	**28,300[k]**	**23,100**	**26,900**
Industrial SSL[b]						**323**	**3,300,000[e]**	**82,000[e]**	**1830**	**120,000[e]**	**411,000**	**12,000[e]**	**1200[e,j]**	**28.7**	**104,000[k]**	**3230**	**91,600**
Recreational SSL[f]						**888**	**1,310,000**	**32,800**	**1770**	**na**	**353,000**	**13,100**	**2340[j]**	**204**	**49,500[k]**	**8880**	**32,800**
Residential SSL[b]						**15.3**	**250,000[e]**	**6300[e]**	**380**	**7800[e]**	**37,400**	**2900[e]**	**78[e,j]**	**5.9**	**6260[k]**	**153**	**6160**
RE00-22-248891	00-61569	29 5S	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-248892	00-61569	29 5S	North	4–5	SOIL	—	—	—	—	—	—	—	—	—	—	0.00252 (J)	—
RE00-22-248893	00-61569	29 5S	North	7–8	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-249057	00-61569	29 5S	North	9–10	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-249058	00-61569	29 5S	North	11–12	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-248894	00-61570	29 5SE	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	0.0252 (J)	—
RE00-22-248895	00-61570	29 5SE	North	4–5	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-248896	00-61570	29 5SE	North	7–8	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-248897	00-61571	22 5E	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-248898	00-61571	22 5E	North	4–5	SOIL	—	—	—	—	—	—	—	—	—	—	0.0852 (J)	—
RE00-22-248899	00-61571	22 5E	North	11.9–12.9	QBT3	—	—	—	—	—	—	—	—	—	—	0.0343 (J)	—
RE00-22-248900	00-61572	92 5E	South	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	0.081	—
RE00-22-248901	00-61572	92 5E	South	3–4	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-248902	00-61572	92 5E	South	7.7–8.7	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-248903	00-61573	92 5N	South	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	0.0864 (J)	—
RE00-22-248904	00-61573	92 5N	South	3–4	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-248905	00-61573	92 5N	South	7.7–8.7	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-248906	00-61574	56A 5E	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	0.0426 (J)	—
RE00-22-248907	00-61574	56A 5E	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	—	0.058 (J)	—
RE00-22-248909	00-61575	56A 5N	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-248910	00-61575	56A 5N	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	—	0.0364 (J)	—
RE00-22-248911	00-61575	56A 5N	North	11.6–12.6	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-248913	00-61576	56A 5W	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	—	0.0372 (J)	—
RE00-22-248914	00-61576	56A 5W	North	11.6–12.6	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-248915	00-61577	56A 5S	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	—	—

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Benzo(k)fluoranthene	Benzoic Acid	Benzyl Alcohol	Bis(2-ethylhexyl)phthalate	Butanol[1-]	Butanone[2-]	Butylbenzylphthalate	Carbazole	Chloroform	Chloroanaline[2-]	Chrysene	Di-n-butylphthalate
Construction Worker SSL[b]						**2310**	**1,080,000[d]**	**26,900[d]**	**5380**	**na**	**91,700**	**53,800[d]**	**251[d,j]**	**134**	**28,300[k]**	**23,100**	**26,900**
Industrial SSL[b]						**323**	**3,300,000[e]**	**82,000[e]**	**1830**	**120,000[e]**	**411,000**	**12,000[e]**	**1200[e,j]**	**28.7**	**104,000[k]**	**3230**	**91,600**
Recreational SSL[f]						**888**	**1,310,000**	**32,800**	**1770**	**na**	**353,000**	**13,100**	**2340[j]**	**204**	**49,500[k]**	**8880**	**32,800**
Residential SSL[b]						**15.3**	**250,000[e]**	**6300[e]**	**380**	**7800[e]**	**37,400**	**2900[e]**	**78[e,j]**	**5.9**	**6260[k]**	**153**	**6160**
RE00-22-248916	00-61577	56A 5S	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	—	0.0745	—
RE00-22-248930	00-61581	2 5S	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	—	0.0212 (J)	—
RE00-22-248979	00-61582	2 5SE	North	8.5–9.5	QBT3	—	—	—	—	—	—	—	—	—	—	0.00307 (J)	—
RE00-22-248982	00-61582	2 5SE	North	10.5–11.5	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-248934	00-61583	58 5E	South	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-248935	00-61583	58 5E	South	4–5	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-255298	00-61584	58 5SW	South	13–14	SOIL	—	—	—	—	—	—	—	—	—	—	0.00303 (J)	—
RE00-22-248943	00-61586	94 5S	South	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-248944	00-61586	94 5S	South	4–5	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-248947	00-61587	94 5E	South	4–5	SOIL	—	—	—	—	—	—	—	—	—	—	0.0246 (J)	—
RE00-22-248948	00-61587	94 5E	South	9.1–9.9	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-249009	00-61587	94 5E	South	10.9–11.9	QBT3	0.00235 (J)	—	—	0.0242 (J)	—	—	—	—	—	—	0.00605	—
RE00-22-249010	00-61587	94 5E	South	12.9–13.9	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-248949	00-61588	94 5W	South	0–1	SOIL	0.0219 (J)	—	—	—	—	—	—	—	—	—	0.0401	—
RE00-22-248950	00-61588	94 5W	South	4–5	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-248952	00-61589	29 5W	North	0–1	SOIL	—	—	—	—	—	0.256 (J)	—	—	—	—	0.0206 (J)	—
RE00-22-248953	00-61589	29 5W	North	4–5	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-248954	00-61589	29 5W	North	7–8	QBT3	—	—	—	—	—	—	—	—	—	—	0.00211 (J)	—
RE00-22-248955	00-61589	29 5W	North	11.5–12.5	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-248956	00-61590	95 5W	South	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-248957	00-61590	95 5W	South	3–4	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-248958	00-61590	95 5W	South	6–7	QBT3	—	—	—	—	—	—	—	—	—	—	—	0.054 (J)
RE00-22-248960	00-61591	1 5S	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	—	0.0185 (J)	—
RE00-22-248961	00-61591	1 5S	North	6–7	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-248962	00-61592	1 5SW	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	—	—

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Benzo(k)fluoranthene	Benzoic Acid	Benzyl Alcohol	Bis(2-ethylhexyl)phthalate	Butanol[1-]	Butanone[2-]	Butylbenzylphthalate	Carbazole	Chloroform	Chloroanaline[2-]	Chrysene	Di-n-butylphthalate
Construction Worker SSL[b]						**2310**	**1,080,000[d]**	**26,900[d]**	**5380**	**na**	**91,700**	**53,800[d]**	**251[d,j]**	**134**	**28,300[k]**	**23,100**	**26,900**
Industrial SSL[b]						**323**	**3,300,000[e]**	**82,000[e]**	**1830**	**120,000[e]**	**411,000**	**12,000[e]**	**1200[e,j]**	**28.7**	**104,000[k]**	**3230**	**91,600**
Recreational SSL[f]						**888**	**1,310,000**	**32,800**	**1770**	**na**	**353,000**	**13,100**	**2340[j]**	**204**	**49,500[k]**	**8880**	**32,800**
Residential SSL[b]						**15.3**	**250,000[e]**	**6300[e]**	**380**	**7800[e]**	**37,400**	**2900[e]**	**78[e,j]**	**5.9**	**6260[k]**	**153**	**6160**
RE00-22-248963	00-61592	1 5SW	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	—	—	0.0762 (J)
RE00-22-248964	00-61592	1 5SW	North	6–7	QBT3	—	—	—	—	—	—	—	—	—	—	—	0.0909 (J)
RE00-22-248965	00-61593	1 5NE	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-248966	00-61593	1 5NE	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	—	—	0.0745 (J)
RE00-22-248967	00-61593	1 5NE	North	6–7	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-248968	00-61594	1 5NW	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	—	0.254 (J)
RE00-22-248969	00-61594	1 5NW	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-248970	00-61594	1 5NW	North	6–7	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-248985	00-61599	2 10N	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	—	—	0.273
RE00-22-248986	00-61600	22 5NE	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-248987	00-61600	22 5NE	North	4–5	SOIL	—	—	—	—	—	—	—	—	—	—	0.0854	—
RE00-22-248988	00-61600	22 5NE	North	11.9–12.9	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-248989	00-61601	56A 10W	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	0.014 (J)	—
RE00-22-248990	00-61601	56A 10W	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	—	0.00371	—
RE00-22-248991	00-61601	56A 10W	North	11.6–12.6	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-248992	00-61602	94 10SE	South	0–1	SOIL	0.0142 (J)	—	—	—	—	—	—	—	—	—	0.0354	—
RE00-22-248994	00-61602	94 10SE	South	9.1–9.9	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-249014	00-61609	94 10S	South	4–5	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-249015	00-61609	94 10S	South	9.1–9.9	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-249019	00-61611	92 5NW	South	0–1	SOIL	0.0394	—	—	—	—	—	—	—	—	—	0.0967	—
RE00-22-249020	00-61611	92 5NW	South	3–4	SOIL	—	—	—	—	—	—	—	—	—	—	0.027 (J)	—
RE00-22-249021	00-61611	92 5NW	South	7.7–8.7	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-249022	00-61612	22 10E	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-249023	00-61612	22 10E	North	4–5	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-249024	00-61612	22 10E	North	11.9–12.9	QBT3	—	—	—	—	—	—	—	—	—	—	0.0139 (J)	0.0575 (J)

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Benzo(k)fluoranthene	Benzoic Acid	Benzyl Alcohol	Bis(2-ethylhexyl)phthalate	Butanol[1-]	Butanone[2-]	Butylbenzylphthalate	Carbazole	Chloroform	Chloroanaline[2-]	Chrysene	Di-n-butylphthalate
Construction Worker SSL[b]						**2310**	**1,080,000[d]**	**26,900[d]**	**5380**	**na**	**91,700**	**53,800[d]**	**251[d,j]**	**134**	**28,300[k]**	**23,100**	**26,900**
Industrial SSL[b]						**323**	**3,300,000[e]**	**82,000[e]**	**1830**	**120,000[e]**	**411,000**	**12,000[e]**	**1200[e,j]**	**28.7**	**104,000[k]**	**3230**	**91,600**
Recreational SSL[f]						**888**	**1,310,000**	**32,800**	**1770**	**na**	**353,000**	**13,100**	**2340[j]**	**204**	**49,500[k]**	**8880**	**32,800**
Residential SSL[b]						**15.3**	**250,000[e]**	**6300[e]**	**380**	**7800[e]**	**37,400**	**2900[e]**	**78[e,j]**	**5.9**	**6260[k]**	**153**	**6160**
RE00-22-249031	00-61616	27 5E	North	11.5–12.5	QBT3	0.00171 (J)	—	—	—	—	—	—	—	—	—	0.00342	—
RE00-22-249036	00-61618	2V	North	10–11	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-249037	00-61619	58 5N	South	4–5	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-249038	00-61619	58 5N	South	7–8	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-249064	00-61619	58 5N	South	13.9–14.9	QBT3	—	—	—	—	—	—	—	—	—	—	0.0246 (J)	0.393
RE00-22-249065	00-61619	58 5N	South	15.9–16.9	QBT3	—	—	—	—	—	—	—	—	—	—	0.00873 (J)	—
RE00-22-249039	00-61620	00-196	North	9.5–10.5	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-249041	00-61621	00-61521	North	9–10	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-249042	00-61621	00-61521	North	11–12	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-249045	00-61622	22 5SE	North	11.9–12.9	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-249046	00-61623	17 5S	North	9–10	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-249047	00-61623	17 5S	North	11–12	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-249049	00-61624	00-212	North	10–11	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-249050	00-61625	00-61553	North	9–10	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-249051	00-61625	00-61553	North	11–12	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-249025	00-61625	00-61553	North	13–14	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-249026	00-61625	00-61553	North	15–16	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-249053	00-61626	27 5W	North	8.5–9.5	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-249052	00-61626	27 5W	North	11.5–12.5	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-249055	00-61627	27 5N	North	11.5–12.5	QBT3	—	—	—	—	—	—	—	—	—	—	—	0.0332 (J-)
RE00-22-249056	00-61628	92 5S	South	7.7–8.7	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-249059	00-61630	00-210	North	9–10	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-249060	00-61630	00-210	North	11–12	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-250910	00-61651	2 10NW	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-250911	00-61651	2 10NW	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	—	0.0216 (J)	—

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Benzo(k)fluoranthene	Benzoic Acid	Benzyl Alcohol	Bis(2-ethylhexyl)phthalate	Butanol[1-]	Butanone[2-]	Butylbenzylphthalate	Carbazole	Chloroform	Chloroanaline[2-]	Chrysene	Di-n-butylphthalate
Construction Worker SSL[b]						**2310**	**1,080,000[d]**	**26,900[d]**	**5380**	**na**	**91,700**	**53,800[d]**	**251[d,j]**	**134**	**28,300[k]**	**23,100**	**26,900**
Industrial SSL[b]						**323**	**3,300,000[e]**	**82,000[e]**	**1830**	**120,000[e]**	**411,000**	**12,000[e]**	**1200[e,j]**	**28.7**	**104,000[k]**	**3230**	**91,600**
Recreational SSL[f]						**888**	**1,310,000**	**32,800**	**1770**	**na**	**353,000**	**13,100**	**2340[j]**	**204**	**49,500[k]**	**8880**	**32,800**
Residential SSL[b]						**15.3**	**250,000[e]**	**6300[e]**	**380**	**7800[e]**	**37,400**	**2900[e]**	**78[e,j]**	**5.9**	**6260[k]**	**153**	**6160**
RE00-22-250912	00-61651	2 10NW	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	—	—	0.0214 (J)
RE00-22-250916	00-61653	2 10SE	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	0.0353	—
RE00-22-250917	00-61653	2 10SE	North	3–4	SOIL	0.28	—	—	—	—	—	—	0.169	—	—	0.607	0.0334 (J)
RE00-22-250918	00-61653	2 10SE	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-250919	00-61654	1 10SW	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	0.01 (J)	—
RE00-22-250920	00-61654	1 10SW	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-250921	00-61654	1 10SW	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	—	0.0124 (J)	—
RE00-22-250922	00-61655	22 10SE	North	0–1	SOIL	0.00277 (J)	—	—	—	—	—	—	—	—	—	0.00691	—
RE00-22-250923	00-61655	22 10SE	North	4–5	SOIL	—	—	—	—	—	—	—	—	—	—	0.00502	—
RE00-22-250924	00-61655	22 10SE	North	11.9–12.9	QBT3	—	—	—	—	—	—	—	—	—	—	0.00306 (J)	—
RE00-22-250928	00-61657	22 10S	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	0.00443	—
RE00-22-250929	00-61657	22 10S	North	4–5	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-250930	00-61657	22 10S	North	11.9–12.9	QBT3	—	—	—	—	—	—	—	—	—	—	0.00209 (J)	—
RE00-22-250931	00-61658	56A 10S	South	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	0.0174	—
RE00-22-250932	00-61658	56A 10S	South	3–4	SOIL	0.00291 (J)	—	—	—	—	—	—	—	—	—	0.0185	—
RE00-22-250933	00-61658	56A 10S	South	11.6–12.6	QBT3	0.00277 (J)	—	—	—	—	—	—	—	—	—	0.0107	—
RE00-22-250934	00-61659	56A 10SE	North	0–1	SOIL	0.00393	—	—	—	—	0.00286 (J)	—	—	—	—	0.00819	—
RE00-22-250935	00-61659	56A 10SE	North	3–4	SOIL	0.00437	—	—	—	—	—	—	—	—	—	0.0492	—
RE00-22-250936	00-61659	56A 10SE	North	11.6–12.6	QBT3	—	—	—	—	—	—	—	—	—	—	0.00236 (J)	—
RE00-22-250937	00-61660	56A 10SW	North	0–1	SOIL	0.0103 (J)	—	—	—	—	—	—	—	—	—	0.0206 (J)	—
RE00-22-250938	00-61660	56A 10SW	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	—	0.0297 (J)	—
RE00-22-250939	00-61660	56A 10SW	North	11.6–12.6	QBT3	—	—	—	0.0199 (J)	—	—	—	—	—	—	0.00245 (J)	—
RE00-22-250940	00-61661	94 10SW	South	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-250941	00-61661	94 10SW	South	4–5	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-250942	00-61661	94 10SW	South	9.1–9.9	QBT3	—	—	—	—	—	—	—	—	—	—	—	—

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Benzo(k)fluoranthene	Benzoic Acid	Benzyl Alcohol	Bis(2-ethylhexyl)phthalate	Butanol[1-]	Butanone[2-]	Butylbenzylphthalate	Carbazole	Chloroform	Chloroanaline[2-]	Chrysene	Di-n-butylphthalate
Construction Worker SSL[b]						**2310**	**1,080,000[d]**	**26,900[d]**	**5380**	**na**	**91,700**	**53,800[d]**	**251[d,j]**	**134**	**28,300[k]**	**23,100**	**26,900**
Industrial SSL[b]						**323**	**3,300,000[e]**	**82,000[e]**	**1830**	**120,000[e]**	**411,000**	**12,000[e]**	**1200[e,j]**	**28.7**	**104,000[k]**	**3230**	**91,600**
Recreational SSL[f]						**888**	**1,310,000**	**32,800**	**1770**	**na**	**353,000**	**13,100**	**2340[j]**	**204**	**49,500[k]**	**8880**	**32,800**
Residential SSL[b]						**15.3**	**250,000[e]**	**6300[e]**	**380**	**7800[e]**	**37,400**	**2900[e]**	**78[e,j]**	**5.9**	**6260[k]**	**153**	**6160**
RE00-22-252842	00-61700	2 14N	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	—	—	0.0157 (J)
RE00-22-252845	00-61701	2 15NNE	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-253161	00-61705	29 10S	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	0.00249 (J)	—
RE00-22-253162	00-61705	29 10S	North	4–5	SOIL	—	0.516 (J)	—	—	—	—	—	—	—	—	—	0.153 (J)
RE00-22-253163	00-61705	29 10S	North	7–8	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-253164	00-61705	29 10S	North	9–10	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-253165	00-61705	29 10S	North	11–12	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-253167	00-61706	29 10WSW	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	0.00319 (J)	—
RE00-22-253168	00-61706	29 10WSW	North	4–5	SOIL	—	0.54 (J)	—	—	—	—	—	—	—	—	0.00743	—
RE00-22-253169	00-61706	29 10WSW	North	7–8	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-253170	00-61706	29 10WSW	North	9–10	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-253171	00-61706	29 10WSW	North	11–12	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-253172	00-61707	29 10SE	North	0–1	SOIL	0.00212 (J)	—	—	—	—	—	—	—	—	—	0.00813	—
RE00-22-253173	00-61707	29 10SE	North	4–5	SOIL	0.0115 (J)	—	—	—	—	—	—	—	—	—	0.0305	—
RE00-22-253174	00-61707	29 10SE	North	7–8	SOIL	0.0076	—	—	—	—	—	—	—	—	—	0.0246	—
RE00-22-253175	00-61707	29 10SE	North	9–10	SOIL	0.00213 (J)	—	—	—	—	—	—	—	—	—	0.011	—
RE00-22-253176	00-61707	29 10SE	North	11–12	QBT3	—	—	—	—	—	—	—	—	—	—	0.00532	—
RE00-22-253177	00-61708	29 15SW	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-253178	00-61708	29 15SW	North	4–5	SOIL	—	—	—	—	—	—	—	—	—	—	—	0.162
RE00-22-253179	00-61708	29 15SW	North	7–8	QBT3	—	—	—	—	—	—	—	—	—	—	0.00201 (J)	0.167
RE00-22-253180	00-61708	29 15SW	North	9–10	QBT3	—	—	—	—	—	—	—	—	—	—	—	0.0812
RE00-22-253181	00-61708	29 15SW	North	11–12	QBT3	—	—	—	—	—	—	—	—	—	—	0.00203 (J)	0.153
RE00-22-253182	00-61709	56A 5WV	North	13.6–14.6	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-253184	00-61711	56A 10NW	North	0–1	SOIL	0.00317 (J)	—	—	—	—	—	—	—	—	—	0.00774	0.231
RE00-22-253185	00-61711	56A 10NW	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	—	0.0111 (J)	0.167 (J)

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Benzo(k)fluoranthene	Benzoic Acid	Benzyl Alcohol	Bis(2-ethylhexyl)phthalate	Butanol[1-]	Butanone[2-]	Butylbenzylphthalate	Carbazole	Chloroform	Chloroanaline[2-]	Chrysene	Di-n-butylphthalate
Construction Worker SSL[b]						**2310**	**1,080,000[d]**	**26,900[d]**	**5380**	**na**	**91,700**	**53,800[d]**	**251[d,j]**	**134**	**28,300[k]**	**23,100**	**26,900**
Industrial SSL[b]						**323**	**3,300,000[e]**	**82,000[e]**	**1830**	**120,000[e]**	**411,000**	**12,000[e]**	**1200[e,j]**	**28.7**	**104,000[k]**	**3230**	**91,600**
Recreational SSL[f]						**888**	**1,310,000**	**32,800**	**1770**	**na**	**353,000**	**13,100**	**2340[j]**	**204**	**49,500[k]**	**8880**	**32,800**
Residential SSL[b]						**15.3**	**250,000[e]**	**6300[e]**	**380**	**7800[e]**	**37,400**	**2900[e]**	**78[e,j]**	**5.9**	**6260[k]**	**153**	**6160**
RE00-22-253186	00-61711	56A 10NW	North	11.6–12.6	QBT3	—	—	—	—	—	—	—	—	—	—	0.00219 (J)	0.101
RE00-22-253190	00-61712	94 15SW	South	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	0.0319 (J)	0.135 (J)
RE00-22-253191	00-61712	94 15SW	South	4–5	SOIL	0.00462	—	—	—	—	—	—	—	—	—	0.0131 (J)	0.106
RE00-22-253192	00-61712	94 15SW	South	9.1–9.9	QBT3	—	—	—	—	—	—	—	—	—	—	0.00644	—
RE00-22-253193	00-61713	94 15WSW	South	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	0.0382	0.122 (J)
RE00-22-253194	00-61713	94 15WSW	South	4–5	SOIL	—	—	—	—	—	—	—	—	—	—	0.0129	0.103
RE00-22-253195	00-61713	94 15WSW	South	9.1–9.9	SOIL	—	—	—	—	—	—	—	—	—	—	0.00274 (J)	—
RE00-22-253196	00-61714	94 10W	South	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	0.0172	0.209
RE00-22-253197	00-61714	94 10W	South	4–5	SOIL	—	—	—	—	—	—	—	—	—	—	0.00672	0.203
RE00-22-253198	00-61714	94 10W	South	9.1–9.9	QBT3	0.00476	—	—	—	—	—	—	—	—	—	0.0128 (J)	0.114
RE00-22-253202	00-61716	58 10S	South	0–1	SOIL	0.00945	—	—	—	—	—	—	—	—	—	0.00836	0.114
RE00-22-253203	00-61716	58 10S	South	4–5	QBT3	—	—	—	—	—	—	—	—	—	—	0.00446	—
RE00-22-253204	00-61716	58 10S	South	7–8	QBT3	—	—	—	—	—	—	—	—	—	—	0.00341	—
RE00-22-253205	00-61716	58 10S	South	9–10	QBT3	—	—	—	—	—	—	—	—	—	—	0.0044	—
RE00-22-253206	00-61716	58 10S	South	11–12	QBT3	—	—	—	—	—	—	—	—	—	—	0.00199 (J)	—
RE00-22-253207	00-61717	58 10SE	South	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	0.00366 (J)	—
RE00-22-253208	00-61717	58 10SE	South	4–5	QBT3	—	—	—	—	—	—	—	—	—	—	—	0.16
RE00-22-253209	00-61717	58 10SE	South	7–8	QBT3	0.00211 (J)	—	—	0.0151 (J)	—	—	—	—	—	—	0.00351 (J)	0.113
RE00-22-253210	00-61717	58 10SE	South	9–10	QBT3	—	—	—	0.0191 (J)	—	—	—	—	—	—	—	0.24
RE00-22-253211	00-61717	58 10SE	South	11–12	QBT3	—	—	—	0.0523	9620	—	—	—	—	—	0.00169 (J)	0.111
RE00-22-255274	00-61722	2 25ENE	North	0–1	SOIL	0.00298 (J)	—	—	—	—	—	—	—	—	—	0.0112 (J)	0.0551 (J)
RE00-22-255275	00-61722	2 25ENE	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	—	0.00325 (J)	0.0568 (J)
RE00-22-255276	00-61722	2 25ENE	North	6.5–7.5	QBT3	0.00581 (J)	—	—	—	—	—	—	—	—	—	0.00616 (J)	0.0595 (J)
RE00-22-255285	00-61725	2 19N	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-255286	00-61726	2 15NW	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	—	—

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Benzo(k)fluoranthene	Benzoic Acid	Benzyl Alcohol	Bis(2-ethylhexyl)phthalate	Butanol[1-]	Butanone[2-]	Butylbenzylphthalate	Carbazole	Chloroform	Chloroanaline[2-]	Chrysene	Di-n-butylphthalate
Construction Worker SSL[b]						**2310**	**1,080,000[d]**	**26,900[d]**	**5380**	**na**	**91,700**	**53,800[d]**	**251[d,j]**	**134**	**28,300[k]**	**23,100**	**26,900**
Industrial SSL[b]						**323**	**3,300,000[e]**	**82,000[e]**	**1830**	**120,000[e]**	**411,000**	**12,000[e]**	**1200[e,j]**	**28.7**	**104,000[k]**	**3230**	**91,600**
Recreational SSL[f]						**888**	**1,310,000**	**32,800**	**1770**	**na**	**353,000**	**13,100**	**2340[j]**	**204**	**49,500[k]**	**8880**	**32,800**
Residential SSL[b]						**15.3**	**250,000[e]**	**6300[e]**	**380**	**7800[e]**	**37,400**	**2900[e]**	**78[e,j]**	**5.9**	**6260[k]**	**153**	**6160**
RE00-22-255287	00-61726	2 15NW	North	3–4	SOIL	0.0774 (J)	—	—	—	—	—	—	0.0811 (J)	—	—	—	0.0995 (J)
RE00-22-255288	00-61726	2 15NW	North	6.5–7.5	SOIL	0.0125 (J)	—	—	—	—	—	—	0.0118 (J)	—	—	0.0022 (J)	—
RE00-22-255289	00-61727	2 20NW	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	0.0107 (J)	—
RE00-22-255290	00-61727	2 20NW	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	—	0.032 (J)	—
RE00-22-255291	00-61727	2 20NW	North	6.5–7.5	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-255294	00-61728	2 24N	North	6.5–7.5	QBT3	0.0124 (J)	—	—	—	—	—	—	0.0261 (J)	—	—	0.0158 (J)	0.0358
RE00-22-255295	00-61729	2 24NE	North	0–1	SOIL	—	—	—	—	—	—	0.149 (J)	0.196 (J)	—	—	0.125 (J)	0.129 (J)
RE00-22-255296	00-61729	2 24NE	North	3–4	SOIL	0.0377	—	—	0.07	—	—	0.0475	0.0703	—	—	0.0221 (J)	—
RE00-22-255297	00-61729	2 24NE	North	6.5–7.5	QBT3	0.0135 (J)	—	—	0.0242 (J)	—	—	0.0177 (J)	0.0312 (J)	—	—	0.0204 (J)	—
RE00-23-259861	00-61736	SE3	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-23-259864	00-61737	NE2	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	0.0215	—
RE00-23-259865	00-61737	NE2	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-23-259866	00-61737	NE2	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	—	0.00249 (J)	—
RE00-23-259867	00-61738	NE1	North	0–1	SOIL	0.0108 (J)	—	—	—	—	—	—	—	—	—	0.0342	—
RE00-23-259868	00-61738	NE1	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	—	0.0174	—
RE00-23-259869	00-61738	NE1	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	—	0.00872 (J)	—
RE00-23-282088	00-61739	NE6	North	17–18	QBT3	—	—	—	—	—	—	—	—	—	—	0.00411	—
RE00-23-282089	00-61739	NE6	North	19–20	QBT3	0.00269 (J)	—	—	—	—	—	—	—	—	—	0.0205 (J)	—
RE00-23-259873	00-61740	2 25NW	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	0.0314 (J)	—
RE00-23-259874	00-61740	2 25NW	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	—	0.0215	—
RE00-23-259875	00-61740	2 25NW	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	—	0.0142 (J)	—
RE00-23-259876	00-61741	N1	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	0.0211	—
RE00-23-259877	00-61741	N1	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	—	0.0196	—
RE00-23-259878	00-61741	N1	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-23-259882	00-61743	SE2	North	0–1	SOIL	0.00929 (J)	—	—	—	—	—	—	—	—	—	0.0204 (J)	—

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Benzo(k)fluoranthene	Benzoic Acid	Benzyl Alcohol	Bis(2-ethylhexyl)phthalate	Butanol[1-]	Butanone[2-]	Butylbenzylphthalate	Carbazole	Chloroform	Chloroanaline[2-]	Chrysene	Di-n-butylphthalate
Construction Worker SSL[b]						**2310**	**1,080,000[d]**	**26,900[d]**	**5380**	**na**	**91,700**	**53,800[d]**	**251[d,j]**	**134**	**28,300[k]**	**23,100**	**26,900**
Industrial SSL[b]						**323**	**3,300,000[e]**	**82,000[e]**	**1830**	**120,000[e]**	**411,000**	**12,000[e]**	**1200[e,j]**	**28.7**	**104,000[k]**	**3230**	**91,600**
Recreational SSL[f]						**888**	**1,310,000**	**32,800**	**1770**	**na**	**353,000**	**13,100**	**2340[j]**	**204**	**49,500[k]**	**8880**	**32,800**
Residential SSL[b]						**15.3**	**250,000[e]**	**6300[e]**	**380**	**7800[e]**	**37,400**	**2900[e]**	**78[e,j]**	**5.9**	**6260[k]**	**153**	**6160**
RE00-23-259883	00-61743	SE2	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-23-259884	00-61743	SE2	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-23-265182	00-61744	N2	North	0–1	SOIL	—	0.314 (J)	—	—	—	—	—	—	—	—	0.0172 (J-)	0.0272 (J-)
RE00-23-265183	00-61744	N2	North	3–4	SOIL	—	0.368 (J)	—	—	—	—	—	—	—	—	—	—
RE00-23-265184	00-61744	N2	North	6.5–7.5	QBT3	—	0.341 (J)	—	—	—	—	—	—	—	—	—	—
RE00-23-265179	00-61745	NE10	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	0.023	—
RE00-23-265180	00-61745	NE10	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-23-264877	00-61745	NE10	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	—	0.00208 (J)	—
RE00-23-264878	00-61746	N5	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	0.0252 (J)	0.0577 (J)
RE00-23-264879	00-61746	N5	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-23-264880	00-61746	N5	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	—	—	0.0133 (J)
RE00-23-264881	00-61747	N4	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	0.0246 (J)	—
RE00-23-264882	00-61747	N4	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-23-264883	00-61747	N4	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-23-264884	00-61748	NE4	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	0.0246 (J)	—
RE00-23-264885	00-61748	NE4	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	—	0.0247 (J)	—
RE00-23-264886	00-61748	NE4	North	6.5–7.5	SOIL	—	—	—	—	—	—	—	—	—	—	0.0281 (J)	—
RE00-23-265185	00-61749	N3	North	0–1	SOIL	—	0.302 (J)	—	0.0106 (J-)	—	—	—	—	—	—	0.013 (J-)	0.0109 (J-)
RE00-23-265186	00-61749	N3	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-23-265187	00-61749	N3	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	—	0.00174 (J)	—
RE00-23-265188	00-61750	NE3	North	0–1	SOIL	0.0121 (J)	—	—	0.131 (J)	—	—	—	—	—	—	0.119 (J)	—
RE00-23-265189	00-61750	NE3	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	—	0.00404	—
RE00-23-265190	00-61750	NE3	North	6.5–7.5	QBT3	—	—	—	0.0128 (J)	—	—	—	—	—	—	0.00623	—
RE00-23-264893	00-61751	2 20NEV	North	9–10	QBT3	—	—	—	—	—	—	—	—	—	—	0.0284 (J)	—
RE00-23-264894	00-61751	2 20NEV	North	11–12	QBT3	—	—	—	—	—	—	—	—	—	—	0.0279 (J)	0.0443

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Benzo(k)fluoranthene	Benzoic Acid	Benzyl Alcohol	Bis(2-ethylhexyl)phthalate	Butanol[1-]	Butanone[2-]	Butylbenzylphthalate	Carbazole	Chloroform	Chloroanaline[2-]	Chrysene	Di-n-butylphthalate
Construction Worker SSL[b]						**2310**	**1,080,000[d]**	**26,900[d]**	**5380**	**na**	**91,700**	**53,800[d]**	**251[d,j]**	**134**	**28,300[k]**	**23,100**	**26,900**
Industrial SSL[b]						**323**	**3,300,000[e]**	**82,000[e]**	**1830**	**120,000[e]**	**411,000**	**12,000[e]**	**1200[e,j]**	**28.7**	**104,000[k]**	**3230**	**91,600**
Recreational SSL[f]						**888**	**1,310,000**	**32,800**	**1770**	**na**	**353,000**	**13,100**	**2340[j]**	**204**	**49,500[k]**	**8880**	**32,800**
Residential SSL[b]						**15.3**	**250,000[e]**	**6300[e]**	**380**	**7800[e]**	**37,400**	**2900[e]**	**78[e,j]**	**5.9**	**6260[k]**	**153**	**6160**
RE00-23-264896	00-61752	N6	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	0.0423	—
RE00-23-264897	00-61752	N6	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	—	0.0467	—
RE00-23-264898	00-61752	N6	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-23-264899	00-61753	NE5	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	0.0213 (J)	—
RE00-23-264900	00-61753	NE5	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	—	0.00259 (J)	—
RE00-23-264901	00-61753	NE5	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	—	0.019 (J)	0.0131 (J)
RE00-23-264902	00-61754	SE1V	North	9–10	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-23-264903	00-61754	SE1V	North	11–12	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-23-264909	00-61756	SE10	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	—	0.0248 (J-)	—
RE00-23-267856	00-61757	SE4	North	0–1	SOIL	0.0068 (J)	—	—	—	—	—	—	—	—	—	0.0144 (J)	—
RE00-23-267857	00-61757	SE4	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	—	—	0.0962
RE00-23-267858	00-61757	SE4	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	—	0.00239 (J)	—
RE00-23-267859	00-61758	SE7	North	0–1	SOIL	0.00495 (J)	—	—	—	—	—	—	—	—	—	0.0107 (J)	—
RE00-23-267860	00-61758	SE7	North	3–4	SOIL	0.0029 (J)	—	—	—	—	—	—	—	—	—	0.012 (J)	—
RE00-23-267861	00-61758	SE7	North	6.5–7.5	QBT3	—	—	—	0.0236 (J)	—	—	—	—	—	—	0.00416 (J)	—
RE00-23-267871	00-61762	NE7	North	0–1	SOIL	0.00518	—	—	—	—	—	—	—	—	—	0.0281 (J)	—
RE00-23-267872	00-61762	NE7	North	3–4	SOIL	0.00295 (J)	—	—	—	—	—	—	—	—	0.00369	0.00295 (J)	—
RE00-23-267873	00-61762	NE7	North	6–7	QBT3	0.00209 (J)	—	—	—	—	—	—	—	—	—	0.00279 (J)	—
RE00-23-267874	00-61763	NE28	North	0–1	SOIL	0.00258 (J)	—	—	—	—	—	—	—	—	—	0.00885	—
RE00-23-267875	00-61763	NE28	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-23-267876	00-61763	NE28	North	5–6	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-23-267877	00-61764	NE23	North	0–1	SOIL	0.017	0.474 (J)	—	—	—	—	—	—	—	0.00227 (J)	0.059	—
RE00-23-267878	00-61764	NE23	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	—	0.00251 (J)	—
RE00-23-267879	00-61764	NE23	North	5–6	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-23-267882	00-61765	NE24	North	5–6	QBT3	0.00244 (J)	—	—	—	—	—	—	—	—	—	0.00592	—

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Benzo(k)fluoranthene	Benzoic Acid	Benzyl Alcohol	Bis(2-ethylhexyl)phthalate	Butanol[1-]	Butanone[2-]	Butylbenzylphthalate	Carbazole	Chloroform	Chloroanaline[2-]	Chrysene	Di-n-butylphthalate
Construction Worker SSL[b]						**2310**	**1,080,000[d]**	**26,900[d]**	**5380**	**na**	**91,700**	**53,800[d]**	**251[d,j]**	**134**	**28,300[k]**	**23,100**	**26,900**
Industrial SSL[b]						**323**	**3,300,000[e]**	**82,000[e]**	**1830**	**120,000[e]**	**411,000**	**12,000[e]**	**1200[e,j]**	**28.7**	**104,000[k]**	**3230**	**91,600**
Recreational SSL[f]						**888**	**1,310,000**	**32,800**	**1770**	**na**	**353,000**	**13,100**	**2340[j]**	**204**	**49,500[k]**	**8880**	**32,800**
Residential SSL[b]						**15.3**	**250,000[e]**	**6300[e]**	**380**	**7800[e]**	**37,400**	**2900[e]**	**78[e,j]**	**5.9**	**6260[k]**	**153**	**6160**
RE00-23-267886	00-61767	NE26	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	0.00254 (J)	0.0472	—
RE00-23-267887	00-61767	NE26	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-23-267888	00-61767	NE26	North	5–6	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-23-267889	00-61768	NE29	North	0.5–1.5	SOIL	—	—	—	—	—	—	—	—	—	—	0.00739 (J)	—
RE00-23-267890	00-61768	NE29	North	3.5–4.5	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-23-267891	00-61768	NE29	North	5.5–6.5	QBT3	0.00173 (J)	—	—	—	—	—	—	—	—	—	0.00207 (J)	—
RE00-23-271182	00-61775	NE34	North	3.5–4.5	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-23-271183	00-61775	NE34	North	5.5–6.5	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-23-271187	00-61776	NE25	North	5–6	QBT3	—	—	—	—	—	—	—	—	—	—	0.00474 (J)	—
RE00-23-271196	00-61779	SE11	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	—	0.00238 (J)	0.0349
RE00-23-271197	00-61780	NE20	North	0–1	SOIL	0.0139	—	—	0.459 (J)	—	—	—	—	—	0.00377	0.0983	—
RE00-23-271198	00-61780	NE20	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	—	0.00426	—
RE00-23-271199	00-61780	NE20	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-23-271200	00-61781	NE21	North	0–1	SOIL	0.00464 (J)	—	—	—	—	—	—	—	—	—	0.0328 (J)	—
RE00-23-271201	00-61781	NE21	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-23-271202	00-61781	NE21	North	6.5–7.5	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-23-271203	00-61782	NE54	North	0–1	SOIL	—	—	—	—	—	—	—	—	0.000844 (J)	—	0.0273	—
RE00-23-271204	00-61782	NE54	North	3–4	SOIL	—	0.487 (J)	—	—	—	—	—	—	0.000788 (J)	—	0.00217 (J)	—
RE00-23-271205	00-61782	NE54	North	6.5–7.5	QBT3	—	0.458 (J)	—	—	—	—	—	—	0.000613 (J)	—	—	—
RE00-23-271206	00-61783	NE53	North	0–1	SOIL	—	—	—	—	—	—	—	—	0.000786 (J)	—	0.0213 (J)	—
RE00-23-271207	00-61783	NE53	North	3–4	SOIL	—	—	—	—	—	—	—	—	0.000855 (J)	—	0.0074	—
RE00-23-271208	00-61783	NE53	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	0.000799 (J)	—	0.0137	—
RE00-23-271209	00-61784	SE14	North	0–1	SOIL	0.00857 (J+)	—	—	—	—	—	—	—	0.000731 (J)	—	0.045 (J)	—
RE00-23-271210	00-61784	SE14	North	3–4	SOIL	—	0.465 (J)	0.122 (J)	—	—	—	—	—	0.000863 (J)	—	0.00493	—
RE00-23-271211	00-61784	SE14	North	5–6	QBT3	—	0.456 (J)	—	—	—	—	—	—	0.000799 (J)	—	—	—

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Benzo(k)fluoranthene	Benzoic Acid	Benzyl Alcohol	Bis(2-ethylhexyl)phthalate	Butanol[1-]	Butanone[2-]	Butylbenzylphthalate	Carbazole	Chloroform	Chloroanaline[2-]	Chrysene	Di-n-butylphthalate
Construction Worker SSL[b]						**2310**	**1,080,000[d]**	**26,900[d]**	**5380**	**na**	**91,700**	**53,800[d]**	**251[d,j]**	**134**	**28,300[k]**	**23,100**	**26,900**
Industrial SSL[b]						**323**	**3,300,000[e]**	**82,000[e]**	**1830**	**120,000[e]**	**411,000**	**12,000[e]**	**1200[e,j]**	**28.7**	**104,000[k]**	**3230**	**91,600**
Recreational SSL[f]						**888**	**1,310,000**	**32,800**	**1770**	**na**	**353,000**	**13,100**	**2340[j]**	**204**	**49,500[k]**	**8880**	**32,800**
Residential SSL[b]						**15.3**	**250,000[e]**	**6300[e]**	**380**	**7800[e]**	**37,400**	**2900[e]**	**78[e,j]**	**5.9**	**6260[k]**	**153**	**6160**
RE00-23-271215	00-61786	SE12	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	0.0246	—
RE00-23-271216	00-61786	SE12	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	—	0.0276 (J)	—
RE00-23-271217	00-61786	SE12	North	11–12	QBT3	—	—	—	—	—	—	—	—	—	—	0.00678	—
RE00-23-271218	00-61787	SE15	North	0–1	SOIL	0.00945 (J)	—	—	—	—	—	—	—	—	—	0.0238 (J)	—
RE00-23-271219	00-61787	SE15	North	3–4	SOIL	0.13 (J)	—	—	—	—	—	—	0.12 (J)	—	—	0.289 (J)	—
RE00-23-271220	00-61787	SE15	North	11.5–12.5	QBT3	0.0115 (J)	—	—	—	—	—	—	—	—	—	0.0291 (J)	—
RE00-23-271227	00-61790	NE45	North	0.5–1.5	SOIL	—	—	—	—	—	—	—	—	—	—	0.00424	—
RE00-23-271230	00-61791	NE47	North	1–2	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-23-271233	00-61792	NE55	North	0–1	SOIL	0.035 (J)	—	—	—	—	—	—	—	—	0.00489	0.0993	0.07
RE00-23-271234	00-61792	NE55	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-23-271235	00-61792	NE55	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-23-271236	00-61793	NE38	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-23-271239	00-61794	NE39	North	0.5–1.5	SOIL	0.00258 (J)	—	—	—	—	—	—	—	—	—	0.014 (J)	—
RE00-23-271240	00-61794	NE39	North	2–3	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-23-271242	00-61795	NE48	North	3.5–4.5	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-23-271243	00-61795	NE48	North	5.5–6.5	QBT3	0.0402	—	—	—	—	—	—	0.0252 (J)	—	—	0.101	—
RE00-23-271248	00-61797	NE56	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	0.0031 (J)	—
RE00-23-271249	00-61797	NE56	North	2–3	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-23-282091	00-61799	NE60	North	0–1	SOIL	—	—	—	—	—	—	0.0124 (J)	—	—	—	0.00188 (J)	—
RE00-23-282092	00-61799	NE60	North	2–3	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-23-289091	00-61804	NE68	North	0–1	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RE00-23-291181	00-61804	NE68	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	0.00404 (J)	—
RE00-23-282118	00-61808	NE66	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	0.0121 (J)	—
RE00-23-291184	00-61811	NE67	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	0.00236 (J)	—
RE00-23-289519	00-61813	NE80	North	0–1	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Benzo(k)fluoranthene	Benzoic Acid	Benzyl Alcohol	Bis(2-ethylhexyl)phthalate	Butanol[1-]	Butanone[2-]	Butylbenzylphthalate	Carbazole	Chloroform	Chloroanaline[2-]	Chrysene	Di-n-butylphthalate
Construction Worker SSL[b]						**2310**	**1,080,000[d]**	**26,900[d]**	**5380**	**na**	**91,700**	**53,800[d]**	**251[d,j]**	**134**	**28,300[k]**	**23,100**	**26,900**
Industrial SSL[b]						**323**	**3,300,000[e]**	**82,000[e]**	**1830**	**120,000[e]**	**411,000**	**12,000[e]**	**1200[e,j]**	**28.7**	**104,000[k]**	**3230**	**91,600**
Recreational SSL[f]						**888**	**1,310,000**	**32,800**	**1770**	**na**	**353,000**	**13,100**	**2340[j]**	**204**	**49,500[k]**	**8880**	**32,800**
Residential SSL[b]						**15.3**	**250,000[e]**	**6300[e]**	**380**	**7800[e]**	**37,400**	**2900[e]**	**78[e,j]**	**5.9**	**6260[k]**	**153**	**6160**
RE00-23-291186	00-61813	NE80	North	0–1	SOIL	—	—	—	—	—	—	—	—	0.55 (J)	—	0.017	—
RE00-23-289520	00-61813	NE80	North	2–3	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RE00-23-291187	00-61813	NE80	North	2–3	SOIL	—	—	—	—	—	—	—	—	0.443 (J)	—	0.00476	—
RE00-23-289510	00-61815	NE74	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	0.00176 (J)	—
RE00-23-289513	00-61816	NE79	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	0.0047 (J)	—
RE00-23-289514	00-61816	NE79	North	2–3	SOIL	—	—	—	—	—	—	—	—	—	—	0.00436 (J)	—
RE00-23-291188	00-61817	NE81	North	0–1	SOIL	0.00422	—	—	0.0105 (J)	—	—	—	—	—	—	0.0186 (J)	—
RE00-23-291189	00-61817	NE81	North	2–3	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-23-290099	00-61818	NE82	North	0–1	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RE00-23-291190	00-61818	NE82	North	0–1	SOIL	0.00375	—	—	0.0109 (J)	—	—	—	—	0.46 (J)	—	0.00819	—
RE00-23-290100	00-61818	NE82	North	2–3	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RE00-23-290101	00-61818	NE82	North	4–5	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RE00-23-291192	00-61818	NE82	North	4–5	QBT3	—	—	—	0.0169 (J)	—	—	—	—	—	—	—	—

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Di-n-octylphthalate	Dibenz(a,h)anthracene	Dibenzofuran	Diethyl Ether	Diethylphthalate	Dimethyl Phthalate	Dioxane[1,4-]	Fluoranthene	Fluorene	Heptachlorodibenzodioxin[1,2,3,4,6,7,8-]	Heptachlorodibenzodioxins (Total)	Heptachlorodibenzofuran[1,2,3,4,6,7,8-]
Construction Worker SSL[b]						**2690[d]**	**24**	**354[d]**	**70,800[l]**	**215,000**	**269,000**	**1880**	**10,000**	**10,000**	**na**	**na**	**na**
Industrial SSL[b]						**8200[e]**	**3.23**	**1200[e]**	**260,000[l]**	**733,000**	**916,000**	**257**	**33,700**	**33,700**	**na**	**na**	**na**
Recreational SSL[f]						**3280**	**8.88**	**489**	**124,000[l]**	**263,000**	**328,000**	**9850**	**11,500**	**11,500**	**na**	**na**	**na**
Residential SSL[c]						**630[e]**	**0.153**	**78[e]**	**15,600[l]**	**49,300**	**61,600**	**53.3**	**2320**	**2320**	**na**	**na**	**na**
RE00-22-238042	00-171	4	North	7.5–8.5	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-238043	00-171	4	North	10.5–11.5	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-238046	00-173	9	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	0.0129 (J)	—	NA	NA	NA
RE00-22-238047	00-173	9	North	9.5–10.5	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-238051	00-175	23	North	6.9–7.9	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-238052	00-175	23	North	9.9–10.9	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-238056	00-177	11	North	9–10	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-238057	00-177	11	North	12–13	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-238061	00-179	8	North	8.5–9.5	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-238062	00-179	8	North	11.5–12.5	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-238066	00-181	13	North	8–9	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-238067	00-181	13	North	11–12	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-238071	00-183	10	North	11–12	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-238072	00-183	10	North	14–15	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-238075	00-184	1	North	6–7	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-238076	00-185	24	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-238077	00-185	24	North	9.5–10.5	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-238078	00-186	97	South	0–1	SOIL	—	—	—	—	—	—	—	1.11 (J)	—	NA	NA	NA
RE00-22-238080	00-186	97	South	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-238081	00-187	21	North	8–9	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-238082	00-187	21	North	11–12	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-238093	00-190	90	South	13–14	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-238096	00-193	98	North	9.5–10.5	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Di-n-octylphthalate	Dibenz(a,h)anthracene	Dibenzofuran	Diethyl Ether	Diethylphthalate	Dimethyl Phthalate	Dioxane[1,4-]	Fluoranthene	Fluorene	Heptachlorodibenzodioxin[1,2,3,4,6,7,8-]	Heptachlorodibenzodioxins (Total)	Heptachlorodibenzofuran[1,2,3,4,6,7,8-]
Construction Worker SSL[b]						**2690[d]**	**24**	**354[d]**	**70,800[l]**	**215,000**	**269,000**	**1880**	**10,000**	**10,000**	**na**	**na**	**na**
Industrial SSL[b]						**8200[e]**	**3.23**	**1200[e]**	**260,000[l]**	**733,000**	**916,000**	**257**	**33,700**	**33,700**	**na**	**na**	**na**
Recreational SSL[f]						**3280**	**8.88**	**489**	**124,000[l]**	**263,000**	**328,000**	**9850**	**11,500**	**11,500**	**na**	**na**	**na**
Residential SSL[c]						**630[e]**	**0.153**	**78[e]**	**15,600[l]**	**49,300**	**61,600**	**53.3**	**2320**	**2320**	**na**	**na**	**na**
RE00-22-238097	00-193	98	North	12.5–13.5	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-238100	00-195	25	North	8.5–9.5	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-238101	00-195	25	North	11.5–12.5	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-238103	00-196	3	North	3.3–4.5	FILL	—	—	—	—	—	—	—	—	—	8.25E-06	1.49E-05	2.89E-06 (J)
RE00-22-238104	00-196	3	North	7.5–8.5	QBT3	—	—	—	—	—	—	—	—	—	1.36E-05	2.56E-05	2.88E-06 (J)
RE00-22-238105	00-197	27	North	8.5–9.5	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-238106	00-197	27	North	11.5–12.5	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-238107	00-198	99	South	0–1	SOIL	—	—	—	—	—	—	—	—	—	6.51E-06	1.23E-05	2.47E-06 (J)
RE00-22-238108	00-198	99	South	3–4	SOIL	—	—	—	—	—	—	—	—	—	9.10E-05	0.000174	3.55E-05
RE00-22-238109	00-198	99	South	6–7.1	QBT3	—	—	—	—	—	—	—	—	—	3.33E-06 (J)	6.52E-06 (J)	1.4E-06 (J)
RE00-22-238110	00-199	28	North	12.5–13.5	QBT3	—	—	—	—	—	—	—	0.00369	—	NA	NA	NA
RE00-22-238111	00-199	28	North	15.5–16.5	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-238112	00-200	66	South	0–1	FILL	—	—	—	—	—	—	—	—	—	3.75E-06 (J)	8.08E-06 (J)	2.27E-06 (J)
RE00-22-238113	00-200	66	South	4–5	FILL	—	—	—	—	—	—	—	0.018 (J)	—	4.03E-06	3.44E-06 (J)	1.16E-06 (J)
RE00-22-238114	00-200	66	South	6.1–7.1	QBT3	—	—	—	—	—	—	—	—	—	3.35E-06 (J)	3.06E-06 (J)	1.42E-06 (J)
RE00-22-238115	00-201	89	South	7.5–8.5	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-238116	00-201	89	South	10.5–11.5	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-238117	00-202	92	South	0–1	FILL	—	—	—	—	—	—	—	0.0561 (J)	—	7.92E-06	1.66E-05	4.61E-06
RE00-22-238118	00-202	92	South	3–4	FILL	—	—	—	—	—	—	—	0.0223 (J)	—	4.37E-06	8.89E-06	7.54E-06
RE00-22-238119	00-202	92	South	7.7–8.7	QBT3	—	—	—	—	—	—	—	—	—	1.12E-06 (J)	2.39E-06 (J)	8.8E-07 (J)
RE00-22-238122	00-204	57A	South	0–1	SOIL	—	—	—	—	—	—	—	—	—	6.96E-06	1.47E-05	5.19E-06
RE00-22-238123	00-204	57A	South	3–4	SOIL	—	—	—	—	—	—	—	—	—	1.95E-05	4.13E-05	8.89E-06
RE00-22-238124	00-204	57A	South	7.9–8.9	QBT3	—	—	—	—	—	—	—	—	—	2.4E-06 (J)	5.25E-06 (J)	1.13E-06 (J)
RE00-22-238125	00-205	72	South	13–14	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-238126	00-205	72	South	16–17	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Di-n-octylphthalate	Dibenz(a,h)anthracene	Dibenzofuran	Diethyl Ether	Diethylphthalate	Dimethyl Phthalate	Dioxane[1,4-]	Fluoranthene	Fluorene	Heptachlorodibenzodioxin[1,2,3,4,6,7,8-]	Heptachlorodibenzodioxins (Total)	Heptachlorodibenzofuran[1,2,3,4,6,7,8-]
Construction Worker SSL[b]						**2690[d]**	**24**	**354[d]**	**70,800[l]**	**215,000**	**269,000**	**1880**	**10,000**	**10,000**	**na**	**na**	**na**
Industrial SSL[b]						**8200[e]**	**3.23**	**1200[e]**	**260,000[l]**	**733,000**	**916,000**	**257**	**33,700**	**33,700**	**na**	**na**	**na**
Recreational SSL[f]						**3280**	**8.88**	**489**	**124,000[l]**	**263,000**	**328,000**	**9850**	**11,500**	**11,500**	**na**	**na**	**na**
Residential SSL[c]						**630[e]**	**0.153**	**78[e]**	**15,600[l]**	**49,300**	**61,600**	**53.3**	**2320**	**2320**	**na**	**na**	**na**
RE00-22-238129	00-206	18	North	7.8–8.8	QBT3	—	—	—	—	—	—	—	—	—	6.27E-06	1.66E-05	1.58E-06 (J)
RE00-22-238130	00-207	71	South	10–11	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-238131	00-207	71	South	13–14	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-238132	00-208	70	South	0–1	FILL	—	—	—	—	—	—	—	0.0621 (J)	—	1.21E-05	3.42E-05	6.23E-06
RE00-22-238133	00-208	70	South	4–5	SOIL	—	—	—	—	—	—	—	0.00408	—	1.34E-06 (J)	1.24E-06 (J)	7.21E-07 (J)
RE00-22-238134	00-208	70	South	9–10	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238135	00-209	76	South	13–14	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-238136	00-209	76	South	16–17	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-238139	00-210	29	North	0–1.4	FILL	—	—	—	—	—	—	—	—	—	5.73E-06	1.13E-05	2.22E-06 (J)
RE00-22-238138	00-210	29	North	4–5	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238137	00-210	29	North	7–8	QBT3	—	—	—	—	—	—	—	—	—	1.1E-06 (J)	2.14E-06 (J)	5.92E-07 (J)
RE00-22-238140	00-211	82	South	14.5–15.5	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-238141	00-211	82	South	17.5–18.5	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-238142	00-212	20	North	0–1	FILL	—	—	—	—	—	—	—	—	—	8.85E-06	2.03E-05	2.48E-06 (J)
RE00-22-238143	00-212	20	North	4–5	SOIL	—	—	—	—	—	—	—	—	—	4.78E-07 (J)	—	—
RE00-22-238144	00-212	20	North	6.2–7.2	QBT3	—	—	—	—	—	—	—	—	—	5.83E-07 (J)	6.16E-07 (J)	—
RE00-22-238145	00-213	79	South	12–13	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-238146	00-213	79	South	15–16	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-238147	00-214	26	North	0–1	FILL	—	—	—	—	—	—	—	0.00396	—	2.52E-06 (J)	6.89E-06 (J)	1E-06 (J)
RE00-22-238148	00-214	26	North	4–5	SOIL	—	—	—	—	—	—	—	0.0048	—	1.26E-06 (J)	2.45E-06 (J)	6.28E-07 (J)
RE00-22-238149	00-214	26	North	6.8–7.8	QBT3	—	—	—	36.9 (J)	—	—	—	—	—	—	5.22E-07 (J)	—
RE00-22-238150	00-215	12	North	7.5–8.5	QBT3	—	—	—	—	—	—	—	0.00349	—	NA	NA	NA
RE00-22-238151	00-215	12	North	10.5–11.5	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-238153	00-216	83	South	15–16	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-238154	00-217	80	South	12–13	QBT3	—	0.00853	—	—	—	—	—	0.00391	—	NA	NA	NA

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Di-n-octylphthalate	Dibenz(a,h)anthracene	Dibenzofuran	Diethyl Ether	Diethylphthalate	Dimethyl Phthalate	Dioxane[1,4-]	Fluoranthene	Fluorene	Heptachlorodibenzodioxin[1,2,3,4,6,7,8-]	Heptachlorodibenzodioxins (Total)	Heptachlorodibenzofuran[1,2,3,4,6,7,8-]
Construction Worker SSL[b]						**2690[d]**	**24**	**354[d]**	**70,800[l]**	**215,000**	**269,000**	**1880**	**10,000**	**10,000**	**na**	**na**	**na**
Industrial SSL[b]						**8200[e]**	**3.23**	**1200[e]**	**260,000[l]**	**733,000**	**916,000**	**257**	**33,700**	**33,700**	**na**	**na**	**na**
Recreational SSL[f]						**3280**	**8.88**	**489**	**124,000[l]**	**263,000**	**328,000**	**9850**	**11,500**	**11,500**	**na**	**na**	**na**
Residential SSL[c]						**630[e]**	**0.153**	**78[e]**	**15,600[l]**	**49,300**	**61,600**	**53.3**	**2320**	**2320**	**na**	**na**	**na**
RE00-22-238156	00-218	22	North	0–1	FILL	—	—	—	—	—	—	—	—	—	4.13E-06	8.99E-06	3.77E-06 (J)
RE00-22-238157	00-218	22	North	4–5	FILL	—	0.0569 (J)	—	—	—	—	—	0.597	0.164	3.69E-05	7.55E-05	1.02E-05
RE00-22-238158	00-218	22	North	11.9–12.9	QBT3	—	—	—	—	—	—	—	0.0773	—	1.43E-05	2.86E-05	1.14E-05
RE00-22-238159	00-219	87	South	8.5–9.5	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-238161	00-220	85	South	0–1	FILL	—	—	—	—	—	—	—	0.0506 (J)	—	6.09E-06	1.18E-05	5.15E-06
RE00-22-238162	00-220	85	South	3–4	FILL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238163	00-220	85	South	4.9–5.9	QBT3	—	—	—	—	—	—	—	—	—	8.43E-07 (J)	8.43E-07 (J)	—
RE00-22-238164	00-221	84	South	11–12	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-238165	00-221	84	South	14–15	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-238166	00-222	7	North	0–1	FILL	—	—	—	—	—	—	—	—	—	1.29E-05	2.66E-05	3.81E-06 (J)
RE00-22-238167	00-222	7	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	1.31E-06 (J)	2.65E-06 (J)	—
RE00-22-238168	00-222	7	North	5–6	QBT3	—	—	—	—	—	—	—	—	—	2.04E-06 (J)	3.91E-06 (J)	—
RE00-22-238169	00-223	81	South	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-238170	00-223	81	South	9.5–10.5	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-238174	00-225	77	South	8.5–9.5	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-238175	00-225	77	South	11.5–12.5	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-238176	00-226	95	South	0–1	FILL	—	—	—	—	—	—	—	0.132	—	NA	NA	NA
RE00-22-238177	00-226	95	South	3–4	SOIL	—	—	—	—	—	—	—	0.0568 (J)	—	NA	NA	NA
RE00-22-238178	00-226	95	South	6–7	QBT3	0.158 (J)	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-238179	00-227	78	South	7.5–8.5	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-238181	00-228	59	South	0–1	FILL	—	—	—	—	—	—	—	—	—	1.26E-06 (J)	2.63E-06 (J)	9.5E-07 (J)
RE00-22-238281	00-228	59	South	4–5	SOIL	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-238184	00-229	73	South	7.5–8.5	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-238185	00-229	73	South	10.5–11.5	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-238189	00-231	69	South	7.5–8.5	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Di-n-octylphthalate	Dibenz(a,h)anthracene	Dibenzofuran	Diethyl Ether	Diethylphthalate	Dimethyl Phthalate	Dioxane[1,4-]	Fluoranthene	Fluorene	Heptachlorodibenzodioxin[1,2,3,4,6,7,8-]	Heptachlorodibenzodioxins (Total)	Heptachlorodibenzofuran[1,2,3,4,6,7,8-]
Construction Worker SSL[b]						**2690[d]**	**24**	**354[d]**	**70,800[l]**	**215,000**	**269,000**	**1880**	**10,000**	**10,000**	**na**	**na**	**na**
Industrial SSL[b]						**8200[e]**	**3.23**	**1200[e]**	**260,000[l]**	**733,000**	**916,000**	**257**	**33,700**	**33,700**	**na**	**na**	**na**
Recreational SSL[f]						**3280**	**8.88**	**489**	**124,000[l]**	**263,000**	**328,000**	**9850**	**11,500**	**11,500**	**na**	**na**	**na**
Residential SSL[c]						**630[e]**	**0.153**	**78[e]**	**15,600[l]**	**49,300**	**61,600**	**53.3**	**2320**	**2320**	**na**	**na**	**na**
RE00-22-238190	00-231	69	South	10.5–11.5	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-238192	00-232	96	South	0–1	FILL	—	—	—	—	—	—	—	—	—	6.71E-06	1.33E-05	2.67E-06 (J)
RE00-22-238191	00-232	96	South	4–5	FILL	—	—	—	—	—	—	—	0.0252 (J-)	—	1.27E-06 (J)	2.36E-06 (J)	1.05E-06 (J)
RE00-22-238193	00-232	96	South	6–7	QBT3	—	—	—	—	—	—	—	0.0412 (J-)	—	5.08E-06	9.35E-06 (J)	1.4E-06 (J)
RE00-22-238194	00-233	64	South	7.5–8.5	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-238195	00-233	64	South	10.5–11.5	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-238196	00-234	61	South	12.5–13.5	QBT3	—	—	—	—	—	—	—	0.00215 (J)	—	NA	NA	NA
RE00-22-238197	00-234	61	South	15.5–16.5	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-238199	00-235	57	South	12–13	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-238200	00-236	60	South	13–14	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-238201	00-236	60	South	16–17	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-238202	00-237	62	South	8.5–9.5	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-238203	00-237	62	South	11.5–12.5	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-238204	00-238	63	South	4–5	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-238205	00-238	63	South	7–8	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-238208	00-240	68	South	5–6	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-238226	00-249	5	North	8–9	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-238237	00-254	15	North	7–8	QBT3	0.0301 (J)	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-238239	00-255	93	South	4–5	FILL	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-238242	00-256	14	North	7.3–8.3	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-239164	00-257	6	North	6.1–7.1	QBT3	—	—	—	—	—	—	—	—	—	5.55E-06	1.05E-05	1.39E-06 (J)
RE00-22-238248	00-259	75	South	0–1	FILL	—	—	—	—	—	—	—	0.041 (J)	—	NA	NA	NA
RE00-22-238249	00-259	75	South	3–4	FILL	—	—	—	—	—	—	—	0.00585	—	NA	NA	NA
RE00-22-238250	00-259	75	South	6.9–7.9	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-238251	00-260	88	South	0–1	FILL	—	—	—	—	—	—	—	0.084	—	NA	NA	NA

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Di-n-octylphthalate	Dibenz(a,h)anthracene	Dibenzofuran	Diethyl Ether	Diethylphthalate	Dimethyl Phthalate	Dioxane[1,4-]	Fluoranthene	Fluorene	Heptachlorodibenzodioxin[1,2,3,4,6,7,8-]	Heptachlorodibenzodioxins (Total)	Heptachlorodibenzofuran[1,2,3,4,6,7,8-]
Construction Worker SSL[b]						**2690[d]**	**24**	**354[d]**	**70,800[l]**	**215,000**	**269,000**	**1880**	**10,000**	**10,000**	**na**	**na**	**na**
Industrial SSL[b]						**8200[e]**	**3.23**	**1200[e]**	**260,000[l]**	**733,000**	**916,000**	**257**	**33,700**	**33,700**	**na**	**na**	**na**
Recreational SSL[f]						**3280**	**8.88**	**489**	**124,000[l]**	**263,000**	**328,000**	**9850**	**11,500**	**11,500**	**na**	**na**	**na**
Residential SSL[c]						**630[e]**	**0.153**	**78[e]**	**15,600[l]**	**49,300**	**61,600**	**53.3**	**2320**	**2320**	**na**	**na**	**na**
RE00-22-238253	00-261	56A	North	0–1	SOIL	—	0.0166	—	—	—	—	—	0.718	0.0346	NA	NA	NA
RE00-22-238254	00-261	56A	North	3–4	SOIL	—	0.00785	—	—	—	—	—	0.0968	—	NA	NA	NA
RE00-22-238255	00-261	56A	North	11.6–12.6	QBT3	—	—	—	—	—	—	—	0.0131 (J)	—	NA	NA	NA
RE00-22-238273	00-61519	16	North	0–1	FILL	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-238278	00-61519	16	North	3–4	SOIL	—	—	—	—	—	—	—	0.112	—	NA	NA	NA
RE00-22-238283	00-61519	16	North	12–13	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-238279	00-61520	South	North	4–5	FILL	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-238282	00-61523	74	South	4–5	SOIL	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-238277	00-61523	74	South	8–9	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-238300	00-61526	56	North	6–7	FILL	—	—	—	—	—	—	—	0.108 (J+)	—	NA	NA	NA
RE00-22-239217	00-61546	19	North	0–1	FILL	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-239227	00-61546	19	North	4–5	SOIL	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-239237	00-61546	19	North	5.75–6.8	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-239218	00-61547	55A	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-239228	00-61547	55A	North	3–4	SOIL	—	—	—	—	—	—	—	0.0779	—	NA	NA	NA
RE00-22-239238	00-61547	55A	North	11.9–12.9	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-239221	00-61550	58A	South	0–1	SOIL	—	—	—	—	—	—	—	0.0377	—	NA	NA	NA
RE00-22-239231	00-61550	58A	South	3–4	SOIL	—	—	—	—	—	—	—	0.022 (J)	—	NA	NA	NA
RE00-22-239241	00-61550	58A	South	8–9	QBT3	—	—	—	—	—	—	—	0.00567	—	NA	NA	NA
RE00-22-239224	00-61553	54A	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-239234	00-61553	54A	North	4–5	SOIL	—	—	—	—	—	—	—	0.0707 (J)	—	NA	NA	NA
RE00-22-239244	00-61553	54A	North	6.9–7.9	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-248888	00-61568	29 5NE	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	5.29E-06	1.09E-05	3.81E-06 (J)
RE00-22-248889	00-61568	29 5NE	North	4–5	SOIL	—	—	—	—	—	—	—	—	—	9.5E-07 (J)	1.71E-06 (J)	—
RE00-22-248890	00-61568	29 5NE	North	7–8	QBT3	—	—	—	—	—	—	—	0.00207 (J)	—	1.89E-06 (J)	3.72E-06 (J)	1E-06 (J)

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Di-n-octylphthalate	Dibenz(a,h)anthracene	Dibenzofuran	Diethyl Ether	Diethylphthalate	Dimethyl Phthalate	Dioxane[1,4-]	Fluoranthene	Fluorene	Heptachlorodibenzodioxin[1,2,3,4,6,7,8-]	Heptachlorodibenzodioxins (Total)	Heptachlorodibenzofuran[1,2,3,4,6,7,8-]
Construction Worker SSL[b]						**2690[d]**	**24**	**354[d]**	**70,800[l]**	**215,000**	**269,000**	**1880**	**10,000**	**10,000**	**na**	**na**	**na**
Industrial SSL[b]						**8200[e]**	**3.23**	**1200[e]**	**260,000[l]**	**733,000**	**916,000**	**257**	**33,700**	**33,700**	**na**	**na**	**na**
Recreational SSL[f]						**3280**	**8.88**	**489**	**124,000[l]**	**263,000**	**328,000**	**9850**	**11,500**	**11,500**	**na**	**na**	**na**
Residential SSL[c]						**630[e]**	**0.153**	**78[e]**	**15,600[l]**	**49,300**	**61,600**	**53.3**	**2320**	**2320**	**na**	**na**	**na**
RE00-22-248891	00-61569	29 5S	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	6.02E-06	1.32E-05	2.64E-06 (J)
RE00-22-248892	00-61569	29 5S	North	4–5	SOIL	—	—	—	—	—	—	—	0.00216 (J)	—	6.48E-07 (J)	4.39E-07 (J)	—
RE00-22-248893	00-61569	29 5S	North	7–8	QBT3	—	—	—	—	—	—	—	—	—	1.3E-06 (J)	2.49E-06 (J)	6.08E-07 (J)
RE00-22-249057	00-61569	29 5S	North	9–10	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-249058	00-61569	29 5S	North	11–12	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-248894	00-61570	29 5SE	North	0–1	SOIL	—	—	—	—	—	—	—	0.036	—	1.63E-05	3.17E-05	5.25E-06
RE00-22-248895	00-61570	29 5SE	North	4–5	SOIL	—	—	—	—	—	—	—	—	—	8.51E-07 (J)	1.75E-06 (J)	—
RE00-22-248896	00-61570	29 5SE	North	7–8	QBT3	—	—	—	—	—	—	—	—	—	8.71E-07 (J)	—	—
RE00-22-248897	00-61571	22 5E	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	2.99E-06 (J)	3.61E-06 (J)	2.55E-06 (J)
RE00-22-248898	00-61571	22 5E	North	4–5	SOIL	—	—	—	—	—	—	—	0.0852 (J)	—	3.20E-05	6.19E-05	7.64E-06
RE00-22-248899	00-61571	22 5E	North	11.9–12.9	QBT3	—	—	—	—	—	—	—	0.0412 (J)	—	8.29E-06	1.71E-05	2.66E-06 (J)
RE00-22-248900	00-61572	92 5E	South	0–1	SOIL	—	—	—	—	—	—	—	0.125	—	9.46E-06	1.84E-05	1.52E-05
RE00-22-248901	00-61572	92 5E	South	3–4	SOIL	—	—	—	—	—	—	—	—	—	2.96E-06 (J)	—	1.9E-06 (J)
RE00-22-248902	00-61572	92 5E	South	7.7–8.7	QBT3	—	—	—	—	—	—	—	—	—	1.16E-06 (J)	1.16E-06 (J)	1.32E-06 (J)
RE00-22-248903	00-61573	92 5N	South	0–1	SOIL	—	—	—	—	—	—	—	0.0864 (J)	—	1.47E-05	1.47E-05	6.48E-06
RE00-22-248904	00-61573	92 5N	South	3–4	SOIL	—	—	—	—	—	—	—	—	—	2.24E-06 (J)	2.24E-06 (J)	1.23E-06 (J)
RE00-22-248905	00-61573	92 5N	South	7.7–8.7	QBT3	—	—	—	—	—	—	—	—	—	1.68E-06 (J)	—	1.28E-06 (J)
RE00-22-248906	00-61574	56A 5E	North	0–1	SOIL	—	—	—	—	—	—	—	0.0568 (J)	—	NA	NA	NA
RE00-22-248907	00-61574	56A 5E	North	3–4	SOIL	—	—	—	—	—	—	—	0.0362 (J)	—	NA	NA	NA
RE00-22-248909	00-61575	56A 5N	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-248910	00-61575	56A 5N	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-248911	00-61575	56A 5N	North	11.6–12.6	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-248913	00-61576	56A 5W	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-248914	00-61576	56A 5W	North	11.6–12.6	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-248915	00-61577	56A 5S	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	NA	NA	NA

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Di-n-octylphthalate	Dibenz(a,h)anthracene	Dibenzofuran	Diethyl Ether	Diethylphthalate	Dimethyl Phthalate	Dioxane[1,4-]	Fluoranthene	Fluorene	Heptachlorodibenzodioxin[1,2,3,4,6,7,8-]	Heptachlorodibenzodioxins (Total)	Heptachlorodibenzofuran[1,2,3,4,6,7,8-]
Construction Worker SSL[b]						**2690[d]**	**24**	**354[d]**	**70,800[l]**	**215,000**	**269,000**	**1880**	**10,000**	**10,000**	**na**	**na**	**na**
Industrial SSL[b]						**8200[e]**	**3.23**	**1200[e]**	**260,000[l]**	**733,000**	**916,000**	**257**	**33,700**	**33,700**	**na**	**na**	**na**
Recreational SSL[f]						**3280**	**8.88**	**489**	**124,000[l]**	**263,000**	**328,000**	**9850**	**11,500**	**11,500**	**na**	**na**	**na**
Residential SSL[c]						**630[e]**	**0.153**	**78[e]**	**15,600[l]**	**49,300**	**61,600**	**53.3**	**2320**	**2320**	**na**	**na**	**na**
RE00-22-248916	00-61577	56A 5S	North	3–4	SOIL	—	—	—	—	—	—	—	0.0671 (J)	—	NA	NA	NA
RE00-22-248930	00-61581	2 5S	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-248979	00-61582	2 5SE	North	8.5–9.5	QBT3	—	—	—	—	—	—	—	0.00239 (J)	—	NA	NA	NA
RE00-22-248982	00-61582	2 5SE	North	10.5–11.5	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-248934	00-61583	58 5E	South	0–1	SOIL	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-248935	00-61583	58 5E	South	4–5	SOIL	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-255298	00-61584	58 5SW	South	13–14	SOIL	—	—	—	—	—	—	—	0.00416	—	NA	NA	NA
RE00-22-248943	00-61586	94 5S	South	0–1	SOIL	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-248944	00-61586	94 5S	South	4–5	SOIL	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-248947	00-61587	94 5E	South	4–5	SOIL	—	—	—	—	—	—	—	0.0246 (J)	—	NA	NA	NA
RE00-22-248948	00-61587	94 5E	South	9.1–9.9	QBT3	—	—	—	—	—	—	—	0.0323 (J)	—	NA	NA	NA
RE00-22-249009	00-61587	94 5E	South	10.9–11.9	QBT3	0.0528 (J)	—	—	—	—	—	—	0.0145 (J)	—	NA	NA	NA
RE00-22-249010	00-61587	94 5E	South	12.9–13.9	QBT3	0.0181 (J)	—	—	—	—	—	—	0.0023 (J)	—	NA	NA	NA
RE00-22-248949	00-61588	94 5W	South	0–1	SOIL	—	—	—	—	—	—	—	0.0765	—	NA	NA	NA
RE00-22-248950	00-61588	94 5W	South	4–5	SOIL	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-248952	00-61589	29 5W	North	0–1	SOIL	—	—	—	—	—	—	—	0.0447	—	2.39E-06 (J)	5.11E-06 (J)	1.3E-06 (J)
RE00-22-248953	00-61589	29 5W	North	4–5	SOIL	—	—	—	—	—	—	—	—	—	6.39E-06	1.25E-05	4.46E-06
RE00-22-248954	00-61589	29 5W	North	7–8	QBT3	—	—	—	—	—	—	—	0.00175 (J)	—	1.04E-06 (J)	—	5.97E-07 (J)
RE00-22-248955	00-61589	29 5W	North	11.5–12.5	QBT3	—	—	—	—	—	—	—	—	—	1.47E-06 (J)	1.27E-06 (J)	6.42E-07 (J)
RE00-22-248956	00-61590	95 5W	South	0–1	SOIL	—	—	—	—	—	—	—	0.0696 (J)	—	NA	NA	NA
RE00-22-248957	00-61590	95 5W	South	3–4	SOIL	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-248958	00-61590	95 5W	South	6–7	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-248960	00-61591	1 5S	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-248961	00-61591	1 5S	North	6–7	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-248962	00-61592	1 5SW	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	NA	NA	NA

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Di-n-octylphthalate	Dibenz(a,h)anthracene	Dibenzofuran	Diethyl Ether	Diethylphthalate	Dimethyl Phthalate	Dioxane[1,4-]	Fluoranthene	Fluorene	Heptachlorodibenzodioxin[1,2,3,4,6,7,8-]	Heptachlorodibenzodioxins (Total)	Heptachlorodibenzofuran[1,2,3,4,6,7,8-]
Construction Worker SSL[b]						**2690[d]**	**24**	**354[d]**	**70,800[l]**	**215,000**	**269,000**	**1880**	**10,000**	**10,000**	**na**	**na**	**na**
Industrial SSL[b]						**8200[e]**	**3.23**	**1200[e]**	**260,000[l]**	**733,000**	**916,000**	**257**	**33,700**	**33,700**	**na**	**na**	**na**
Recreational SSL[f]						**3280**	**8.88**	**489**	**124,000[l]**	**263,000**	**328,000**	**9850**	**11,500**	**11,500**	**na**	**na**	**na**
Residential SSL[c]						**630[e]**	**0.153**	**78[e]**	**15,600[l]**	**49,300**	**61,600**	**53.3**	**2320**	**2320**	**na**	**na**	**na**
RE00-22-248963	00-61592	1 5SW	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-248964	00-61592	1 5SW	North	6–7	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-248965	00-61593	1 5NE	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-248966	00-61593	1 5NE	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-248967	00-61593	1 5NE	North	6–7	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-248968	00-61594	1 5NW	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-248969	00-61594	1 5NW	North	3–4	SOIL	—	—	—	—	—	—	0.019 (J)	—	—	NA	NA	NA
RE00-22-248970	00-61594	1 5NW	North	6–7	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-248985	00-61599	2 10N	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-248986	00-61600	22 5NE	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	3.43E-06 (J)	7.47E-06 (J)	2.77E-06 (J)
RE00-22-248987	00-61600	22 5NE	North	4–5	SOIL	—	—	—	—	—	—	—	0.114	—	3.79E-05	7.96E-05	1.09E-05
RE00-22-248988	00-61600	22 5NE	North	11.9–12.9	QBT3	—	—	—	—	—	—	—	—	—	4.96E-06	4.96E-06	1.52E-06 (J)
RE00-22-248989	00-61601	56A 10W	North	0–1	SOIL	—	—	—	—	—	—	—	0.0175	—	NA	NA	NA
RE00-22-248990	00-61601	56A 10W	North	3–4	SOIL	—	—	—	—	—	—	—	0.00334 (J)	—	NA	NA	NA
RE00-22-248991	00-61601	56A 10W	North	11.6–12.6	QBT3	—	—	—	—	—	—	—	0.00856 (J)	—	NA	NA	NA
RE00-22-248992	00-61602	94 10SE	South	0–1	SOIL	—	—	—	—	—	—	—	0.101 (J)	—	NA	NA	NA
RE00-22-248994	00-61602	94 10SE	South	9.1–9.9	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-249014	00-61609	94 10S	South	4–5	SOIL	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-249015	00-61609	94 10S	South	9.1–9.9	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-249019	00-61611	92 5NW	South	0–1	SOIL	—	—	—	—	—	—	—	0.258 (J)	—	6.05E-06	—	3.19E-06 (J)
RE00-22-249020	00-61611	92 5NW	South	3–4	SOIL	—	—	—	—	—	—	—	0.0347 (J)	—	6.41E-06	6.41E-06	2.66E-06 (J)
RE00-22-249021	00-61611	92 5NW	South	7.7–8.7	QBT3	—	—	—	—	—	—	—	—	—	1.4E-06 (J)	1.4E-06 (J)	9.93E-07 (J)
RE00-22-249022	00-61612	22 10E	North	0–1	SOIL	—	—	—	—	—	—	0.42 (J)	—	—	NA	NA	NA
RE00-22-249023	00-61612	22 10E	North	4–5	SOIL	—	—	—	—	—	—	0.33 (J)	—	—	NA	NA	NA
RE00-22-249024	00-61612	22 10E	North	11.9–12.9	QBT3	—	—	—	—	—	—	0.291 (J)	0.0139 (J)	—	NA	NA	NA

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Di-n-octylphthalate	Dibenz(a,h)anthracene	Dibenzofuran	Diethyl Ether	Diethylphthalate	Dimethyl Phthalate	Dioxane[1,4-]	Fluoranthene	Fluorene	Heptachlorodibenzodioxin[1,2,3,4,6,7,8-]	Heptachlorodibenzodioxins (Total)	Heptachlorodibenzofuran[1,2,3,4,6,7,8-]
Construction Worker SSL[b]						**2690[d]**	**24**	**354[d]**	**70,800[l]**	**215,000**	**269,000**	**1880**	**10,000**	**10,000**	**na**	**na**	**na**
Industrial SSL[b]						**8200[e]**	**3.23**	**1200[e]**	**260,000[l]**	**733,000**	**916,000**	**257**	**33,700**	**33,700**	**na**	**na**	**na**
Recreational SSL[f]						**3280**	**8.88**	**489**	**124,000[l]**	**263,000**	**328,000**	**9850**	**11,500**	**11,500**	**na**	**na**	**na**
Residential SSL[c]						**630[e]**	**0.153**	**78[e]**	**15,600[l]**	**49,300**	**61,600**	**53.3**	**2320**	**2320**	**na**	**na**	**na**
RE00-22-249031	00-61616	27 5E	North	11.5–12.5	QBT3	—	—	—	—	—	—	—	0.0041	—	NA	NA	NA
RE00-22-249036	00-61618	2V	North	10–11	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-249037	00-61619	58 5N	South	4–5	SOIL	—	—	—	—	—	—	—	0.0864 (J)	—	NA	NA	NA
RE00-22-249038	00-61619	58 5N	South	7–8	QBT3	—	—	—	—	—	—	—	0.102 (J)	—	NA	NA	NA
RE00-22-249064	00-61619	58 5N	South	13.9–14.9	QBT3	—	—	—	—	—	—	—	0.0456 (J)	—	6.69E-06	1.32E-05	2.7E-06 (J)
RE00-22-249065	00-61619	58 5N	South	15.9–16.9	QBT3	—	—	—	—	—	—	—	0.014 (J)	—	1.66E-06 (J)	3.3E-06 (J)	7.05E-07 (J)
RE00-22-249039	00-61620	00-196	North	9.5–10.5	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-249041	00-61621	00-61521	North	9–10	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-249042	00-61621	00-61521	North	11–12	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-249045	00-61622	22 5SE	North	11.9–12.9	QBT3	—	—	—	—	—	—	—	—	—	1.46E-06 (J)	1.46E-06 (J)	7.99E-07 (J)
RE00-22-249046	00-61623	17 5S	North	9–10	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-249047	00-61623	17 5S	North	11–12	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-249049	00-61624	00-212	North	10–11	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-249050	00-61625	00-61553	North	9–10	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-249051	00-61625	00-61553	North	11–12	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-249025	00-61625	00-61553	North	13–14	QBT3	—	—	—	—	—	—	—	—	—	2.02E-06 (J)	2.02E-06 (J)	3.33E-06 (J)
RE00-22-249026	00-61625	00-61553	North	15–16	QBT3	—	—	—	—	—	—	—	—	—	8.51E-07 (J)	1.69E-06 (J)	—
RE00-22-249053	00-61626	27 5W	North	8.5–9.5	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-249052	00-61626	27 5W	North	11.5–12.5	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-249055	00-61627	27 5N	North	11.5–12.5	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-249056	00-61628	92 5S	South	7.7–8.7	QBT3	—	—	—	—	—	—	—	—	—	1.11E-06 (J)	1.11E-06 (J)	7.1E-07 (J)
RE00-22-249059	00-61630	00-210	North	9–10	QBT3	—	—	—	—	—	—	—	—	—	6.34E-07 (J)	1.33E-06 (J)	—
RE00-22-249060	00-61630	00-210	North	11–12	QBT3	—	—	—	—	—	—	—	—	—	1.98E-06 (J)	3.76E-06 (J)	9.94E-07 (J)
RE00-22-250910	00-61651	2 10NW	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-250911	00-61651	2 10NW	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	NA	NA	NA

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Di-n-octylphthalate	Dibenz(a,h)anthracene	Dibenzofuran	Diethyl Ether	Diethylphthalate	Dimethyl Phthalate	Dioxane[1,4-]	Fluoranthene	Fluorene	Heptachlorodibenzodioxin[1,2,3,4,6,7,8-]	Heptachlorodibenzodioxins (Total)	Heptachlorodibenzofuran[1,2,3,4,6,7,8-]
Construction Worker SSL[b]						**2690[d]**	**24**	**354[d]**	**70,800[l]**	**215,000**	**269,000**	**1880**	**10,000**	**10,000**	**na**	**na**	**na**
Industrial SSL[b]						**8200[e]**	**3.23**	**1200[e]**	**260,000[l]**	**733,000**	**916,000**	**257**	**33,700**	**33,700**	**na**	**na**	**na**
Recreational SSL[f]						**3280**	**8.88**	**489**	**124,000[l]**	**263,000**	**328,000**	**9850**	**11,500**	**11,500**	**na**	**na**	**na**
Residential SSL[c]						**630[e]**	**0.153**	**78[e]**	**15,600[l]**	**49,300**	**61,600**	**53.3**	**2320**	**2320**	**na**	**na**	**na**
RE00-22-250912	00-61651	2 10NW	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-250916	00-61653	2 10SE	North	0–1	SOIL	—	—	—	—	—	—	—	0.0318 (J)	—	NA	NA	NA
RE00-22-250917	00-61653	2 10SE	North	3–4	SOIL	—	0.087	—	—	—	—	—	1.84	0.0892	NA	NA	NA
RE00-22-250918	00-61653	2 10SE	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-250919	00-61654	1 10SW	North	0–1	SOIL	—	—	—	—	—	—	—	0.0151 (J)	—	NA	NA	NA
RE00-22-250920	00-61654	1 10SW	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-250921	00-61654	1 10SW	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	0.0124 (J)	—	NA	NA	NA
RE00-22-250922	00-61655	22 10SE	North	0–1	SOIL	—	—	—	—	—	—	—	0.00795	—	NA	NA	NA
RE00-22-250923	00-61655	22 10SE	North	4–5	SOIL	—	—	—	—	—	—	—	0.00358	—	NA	NA	NA
RE00-22-250924	00-61655	22 10SE	North	11.9–12.9	QBT3	—	—	—	—	—	—	—	0.00238 (J)	—	NA	NA	NA
RE00-22-250928	00-61657	22 10S	North	0–1	SOIL	—	—	—	—	—	—	—	0.00477	—	3.46E-06 (J)	7.55E-06 (J)	2.69E-06 (J)
RE00-22-250929	00-61657	22 10S	North	4–5	SOIL	—	—	—	—	—	—	—	—	—	7.19E-05 (J)	0.000116 (J)	8.16E-06
RE00-22-250930	00-61657	22 10S	North	11.9–12.9	QBT3	—	—	—	—	—	—	—	0.00278 (J)	—	3.62E-06 (J)	6.88E-06 (J)	5.18E-07 (J)
RE00-22-250931	00-61658	56A 10S	South	0–1	SOIL	—	—	—	—	—	—	—	0.0208	—	NA	NA	NA
RE00-22-250932	00-61658	56A 10S	South	3–4	SOIL	—	—	—	—	—	—	—	0.0149	—	NA	NA	NA
RE00-22-250933	00-61658	56A 10S	South	11.6–12.6	QBT3	—	—	—	—	—	—	—	0.0152 (J)	—	NA	NA	NA
RE00-22-250934	00-61659	56A 10SE	North	0–1	SOIL	—	—	—	—	—	—	—	0.0144 (J)	0.00328	NA	NA	NA
RE00-22-250935	00-61659	56A 10SE	North	3–4	SOIL	—	0.00364	—	—	—	—	—	0.0299	—	NA	NA	NA
RE00-22-250936	00-61659	56A 10SE	North	11.6–12.6	QBT3	—	—	—	—	—	—	—	0.00169 (J)	—	NA	NA	NA
RE00-22-250937	00-61660	56A 10SW	North	0–1	SOIL	—	—	—	—	—	—	—	0.0241 (J)	—	NA	NA	NA
RE00-22-250938	00-61660	56A 10SW	North	3–4	SOIL	—	—	—	—	—	—	—	0.0315 (J)	—	NA	NA	NA
RE00-22-250939	00-61660	56A 10SW	North	11.6–12.6	QBT3	—	—	—	—	—	—	—	0.0028 (J)	—	NA	NA	NA
RE00-22-250940	00-61661	94 10SW	South	0–1	SOIL	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-250941	00-61661	94 10SW	South	4–5	SOIL	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-250942	00-61661	94 10SW	South	9.1–9.9	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Di-n-octylphthalate	Dibenz(a,h)anthracene	Dibenzofuran	Diethyl Ether	Diethylphthalate	Dimethyl Phthalate	Dioxane[1,4-]	Fluoranthene	Fluorene	Heptachlorodibenzodioxin[1,2,3,4,6,7,8-]	Heptachlorodibenzodioxins (Total)	Heptachlorodibenzofuran[1,2,3,4,6,7,8-]
Construction Worker SSL[b]						**2690[d]**	**24**	**354[d]**	**70,800[l]**	**215,000**	**269,000**	**1880**	**10,000**	**10,000**	**na**	**na**	**na**
Industrial SSL[b]						**8200[e]**	**3.23**	**1200[e]**	**260,000[l]**	**733,000**	**916,000**	**257**	**33,700**	**33,700**	**na**	**na**	**na**
Recreational SSL[f]						**3280**	**8.88**	**489**	**124,000[l]**	**263,000**	**328,000**	**9850**	**11,500**	**11,500**	**na**	**na**	**na**
Residential SSL[c]						**630[e]**	**0.153**	**78[e]**	**15,600[l]**	**49,300**	**61,600**	**53.3**	**2320**	**2320**	**na**	**na**	**na**
RE00-22-252842	00-61700	2 14N	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-252845	00-61701	2 15NNE	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-253161	00-61705	29 10S	North	0–1	SOIL	—	—	—	—	—	—	—	0.0032 (J)	—	NA	NA	NA
RE00-22-253162	00-61705	29 10S	North	4–5	SOIL	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-253163	00-61705	29 10S	North	7–8	SOIL	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-253164	00-61705	29 10S	North	9–10	SOIL	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-253165	00-61705	29 10S	North	11–12	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-253167	00-61706	29 10WSW	North	0–1	SOIL	—	—	—	—	—	—	—	0.00461	—	NA	NA	NA
RE00-22-253168	00-61706	29 10WSW	North	4–5	SOIL	—	—	—	—	—	—	—	0.00783	—	NA	NA	NA
RE00-22-253169	00-61706	29 10WSW	North	7–8	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-253170	00-61706	29 10WSW	North	9–10	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-253171	00-61706	29 10WSW	North	11–12	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-253172	00-61707	29 10SE	North	0–1	SOIL	—	—	—	—	—	—	—	0.00813	—	NA	NA	NA
RE00-22-253173	00-61707	29 10SE	North	4–5	SOIL	—	—	—	—	—	—	—	0.0325	—	NA	NA	NA
RE00-22-253174	00-61707	29 10SE	North	7–8	SOIL	—	0.00289 (J)	—	—	—	—	—	0.0257	—	NA	NA	NA
RE00-22-253175	00-61707	29 10SE	North	9–10	SOIL	—	—	—	—	—	—	—	0.00992	—	NA	NA	NA
RE00-22-253176	00-61707	29 10SE	North	11–12	QBT3	—	—	—	—	—	—	—	0.00638	—	NA	NA	NA
RE00-22-253177	00-61708	29 15SW	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-253178	00-61708	29 15SW	North	4–5	SOIL	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-253179	00-61708	29 15SW	North	7–8	QBT3	—	—	—	—	—	—	—	0.00168 (J)	—	NA	NA	NA
RE00-22-253180	00-61708	29 15SW	North	9–10	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-253181	00-61708	29 15SW	North	11–12	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-253182	00-61709	56A 5WV	North	13.6–14.6	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-253184	00-61711	56A 10NW	North	0–1	SOIL	—	0.00176 (J)	—	—	—	—	—	0.00668	—	NA	NA	NA
RE00-22-253185	00-61711	56A 10NW	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	NA	NA	NA

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Di-n-octylphthalate	Dibenz(a,h)anthracene	Dibenzofuran	Diethyl Ether	Diethylphthalate	Dimethyl Phthalate	Dioxane[1,4-]	Fluoranthene	Fluorene	Heptachlorodibenzodioxin[1,2,3,4,6,7,8-]	Heptachlorodibenzodioxins (Total)	Heptachlorodibenzofuran[1,2,3,4,6,7,8-]
Construction Worker SSL[b]						**2690[d]**	**24**	**354[d]**	**70,800[l]**	**215,000**	**269,000**	**1880**	**10,000**	**10,000**	**na**	**na**	**na**
Industrial SSL[b]						**8200[e]**	**3.23**	**1200[e]**	**260,000[l]**	**733,000**	**916,000**	**257**	**33,700**	**33,700**	**na**	**na**	**na**
Recreational SSL[f]						**3280**	**8.88**	**489**	**124,000[l]**	**263,000**	**328,000**	**9850**	**11,500**	**11,500**	**na**	**na**	**na**
Residential SSL[c]						**630[e]**	**0.153**	**78[e]**	**15,600[l]**	**49,300**	**61,600**	**53.3**	**2320**	**2320**	**na**	**na**	**na**
RE00-22-253186	00-61711	56A 10NW	North	11.6–12.6	QBT3	—	—	—	—	—	—	—	0.00182 (J)	—	NA	NA	NA
RE00-22-253190	00-61712	94 15SW	South	0–1	SOIL	—	—	—	—	—	—	—	—	—	4.72E-06	1.02E-05	2.82E-06 (J)
RE00-22-253191	00-61712	94 15SW	South	4–5	SOIL	—	0.00178 (J)	—	—	—	—	—	0.00533	—	—	—	5.64E-07 (J)
RE00-22-253192	00-61712	94 15SW	South	9.1–9.9	QBT3	—	—	—	—	—	—	—	0.00358	—	3.35E-06 (J)	6.61E-06 (J)	3.75E-06 (J)
RE00-22-253193	00-61713	94 15WSW	South	0–1	SOIL	—	—	—	—	—	—	—	—	—	7.20E-06	1.51E-05	5.14E-06
RE00-22-253194	00-61713	94 15WSW	South	4–5	SOIL	—	—	—	—	—	—	—	0.0114 (J)	0.00258 (J)	8.47E-06	1.57E-05	6.37E-06
RE00-22-253195	00-61713	94 15WSW	South	9.1–9.9	SOIL	—	—	—	0.432 (J)	—	—	—	0.00196 (J)	—	2.13E-06 (J)	3.9E-06 (J)	1.14E-06 (J)
RE00-22-253196	00-61714	94 10W	South	0–1	SOIL	—	—	—	—	—	—	—	—	—	4.53E-06	9.53E-06	2.7E-06 (J)
RE00-22-253197	00-61714	94 10W	South	4–5	SOIL	—	—	—	—	—	—	—	0.00634	—	1.79E-06 (J)	1.6E-06 (J)	1.02E-06 (J)
RE00-22-253198	00-61714	94 10W	South	9.1–9.9	QBT3	—	—	—	—	—	—	—	0.00586	—	1.35E-06 (J)	2.94E-06 (J)	1.83E-06 (J)
RE00-22-253202	00-61716	58 10S	South	0–1	SOIL	—	—	—	—	—	0.0193 (J)	—	0.0127 (J)	—	NA	NA	NA
RE00-22-253203	00-61716	58 10S	South	4–5	QBT3	—	—	—	—	—	—	—	0.00343	—	NA	NA	NA
RE00-22-253204	00-61716	58 10S	South	7–8	QBT3	—	—	—	—	—	—	—	0.00238 (J)	—	NA	NA	NA
RE00-22-253205	00-61716	58 10S	South	9–10	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-253206	00-61716	58 10S	South	11–12	QBT3	—	—	—	—	—	—	—	0.00199 (J)	—	NA	NA	NA
RE00-22-253207	00-61717	58 10SE	South	0–1	SOIL	—	—	—	—	—	—	—	0.00403 (J)	—	NA	NA	NA
RE00-22-253208	00-61717	58 10SE	South	4–5	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-253209	00-61717	58 10SE	South	7–8	QBT3	—	—	—	—	—	—	—	0.00316 (J)	—	NA	NA	NA
RE00-22-253210	00-61717	58 10SE	South	9–10	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-253211	00-61717	58 10SE	South	11–12	QBT3	—	—	—	—	—	—	—	0.00202 (J)	—	NA	NA	NA
RE00-22-255274	00-61722	2 25ENE	North	0–1	SOIL	—	—	—	—	—	—	—	0.0138 (J)	—	NA	NA	NA
RE00-22-255275	00-61722	2 25ENE	North	3–4	SOIL	—	—	—	—	—	—	—	0.00253 (J)	—	NA	NA	NA
RE00-22-255276	00-61722	2 25ENE	North	6.5–7.5	QBT3	—	0.00581 (J)	—	—	—	—	—	0.00547 (J)	—	NA	NA	NA
RE00-22-255285	00-61725	2 19N	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-255286	00-61726	2 15NW	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	NA	NA	NA

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Di-n-octylphthalate	Dibenz(a,h)anthracene	Dibenzofuran	Diethyl Ether	Diethylphthalate	Dimethyl Phthalate	Dioxane[1,4-]	Fluoranthene	Fluorene	Heptachlorodibenzodioxin[1,2,3,4,6,7,8-]	Heptachlorodibenzodioxins (Total)	Heptachlorodibenzofuran[1,2,3,4,6,7,8-]
Construction Worker SSL[b]						**2690[d]**	**24**	**354[d]**	**70,800[l]**	**215,000**	**269,000**	**1880**	**10,000**	**10,000**	**na**	**na**	**na**
Industrial SSL[b]						**8200[e]**	**3.23**	**1200[e]**	**260,000[l]**	**733,000**	**916,000**	**257**	**33,700**	**33,700**	**na**	**na**	**na**
Recreational SSL[f]						**3280**	**8.88**	**489**	**124,000[l]**	**263,000**	**328,000**	**9850**	**11,500**	**11,500**	**na**	**na**	**na**
Residential SSL[c]						**630[e]**	**0.153**	**78[e]**	**15,600[l]**	**49,300**	**61,600**	**53.3**	**2320**	**2320**	**na**	**na**	**na**
RE00-22-255287	00-61726	2 15NW	North	3–4	SOIL	—	—	—	—	—	—	—	0.0756 (J)	—	NA	NA	NA
RE00-22-255288	00-61726	2 15NW	North	6.5–7.5	SOIL	—	—	—	—	—	—	—	0.0125 (J)	—	NA	NA	NA
RE00-22-255289	00-61727	2 20NW	North	0–1	SOIL	—	—	—	—	—	—	—	0.0107 (J)	—	NA	NA	NA
RE00-22-255290	00-61727	2 20NW	North	3–4	SOIL	—	—	—	—	—	—	—	0.0284 (J)	—	NA	NA	NA
RE00-22-255291	00-61727	2 20NW	North	6.5–7.5	SOIL	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-22-255294	00-61728	2 24N	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	0.0165 (J)	—	NA	NA	NA
RE00-22-255295	00-61729	2 24NE	North	0–1	SOIL	—	—	—	—	—	—	—	0.146 (J)	—	NA	NA	NA
RE00-22-255296	00-61729	2 24NE	North	3–4	SOIL	—	—	—	—	0.0156 (J)	—	—	0.0464	—	NA	NA	NA
RE00-22-255297	00-61729	2 24NE	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	0.0249 (J)	—	NA	NA	NA
RE00-23-259861	00-61736	SE3	North	0–1	SOIL	—	—	—	—	—	—	—	0.0109 (J)	—	NA	NA	NA
RE00-23-259864	00-61737	NE2	North	0–1	SOIL	—	—	—	—	—	—	—	0.0232	—	NA	NA	NA
RE00-23-259865	00-61737	NE2	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-23-259866	00-61737	NE2	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	0.00213 (J)	—	NA	NA	NA
RE00-23-259867	00-61738	NE1	North	0–1	SOIL	—	—	—	—	—	—	—	0.054	—	NA	NA	NA
RE00-23-259868	00-61738	NE1	North	3–4	SOIL	—	—	—	—	—	—	—	0.0139 (J)	—	NA	NA	NA
RE00-23-259869	00-61738	NE1	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-23-282088	00-61739	NE6	North	17–18	QBT3	0.0336 (J)	—	—	—	—	—	—	0.00308 (J)	—	NA	NA	NA
RE00-23-282089	00-61739	NE6	North	19–20	QBT3	—	—	—	—	—	—	—	0.0152 (J)	—	NA	NA	NA
RE00-23-259873	00-61740	2 25NW	North	0–1	SOIL	—	—	—	—	—	—	—	0.0419	—	NA	NA	NA
RE00-23-259874	00-61740	2 25NW	North	3–4	SOIL	—	—	—	—	—	—	—	0.0197	—	NA	NA	NA
RE00-23-259875	00-61740	2 25NW	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	0.023	—	NA	NA	NA
RE00-23-259876	00-61741	N1	North	0–1	SOIL	—	—	—	—	—	—	—	0.0246	—	NA	NA	NA
RE00-23-259877	00-61741	N1	North	3–4	SOIL	—	—	—	—	—	—	—	0.0178	—	NA	NA	NA
RE00-23-259878	00-61741	N1	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-23-259882	00-61743	SE2	North	0–1	SOIL	—	—	—	—	—	—	—	0.0297 (J)	—	2.74E-06 (J)	5.41E-06 (J)	7.87E-07 (J)

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Di-n-octylphthalate	Dibenz(a,h)anthracene	Dibenzofuran	Diethyl Ether	Diethylphthalate	Dimethyl Phthalate	Dioxane[1,4-]	Fluoranthene	Fluorene	Heptachlorodibenzodioxin[1,2,3,4,6,7,8-]	Heptachlorodibenzodioxins (Total)	Heptachlorodibenzofuran[1,2,3,4,6,7,8-]
Construction Worker SSL[b]						**2690[d]**	**24**	**354[d]**	**70,800[l]**	**215,000**	**269,000**	**1880**	**10,000**	**10,000**	**na**	**na**	**na**
Industrial SSL[b]						**8200[e]**	**3.23**	**1200[e]**	**260,000[l]**	**733,000**	**916,000**	**257**	**33,700**	**33,700**	**na**	**na**	**na**
Recreational SSL[f]						**3280**	**8.88**	**489**	**124,000[l]**	**263,000**	**328,000**	**9850**	**11,500**	**11,500**	**na**	**na**	**na**
Residential SSL[c]						**630[e]**	**0.153**	**78[e]**	**15,600[l]**	**49,300**	**61,600**	**53.3**	**2320**	**2320**	**na**	**na**	**na**
RE00-23-259883	00-61743	SE2	North	3–4	SOIL	—	—	—	—	—	—	—	0.00222 (J)	—	3.14E-06 (J)	5.82E-06 (J)	4.65E-07 (J)
RE00-23-259884	00-61743	SE2	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-23-265182	00-61744	N2	North	0–1	SOIL	—	—	—	—	—	—	—	0.0265 (J-)	—	1.39E-05	2.83E-05	4.47E-06
RE00-23-265183	00-61744	N2	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	9.25E-07 (J)	1.03E-06 (J)	—
RE00-23-265184	00-61744	N2	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	—	4.27E-07 (J)	—
RE00-23-265179	00-61745	NE10	North	0–1	SOIL	—	—	—	—	—	—	—	0.0177	—	NA	NA	NA
RE00-23-265180	00-61745	NE10	North	3–4	SOIL	—	—	—	—	0.021 (J)	—	—	—	—	NA	NA	NA
RE00-23-264877	00-61745	NE10	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-23-264878	00-61746	N5	North	0–1	SOIL	—	—	—	—	—	—	—	0.0289 (J)	—	NA	NA	NA
RE00-23-264879	00-61746	N5	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-23-264880	00-61746	N5	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	0.00171 (J)	—	NA	NA	NA
RE00-23-264881	00-61747	N4	North	0–1	SOIL	—	—	—	—	—	—	—	0.0246 (J)	—	NA	NA	NA
RE00-23-264882	00-61747	N4	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-23-264883	00-61747	N4	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-23-264884	00-61748	NE4	North	0–1	SOIL	—	—	—	—	—	—	—	0.0316 (J)	—	NA	NA	NA
RE00-23-264885	00-61748	NE4	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-23-264886	00-61748	NE4	North	6.5–7.5	SOIL	—	—	—	—	—	—	—	0.0211 (J)	—	NA	NA	NA
RE00-23-265185	00-61749	N3	North	0–1	SOIL	—	—	—	—	—	—	—	0.0164 (J-)	—	6.51E-06	6.51E-06	3.27E-06 (J)
RE00-23-265186	00-61749	N3	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-23-265187	00-61749	N3	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-23-265188	00-61750	NE3	North	0–1	SOIL	—	—	—	—	—	—	—	0.112 (J)	0.0172	1.40E-05	2.75E-05	8.31E-06
RE00-23-265189	00-61750	NE3	North	3–4	SOIL	—	—	—	—	—	—	—	0.00331 (J)	—	8.14E-07 (J)	1.62E-06 (J)	—
RE00-23-265190	00-61750	NE3	North	6.5–7.5	QBT3	—	—	—	—	0.0218 (J)	—	—	0.00485	—	1.17E-06 (J)	2.77E-06 (J)	6.42E-07 (J)
RE00-23-264893	00-61751	2 20NEV	North	9–10	QBT3	—	—	—	—	—	—	—	0.0248 (J)	—	NA	NA	NA
RE00-23-264894	00-61751	2 20NEV	North	11–12	QBT3	—	—	—	—	—	—	—	0.0209 (J)	—	NA	NA	NA

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Di-n-octylphthalate	Dibenz(a,h)anthracene	Dibenzofuran	Diethyl Ether	Diethylphthalate	Dimethyl Phthalate	Dioxane[1,4-]	Fluoranthene	Fluorene	Heptachlorodibenzodioxin[1,2,3,4,6,7,8-]	Heptachlorodibenzodioxins (Total)	Heptachlorodibenzofuran[1,2,3,4,6,7,8-]
Construction Worker SSL[b]						**2690[d]**	**24**	**354[d]**	**70,800[l]**	**215,000**	**269,000**	**1880**	**10,000**	**10,000**	**na**	**na**	**na**
Industrial SSL[b]						**8200[e]**	**3.23**	**1200[e]**	**260,000[l]**	**733,000**	**916,000**	**257**	**33,700**	**33,700**	**na**	**na**	**na**
Recreational SSL[f]						**3280**	**8.88**	**489**	**124,000[l]**	**263,000**	**328,000**	**9850**	**11,500**	**11,500**	**na**	**na**	**na**
Residential SSL[c]						**630[e]**	**0.153**	**78[e]**	**15,600[l]**	**49,300**	**61,600**	**53.3**	**2320**	**2320**	**na**	**na**	**na**
RE00-23-264896	00-61752	N6	North	0–1	SOIL	—	—	—	—	—	—	—	0.0459	—	NA	NA	NA
RE00-23-264897	00-61752	N6	North	3–4	SOIL	—	—	—	—	—	—	—	0.0395	—	NA	NA	NA
RE00-23-264898	00-61752	N6	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-23-264899	00-61753	NE5	North	0–1	SOIL	—	—	—	—	—	—	—	0.0178 (J)	—	NA	NA	NA
RE00-23-264900	00-61753	NE5	North	3–4	SOIL	—	—	—	—	—	—	—	0.00222 (J)	—	NA	NA	NA
RE00-23-264901	00-61753	NE5	North	6.5–7.5	QBT3	—	—	—	—	0.0231 (J)	—	—	0.0135 (J)	—	NA	NA	NA
RE00-23-264902	00-61754	SE1V	North	9–10	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-23-264903	00-61754	SE1V	North	11–12	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-23-264909	00-61756	SE10	North	3–4	SOIL	—	—	—	—	—	—	—	0.0585 (J-)	—	NA	NA	NA
RE00-23-267856	00-61757	SE4	North	0–1	SOIL	—	0.00227 (J)	—	—	—	—	—	0.0208 (J)	—	NA	NA	NA
RE00-23-267857	00-61757	SE4	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-23-267858	00-61757	SE4	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	0.00205 (J)	—	NA	NA	NA
RE00-23-267859	00-61758	SE7	North	0–1	SOIL	—	—	—	—	—	—	—	0.0126 (J)	—	NA	NA	NA
RE00-23-267860	00-61758	SE7	North	3–4	SOIL	—	—	—	—	—	—	—	0.0152 (J)	—	NA	NA	NA
RE00-23-267861	00-61758	SE7	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	0.00451 (J)	—	NA	NA	NA
RE00-23-267871	00-61762	NE7	North	0–1	SOIL	—	—	—	—	—	—	—	0.0211 (J)	—	NA	NA	NA
RE00-23-267872	00-61762	NE7	North	3–4	SOIL	—	—	—	—	—	—	—	0.00369	0.00332 (J)	NA	NA	NA
RE00-23-267873	00-61762	NE7	North	6–7	QBT3	—	—	—	—	—	—	—	0.00244 (J)	—	NA	NA	NA
RE00-23-267874	00-61763	NE28	North	0–1	SOIL	—	—	—	—	—	—	—	0.00848	—	NA	NA	NA
RE00-23-267875	00-61763	NE28	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-23-267876	00-61763	NE28	North	5–6	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-23-267877	00-61764	NE23	North	0–1	SOIL	—	0.00454	—	—	—	—	—	0.0771	—	NA	NA	NA
RE00-23-267878	00-61764	NE23	North	3–4	SOIL	—	—	—	—	—	—	—	0.00287 (J)	—	NA	NA	NA
RE00-23-267879	00-61764	NE23	North	5–6	QBT3	—	—	—	—	—	—	—	0.00171 (J)	—	NA	NA	NA
RE00-23-267882	00-61765	NE24	North	5–6	QBT3	—	—	—	—	—	—	—	0.00488	—	NA	NA	NA

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Di-n-octylphthalate	Dibenz(a,h)anthracene	Dibenzofuran	Diethyl Ether	Diethylphthalate	Dimethyl Phthalate	Dioxane[1,4-]	Fluoranthene	Fluorene	Heptachlorodibenzodioxin[1,2,3,4,6,7,8-]	Heptachlorodibenzodioxins (Total)	Heptachlorodibenzofuran[1,2,3,4,6,7,8-]
Construction Worker SSL[b]						**2690[d]**	**24**	**354[d]**	**70,800[l]**	**215,000**	**269,000**	**1880**	**10,000**	**10,000**	**na**	**na**	**na**
Industrial SSL[b]						**8200[e]**	**3.23**	**1200[e]**	**260,000[l]**	**733,000**	**916,000**	**257**	**33,700**	**33,700**	**na**	**na**	**na**
Recreational SSL[f]						**3280**	**8.88**	**489**	**124,000[l]**	**263,000**	**328,000**	**9850**	**11,500**	**11,500**	**na**	**na**	**na**
Residential SSL[c]						**630[e]**	**0.153**	**78[e]**	**15,600[l]**	**49,300**	**61,600**	**53.3**	**2320**	**2320**	**na**	**na**	**na**
RE00-23-267886	00-61767	NE26	North	0–1	SOIL	—	—	—	—	—	—	—	0.0327	—	NA	NA	NA
RE00-23-267887	00-61767	NE26	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-23-267888	00-61767	NE26	North	5–6	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-23-267889	00-61768	NE29	North	0.5–1.5	SOIL	—	—	—	—	—	—	—	0.00998 (J)	—	NA	NA	NA
RE00-23-267890	00-61768	NE29	North	3.5–4.5	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-23-267891	00-61768	NE29	North	5.5–6.5	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-23-271182	00-61775	NE34	North	3.5–4.5	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-23-271183	00-61775	NE34	North	5.5–6.5	QBT3	—	—	—	—	—	—	—	—	—	5.07E-07 (J)	1.06E-06 (J)	—
RE00-23-271187	00-61776	NE25	North	5–6	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-23-271196	00-61779	SE11	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	0.0017 (J)	—	NA	NA	NA
RE00-23-271197	00-61780	NE20	North	0–1	SOIL	—	0.00754 (J)	0.125 (J)	—	—	—	—	0.0708	—	NA	NA	NA
RE00-23-271198	00-61780	NE20	North	3–4	SOIL	—	—	—	—	—	—	—	0.00355	0.00213 (J)	NA	NA	NA
RE00-23-271199	00-61780	NE20	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	0.00201 (J)	—	NA	NA	NA
RE00-23-271200	00-61781	NE21	North	0–1	SOIL	—	0.00643	—	—	—	—	—	0.0257 (J)	—	NA	NA	NA
RE00-23-271201	00-61781	NE21	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-23-271202	00-61781	NE21	North	6.5–7.5	SOIL	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-23-271203	00-61782	NE54	North	0–1	SOIL	—	0.00262 (J)	—	—	—	—	—	0.0281 (J+)	—	NA	NA	NA
RE00-23-271204	00-61782	NE54	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-23-271205	00-61782	NE54	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-23-271206	00-61783	NE53	North	0–1	SOIL	—	—	—	—	—	—	—	0.0247 (J)	—	NA	NA	NA
RE00-23-271207	00-61783	NE53	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-23-271208	00-61783	NE53	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	0.0105 (J+)	—	NA	NA	NA
RE00-23-271209	00-61784	SE14	North	0–1	SOIL	—	—	—	—	—	—	—	0.0311 (J+)	—	NA	NA	NA
RE00-23-271210	00-61784	SE14	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-23-271211	00-61784	SE14	North	5–6	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Di-n-octylphthalate	Dibenz(a,h)anthracene	Dibenzofuran	Diethyl Ether	Diethylphthalate	Dimethyl Phthalate	Dioxane[1,4-]	Fluoranthene	Fluorene	Heptachlorodibenzodioxin[1,2,3,4,6,7,8-]	Heptachlorodibenzodioxins (Total)	Heptachlorodibenzofuran[1,2,3,4,6,7,8-]
Construction Worker SSL[b]						**2690[d]**	**24**	**354[d]**	**70,800[l]**	**215,000**	**269,000**	**1880**	**10,000**	**10,000**	**na**	**na**	**na**
Industrial SSL[b]						**8200[e]**	**3.23**	**1200[e]**	**260,000[l]**	**733,000**	**916,000**	**257**	**33,700**	**33,700**	**na**	**na**	**na**
Recreational SSL[f]						**3280**	**8.88**	**489**	**124,000[l]**	**263,000**	**328,000**	**9850**	**11,500**	**11,500**	**na**	**na**	**na**
Residential SSL[c]						**630[e]**	**0.153**	**78[e]**	**15,600[l]**	**49,300**	**61,600**	**53.3**	**2320**	**2320**	**na**	**na**	**na**
RE00-23-271215	00-61786	SE12	North	0–1	SOIL	—	—	—	—	—	—	—	0.0281	—	3.20E-05	6.87E-05	8.09E-06
RE00-23-271216	00-61786	SE12	North	3–4	SOIL	—	—	—	—	—	—	—	0.0182 (J)	—	2.44E-05	4.95E-05	5.93E-06 (J)
RE00-23-271217	00-61786	SE12	North	11–12	QBT3	—	—	—	—	—	—	—	0.00475	—	1.04E-05	2.08E-05	2.32E-06 (J)
RE00-23-271218	00-61787	SE15	North	0–1	SOIL	—	0.00315 (J)	—	—	—	—	—	0.0395 (J)	0.00315 (J)	NA	NA	NA
RE00-23-271219	00-61787	SE15	North	3–4	SOIL	—	0.0388 (J)	0.193 (J)	—	—	—	—	0.754 (J)	0.262 (J)	NA	NA	NA
RE00-23-271220	00-61787	SE15	North	11.5–12.5	QBT3	—	0.00406 (J)	—	—	—	—	—	0.0619 (J)	0.0146 (J)	NA	NA	NA
RE00-23-271227	00-61790	NE45	North	0.5–1.5	SOIL	—	—	—	—	—	—	—	0.00353 (J)	—	NA	NA	NA
RE00-23-271230	00-61791	NE47	North	1–2	SOIL	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-23-271233	00-61792	NE55	North	0–1	SOIL	—	0.0117 (J)	—	—	—	—	—	0.121	—	1.13E-05	2.31E-05	6.02E-06
RE00-23-271234	00-61792	NE55	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	4.12E-07 (J)	4.12E-07 (J)	—
RE00-23-271235	00-61792	NE55	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	0.00205 (J)	—	5.62E-07 (J)	1.19E-06 (J)	—
RE00-23-271236	00-61793	NE38	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	—	4.13E-07 (J)	—
RE00-23-271239	00-61794	NE39	North	0.5–1.5	SOIL	—	—	—	—	—	—	—	0.0114 (J)	—	8.89E-06 (J+)	1.98E-05	3.64E-06 (J+)
RE00-23-271240	00-61794	NE39	North	2–3	QBT3	—	—	—	—	—	—	—	—	—	—	6.71E-07 (J)	—
RE00-23-271242	00-61795	NE48	North	3.5–4.5	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-23-271243	00-61795	NE48	North	5.5–6.5	QBT3	0.0164 (J)	0.00805	—	—	—	—	—	0.242	0.0157	NA	NA	NA
RE00-23-271248	00-61797	NE56	North	0–1	SOIL	—	—	—	—	—	—	—	0.00413 (J)	—	NA	NA	NA
RE00-23-271249	00-61797	NE56	North	2–3	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-23-282091	00-61799	NE60	North	0–1	SOIL	—	—	—	—	—	—	—	0.00226 (J)	—	NA	NA	NA
RE00-23-282092	00-61799	NE60	North	2–3	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-23-289091	00-61804	NE68	North	0–1	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.65E-06 (J+)	5.94E-06 (J)	—
RE00-23-291181	00-61804	NE68	North	0–1	SOIL	—	—	—	—	—	—	—	0.00404 (J)	—	NA	NA	NA
RE00-23-282118	00-61808	NE66	North	0–1	SOIL	—	—	—	—	—	—	—	0.0121 (J)	—	NA	NA	NA
RE00-23-291184	00-61811	NE67	North	0–1	SOIL	—	—	—	—	—	—	—	0.00439 (J)	—	NA	NA	NA
RE00-23-289519	00-61813	NE80	North	0–1	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.19E-06 (J+)	4.32E-06 (J)	—

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Di-n-octylphthalate	Dibenz(a,h)anthracene	Dibenzofuran	Diethyl Ether	Diethylphthalate	Dimethyl Phthalate	Dioxane[1,4-]	Fluoranthene	Fluorene	Heptachlorodibenzodioxin[1,2,3,4,6,7,8-]	Heptachlorodibenzodioxins (Total)	Heptachlorodibenzofuran[1,2,3,4,6,7,8-]
Construction Worker SSL[b]						**2690[d]**	**24**	**354[d]**	**70,800[l]**	**215,000**	**269,000**	**1880**	**10,000**	**10,000**	**na**	**na**	**na**
Industrial SSL[b]						**8200[e]**	**3.23**	**1200[e]**	**260,000[l]**	**733,000**	**916,000**	**257**	**33,700**	**33,700**	**na**	**na**	**na**
Recreational SSL[f]						**3280**	**8.88**	**489**	**124,000[l]**	**263,000**	**328,000**	**9850**	**11,500**	**11,500**	**na**	**na**	**na**
Residential SSL[c]						**630[e]**	**0.153**	**78[e]**	**15,600[l]**	**49,300**	**61,600**	**53.3**	**2320**	**2320**	**na**	**na**	**na**
RE00-23-291186	00-61813	NE80	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-23-289520	00-61813	NE80	North	2–3	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.45E-06 (J+)	5.56E-06 (J)	1.29E-06 (J+)
RE00-23-291187	00-61813	NE80	North	2–3	SOIL	—	—	—	—	—	—	—	0.0022 (J)	—	NA	NA	NA
RE00-23-289510	00-61815	NE74	North	0–1	SOIL	—	—	—	—	—	—	—	0.00282 (J)	—	NA	NA	NA
RE00-23-289513	00-61816	NE79	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-23-289514	00-61816	NE79	North	2–3	SOIL	—	—	—	—	—	—	—	0.00327 (J)	—	NA	NA	NA
RE00-23-291188	00-61817	NE81	North	0–1	SOIL	—	0.00176 (J)	—	—	—	—	—	0.00774	—	NA	NA	NA
RE00-23-291189	00-61817	NE81	North	2–3	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA
RE00-23-290099	00-61818	NE82	North	0–1	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.53E-06 (J+)	4.53E-06 (J)	—
RE00-23-291190	00-61818	NE82	North	0–1	SOIL	—	—	—	—	—	—	—	0.00341	—	NA	NA	NA
RE00-23-290100	00-61818	NE82	North	2–3	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	—	6.79E-07 (J)	—
RE00-23-290101	00-61818	NE82	North	4–5	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	—	2.91E-07 (J)	—
RE00-23-291192	00-61818	NE82	North	4–5	QBT3	—	—	—	—	—	—	—	—	—	NA	NA	NA

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Heptachlorodibenzofuran[1,2,3,4,7,8,9-]	Heptachlorodibenzofurans (Total)	Hexachlorodibenzodioxin[1,2,3,4,7,8-]	Hexachlorodibenzodioxin[1,2,3,6,7,8-]	Hexachlorodibenzodioxin[1,2,3,7,8,9-]	Hexachlorodibenzodioxins (Total)	Hexachlorodibenzofuran[1,2,3,4,7,8-]	Hexachlorodibenzofuran[1,2,3,6,7,8-]	Hexachlorodibenzofuran[1,2,3,7,8,9-]	Hexachlorodibenzofuran[2,3,4,6,7,8-]	Hexachlorodibenzofurans (Total)	Indeno(1,2,3-cd)pyrene
Construction Worker SSL[b]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**240**
Industrial SSL[b]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**32.3**
Recreational SSL[f]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**88.8**
Residential SSL[c]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**1.53**
RE00-22-238042	00-171	4	North	7.5–8.5	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-238043	00-171	4	North	10.5–11.5	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-238046	00-173	9	North	6.5–7.5	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-238047	00-173	9	North	9.5–10.5	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-238051	00-175	23	North	6.9–7.9	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-238052	00-175	23	North	9.9–10.9	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-238056	00-177	11	North	9–10	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-238057	00-177	11	North	12–13	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-238061	00-179	8	North	8.5–9.5	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-238062	00-179	8	North	11.5–12.5	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-238066	00-181	13	North	8–9	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-238067	00-181	13	North	11–12	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-238071	00-183	10	North	11–12	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-238072	00-183	10	North	14–15	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-238075	00-184	1	North	6–7	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-238076	00-185	24	North	6.5–7.5	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-238077	00-185	24	North	9.5–10.5	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-238078	00-186	97	South	0–1	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-238080	00-186	97	South	6.5–7.5	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-238081	00-187	21	North	8–9	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-238082	00-187	21	North	11–12	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-238093	00-190	90	South	13–14	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-238096	00-193	98	North	9.5–10.5	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Heptachlorodibenzofuran[1,2,3,4,7,8,9-]	Heptachlorodibenzofurans (Total)	Hexachlorodibenzodioxin[1,2,3,4,7,8-]	Hexachlorodibenzodioxin[1,2,3,6,7,8-]	Hexachlorodibenzodioxin[1,2,3,7,8,9-]	Hexachlorodibenzodioxins (Total)	Hexachlorodibenzofuran[1,2,3,4,7,8-]	Hexachlorodibenzofuran[1,2,3,6,7,8-]	Hexachlorodibenzofuran[1,2,3,7,8,9-]	Hexachlorodibenzofuran[2,3,4,6,7,8-]	Hexachlorodibenzofurans (Total)	Indeno(1,2,3-cd)pyrene
Construction Worker SSL[b]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**240**
Industrial SSL[b]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**32.3**
Recreational SSL[f]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**88.8**
Residential SSL[c]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**1.53**
RE00-22-238097	00-193	98	North	12.5–13.5	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-238100	00-195	25	North	8.5–9.5	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-238101	00-195	25	North	11.5–12.5	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-238103	00-196	3	North	3.3–4.5	FILL	—	5.6E-06 (J)	—	7.27E-07 (J)	5.45E-07 (J)	4.93E-06 (J)	—	—	—	—	5.72E-06 (J)	—
RE00-22-238104	00-196	3	North	7.5–8.5	QBT3	—	6.19E-06 (J)	—	9.48E-07 (J)	5.23E-07 (J)	6.8E-06 (J)	—	—	—	—	3.78E-06 (J)	—
RE00-22-238105	00-197	27	North	8.5–9.5	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-238106	00-197	27	North	11.5–12.5	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-238107	00-198	99	South	0–1	SOIL	—	5.07E-06 (J)	—	—	—	2.94E-06 (J)	5.27E-07 (J)	—	—	4.63E-07 (J)	3.63E-06 (J)	—
RE00-22-238108	00-198	99	South	3–4	SOIL	8.5E-07 (J)	8.57E-05 (J)	6.98E-07 (J)	3.42E-06 (J)	1.32E-06 (J)	2.04E-05 (J)	1.45E-06 (J)	5.32E-07 (J)	—	5.77E-07 (J)	2.45E-05 (J)	—
RE00-22-238109	00-198	99	South	6–7.1	QBT3	—	3.12E-06 (J)	—	—	—	5.38E-07 (J)	—	—	—	—	—	—
RE00-22-238110	00-199	28	North	12.5–13.5	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-238111	00-199	28	North	15.5–16.5	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-238112	00-200	66	South	0–1	FILL	—	4.88E-06 (J)	—	—	—	1.12E-06 (J)	—	—	—	—	3.41E-06 (J)	—
RE00-22-238113	00-200	66	South	4–5	FILL	—	2.04E-06 (J)	—	—	—	1.29E-06 (J)	—	—	—	—	—	—
RE00-22-238114	00-200	66	South	6.1–7.1	QBT3	—	2.59E-06 (J)	—	—	—	1.25E-06 (J)	—	—	—	—	1.16E-06 (J)	—
RE00-22-238115	00-201	89	South	7.5–8.5	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-238116	00-201	89	South	10.5–11.5	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-238117	00-202	92	South	0–1	FILL	—	8.84E-06	—	5.55E-07 (J)	4.07E-07 (J)	3.74E-06 (J)	8.44E-07 (J)	—	—	—	5.13E-06 (J)	—
RE00-22-238118	00-202	92	South	3–4	FILL	3.55E-06 (J)	1.88E-05 (J)	—	—	—	2.06E-06 (J)	2.48E-05	2.55E-06 (J)	8.02E-07 (J)	1.16E-06 (J)	6.52E-05 (J)	—
RE00-22-238119	00-202	92	South	7.7–8.7	QBT3	—	8.8E-07 (J)	—	—	—	—	5.75E-07 (J)	—	—	—	5.75E-07 (J)	—
RE00-22-238122	00-204	57A	South	0–1	SOIL	—	1.00E-05	—	—	—	7.94E-07 (J)	—	—	—	—	4.75E-06 (J)	—
RE00-22-238123	00-204	57A	South	3–4	SOIL	—	1.70E-05	—	9.65E-07 (J)	7.84E-07 (J)	9.61E-06 (J)	1.29E-06 (J)	8.42E-07 (J)	—	1.04E-06 (J)	1.77E-05 (J)	—
RE00-22-238124	00-204	57A	South	7.9–8.9	QBT3	—	2.04E-06 (J)	—	—	—	1.16E-06 (J)	—	—	—	—	1.38E-06 (J)	—
RE00-22-238125	00-205	72	South	13–14	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-238126	00-205	72	South	16–17	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Heptachlorodibenzofuran[1,2,3,4,7,8,9-]	Heptachlorodibenzofurans (Total)	Hexachlorodibenzodioxin[1,2,3,4,7,8-]	Hexachlorodibenzodioxin[1,2,3,6,7,8-]	Hexachlorodibenzodioxin[1,2,3,7,8,9-]	Hexachlorodibenzodioxins (Total)	Hexachlorodibenzofuran[1,2,3,4,7,8-]	Hexachlorodibenzofuran[1,2,3,6,7,8-]	Hexachlorodibenzofuran[1,2,3,7,8,9-]	Hexachlorodibenzofuran[2,3,4,6,7,8-]	Hexachlorodibenzofurans (Total)	Indeno(1,2,3-cd)pyrene
Construction Worker SSL[b]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**240**
Industrial SSL[b]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**32.3**
Recreational SSL[f]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**88.8**
Residential SSL[c]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**1.53**
RE00-22-238129	00-206	18	North	7.8–8.8	QBT3	—	3.22E-06 (J)	—	—	—	2.17E-06 (J)	—	—	—	—	1.13E-06 (J)	—
RE00-22-238130	00-207	71	South	10–11	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-238131	00-207	71	South	13–14	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-238132	00-208	70	South	0–1	FILL	—	1.88E-05	—	5.32E-07 (J)	—	2.41E-06 (J)	—	5.93E-07 (J)	—	1.53E-06 (J)	2.04E-05 (J)	—
RE00-22-238133	00-208	70	South	4–5	SOIL	—	1.36E-06 (J)	—	—	—	—	6.5E-07 (J)	—	—	—	6.5E-07 (J)	—
RE00-22-238134	00-208	70	South	9–10	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238135	00-209	76	South	13–14	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-238136	00-209	76	South	16–17	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-238139	00-210	29	North	0–1.4	FILL	—	4.59E-06 (J)	—	—	—	8.06E-07 (J)	—	—	—	—	3.82E-06 (J)	—
RE00-22-238138	00-210	29	North	4–5	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238137	00-210	29	North	7–8	QBT3	—	1.1E-06 (J)	—	—	—	4.65E-07 (J)	—	—	—	—	—	—
RE00-22-238140	00-211	82	South	14.5–15.5	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-238141	00-211	82	South	17.5–18.5	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-238142	00-212	20	North	0–1	FILL	—	6.28E-06 (J)	—	5.75E-07 (J)	—	3.24E-06 (J)	—	5.84E-07 (J)	—	7.27E-07 (J)	9.59E-06 (J)	—
RE00-22-238143	00-212	20	North	4–5	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238144	00-212	20	North	6.2–7.2	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238145	00-213	79	South	12–13	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-238146	00-213	79	South	15–16	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-238147	00-214	26	North	0–1	FILL	—	2.1E-06 (J)	—	—	—	8.05E-07 (J)	—	—	—	—	5.71E-07 (J)	0.00216 (J)
RE00-22-238148	00-214	26	North	4–5	SOIL	—	1.11E-06 (J)	—	—	—	—	—	—	—	—	—	—
RE00-22-238149	00-214	26	North	6.8–7.8	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238150	00-215	12	North	7.5–8.5	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-238151	00-215	12	North	10.5–11.5	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-238153	00-216	83	South	15–16	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-238154	00-217	80	South	12–13	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0338 (J)

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Heptachlorodibenzofuran[1,2,3,4,7,8,9-]	Heptachlorodibenzofurans (Total)	Hexachlorodibenzodioxin[1,2,3,4,7,8-]	Hexachlorodibenzodioxin[1,2,3,6,7,8-]	Hexachlorodibenzodioxin[1,2,3,7,8,9-]	Hexachlorodibenzodioxins (Total)	Hexachlorodibenzofuran[1,2,3,4,7,8-]	Hexachlorodibenzofuran[1,2,3,6,7,8-]	Hexachlorodibenzofuran[1,2,3,7,8,9-]	Hexachlorodibenzofuran[2,3,4,6,7,8-]	Hexachlorodibenzofurans (Total)	Indeno(1,2,3-cd)pyrene
Construction Worker SSL[b]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**240**
Industrial SSL[b]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**32.3**
Recreational SSL[f]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**88.8**
Residential SSL[c]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**1.53**
RE00-22-238156	00-218	22	North	0–1	FILL	—	6.99E-06 (J)	—	—	—	1.6E-06 (J)	—	—	—	—	3.58E-06 (J)	—
RE00-22-238157	00-218	22	North	4–5	FILL	—	2.19E-05	6.98E-07 (J)	2.58E-06 (J)	1.98E-06 (J)	2.32E-05 (J)	1.03E-06 (J)	1.07E-06 (J)	—	1.63E-06 (J)	2.39E-05 (J)	0.235
RE00-22-238158	00-218	22	North	11.9–12.9	QBT3	—	2.19E-05	—	7.66E-07 (J)	4.68E-07 (J)	4.6E-06 (J)	—	—	—	6.21E-07 (J)	9.82E-06 (J)	0.0352 (J)
RE00-22-238159	00-219	87	South	8.5–9.5	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-238161	00-220	85	South	0–1	FILL	—	9.65E-06 (J)	—	—	—	2.1E-06 (J)	—	—	—	—	5.5E-06 (J)	—
RE00-22-238162	00-220	85	South	3–4	FILL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238163	00-220	85	South	4.9–5.9	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238164	00-221	84	South	11–12	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-238165	00-221	84	South	14–15	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-238166	00-222	7	North	0–1	FILL	—	8.34E-06 (J)	—	7.29E-07 (J)	4.53E-07 (J)	4.31E-06 (J)	—	4.69E-07 (J)	—	6.5E-07 (J)	9.35E-06 (J)	—
RE00-22-238167	00-222	7	North	3–4	SOIL	—	—	—	—	—	6.71E-07 (J)	—	—	—	—	—	—
RE00-22-238168	00-222	7	North	5–6	QBT3	—	—	—	—	—	1.09E-06 (J)	—	—	—	—	—	—
RE00-22-238169	00-223	81	South	6.5–7.5	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-238170	00-223	81	South	9.5–10.5	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-238174	00-225	77	South	8.5–9.5	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-238175	00-225	77	South	11.5–12.5	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-238176	00-226	95	South	0–1	FILL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-238177	00-226	95	South	3–4	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-238178	00-226	95	South	6–7	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-238179	00-227	78	South	7.5–8.5	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-238181	00-228	59	South	0–1	FILL	—	1.9E-06 (J)	—	—	—	—	—	—	—	—	2.34E-06 (J)	—
RE00-22-238281	00-228	59	South	4–5	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-238184	00-229	73	South	7.5–8.5	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-238185	00-229	73	South	10.5–11.5	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-238189	00-231	69	South	7.5–8.5	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Heptachlorodibenzofuran[1,2,3,4,7,8,9-]	Heptachlorodibenzofurans (Total)	Hexachlorodibenzodioxin[1,2,3,4,7,8-]	Hexachlorodibenzodioxin[1,2,3,6,7,8-]	Hexachlorodibenzodioxin[1,2,3,7,8,9-]	Hexachlorodibenzodioxins (Total)	Hexachlorodibenzofuran[1,2,3,4,7,8-]	Hexachlorodibenzofuran[1,2,3,6,7,8-]	Hexachlorodibenzofuran[1,2,3,7,8,9-]	Hexachlorodibenzofuran[2,3,4,6,7,8-]	Hexachlorodibenzofurans (Total)	Indeno(1,2,3-cd)pyrene
Construction Worker SSL[b]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**240**
Industrial SSL[b]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**32.3**
Recreational SSL[f]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**88.8**
Residential SSL[c]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**1.53**
RE00-22-238190	00-231	69	South	10.5–11.5	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-238192	00-232	96	South	0–1	FILL	—	5.38E-06 (J)	—	—	—	2.43E-06 (J)	—	—	—	—	2.85E-06 (J)	—
RE00-22-238191	00-232	96	South	4–5	FILL	—	1.05E-06 (J)	—	—	—	—	—	—	—	—	—	—
RE00-22-238193	00-232	96	South	6–7	QBT3	—	1.6E-06 (J)	—	—	—	6.69E-07 (J)	—	—	—	—	1.13E-06 (J)	—
RE00-22-238194	00-233	64	South	7.5–8.5	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-238195	00-233	64	South	10.5–11.5	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-238196	00-234	61	South	12.5–13.5	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-238197	00-234	61	South	15.5–16.5	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-238199	00-235	57	South	12–13	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-238200	00-236	60	South	13–14	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-238201	00-236	60	South	16–17	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-238202	00-237	62	South	8.5–9.5	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-238203	00-237	62	South	11.5–12.5	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-238204	00-238	63	South	4–5	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-238205	00-238	63	South	7–8	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-238208	00-240	68	South	5–6	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-238226	00-249	5	North	8–9	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-238237	00-254	15	North	7–8	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-238239	00-255	93	South	4–5	FILL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-238242	00-256	14	North	7.3–8.3	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-239164	00-257	6	North	6.1–7.1	QBT3	—	2.68E-06 (J)	—	—	—	2.08E-06 (J)	—	—	—	—	2E-06 (J)	—
RE00-22-238248	00-259	75	South	0–1	FILL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-238249	00-259	75	South	3–4	FILL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-238250	00-259	75	South	6.9–7.9	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-238251	00-260	88	South	0–1	FILL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Heptachlorodibenzofuran[1,2,3,4,7,8,9-]	Heptachlorodibenzofurans (Total)	Hexachlorodibenzodioxin[1,2,3,4,7,8-]	Hexachlorodibenzodioxin[1,2,3,6,7,8-]	Hexachlorodibenzodioxin[1,2,3,7,8,9-]	Hexachlorodibenzodioxins (Total)	Hexachlorodibenzofuran[1,2,3,4,7,8-]	Hexachlorodibenzofuran[1,2,3,6,7,8-]	Hexachlorodibenzofuran[1,2,3,7,8,9-]	Hexachlorodibenzofuran[2,3,4,6,7,8-]	Hexachlorodibenzofurans (Total)	Indeno(1,2,3-cd)pyrene
Construction Worker SSL[b]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**240**
Industrial SSL[b]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**32.3**
Recreational SSL[f]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**88.8**
Residential SSL[c]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**1.53**
RE00-22-238253	00-261	56A	North	0–1	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0779
RE00-22-238254	00-261	56A	North	3–4	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0303 (J)
RE00-22-238255	00-261	56A	North	11.6–12.6	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-238273	00-61519	16	North	0–1	FILL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-238278	00-61519	16	North	3–4	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-238283	00-61519	16	North	12–13	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-238279	00-61520	South	North	4–5	FILL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-238282	00-61523	74	South	4–5	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-238277	00-61523	74	South	8–9	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-238300	00-61526	56	North	6–7	FILL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-239217	00-61546	19	North	0–1	FILL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-239227	00-61546	19	North	4–5	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-239237	00-61546	19	North	5.75–6.8	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-239218	00-61547	55A	North	0–1	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-239228	00-61547	55A	North	3–4	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-239238	00-61547	55A	North	11.9–12.9	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-239221	00-61550	58A	South	0–1	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00436
RE00-22-239231	00-61550	58A	South	3–4	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-239241	00-61550	58A	South	8–9	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-239224	00-61553	54A	North	0–1	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-239234	00-61553	54A	North	4–5	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-239244	00-61553	54A	North	6.9–7.9	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-248888	00-61568	29 5NE	North	0–1	SOIL	—	3.81E-06 (J)	—	—	—	6.4E-07 (J)	—	—	—	—	4.23E-06 (J)	—
RE00-22-248889	00-61568	29 5NE	North	4–5	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-248890	00-61568	29 5NE	North	7–8	QBT3	—	—	—	—	—	—	—	—	—	—	7.04E-07 (J)	—

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Heptachlorodibenzofuran[1,2,3,4,7,8,9-]	Heptachlorodibenzofurans (Total)	Hexachlorodibenzodioxin[1,2,3,4,7,8-]	Hexachlorodibenzodioxin[1,2,3,6,7,8-]	Hexachlorodibenzodioxin[1,2,3,7,8,9-]	Hexachlorodibenzodioxins (Total)	Hexachlorodibenzofuran[1,2,3,4,7,8-]	Hexachlorodibenzofuran[1,2,3,6,7,8-]	Hexachlorodibenzofuran[1,2,3,7,8,9-]	Hexachlorodibenzofuran[2,3,4,6,7,8-]	Hexachlorodibenzofurans (Total)	Indeno(1,2,3-cd)pyrene
Construction Worker SSL[b]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**240**
Industrial SSL[b]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**32.3**
Recreational SSL[f]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**88.8**
Residential SSL[c]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**1.53**
RE00-22-248891	00-61569	29 5S	North	0–1	SOIL	—	5.73E-06 (J)	—	4.38E-07 (J)	—	1.22E-06 (J)	—	—	—	4.99E-07 (J)	2.7E-06 (J)	—
RE00-22-248892	00-61569	29 5S	North	4–5	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-248893	00-61569	29 5S	North	7–8	QBT3	—	—	—	—	—	1.23E-06 (J)	—	—	—	—	—	—
RE00-22-249057	00-61569	29 5S	North	9–10	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-249058	00-61569	29 5S	North	11–12	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-248894	00-61570	29 5SE	North	0–1	SOIL	—	1.07E-05	—	1.22E-06 (J)	8.37E-07 (J)	8.64E-06 (J)	5.5E-07 (J)	4.69E-07 (J)	—	8.2E-07 (J)	1.06E-05 (J)	—
RE00-22-248895	00-61570	29 5SE	North	4–5	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-248896	00-61570	29 5SE	North	7–8	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-248897	00-61571	22 5E	North	0–1	SOIL	—	2.06E-06 (J)	—	—	—	—	—	—	—	—	9.73E-07 (J)	—
RE00-22-248898	00-61571	22 5E	North	4–5	SOIL	—	1.64E-05	—	1.96E-06 (J)	—	1.09E-05 (J)	5.3E-07 (J)	6.74E-07 (J)	—	1.02E-06 (J)	1.58E-05 (J)	—
RE00-22-248899	00-61571	22 5E	North	11.9–12.9	QBT3	—	2.66E-06 (J)	—	—	—	2.92E-06 (J)	—	—	—	—	4.47E-06 (J)	—
RE00-22-248900	00-61572	92 5E	South	0–1	SOIL	—	2.64E-05	—	8.18E-07 (J)	—	8.18E-07 (J)	6.53E-07 (J)	—	—	5.29E-07 (J)	8.06E-06 (J)	0.0368 (J)
RE00-22-248901	00-61572	92 5E	South	3–4	SOIL	—	—	—	—	—	—	—	—	—	—	7.66E-07 (J)	—
RE00-22-248902	00-61572	92 5E	South	7.7–8.7	QBT3	—	1.12E-06 (J)	—	—	—	—	—	—	—	—	—	—
RE00-22-248903	00-61573	92 5N	South	0–1	SOIL	—	1.37E-05	—	—	—	4.54E-06 (J)	1.29E-06 (J)	6.03E-07 (J)	—	7.71E-07 (J)	5.28E-06 (J)	—
RE00-22-248904	00-61573	92 5N	South	3–4	SOIL	—	2.48E-06 (J)	—	—	—	—	1.14E-06 (J)	—	—	—	1.14E-06 (J)	—
RE00-22-248905	00-61573	92 5N	South	7.7–8.7	QBT3	—	1.98E-06 (J)	—	—	—	—	—	—	—	—	—	—
RE00-22-248906	00-61574	56A 5E	North	0–1	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-248907	00-61574	56A 5E	North	3–4	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-248909	00-61575	56A 5N	North	0–1	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-248910	00-61575	56A 5N	North	3–4	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-248911	00-61575	56A 5N	North	11.6–12.6	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-248913	00-61576	56A 5W	North	3–4	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-248914	00-61576	56A 5W	North	11.6–12.6	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-248915	00-61577	56A 5S	North	0–1	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Heptachlorodibenzofuran[1,2,3,4,7,8,9-]	Heptachlorodibenzofurans (Total)	Hexachlorodibenzodioxin[1,2,3,4,7,8-]	Hexachlorodibenzodioxin[1,2,3,6,7,8-]	Hexachlorodibenzodioxin[1,2,3,7,8,9-]	Hexachlorodibenzodioxins (Total)	Hexachlorodibenzofuran[1,2,3,4,7,8-]	Hexachlorodibenzofuran[1,2,3,6,7,8-]	Hexachlorodibenzofuran[1,2,3,7,8,9-]	Hexachlorodibenzofuran[2,3,4,6,7,8-]	Hexachlorodibenzofurans (Total)	Indeno(1,2,3-cd)pyrene
Construction Worker SSL[b]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**240**
Industrial SSL[b]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**32.3**
Recreational SSL[f]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**88.8**
Residential SSL[c]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**1.53**
RE00-22-248916	00-61577	56A 5S	North	3–4	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-248930	00-61581	2 5S	North	6.5–7.5	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-248979	00-61582	2 5SE	North	8.5–9.5	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-248982	00-61582	2 5SE	North	10.5–11.5	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-248934	00-61583	58 5E	South	0–1	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-248935	00-61583	58 5E	South	4–5	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-255298	00-61584	58 5SW	South	13–14	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00227 (J)
RE00-22-248943	00-61586	94 5S	South	0–1	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-248944	00-61586	94 5S	South	4–5	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-248947	00-61587	94 5E	South	4–5	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-248948	00-61587	94 5E	South	9.1–9.9	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-249009	00-61587	94 5E	South	10.9–11.9	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-249010	00-61587	94 5E	South	12.9–13.9	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-248949	00-61588	94 5W	South	0–1	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0328 (J)
RE00-22-248950	00-61588	94 5W	South	4–5	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-248952	00-61589	29 5W	North	0–1	SOIL	—	2.5E-06 (J)	—	—	—	1.08E-06 (J)	—	—	—	—	6.85E-07 (J)	—
RE00-22-248953	00-61589	29 5W	North	4–5	SOIL	—	8.1E-06 (J)	—	—	—	1.6E-06 (J)	1.01E-06 (J)	—	—	—	4.77E-06 (J)	—
RE00-22-248954	00-61589	29 5W	North	7–8	QBT3	—	5.97E-07 (J)	—	—	—	—	—	—	—	—	—	—
RE00-22-248955	00-61589	29 5W	North	11.5–12.5	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-248956	00-61590	95 5W	South	0–1	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-248957	00-61590	95 5W	South	3–4	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-248958	00-61590	95 5W	South	6–7	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-248960	00-61591	1 5S	North	3–4	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-248961	00-61591	1 5S	North	6–7	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-248962	00-61592	1 5SW	North	0–1	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Heptachlorodibenzofuran[1,2,3,4,7,8,9-]	Heptachlorodibenzofurans (Total)	Hexachlorodibenzodioxin[1,2,3,4,7,8-]	Hexachlorodibenzodioxin[1,2,3,6,7,8-]	Hexachlorodibenzodioxin[1,2,3,7,8,9-]	Hexachlorodibenzodioxins (Total)	Hexachlorodibenzofuran[1,2,3,4,7,8-]	Hexachlorodibenzofuran[1,2,3,6,7,8-]	Hexachlorodibenzofuran[1,2,3,7,8,9-]	Hexachlorodibenzofuran[2,3,4,6,7,8-]	Hexachlorodibenzofurans (Total)	Indeno(1,2,3-cd)pyrene
Construction Worker SSL[b]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**240**
Industrial SSL[b]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**32.3**
Recreational SSL[f]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**88.8**
Residential SSL[c]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**1.53**
RE00-22-248963	00-61592	1 5SW	North	3–4	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-248964	00-61592	1 5SW	North	6–7	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-248965	00-61593	1 5NE	North	0–1	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-248966	00-61593	1 5NE	North	3–4	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-248967	00-61593	1 5NE	North	6–7	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-248968	00-61594	1 5NW	North	0–1	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-248969	00-61594	1 5NW	North	3–4	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-248970	00-61594	1 5NW	North	6–7	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-248985	00-61599	2 10N	North	6.5–7.5	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-248986	00-61600	22 5NE	North	0–1	SOIL	—	5.61E-06 (J)	—	—	—	7.99E-07 (J)	—	—	—	—	8.78E-07 (J)	—
RE00-22-248987	00-61600	22 5NE	North	4–5	SOIL	—	2.51E-05	—	2.27E-06 (J)	1.44E-06 (J)	1.75E-05 (J)	7.59E-07 (J)	8.31E-07 (J)	—	1.33E-06 (J)	1.89E-05 (J)	—
RE00-22-248988	00-61600	22 5NE	North	11.9–12.9	QBT3	—	3.35E-06 (J)	—	—	—	—	—	—	—	—	1.27E-06 (J)	—
RE00-22-248989	00-61601	56A 10W	North	0–1	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-248990	00-61601	56A 10W	North	3–4	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-248991	00-61601	56A 10W	North	11.6–12.6	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-248992	00-61602	94 10SE	South	0–1	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0177
RE00-22-248994	00-61602	94 10SE	South	9.1–9.9	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-249014	00-61609	94 10S	South	4–5	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-249015	00-61609	94 10S	South	9.1–9.9	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-249019	00-61611	92 5NW	South	0–1	SOIL	—	6.29E-06 (J)	—	—	—	—	9.3E-07 (J)	—	—	—	2.41E-06 (J)	0.0358
RE00-22-249020	00-61611	92 5NW	South	3–4	SOIL	—	5.3E-06 (J)	5.93E-07 (J)	—	—	2.63E-06 (J)	8.3E-07 (J)	—	—	—	3.17E-06 (J)	—
RE00-22-249021	00-61611	92 5NW	South	7.7–8.7	QBT3	—	—	—	—	—	—	—	—	—	—	4.17E-07 (J)	—
RE00-22-249022	00-61612	22 10E	North	0–1	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-249023	00-61612	22 10E	North	4–5	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-249024	00-61612	22 10E	North	11.9–12.9	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Heptachlorodibenzofuran[1,2,3,4,7,8,9-]	Heptachlorodibenzofurans (Total)	Hexachlorodibenzodioxin[1,2,3,4,7,8-]	Hexachlorodibenzodioxin[1,2,3,6,7,8-]	Hexachlorodibenzodioxin[1,2,3,7,8,9-]	Hexachlorodibenzodioxins (Total)	Hexachlorodibenzofuran[1,2,3,4,7,8-]	Hexachlorodibenzofuran[1,2,3,6,7,8-]	Hexachlorodibenzofuran[1,2,3,7,8,9-]	Hexachlorodibenzofuran[2,3,4,6,7,8-]	Hexachlorodibenzofurans (Total)	Indeno(1,2,3-cd)pyrene
Construction Worker SSL[b]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**240**
Industrial SSL[b]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**32.3**
Recreational SSL[f]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**88.8**
Residential SSL[c]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**1.53**
RE00-22-249031	00-61616	27 5E	North	11.5–12.5	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00239 (J)
RE00-22-249036	00-61618	2V	North	10–11	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-249037	00-61619	58 5N	South	4–5	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-249038	00-61619	58 5N	South	7–8	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-249064	00-61619	58 5N	South	13.9–14.9	QBT3	—	6.81E-06 (J)	—	—	—	7.45E-07 (J)	7.22E-07 (J)	—	—	—	2.1E-06 (J)	—
RE00-22-249065	00-61619	58 5N	South	15.9–16.9	QBT3	—	1.66E-06 (J)	—	—	—	—	—	—	—	—	—	—
RE00-22-249039	00-61620	00-196	North	9.5–10.5	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-249041	00-61621	00-61521	North	9–10	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-249042	00-61621	00-61521	North	11–12	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-249045	00-61622	22 5SE	North	11.9–12.9	QBT3	—	1.58E-06 (J)	—	—	—	5.3E-07 (J)	—	—	—	—	6.23E-07 (J)	—
RE00-22-249046	00-61623	17 5S	North	9–10	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-249047	00-61623	17 5S	North	11–12	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-249049	00-61624	00-212	North	10–11	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-249050	00-61625	00-61553	North	9–10	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-249051	00-61625	00-61553	North	11–12	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-249025	00-61625	00-61553	North	13–14	QBT3	—	5.75E-06 (J)	—	—	—	5.99E-07 (J)	—	—	—	—	1.61E-06 (J)	—
RE00-22-249026	00-61625	00-61553	North	15–16	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-249053	00-61626	27 5W	North	8.5–9.5	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-249052	00-61626	27 5W	North	11.5–12.5	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-249055	00-61627	27 5N	North	11.5–12.5	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-249056	00-61628	92 5S	South	7.7–8.7	QBT3	—	5.04E-07 (J)	—	—	—	—	—	—	—	—	—	—
RE00-22-249059	00-61630	00-210	North	9–10	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-249060	00-61630	00-210	North	11–12	QBT3	—	1.9E-06 (J)	—	—	—	—	—	—	—	—	8.75E-07 (J)	—
RE00-22-250910	00-61651	2 10NW	North	0–1	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-250911	00-61651	2 10NW	North	3–4	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Heptachlorodibenzofuran[1,2,3,4,7,8,9-]	Heptachlorodibenzofurans (Total)	Hexachlorodibenzodioxin[1,2,3,4,7,8-]	Hexachlorodibenzodioxin[1,2,3,6,7,8-]	Hexachlorodibenzodioxin[1,2,3,7,8,9-]	Hexachlorodibenzodioxins (Total)	Hexachlorodibenzofuran[1,2,3,4,7,8-]	Hexachlorodibenzofuran[1,2,3,6,7,8-]	Hexachlorodibenzofuran[1,2,3,7,8,9-]	Hexachlorodibenzofuran[2,3,4,6,7,8-]	Hexachlorodibenzofurans (Total)	Indeno(1,2,3-cd)pyrene
Construction Worker SSL[b]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**240**
Industrial SSL[b]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**32.3**
Recreational SSL[f]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**88.8**
Residential SSL[c]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**1.53**
RE00-22-250912	00-61651	2 10NW	North	6.5–7.5	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-250916	00-61653	2 10SE	North	0–1	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-250917	00-61653	2 10SE	North	3–4	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.236
RE00-22-250918	00-61653	2 10SE	North	6.5–7.5	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-250919	00-61654	1 10SW	North	0–1	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-250920	00-61654	1 10SW	North	3–4	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-250921	00-61654	1 10SW	North	6.5–7.5	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-250922	00-61655	22 10SE	North	0–1	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-250923	00-61655	22 10SE	North	4–5	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-250924	00-61655	22 10SE	North	11.9–12.9	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-250928	00-61657	22 10S	North	0–1	SOIL	—	5.1E-06 (J)	—	—	—	4.61E-07 (J)	—	—	—	—	3.95E-06 (J)	—
RE00-22-250929	00-61657	22 10S	North	4–5	SOIL	—	1.34E-05 (J)	7.08E-07 (J)	7.04E-06	4.57E-06	4.74E-05 (J)	—	—	—	—	5.19E-06 (J)	—
RE00-22-250930	00-61657	22 10S	North	11.9–12.9	QBT3	—	5.18E-07 (J)	—	—	—	1.01E-06 (J)	—	—	—	—	—	—
RE00-22-250931	00-61658	56A 10S	South	0–1	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-250932	00-61658	56A 10S	South	3–4	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-250933	00-61658	56A 10S	South	11.6–12.6	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-250934	00-61659	56A 10SE	North	0–1	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-250935	00-61659	56A 10SE	North	3–4	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-250936	00-61659	56A 10SE	North	11.6–12.6	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-250937	00-61660	56A 10SW	North	0–1	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-250938	00-61660	56A 10SW	North	3–4	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-250939	00-61660	56A 10SW	North	11.6–12.6	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-250940	00-61661	94 10SW	South	0–1	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-250941	00-61661	94 10SW	South	4–5	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-250942	00-61661	94 10SW	South	9.1–9.9	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Heptachlorodibenzofuran[1,2,3,4,7,8,9-]	Heptachlorodibenzofurans (Total)	Hexachlorodibenzodioxin[1,2,3,4,7,8-]	Hexachlorodibenzodioxin[1,2,3,6,7,8-]	Hexachlorodibenzodioxin[1,2,3,7,8,9-]	Hexachlorodibenzodioxins (Total)	Hexachlorodibenzofuran[1,2,3,4,7,8-]	Hexachlorodibenzofuran[1,2,3,6,7,8-]	Hexachlorodibenzofuran[1,2,3,7,8,9-]	Hexachlorodibenzofuran[2,3,4,6,7,8-]	Hexachlorodibenzofurans (Total)	Indeno(1,2,3-cd)pyrene
Construction Worker SSL[b]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**240**
Industrial SSL[b]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**32.3**
Recreational SSL[f]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**88.8**
Residential SSL[c]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**1.53**
RE00-22-252842	00-61700	2 14N	North	6.5–7.5	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-252845	00-61701	2 15NNE	North	6.5–7.5	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-253161	00-61705	29 10S	North	0–1	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-253162	00-61705	29 10S	North	4–5	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-253163	00-61705	29 10S	North	7–8	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-253164	00-61705	29 10S	North	9–10	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-253165	00-61705	29 10S	North	11–12	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-253167	00-61706	29 10WSW	North	0–1	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00177 (J)
RE00-22-253168	00-61706	29 10WSW	North	4–5	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00352 (J)
RE00-22-253169	00-61706	29 10WSW	North	7–8	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-253170	00-61706	29 10WSW	North	9–10	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-253171	00-61706	29 10WSW	North	11–12	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-253172	00-61707	29 10SE	North	0–1	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00318 (J)
RE00-22-253173	00-61707	29 10SE	North	4–5	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0134 (J)
RE00-22-253174	00-61707	29 10SE	North	7–8	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00904
RE00-22-253175	00-61707	29 10SE	North	9–10	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00283 (J)
RE00-22-253176	00-61707	29 10SE	North	11–12	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-253177	00-61708	29 15SW	North	0–1	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-253178	00-61708	29 15SW	North	4–5	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-253179	00-61708	29 15SW	North	7–8	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-253180	00-61708	29 15SW	North	9–10	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-253181	00-61708	29 15SW	North	11–12	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-253182	00-61709	56A 5WV	North	13.6–14.6	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-253184	00-61711	56A 10NW	North	0–1	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00598 (J+)
RE00-22-253185	00-61711	56A 10NW	North	3–4	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Heptachlorodibenzofuran[1,2,3,4,7,8,9-]	Heptachlorodibenzofurans (Total)	Hexachlorodibenzodioxin[1,2,3,4,7,8-]	Hexachlorodibenzodioxin[1,2,3,6,7,8-]	Hexachlorodibenzodioxin[1,2,3,7,8,9-]	Hexachlorodibenzodioxins (Total)	Hexachlorodibenzofuran[1,2,3,4,7,8-]	Hexachlorodibenzofuran[1,2,3,6,7,8-]	Hexachlorodibenzofuran[1,2,3,7,8,9-]	Hexachlorodibenzofuran[2,3,4,6,7,8-]	Hexachlorodibenzofurans (Total)	Indeno(1,2,3-cd)pyrene
Construction Worker SSL[b]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**240**
Industrial SSL[b]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**32.3**
Recreational SSL[f]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**88.8**
Residential SSL[c]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**1.53**
RE00-22-253186	00-61711	56A 10NW	North	11.6–12.6	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-253190	00-61712	94 15SW	South	0–1	SOIL	—	5.34E-06 (J)	—	—	—	2.23E-06 (J)	—	—	—	—	2.9E-06 (J)	—
RE00-22-253191	00-61712	94 15SW	South	4–5	SOIL	—	—	—	—	—	—	—	—	—	—	—	0.00853 (J+)
RE00-22-253192	00-61712	94 15SW	South	9.1–9.9	QBT3	—	7.26E-06 (J)	—	—	—	4.69E-07 (J)	—	—	—	—	2.26E-06 (J)	0.0025 (J)
RE00-22-253193	00-61713	94 15WSW	South	0–1	SOIL	—	1.07E-05	—	5.68E-07 (J)	—	2.93E-06 (J)	—	—	—	1.09E-06 (J)	1.32E-05 (J)	—
RE00-22-253194	00-61713	94 15WSW	South	4–5	SOIL	—	1.07E-05 (J)	—	7.07E-07 (J)	4.99E-07 (J)	4.92E-06 (J)	—	—	—	—	2.97E-06 (J)	0.00221 (J)
RE00-22-253195	00-61713	94 15WSW	South	9.1–9.9	SOIL	—	2.07E-06 (J)	—	—	—	8.6E-07 (J)	—	—	—	—	—	—
RE00-22-253196	00-61714	94 10W	South	0–1	SOIL	7.62E-07 (J)	6.97E-06 (J)	—	—	—	1.13E-06 (J)	1.04E-06 (J)	—	—	—	2.95E-06 (J)	—
RE00-22-253197	00-61714	94 10W	South	4–5	SOIL	—	1.77E-06 (J)	—	—	—	—	—	—	—	—	—	0.00299 (J)
RE00-22-253198	00-61714	94 10W	South	9.1–9.9	QBT3	—	3.11E-06 (J)	—	—	—	6.54E-07 (J)	—	—	—	—	1.11E-06 (J)	—
RE00-22-253202	00-61716	58 10S	South	0–1	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00327 (J)
RE00-22-253203	00-61716	58 10S	South	4–5	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-253204	00-61716	58 10S	South	7–8	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-253205	00-61716	58 10S	South	9–10	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-253206	00-61716	58 10S	South	11–12	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-253207	00-61717	58 10SE	South	0–1	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-253208	00-61717	58 10SE	South	4–5	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-253209	00-61717	58 10SE	South	7–8	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00211 (J)
RE00-22-253210	00-61717	58 10SE	South	9–10	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-253211	00-61717	58 10SE	South	11–12	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-255274	00-61722	2 25ENE	North	0–1	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00446 (J)
RE00-22-255275	00-61722	2 25ENE	North	3–4	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00181 (J)
RE00-22-255276	00-61722	2 25ENE	North	6.5–7.5	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00581 (J)
RE00-22-255285	00-61725	2 19N	North	6.5–7.5	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-255286	00-61726	2 15NW	North	0–1	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Heptachlorodibenzofuran[1,2,3,4,7,8,9-]	Heptachlorodibenzofurans (Total)	Hexachlorodibenzodioxin[1,2,3,4,7,8-]	Hexachlorodibenzodioxin[1,2,3,6,7,8-]	Hexachlorodibenzodioxin[1,2,3,7,8,9-]	Hexachlorodibenzodioxins (Total)	Hexachlorodibenzofuran[1,2,3,4,7,8-]	Hexachlorodibenzofuran[1,2,3,6,7,8-]	Hexachlorodibenzofuran[1,2,3,7,8,9-]	Hexachlorodibenzofuran[2,3,4,6,7,8-]	Hexachlorodibenzofurans (Total)	Indeno(1,2,3-cd)pyrene
Construction Worker SSL[b]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**240**
Industrial SSL[b]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**32.3**
Recreational SSL[f]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**88.8**
Residential SSL[c]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**1.53**
RE00-22-255287	00-61726	2 15NW	North	3–4	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0737 (J)
RE00-22-255288	00-61726	2 15NW	North	6.5–7.5	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-255289	00-61727	2 20NW	North	0–1	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-255290	00-61727	2 20NW	North	3–4	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-255291	00-61727	2 20NW	North	6.5–7.5	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-255294	00-61728	2 24N	North	6.5–7.5	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-255295	00-61729	2 24NE	North	0–1	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-255296	00-61729	2 24NE	North	3–4	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-22-255297	00-61729	2 24NE	North	6.5–7.5	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-23-259861	00-61736	SE3	North	0–1	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-23-259864	00-61737	NE2	North	0–1	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-23-259865	00-61737	NE2	North	3–4	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-23-259866	00-61737	NE2	North	6.5–7.5	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-23-259867	00-61738	NE1	North	0–1	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.018
RE00-23-259868	00-61738	NE1	North	3–4	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-23-259869	00-61738	NE1	North	6.5–7.5	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-23-282088	00-61739	NE6	North	17–18	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00171 (J)
RE00-23-282089	00-61739	NE6	North	19–20	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00438
RE00-23-259873	00-61740	2 25NW	North	0–1	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-23-259874	00-61740	2 25NW	North	3–4	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-23-259875	00-61740	2 25NW	North	6.5–7.5	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-23-259876	00-61741	N1	North	0–1	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0105 (J)
RE00-23-259877	00-61741	N1	North	3–4	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-23-259878	00-61741	N1	North	6.5–7.5	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-23-259882	00-61743	SE2	North	0–1	SOIL	—	1.51E-06 (J)	—	—	—	—	—	—	—	—	5.73E-07 (J)	0.0112 (J)

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Heptachlorodibenzofuran[1,2,3,4,7,8,9-]	Heptachlorodibenzofurans (Total)	Hexachlorodibenzodioxin[1,2,3,4,7,8-]	Hexachlorodibenzodioxin[1,2,3,6,7,8-]	Hexachlorodibenzodioxin[1,2,3,7,8,9-]	Hexachlorodibenzodioxins (Total)	Hexachlorodibenzofuran[1,2,3,4,7,8-]	Hexachlorodibenzofuran[1,2,3,6,7,8-]	Hexachlorodibenzofuran[1,2,3,7,8,9-]	Hexachlorodibenzofuran[2,3,4,6,7,8-]	Hexachlorodibenzofurans (Total)	Indeno(1,2,3-cd)pyrene
Construction Worker SSL[b]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**240**
Industrial SSL[b]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**32.3**
Recreational SSL[f]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**88.8**
Residential SSL[c]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**1.53**
RE00-23-259883	00-61743	SE2	North	3–4	SOIL	—	5.94E-07 (J)	—	—	—	—	—	—	—	—	—	—
RE00-23-259884	00-61743	SE2	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-23-265182	00-61744	N2	North	0–1	SOIL	—	4.47E-06	—	6.25E-07 (J)	5.38E-07 (J)	4.73E-06 (J)	—	—	—	—	4.21E-06 (J)	—
RE00-23-265183	00-61744	N2	North	3–4	SOIL	—	—	—	—	—	4.53E-07 (J)	—	—	—	—	—	—
RE00-23-265184	00-61744	N2	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-23-265179	00-61745	NE10	North	0–1	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-23-265180	00-61745	NE10	North	3–4	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-23-264877	00-61745	NE10	North	6.5–7.5	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-23-264878	00-61746	N5	North	0–1	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-23-264879	00-61746	N5	North	3–4	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-23-264880	00-61746	N5	North	6.5–7.5	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-23-264881	00-61747	N4	North	0–1	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0281 (J)
RE00-23-264882	00-61747	N4	North	3–4	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-23-264883	00-61747	N4	North	6.5–7.5	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-23-264884	00-61748	NE4	North	0–1	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-23-264885	00-61748	NE4	North	3–4	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-23-264886	00-61748	NE4	North	6.5–7.5	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-23-265185	00-61749	N3	North	0–1	SOIL	—	6.18E-06 (J)	—	—	—	1.19E-06 (J)	—	—	—	—	2.55E-06 (J)	—
RE00-23-265186	00-61749	N3	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-23-265187	00-61749	N3	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-23-265188	00-61750	NE3	North	0–1	SOIL	5.7E-07 (J)	1.54E-05 (J)	—	9.4E-07 (J)	7.01E-07 (J)	6.71E-06 (J)	6.93E-07 (J)	6.27E-07 (J)	—	1.34E-06 (J)	1.44E-05 (J)	0.019
RE00-23-265189	00-61750	NE3	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-23-265190	00-61750	NE3	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	—	5.1E-07 (J)	—
RE00-23-264893	00-61751	2 20NEV	North	9–10	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-23-264894	00-61751	2 20NEV	North	11–12	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Heptachlorodibenzofuran[1,2,3,4,7,8,9-]	Heptachlorodibenzofurans (Total)	Hexachlorodibenzodioxin[1,2,3,4,7,8-]	Hexachlorodibenzodioxin[1,2,3,6,7,8-]	Hexachlorodibenzodioxin[1,2,3,7,8,9-]	Hexachlorodibenzodioxins (Total)	Hexachlorodibenzofuran[1,2,3,4,7,8-]	Hexachlorodibenzofuran[1,2,3,6,7,8-]	Hexachlorodibenzofuran[1,2,3,7,8,9-]	Hexachlorodibenzofuran[2,3,4,6,7,8-]	Hexachlorodibenzofurans (Total)	Indeno(1,2,3-cd)pyrene
Construction Worker SSL[b]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**240**
Industrial SSL[b]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**32.3**
Recreational SSL[f]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**88.8**
Residential SSL[c]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**1.53**
RE00-23-264896	00-61752	N6	North	0–1	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0247 (J)
RE00-23-264897	00-61752	N6	North	3–4	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-23-264898	00-61752	N6	North	6.5–7.5	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-23-264899	00-61753	NE5	North	0–1	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-23-264900	00-61753	NE5	North	3–4	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-23-264901	00-61753	NE5	North	6.5–7.5	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00242 (J)
RE00-23-264902	00-61754	SE1V	North	9–10	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-23-264903	00-61754	SE1V	North	11–12	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-23-264909	00-61756	SE10	North	3–4	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-23-267856	00-61757	SE4	North	0–1	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00794 (J)
RE00-23-267857	00-61757	SE4	North	3–4	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-23-267858	00-61757	SE4	North	6.5–7.5	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-23-267859	00-61758	SE7	North	0–1	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00533 (J)
RE00-23-267860	00-61758	SE7	North	3–4	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00327 (J)
RE00-23-267861	00-61758	SE7	North	6.5–7.5	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-23-267871	00-61762	NE7	North	0–1	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00407
RE00-23-267872	00-61762	NE7	North	3–4	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-23-267873	00-61762	NE7	North	6–7	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-23-267874	00-61763	NE28	North	0–1	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00258 (J)
RE00-23-267875	00-61763	NE28	North	3–4	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-23-267876	00-61763	NE28	North	5–6	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-23-267877	00-61764	NE23	North	0–1	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0144
RE00-23-267878	00-61764	NE23	North	3–4	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-23-267879	00-61764	NE23	North	5–6	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-23-267882	00-61765	NE24	North	5–6	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00418

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Heptachlorodibenzofuran[1,2,3,4,7,8,9-]	Heptachlorodibenzofurans (Total)	Hexachlorodibenzodioxin[1,2,3,4,7,8-]	Hexachlorodibenzodioxin[1,2,3,6,7,8-]	Hexachlorodibenzodioxin[1,2,3,7,8,9-]	Hexachlorodibenzodioxins (Total)	Hexachlorodibenzofuran[1,2,3,4,7,8-]	Hexachlorodibenzofuran[1,2,3,6,7,8-]	Hexachlorodibenzofuran[1,2,3,7,8,9-]	Hexachlorodibenzofuran[2,3,4,6,7,8-]	Hexachlorodibenzofurans (Total)	Indeno(1,2,3-cd)pyrene
Construction Worker SSL[b]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**240**
Industrial SSL[b]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**32.3**
Recreational SSL[f]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**88.8**
Residential SSL[c]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**1.53**
RE00-23-267886	00-61767	NE26	North	0–1	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00508 (J)
RE00-23-267887	00-61767	NE26	North	3–4	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-23-267888	00-61767	NE26	North	5–6	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-23-267889	00-61768	NE29	North	0.5–1.5	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00259 (J)
RE00-23-267890	00-61768	NE29	North	3.5–4.5	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-23-267891	00-61768	NE29	North	5.5–6.5	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-23-271182	00-61775	NE34	North	3.5–4.5	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-23-271183	00-61775	NE34	North	5.5–6.5	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-23-271187	00-61776	NE25	North	5–6	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-23-271196	00-61779	SE11	North	6.5–7.5	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-23-271197	00-61780	NE20	North	0–1	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0211
RE00-23-271198	00-61780	NE20	North	3–4	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00213 (J)
RE00-23-271199	00-61780	NE20	North	6.5–7.5	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-23-271200	00-61781	NE21	North	0–1	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-23-271201	00-61781	NE21	North	3–4	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-23-271202	00-61781	NE21	North	6.5–7.5	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-23-271203	00-61782	NE54	North	0–1	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00786
RE00-23-271204	00-61782	NE54	North	3–4	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-23-271205	00-61782	NE54	North	6.5–7.5	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-23-271206	00-61783	NE53	North	0–1	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00589
RE00-23-271207	00-61783	NE53	North	3–4	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-23-271208	00-61783	NE53	North	6.5–7.5	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00246 (J)
RE00-23-271209	00-61784	SE14	North	0–1	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0136 (J)
RE00-23-271210	00-61784	SE14	North	3–4	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00458
RE00-23-271211	00-61784	SE14	North	5–6	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Heptachlorodibenzofuran[1,2,3,4,7,8,9-]	Heptachlorodibenzofurans (Total)	Hexachlorodibenzodioxin[1,2,3,4,7,8-]	Hexachlorodibenzodioxin[1,2,3,6,7,8-]	Hexachlorodibenzodioxin[1,2,3,7,8,9-]	Hexachlorodibenzodioxins (Total)	Hexachlorodibenzofuran[1,2,3,4,7,8-]	Hexachlorodibenzofuran[1,2,3,6,7,8-]	Hexachlorodibenzofuran[1,2,3,7,8,9-]	Hexachlorodibenzofuran[2,3,4,6,7,8-]	Hexachlorodibenzofurans (Total)	Indeno(1,2,3-cd)pyrene
Construction Worker SSL[b]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**240**
Industrial SSL[b]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**32.3**
Recreational SSL[f]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**88.8**
Residential SSL[c]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**1.53**
RE00-23-271215	00-61786	SE12	North	0–1	SOIL	—	1.62E-05	4.89E-07 (J)	1.47E-06 (J)	9.12E-07 (J)	8.78E-06 (J)	7.6E-07 (J)	5.3E-07 (J)	—	8.74E-07 (J)	1.17E-05 (J)	0.0105 (J)
RE00-23-271216	00-61786	SE12	North	3–4	SOIL	—	6.03E-06 (J)	—	1.4E-06 (J)	8.05E-07 (J)	1.21E-05 (J)	—	—	—	4.29E-07 (J)	2.95E-06 (J)	0.00349
RE00-23-271217	00-61786	SE12	North	11–12	QBT3	—	4.18E-06 (J)	—	6.23E-07 (J)	4.47E-07 (J)	2.59E-06 (J)	—	—	—	—	1.7E-06 (J)	—
RE00-23-271218	00-61787	SE15	North	0–1	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0168 (J)
RE00-23-271219	00-61787	SE15	North	3–4	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.21 (J)
RE00-23-271220	00-61787	SE15	North	11.5–12.5	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0217 (J)
RE00-23-271227	00-61790	NE45	North	0.5–1.5	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00177 (J)
RE00-23-271230	00-61791	NE47	North	1–2	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-23-271233	00-61792	NE55	North	0–1	SOIL	—	1.12E-05	—	6.04E-07 (J)	4.54E-07 (J)	4.2E-06 (J)	6.57E-07 (J)	—	—	5.62E-07 (J)	8.9E-06 (J)	0.0339 (J)
RE00-23-271234	00-61792	NE55	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-23-271235	00-61792	NE55	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-23-271236	00-61793	NE38	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-23-271239	00-61794	NE39	North	0.5–1.5	SOIL	—	6.44E-06 (J+)	—	3.66E-07 (J)	—	1.28E-06 (J)	—	3.03E-07 (J)	—	2.94E-07 (J)	4.51E-06 (J)	0.00368 (J)
RE00-23-271240	00-61794	NE39	North	2–3	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-23-271242	00-61795	NE48	North	3.5–4.5	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-23-271243	00-61795	NE48	North	5.5–6.5	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0346
RE00-23-271248	00-61797	NE56	North	0–1	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00207 (J)
RE00-23-271249	00-61797	NE56	North	2–3	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-23-282091	00-61799	NE60	North	0–1	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-23-282092	00-61799	NE60	North	2–3	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-23-289091	00-61804	NE68	North	0–1	SOIL	—	2.26E-06 (J+)	—	—	—	2.89E-07 (J)	—	—	—	—	5.35E-07 (J)	NA
RE00-23-291181	00-61804	NE68	North	0–1	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00202 (J)
RE00-23-282118	00-61808	NE66	North	0–1	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-23-291184	00-61811	NE67	North	0–1	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00169 (J)
RE00-23-289519	00-61813	NE80	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	— z	7.13E-07 (J)	NA

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Heptachlorodibenzofuran[1,2,3,4,7,8,9-]	Heptachlorodibenzofurans (Total)	Hexachlorodibenzodioxin[1,2,3,4,7,8-]	Hexachlorodibenzodioxin[1,2,3,6,7,8-]	Hexachlorodibenzodioxin[1,2,3,7,8,9-]	Hexachlorodibenzodioxins (Total)	Hexachlorodibenzofuran[1,2,3,4,7,8-]	Hexachlorodibenzofuran[1,2,3,6,7,8-]	Hexachlorodibenzofuran[1,2,3,7,8,9-]	Hexachlorodibenzofuran[2,3,4,6,7,8-]	Hexachlorodibenzofurans (Total)	Indeno(1,2,3-cd)pyrene
Construction Worker SSL[b]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**240**
Industrial SSL[b]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**32.3**
Recreational SSL[f]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**88.8**
Residential SSL[c]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**1.53**
RE00-23-291186	00-61813	NE80	North	0–1	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-23-289520	00-61813	NE80	North	2–3	SOIL	—	1.29E-06 (J+)	—	—	—	1.1E-06 (J)	—	—	—	—	1.47E-06 (J)	NA
RE00-23-291187	00-61813	NE80	North	2–3	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-23-289510	00-61815	NE74	North	0–1	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-23-289513	00-61816	NE79	North	0–1	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-23-289514	00-61816	NE79	North	2–3	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-23-291188	00-61817	NE81	North	0–1	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00316 (J)
RE00-23-291189	00-61817	NE81	North	2–3	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-23-290099	00-61818	NE82	North	0–1	SOIL	—	2.94E-06 (J+)	—	—	—	9.55E-07 (J)	—	—	—	—	1.56E-06 (J)	NA
RE00-23-291190	00-61818	NE82	North	0–1	SOIL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—
RE00-23-290100	00-61818	NE82	North	2–3	SOIL	—	—	—	—	—	—	—	—	—	—	—	NA
RE00-23-290101	00-61818	NE82	North	4–5	QBT3	—	—	—	—	—	1.56E-07 (J)	—	—	—	—	6.29E-08 (J)	NA
RE00-23-291192	00-61818	NE82	North	4–5	QBT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	—

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Isopropyltoluene[4-]	Methylene Chloride	Methylnaphthalene[1-]	Methylnaphthalene[2-]	Naphthalene	Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-]	Octachlorodibenzofuran[1,2,3,4,6,7,8,9-]	Pentachlorodibenzodioxin[1,2,3,7,8-]	Pentachlorodibenzodioxins (Total)	Pentachlorodibenzofuran[1,2,3,7,8-]	Pentachlorodibenzofuran[2,3,4,7,8-]	Pentachlorodibenzofurans (Totals)
Construction Worker SSL[b]						**2740[m]**	**1210**	**6060**	**1000**	**159**	**na**	**na**	**na**	**na**	**na**	**na**	**na**
Industrial SSL[b]						**14,200[m]**	**5130**	**813**	**3370**	**108**	**na**	**na**	**na**	**na**	**na**	**na**	**na**
Recreational SSL[f]						**43,100[m]**	**3610**	**743**	**1150**	**1930**	**na**	**na**	**na**	**na**	**na**	**na**	**na**
Residential SSL[c]						**2360[m]**	**409**	**172**	**232**	**22.6**	**na**	**na**	**na**	**na**	**na**	**na**	**na**
RE00-22-238042	00-171	4	North	7.5–8.5	QBT3	—	—	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-238043	00-171	4	North	10.5–11.5	QBT3	—	—	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-238046	00-173	9	North	6.5–7.5	QBT3	—	—	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-238047	00-173	9	North	9.5–10.5	QBT3	—	—	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-238051	00-175	23	North	6.9–7.9	QBT3	—	—	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-238052	00-175	23	North	9.9–10.9	QBT3	—	—	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-238056	00-177	11	North	9–10	QBT3	—	—	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-238057	00-177	11	North	12–13	QBT3	—	—	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-238061	00-179	8	North	8.5–9.5	QBT3	—	—	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-238062	00-179	8	North	11.5–12.5	QBT3	—	—	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-238066	00-181	13	North	8–9	QBT3	—	—	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-238067	00-181	13	North	11–12	QBT3	—	—	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-238071	00-183	10	North	11–12	QBT3	—	—	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-238072	00-183	10	North	14–15	QBT3	—	—	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-238075	00-184	1	North	6–7	QBT3	—	—	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-238076	00-185	24	North	6.5–7.5	QBT3	—	—	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-238077	00-185	24	North	9.5–10.5	QBT3	—	—	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-238078	00-186	97	South	0–1	SOIL	—	—	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-238080	00-186	97	South	6.5–7.5	QBT3	—	—	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-238081	00-187	21	North	8–9	QBT3	—	—	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-238082	00-187	21	North	11–12	QBT3	—	—	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-238093	00-190	90	South	13–14	QBT3	—	—	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-238096	00-193	98	North	9.5–10.5	QBT3	—	—	—	—	—	NA	NA	NA	NA	NA	NA	NA

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Isopropyltoluene[4-]	Methylene Chloride	Methylnaphthalene[1-]	Methylnaphthalene[2-]	Naphthalene	Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-]	Octachlorodibenzofuran[1,2,3,4,6,7,8,9-]	Pentachlorodibenzodioxin[1,2,3,7,8-]	Pentachlorodibenzodioxins (Total)	Pentachlorodibenzofuran[1,2,3,7,8-]	Pentachlorodibenzofuran[2,3,4,7,8-]	Pentachlorodibenzofurans (Totals)
Construction Worker SSL[b]						**2740[m]**	**1210**	**6060**	**1000**	**159**	**na**	**na**	**na**	**na**	**na**	**na**	**na**
Industrial SSL[b]						**14,200[m]**	**5130**	**813**	**3370**	**108**	**na**	**na**	**na**	**na**	**na**	**na**	**na**
Recreational SSL[f]						**43,100[m]**	**3610**	**743**	**1150**	**1930**	**na**	**na**	**na**	**na**	**na**	**na**	**na**
Residential SSL[c]						**2360[m]**	**409**	**172**	**232**	**22.6**	**na**	**na**	**na**	**na**	**na**	**na**	**na**
RE00-22-238097	00-193	98	North	12.5–13.5	QBT3	—	—	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-238100	00-195	25	North	8.5–9.5	QBT3	—	—	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-238101	00-195	25	North	11.5–12.5	QBT3	—	—	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-238103	00-196	3	North	3.3–4.5	FILL	—	—	—	—	—	4.47E-05	1.85E-06 (J)	—	—	—	9.55E-07 (J)	1.29E-05 (J)
RE00-22-238104	00-196	3	North	7.5–8.5	QBT3	—	—	—	0.0546 (J)	—	9.01E-05	2.23E-06 (J)	—	4.55E-07 (J)	—	4.2E-07 (J)	7.22E-06 (J)
RE00-22-238105	00-197	27	North	8.5–9.5	QBT3	—	—	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-238106	00-197	27	North	11.5–12.5	QBT3	—	—	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-238107	00-198	99	South	0–1	SOIL	—	—	—	—	—	4.72E-05	3.12E-06 (J)	—	—	5.78E-07 (J)	7.98E-07 (J)	9.47E-06 (J)
RE00-22-238108	00-198	99	South	3–4	SOIL	—	—	0.279 (J)	0.354	0.24 (J)	0.00118	4.14E-05	6.03E-07 (J)	5.9E-07 (J)	2.04E-06 (J)	4.74E-07 (J)	9.86E-06 (J)
RE00-22-238109	00-198	99	South	6–7.1	QBT3	—	—	—	—	—	3.50E-05	1.23E-06 (J)	—	—	—	—	—
RE00-22-238110	00-199	28	North	12.5–13.5	QBT3	—	—	0.00402	0.00469	0.00369	NA	NA	NA	NA	NA	NA	NA
RE00-22-238111	00-199	28	North	15.5–16.5	QBT3	—	—	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-238112	00-200	66	South	0–1	FILL	—	—	—	0.0479 (J)	—	2.96E-05	2.69E-06 (J)	—	—	4.7E-07 (J)	4.47E-07 (J)	7.3E-06 (J)
RE00-22-238113	00-200	66	South	4–5	FILL	—	—	0.123 (J)	0.152 (J)	0.0938	3.54E-05	—	—	—	—	—	—
RE00-22-238114	00-200	66	South	6.1–7.1	QBT3	—	—	0.0556 (J)	0.0695 (J)	0.0417 (J)	1.73E-05	9.92E-07 (J)	—	—	—	—	1.37E-06 (J)
RE00-22-238115	00-201	89	South	7.5–8.5	QBT3	—	—	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-238116	00-201	89	South	10.5–11.5	QBT3	—	—	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-238117	00-202	92	South	0–1	FILL	—	—	0.0841	0.105	0.0701	5.67E-05	5.03E-06 (J)	—	—	1.75E-06 (J)	—	5.78E-06 (J)
RE00-22-238118	00-202	92	South	3–4	FILL	—	—	0.104	0.127	0.0782	2.81E-05	1.93E-05	6.34E-07 (J)	—	3.45E-05	1.96E-06 (J)	0.000148 (J)
RE00-22-238119	00-202	92	South	7.7–8.7	QBT3	—	—	0.0316 (J)	0.0351	0.0211 (J)	9.32E-06	8.74E-07 (J)	—	—	1.24E-06 (J)	—	2.36E-06 (J)
RE00-22-238122	00-204	57A	South	0–1	SOIL	—	0.00718	0.0209	0.0261	0.0191	5.31E-05 (J+)	5.03E-06 (J)	—	—	5E-07 (J)	—	5.33E-06 (J)
RE00-22-238123	00-204	57A	South	3–4	SOIL	—	0.00914	0.191	0.235	0.147	0.000134	9.09E-06	4.51E-07 (J)	1.26E-06 (J)	1.58E-06 (J)	1.13E-06 (J)	2.47E-05 (J)
RE00-22-238124	00-204	57A	South	7.9–8.9	QBT3	—	0.00802	0.0213	0.0284	0.0195	1.75E-05 (J+)	1.26E-06 (J)	—	—	—	—	2.21E-06 (J)
RE00-22-238125	00-205	72	South	13–14	QBT3	—	0.00271 (J)	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-238126	00-205	72	South	16–17	QBT3	—	0.00266 (J)	—	—	—	NA	NA	NA	NA	NA	NA	NA

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Isopropyltoluene[4-]	Methylene Chloride	Methylnaphthalene[1-]	Methylnaphthalene[2-]	Naphthalene	Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-]	Octachlorodibenzofuran[1,2,3,4,6,7,8,9-]	Pentachlorodibenzodioxin[1,2,3,7,8-]	Pentachlorodibenzodioxins (Total)	Pentachlorodibenzofuran[1,2,3,7,8-]	Pentachlorodibenzofuran[2,3,4,7,8-]	Pentachlorodibenzofurans (Totals)
Construction Worker SSL[b]						**2740[m]**	**1210**	**6060**	**1000**	**159**	**na**	**na**	**na**	**na**	**na**	**na**	**na**
Industrial SSL[b]						**14,200[m]**	**5130**	**813**	**3370**	**108**	**na**	**na**	**na**	**na**	**na**	**na**	**na**
Recreational SSL[f]						**43,100[m]**	**3610**	**743**	**1150**	**1930**	**na**	**na**	**na**	**na**	**na**	**na**	**na**
Residential SSL[c]						**2360[m]**	**409**	**172**	**232**	**22.6**	**na**	**na**	**na**	**na**	**na**	**na**	**na**
RE00-22-238129	00-206	18	North	7.8–8.8	QBT3	—	0.00224 (J)	—	—	—	5.35E-05	1.54E-06 (J)	—	—	—	—	1.18E-06 (J)
RE00-22-238130	00-207	71	South	10–11	QBT3	—	0.00279 (J)	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-238131	00-207	71	South	13–14	QBT3	—	0.00223 (J)	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-238132	00-208	70	South	0–1	FILL	—	—	—	0.145	0.0966	0.000167	1.83E-05	—	8.29E-07 (J)	1.05E-06 (J)	2.39E-06 (J)	4.95E-05 (J)
RE00-22-238133	00-208	70	South	4–5	SOIL	—	0.00297 (J)	0.0189 (J)	0.0159	0.00704	1.10E-05	—	—	—	1.92E-06 (J)	—	5.8E-06 (J)
RE00-22-238134	00-208	70	South	9–10	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238135	00-209	76	South	13–14	QBT3	—	—	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-238136	00-209	76	South	16–17	QBT3	—	—	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-238139	00-210	29	North	0–1.4	FILL	—	—	—	0.0842 (J)	—	3.86E-05	2.49E-06 (J)	—	—	—	—	6.14E-06 (J)
RE00-22-238138	00-210	29	North	4–5	SOIL	—	—	—	—	—	2.65E-06 (J)	—	—	—	—	—	—
RE00-22-238137	00-210	29	North	7–8	QBT3	—	—	0.0286 (J)	0.0358	0.0286 (J)	8.59E-06 (J)	—	—	—	—	—	7.5E-07 (J)
RE00-22-238140	00-211	82	South	14.5–15.5	QBT3	—	—	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-238141	00-211	82	South	17.5–18.5	QBT3	—	—	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-238142	00-212	20	North	0–1	FILL	—	—	—	—	—	7.56E-05 (J+)	4.42E-06 (J)	—	—	5.22E-07 (J)	8.22E-07 (J)	1.83E-05 (J)
RE00-22-238143	00-212	20	North	4–5	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238144	00-212	20	North	6.2–7.2	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238145	00-213	79	South	12–13	QBT3	—	—	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-238146	00-213	79	South	15–16	QBT3	—	—	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-238147	00-214	26	North	0–1	FILL	—	—	0.00504	0.00648	0.0054	1.79E-05	1.33E-06 (J)	—	—	—	—	7.31E-07 (J)
RE00-22-238148	00-214	26	North	4–5	SOIL	—	—	0.0465	0.0646	0.0506	8.96E-06	—	—	—	—	—	4.74E-07 (J)
RE00-22-238149	00-214	26	North	6.8–7.8	QBT3	—	—	0.00846 (J)	0.0116	0.00951 (J)	3.15E-06 (J)	—	—	—	—	—	—
RE00-22-238150	00-215	12	North	7.5–8.5	QBT3	—	—	0.00524	0.00629	0.00384	NA	NA	NA	NA	NA	NA	NA
RE00-22-238151	00-215	12	North	10.5–11.5	QBT3	—	—	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-238153	00-216	83	South	15–16	QBT3	—	—	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-238154	00-217	80	South	12–13	QBT3	—	—	0.00284 (J)	0.00391	0.00284 (J)	NA	NA	NA	NA	NA	NA	NA

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Isopropyltoluene[4-]	Methylene Chloride	Methylnaphthalene[1-]	Methylnaphthalene[2-]	Naphthalene	Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-]	Octachlorodibenzofuran[1,2,3,4,6,7,8,9-]	Pentachlorodibenzodioxin[1,2,3,7,8-]	Pentachlorodibenzodioxins (Total)	Pentachlorodibenzofuran[1,2,3,7,8-]	Pentachlorodibenzofuran[2,3,4,7,8-]	Pentachlorodibenzofurans (Totals)
Construction Worker SSL[b]						**2740[m]**	**1210**	**6060**	**1000**	**159**	**na**	**na**	**na**	**na**	**na**	**na**	**na**
Industrial SSL[b]						**14,200[m]**	**5130**	**813**	**3370**	**108**	**na**	**na**	**na**	**na**	**na**	**na**	**na**
Recreational SSL[f]						**43,100[m]**	**3610**	**743**	**1150**	**1930**	**na**	**na**	**na**	**na**	**na**	**na**	**na**
Residential SSL[c]						**2360[m]**	**409**	**172**	**232**	**22.6**	**na**	**na**	**na**	**na**	**na**	**na**	**na**
RE00-22-238156	00-218	22	North	0–1	FILL	—	—	—	—	—	3.77E-05	3.49E-06 (J)	—	—	—	—	2.27E-06 (J)
RE00-22-238157	00-218	22	North	4–5	FILL	—	—	0.284	0.355	0.434	0.000257	1.16E-05	9.62E-07 (J)	6.86E-06 (J)	1.13E-06 (J)	2.29E-06 (J)	3.95E-05 (J)
RE00-22-238158	00-218	22	North	11.9–12.9	QBT3	—	—	0.0703	0.0844	0.0773	0.000108	1.29E-05	—	—	4.63E-07 (J)	6.28E-07 (J)	1.19E-05 (J)
RE00-22-238159	00-219	87	South	8.5–9.5	QBT3	—	—	—	—	0.00175 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-22-238161	00-220	85	South	0–1	FILL	—	0.00395 (J)	0.0868	0.101	0.0723	5.33E-05	4.57E-06 (J)	—	—	5.57E-07 (J)	6.03E-07 (J)	1.05E-05 (J)
RE00-22-238162	00-220	85	South	3–4	FILL	—	—	—	—	—	3.6E-06 (J)	—	—	—	—	—	—
RE00-22-238163	00-220	85	South	4.9–5.9	QBT3	—	—	—	—	—	6.84E-06 (J)	—	—	—	—	—	6.7E-07 (J)
RE00-22-238164	00-221	84	South	11–12	QBT3	—	0.00212 (J)	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-238165	00-221	84	South	14–15	QBT3	—	0.00189 (J)	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-238166	00-222	7	North	0–1	FILL	—	—	0.111	0.16	0.118	9.93E-05 (J+)	5.24E-06 (J)	—	4.48E-07 (J)	5.28E-07 (J)	1.12E-06 (J)	1.79E-05 (J)
RE00-22-238167	00-222	7	North	3–4	SOIL	—	—	0.0188	0.025	0.0215	7.86E-06 (J+)	—	—	—	—	—	—
RE00-22-238168	00-222	7	North	5–6	QBT3	—	—	—	0.021 (J)	0.0175 (J)	8.47E-06 (J+)	—	—	—	—	—	—
RE00-22-238169	00-223	81	South	6.5–7.5	QBT3	—	0.00643	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-238170	00-223	81	South	9.5–10.5	QBT3	—	0.00548	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-238174	00-225	77	South	8.5–9.5	QBT3	—	0.00632	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-238175	00-225	77	South	11.5–12.5	QBT3	—	0.00687	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-238176	00-226	95	South	0–1	FILL	—	—	0.174	0.216	0.139	NA	NA	NA	NA	NA	NA	NA
RE00-22-238177	00-226	95	South	3–4	SOIL	—	—	0.298	0.377	0.234	NA	NA	NA	NA	NA	NA	NA
RE00-22-238178	00-226	95	South	6–7	QBT3	—	—	0.0216 (J)	0.0252 (J)	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-238179	00-227	78	South	7.5–8.5	QBT3	—	0.00615	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-238181	00-228	59	South	0–1	FILL	—	—	—	—	—	1.17E-05	1.12E-06 (J)	—	—	—	—	4.98E-06 (J)
RE00-22-238281	00-228	59	South	4–5	SOIL	—	0.0028 (J)	0.0402	0.0438	0.0256 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-22-238184	00-229	73	South	7.5–8.5	QBT3	—	0.00525 (J)	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-238185	00-229	73	South	10.5–11.5	QBT3	—	0.00574	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-238189	00-231	69	South	7.5–8.5	QBT3	—	0.00587	—	—	—	NA	NA	NA	NA	NA	NA	NA

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Isopropyltoluene[4-]	Methylene Chloride	Methylnaphthalene[1-]	Methylnaphthalene[2-]	Naphthalene	Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-]	Octachlorodibenzofuran[1,2,3,4,6,7,8,9-]	Pentachlorodibenzodioxin[1,2,3,7,8-]	Pentachlorodibenzodioxins (Total)	Pentachlorodibenzofuran[1,2,3,7,8-]	Pentachlorodibenzofuran[2,3,4,7,8-]	Pentachlorodibenzofurans (Totals)
Construction Worker SSL[b]						**2740[m]**	**1210**	**6060**	**1000**	**159**	**na**	**na**	**na**	**na**	**na**	**na**	**na**
Industrial SSL[b]						**14,200[m]**	**5130**	**813**	**3370**	**108**	**na**	**na**	**na**	**na**	**na**	**na**	**na**
Recreational SSL[f]						**43,100[m]**	**3610**	**743**	**1150**	**1930**	**na**	**na**	**na**	**na**	**na**	**na**	**na**
Residential SSL[c]						**2360[m]**	**409**	**172**	**232**	**22.6**	**na**	**na**	**na**	**na**	**na**	**na**	**na**
RE00-22-238190	00-231	69	South	10.5–11.5	QBT3	—	0.0054	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-238192	00-232	96	South	0–1	FILL	—	—	—	—	—	5.42E-05	2.7E-06 (J)	—	—	6.93E-07 (J)	—	5.4E-06 (J)
RE00-22-238191	00-232	96	South	4–5	FILL	—	—	—	—	—	1.00E-05	1E-06 (J)	—	—	—	—	—
RE00-22-238193	00-232	96	South	6–7	QBT3	—	—	0.0412 (J-)	0.048 (J-)	—	0.000111	2.58E-06 (J)	—	—	—	—	7.85E-07 (J)
RE00-22-238194	00-233	64	South	7.5–8.5	QBT3	—	—	0.00355	0.00462	0.00284 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-22-238195	00-233	64	South	10.5–11.5	QBT3	—	—	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-238196	00-234	61	South	12.5–13.5	QBT3	—	—	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-238197	00-234	61	South	15.5–16.5	QBT3	—	—	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-238199	00-235	57	South	12–13	QBT3	—	—	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-238200	00-236	60	South	13–14	QBT3	—	—	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-238201	00-236	60	South	16–17	QBT3	—	—	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-238202	00-237	62	South	8.5–9.5	QBT3	—	—	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-238203	00-237	62	South	11.5–12.5	QBT3	—	—	—	—	0.0017 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-22-238204	00-238	63	South	4–5	QBT3	—	—	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-238205	00-238	63	South	7–8	QBT3	—	—	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-238208	00-240	68	South	5–6	QBT3	—	—	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-238226	00-249	5	North	8–9	QBT3	—	—	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-238237	00-254	15	North	7–8	QBT3	—	—	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-238239	00-255	93	South	4–5	FILL	—	0.00228 (J)	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-238242	00-256	14	North	7.3–8.3	QBT3	—	—	0.0302 (J)	0.0369	0.0268 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-22-239164	00-257	6	North	6.1–7.1	QBT3	—	0.00241 (J)	0.0517	0.0655	—	2.90E-05	—	—	—	—	—	3.95E-06 (J)
RE00-22-238248	00-259	75	South	0–1	FILL	—	—	0.0888	0.109	0.0752	NA	NA	NA	NA	NA	NA	NA
RE00-22-238249	00-259	75	South	3–4	FILL	—	—	0.0245	0.0289	0.0176	NA	NA	NA	NA	NA	NA	NA
RE00-22-238250	00-259	75	South	6.9–7.9	QBT3	—	—	—	0.0039	0.00284 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-22-238251	00-260	88	South	0–1	FILL	—	—	—	—	—	NA	NA	NA	NA	NA	NA	NA

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Isopropyltoluene[4-]	Methylene Chloride	Methylnaphthalene[1-]	Methylnaphthalene[2-]	Naphthalene	Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-]	Octachlorodibenzofuran[1,2,3,4,6,7,8,9-]	Pentachlorodibenzodioxin[1,2,3,7,8-]	Pentachlorodibenzodioxins (Total)	Pentachlorodibenzofuran[1,2,3,7,8-]	Pentachlorodibenzofuran[2,3,4,7,8-]	Pentachlorodibenzofurans (Totals)
Construction Worker SSL[b]						**2740[m]**	**1210**	**6060**	**1000**	**159**	**na**	**na**	**na**	**na**	**na**	**na**	**na**
Industrial SSL[b]						**14,200[m]**	**5130**	**813**	**3370**	**108**	**na**	**na**	**na**	**na**	**na**	**na**	**na**
Recreational SSL[f]						**43,100[m]**	**3610**	**743**	**1150**	**1930**	**na**	**na**	**na**	**na**	**na**	**na**	**na**
Residential SSL[c]						**2360[m]**	**409**	**172**	**232**	**22.6**	**na**	**na**	**na**	**na**	**na**	**na**	**na**
RE00-22-238253	00-261	56A	North	0–1	SOIL	—	—	0.0326 (J)	0.0405	0.0274 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-22-238254	00-261	56A	North	3–4	SOIL	—	0.00511 (J)	0.127	0.164	0.111	NA	NA	NA	NA	NA	NA	NA
RE00-22-238255	00-261	56A	North	11.6–12.6	QBT3	—	—	0.0606	0.0798	0.05	NA	NA	NA	NA	NA	NA	NA
RE00-22-238273	00-61519	16	North	0–1	FILL	—	—	0.0688	0.0895	0.0619 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-22-238278	00-61519	16	North	3–4	SOIL	—	—	0.258 (J)	0.356 (J)	0.244 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-22-238283	00-61519	16	North	12–13	QBT3	—	—	0.123 (J)	0.164	0.109 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-22-238279	00-61520	South	North	4–5	FILL	—	0.00402 (J)	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-238282	00-61523	74	South	4–5	SOIL	—	—	0.0501	0.0644	0.0394	NA	NA	NA	NA	NA	NA	NA
RE00-22-238277	00-61523	74	South	8–9	QBT3	—	—	—	0.0218 (J)	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-238300	00-61526	56	North	6–7	FILL	—	—	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-239217	00-61546	19	North	0–1	FILL	—	—	0.0172 (J)	0.0241 (J)	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-239227	00-61546	19	North	4–5	SOIL	—	—	0.00597	0.00783	0.00672	NA	NA	NA	NA	NA	NA	NA
RE00-22-239237	00-61546	19	North	5.75–6.8	QBT3	—	—	0.0213 (J)	0.0284 (J)	0.0213 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-22-239218	00-61547	55A	North	0–1	SOIL	—	—	0.0353	0.0424	0.0283 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-22-239228	00-61547	55A	North	3–4	SOIL	—	0.00367 (J)	0.134 (J)	0.171 (J+)	0.126 (J+)	NA	NA	NA	NA	NA	NA	NA
RE00-22-239238	00-61547	55A	North	11.9–12.9	QBT3	—	0.00215 (J)	0.0489	0.0629	0.0454	NA	NA	NA	NA	NA	NA	NA
RE00-22-239221	00-61550	58A	South	0–1	SOIL	—	0.00386 (J)	0.057	0.0679	0.0472	NA	NA	NA	NA	NA	NA	NA
RE00-22-239231	00-61550	58A	South	3–4	SOIL	—	—	0.129	0.164	0.106	NA	NA	NA	NA	NA	NA	NA
RE00-22-239241	00-61550	58A	South	8–9	QBT3	—	—	0.0234	0.0301	0.0212	NA	NA	NA	NA	NA	NA	NA
RE00-22-239224	00-61553	54A	North	0–1	SOIL	—	—	0.0339	0.044	0.0305 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-22-239234	00-61553	54A	North	4–5	SOIL	0.00105	—	0.233	0.304	0.198	NA	NA	NA	NA	NA	NA	NA
RE00-22-239244	00-61553	54A	North	6.9–7.9	QBT3	0.000929 (J)	—	0.0415 (J)	0.0554 (J)	0.0415 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-22-248888	00-61568	29 5NE	North	0–1	SOIL	—	—	—	—	—	5.23E-05	3.81E-06 (J)	—	—	—	—	4.76E-06 (J)
RE00-22-248889	00-61568	29 5NE	North	4–5	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-248890	00-61568	29 5NE	North	7–8	QBT3	—	—	0.00622	0.00761	0.00519	1.33E-05	—	—	—	—	—	1.29E-06 (J)

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Isopropyltoluene[4-]	Methylene Chloride	Methylnaphthalene[1-]	Methylnaphthalene[2-]	Naphthalene	Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-]	Octachlorodibenzofuran[1,2,3,4,6,7,8,9-]	Pentachlorodibenzodioxin[1,2,3,7,8-]	Pentachlorodibenzodioxins (Total)	Pentachlorodibenzofuran[1,2,3,7,8-]	Pentachlorodibenzofuran[2,3,4,7,8-]	Pentachlorodibenzofurans (Totals)
Construction Worker SSL[b]						**2740[m]**	**1210**	**6060**	**1000**	**159**	**na**	**na**	**na**	**na**	**na**	**na**	**na**
Industrial SSL[b]						**14,200[m]**	**5130**	**813**	**3370**	**108**	**na**	**na**	**na**	**na**	**na**	**na**	**na**
Recreational SSL[f]						**43,100[m]**	**3610**	**743**	**1150**	**1930**	**na**	**na**	**na**	**na**	**na**	**na**	**na**
Residential SSL[c]						**2360[m]**	**409**	**172**	**232**	**22.6**	**na**	**na**	**na**	**na**	**na**	**na**	**na**
RE00-22-248891	00-61569	29 5S	North	0–1	SOIL	—	—	0.0722 (J)	0.101 (J)	—	4.47E-05	3.11E-06 (J)	—	—	4.92E-07 (J)	7.08E-07 (J)	1.14E-05 (J)
RE00-22-248892	00-61569	29 5S	North	4–5	SOIL	—	—	0.0202 (J)	0.0278 (J)	0.0206 (J)	4.28E-06 (J)	—	—	—	—	—	—
RE00-22-248893	00-61569	29 5S	North	7–8	QBT3	—	—	0.0303	0.0374	0.0285	4.75E-06 (J)	—	—	—	—	—	—
RE00-22-249057	00-61569	29 5S	North	9–10	QBT3	—	—	0.0157 (J)	0.0209 (J)	0.0157 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-22-249058	00-61569	29 5S	North	11–12	QBT3	—	—	0.0243	0.033 (J)	0.0243	NA	NA	NA	NA	NA	NA	NA
RE00-22-248894	00-61570	29 5SE	North	0–1	SOIL	—	—	0.0612	0.0757	0.0504	8.87E-05	4E-06 (J)	4.53E-07 (J)	1.2E-06 (J)	5.26E-07 (J)	1.03E-06 (J)	1.47E-05 (J)
RE00-22-248895	00-61570	29 5SE	North	4–5	SOIL	—	—	—	—	—	5.83E-06 (J)	—	—	—	—	—	—
RE00-22-248896	00-61570	29 5SE	North	7–8	QBT3	—	—	—	—	—	—	—	—	—	—	—	1.16E-06 (J)
RE00-22-248897	00-61571	22 5E	North	0–1	SOIL	—	—	—	0.0426 (J)	—	2.98E-05 (J+)	2.41E-06 (J)	—	—	—	—	3.03E-06 (J)
RE00-22-248898	00-61571	22 5E	North	4–5	SOIL	—	—	0.298	0.511 (J)	0.256	0.000215	7.78E-06 (J)	—	1.67E-06 (J)	5.69E-07 (J)	1.57E-06 (J)	3.72E-05 (J)
RE00-22-248899	00-61571	22 5E	North	11.9–12.9	QBT3	—	—	0.0961	0.124	0.0892	5.54E-05 (J+)	1.95E-06 (J)	—	—	—	4.24E-07 (J)	8.72E-06 (J)
RE00-22-248900	00-61572	92 5E	South	0–1	SOIL	—	0.002 (J)	0.14	0.228 (J)	0.11	5.78E-05 (J+)	8.12E-06 (J)	—	5.69E-07 (J)	9.14E-07 (J)	—	4.31E-06 (J)
RE00-22-248901	00-61572	92 5E	South	3–4	SOIL	—	—	0.0242	0.028	0.0168 (J)	1.4E-05 (J+)	—	—	—	—	—	—
RE00-22-248902	00-61572	92 5E	South	7.7–8.7	QBT3	—	—	—	0.0212 (J)	—	—	—	—	—	—	—	—
RE00-22-248903	00-61573	92 5N	South	0–1	SOIL	—	—	0.158	0.187	0.13 (J)	0.000102 (J+)	7.92E-06 (J)	—	—	2.46E-06 (J)	7.66E-07 (J)	1.55E-05 (J)
RE00-22-248904	00-61573	92 5N	South	3–4	SOIL	—	—	0.0404	0.0514	0.033 (J)	1.5E-05 (J+)	1.31E-06 (J)	—	—	2.9E-06 (J)	—	5.13E-06 (J)
RE00-22-248905	00-61573	92 5N	South	7.7–8.7	QBT3	—	—	0.038	0.0414	0.0242 (J)	—	—	—	—	1.16E-06 (J)	—	3.12E-06 (J)
RE00-22-248906	00-61574	56A 5E	North	0–1	SOIL	—	—	0.107	0.142	0.0923	NA	NA	NA	NA	NA	NA	NA
RE00-22-248907	00-61574	56A 5E	North	3–4	SOIL	—	—	0.203	0.261 (J)	0.152	NA	NA	NA	NA	NA	NA	NA
RE00-22-248909	00-61575	56A 5N	North	0–1	SOIL	—	—	0.0489 (J)	0.0558 (J)	0.0349 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-22-248910	00-61575	56A 5N	North	3–4	SOIL	—	—	0.196	0.284 (J)	0.175	NA	NA	NA	NA	NA	NA	NA
RE00-22-248911	00-61575	56A 5N	North	11.6–12.6	QBT3	—	—	0.0168 (J)	0.0201 (J)	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-248913	00-61576	56A 5W	North	3–4	SOIL	—	—	0.29 (J)	0.342 (J)	0.186	NA	NA	NA	NA	NA	NA	NA
RE00-22-248914	00-61576	56A 5W	North	11.6–12.6	QBT3	—	—	0.0243 (J)	0.0313 (J)	0.0208 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-22-248915	00-61577	56A 5S	North	0–1	SOIL	—	—	—	—	—	NA	NA	NA	NA	NA	NA	NA

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Isopropyltoluene[4-]	Methylene Chloride	Methylnaphthalene[1-]	Methylnaphthalene[2-]	Naphthalene	Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-]	Octachlorodibenzofuran[1,2,3,4,6,7,8,9-]	Pentachlorodibenzodioxin[1,2,3,7,8-]	Pentachlorodibenzodioxins (Total)	Pentachlorodibenzofuran[1,2,3,7,8-]	Pentachlorodibenzofuran[2,3,4,7,8-]	Pentachlorodibenzofurans (Totals)
Construction Worker SSL[b]						**2740[m]**	**1210**	**6060**	**1000**	**159**	**na**	**na**	**na**	**na**	**na**	**na**	**na**
Industrial SSL[b]						**14,200[m]**	**5130**	**813**	**3370**	**108**	**na**	**na**	**na**	**na**	**na**	**na**	**na**
Recreational SSL[f]						**43,100[m]**	**3610**	**743**	**1150**	**1930**	**na**	**na**	**na**	**na**	**na**	**na**	**na**
Residential SSL[c]						**2360[m]**	**409**	**172**	**232**	**22.6**	**na**	**na**	**na**	**na**	**na**	**na**	**na**
RE00-22-248916	00-61577	56A 5S	North	3–4	SOIL	—	—	0.291 (J)	0.373	0.261	NA	NA	NA	NA	NA	NA	NA
RE00-22-248930	00-61581	2 5S	North	6.5–7.5	QBT3	—	—	0.18 (J)	0.247 (J)	0.183 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-22-248979	00-61582	2 5SE	North	8.5–9.5	QBT3	—	—	0.0184	0.0249 (J)	0.0171 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-22-248982	00-61582	2 5SE	North	10.5–11.5	QBT3	—	—	0.0325 (J)	0.0503	0.0364	NA	NA	NA	NA	NA	NA	NA
RE00-22-248934	00-61583	58 5E	South	0–1	SOIL	—	—	0.033 (J)	0.0441	0.0257 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-22-248935	00-61583	58 5E	South	4–5	SOIL	—	—	0.1	0.143	0.0716	NA	NA	NA	NA	NA	NA	NA
RE00-22-255298	00-61584	58 5SW	South	13–14	SOIL	—	—	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-248943	00-61586	94 5S	South	0–1	SOIL	—	—	—	0.0357 (J)	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-248944	00-61586	94 5S	South	4–5	SOIL	—	—	0.0439	0.0549	0.0329 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-22-248947	00-61587	94 5E	South	4–5	SOIL	—	—	0.137 (J)	0.155 (J)	0.105	NA	NA	NA	NA	NA	NA	NA
RE00-22-248948	00-61587	94 5E	South	9.1–9.9	QBT3	—	—	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-249009	00-61587	94 5E	South	10.9–11.9	QBT3	—	—	0.00605	0.00706	0.00504	NA	NA	NA	NA	NA	NA	NA
RE00-22-249010	00-61587	94 5E	South	12.9–13.9	QBT3	—	—	0.00263 (J)	0.00328	0.00263 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-22-248949	00-61588	94 5W	South	0–1	SOIL	—	—	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-248950	00-61588	94 5W	South	4–5	SOIL	—	—	0.0225 (J)	0.0262 (J)	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-248952	00-61589	29 5W	North	0–1	SOIL	—	—	—	—	—	1.77E-05 (J+)	1.22E-06 (J)	—	—	—	—	1.68E-06 (J)
RE00-22-248953	00-61589	29 5W	North	4–5	SOIL	—	—	0.131 (J)	0.16	0.102 (J)	4.05E-05	3.59E-06 (J)	—	—	2.36E-06 (J)	4.59E-07 (J)	7.27E-06 (J)
RE00-22-248954	00-61589	29 5W	North	7–8	QBT3	—	—	0.00842	0.00983	0.00632	6.62E-06 (J)	—	—	—	—	—	—
RE00-22-248955	00-61589	29 5W	North	11.5–12.5	QBT3	—	—	0.0106 (J)	0.0123 (J)	—	8.56E-06 (J)	—	—	—	5.53E-07 (J)	—	5.53E-07 (J)
RE00-22-248956	00-61590	95 5W	South	0–1	SOIL	—	—	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-248957	00-61590	95 5W	South	3–4	SOIL	—	0.00873	0.088	0.11	0.066 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-22-248958	00-61590	95 5W	South	6–7	QBT3	—	—	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-248960	00-61591	1 5S	North	3–4	SOIL	—	0.0019 (J)	0.189 (J+)	0.267 (J+)	0.189 (J+)	NA	NA	NA	NA	NA	NA	NA
RE00-22-248961	00-61591	1 5S	North	6–7	QBT3	—	—	0.0125 (J)	0.0179	0.0125 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-22-248962	00-61592	1 5SW	North	0–1	SOIL	—	—	—	0.0204 (J)	—	NA	NA	NA	NA	NA	NA	NA

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Isopropyltoluene[4-]	Methylene Chloride	Methylnaphthalene[1-]	Methylnaphthalene[2-]	Naphthalene	Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-]	Octachlorodibenzofuran[1,2,3,4,6,7,8,9-]	Pentachlorodibenzodioxin[1,2,3,7,8-]	Pentachlorodibenzodioxins (Total)	Pentachlorodibenzofuran[1,2,3,7,8-]	Pentachlorodibenzofuran[2,3,4,7,8-]	Pentachlorodibenzofurans (Totals)
Construction Worker SSL[b]						**2740[m]**	**1210**	**6060**	**1000**	**159**	**na**	**na**	**na**	**na**	**na**	**na**	**na**
Industrial SSL[b]						**14,200[m]**	**5130**	**813**	**3370**	**108**	**na**	**na**	**na**	**na**	**na**	**na**	**na**
Recreational SSL[f]						**43,100[m]**	**3610**	**743**	**1150**	**1930**	**na**	**na**	**na**	**na**	**na**	**na**	**na**
Residential SSL[c]						**2360[m]**	**409**	**172**	**232**	**22.6**	**na**	**na**	**na**	**na**	**na**	**na**	**na**
RE00-22-248963	00-61592	1 5SW	North	3–4	SOIL	—	—	0.029	0.0436	0.0381	NA	NA	NA	NA	NA	NA	NA
RE00-22-248964	00-61592	1 5SW	North	6–7	QBT3	—	—	0.012 (J)	0.0154 (J)	0.0137 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-22-248965	00-61593	1 5NE	North	0–1	SOIL	—	—	0.137	0.185	0.13	NA	NA	NA	NA	NA	NA	NA
RE00-22-248966	00-61593	1 5NE	North	3–4	SOIL	—	0.002 (J)	0.06 (J)	0.0836 (J)	0.0436	NA	NA	NA	NA	NA	NA	NA
RE00-22-248967	00-61593	1 5NE	North	6–7	QBT3	—	0.0161	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-248968	00-61594	1 5NW	North	0–1	SOIL	—	—	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-248969	00-61594	1 5NW	North	3–4	SOIL	—	—	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-248970	00-61594	1 5NW	North	6–7	QBT3	—	0.00461 (J)	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-248985	00-61599	2 10N	North	6.5–7.5	QBT3	—	—	0.0564 (J)	0.0803 (J)	0.0564 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-22-248986	00-61600	22 5NE	North	0–1	SOIL	—	—	—	—	—	3.12E-05 (J+)	2.83E-06 (J)	—	—	—	—	1.23E-06 (J)
RE00-22-248987	00-61600	22 5NE	North	4–5	SOIL	—	—	0.199	0.285 (J)	0.171	0.000284	1.29E-05	8.74E-07 (J)	1.91E-06 (J)	9.05E-07 (J)	1.62E-06 (J)	3.75E-05 (J)
RE00-22-248988	00-61600	22 5NE	North	11.9–12.9	QBT3	—	—	0.0345 (J)	0.0483 (J)	—	3.74E-05 (J+)	2.08E-06 (J)	—	—	—	4.19E-07 (J)	4.84E-06 (J)
RE00-22-248989	00-61601	56A 10W	North	0–1	SOIL	—	—	0.0245	0.0297	0.0192	NA	NA	NA	NA	NA	NA	NA
RE00-22-248990	00-61601	56A 10W	North	3–4	SOIL	—	—	0.0163	0.0212 (J)	0.0145 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-22-248991	00-61601	56A 10W	North	11.6–12.6	QBT3	—	—	0.0103 (J)	0.012 (J)	0.00856 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-22-248992	00-61602	94 10SE	South	0–1	SOIL	—	—	0.023	0.0265	0.0159 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-22-248994	00-61602	94 10SE	South	9.1–9.9	QBT3	—	—	0.00538	0.0108 (J)	0.0104 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-22-249014	00-61609	94 10S	South	4–5	SOIL	—	—	0.0398	0.0597 (J)	0.0326	NA	NA	NA	NA	NA	NA	NA
RE00-22-249015	00-61609	94 10S	South	9.1–9.9	QBT3	—	—	0.00371	0.00438	0.0027 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-22-249019	00-61611	92 5NW	South	0–1	SOIL	—	—	0.0537	0.0609	0.0358	3.51E-05 (J+)	4E-06 (J)	—	—	1.95E-06 (J)	—	5.18E-06 (J)
RE00-22-249020	00-61611	92 5NW	South	3–4	SOIL	—	—	0.0385	0.0463	0.027 (J)	3.86E-05 (J+)	2.42E-06 (J)	—	—	1.33E-06 (J)	—	3.71E-06 (J)
RE00-22-249021	00-61611	92 5NW	South	7.7–8.7	QBT3	—	—	—	0.0171 (J)	—	—	9.51E-07 (J)	—	—	—	—	—
RE00-22-249022	00-61612	22 10E	North	0–1	SOIL	0.00222	—	0.0242 (J)	0.0276 (J)	0.0207 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-22-249023	00-61612	22 10E	North	4–5	SOIL	—	—	0.0641 (J)	0.0854 (J)	0.0587 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-22-249024	00-61612	22 10E	North	11.9–12.9	QBT3	—	—	0.0836 (J)	0.11 (J)	0.0714 (J)	NA	NA	NA	NA	NA	NA	NA

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Isopropyltoluene[4-]	Methylene Chloride	Methylnaphthalene[1-]	Methylnaphthalene[2-]	Naphthalene	Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-]	Octachlorodibenzofuran[1,2,3,4,6,7,8,9-]	Pentachlorodibenzodioxin[1,2,3,7,8-]	Pentachlorodibenzodioxins (Total)	Pentachlorodibenzofuran[1,2,3,7,8-]	Pentachlorodibenzofuran[2,3,4,7,8-]	Pentachlorodibenzofurans (Totals)
Construction Worker SSL[b]						**2740[m]**	**1210**	**6060**	**1000**	**159**	**na**	**na**	**na**	**na**	**na**	**na**	**na**
Industrial SSL[b]						**14,200[m]**	**5130**	**813**	**3370**	**108**	**na**	**na**	**na**	**na**	**na**	**na**	**na**
Recreational SSL[f]						**43,100[m]**	**3610**	**743**	**1150**	**1930**	**na**	**na**	**na**	**na**	**na**	**na**	**na**
Residential SSL[c]						**2360[m]**	**409**	**172**	**232**	**22.6**	**na**	**na**	**na**	**na**	**na**	**na**	**na**
RE00-22-249031	00-61616	27 5E	North	11.5–12.5	QBT3	—	—	0.00205 (J)	0.00273 (J)	0.00205 (J+)	NA	NA	NA	NA	NA	NA	NA
RE00-22-249036	00-61618	2V	North	10–11	QBT3	—	—	0.0239	0.0324	0.0222	NA	NA	NA	NA	NA	NA	NA
RE00-22-249037	00-61619	58 5N	South	4–5	SOIL	—	—	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-249038	00-61619	58 5N	South	7–8	QBT3	—	—	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-249064	00-61619	58 5N	South	13.9–14.9	QBT3	—	—	—	—	0.000366 (J)	7.55E-05 (J+)	7.89E-06 (J)	—	—	1.32E-06 (J)	—	3.13E-06 (J)
RE00-22-249065	00-61619	58 5N	South	15.9–16.9	QBT3	—	—	—	—	—	1.7E-05 (J+)	1.62E-06 (J)	—	—	—	—	—
RE00-22-249039	00-61620	00-196	North	9.5–10.5	QBT3	—	—	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-249041	00-61621	00-61521	North	9–10	QBT3	—	—	0.0297	0.0384	0.0262	NA	NA	NA	NA	NA	NA	NA
RE00-22-249042	00-61621	00-61521	North	11–12	QBT3	—	—	0.02	0.0267	0.0184	NA	NA	NA	NA	NA	NA	NA
RE00-22-249045	00-61622	22 5SE	North	11.9–12.9	QBT3	—	—	0.0177 (J)	0.0247 (J)	—	1.18E-05 (J+)	—	—	—	—	—	1.55E-06 (J)
RE00-22-249046	00-61623	17 5S	North	9–10	QBT3	—	—	0.00859 (J)	0.012 (J)	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-249047	00-61623	17 5S	North	11–12	QBT3	—	—	0.0324	0.0562 (J)	0.0307	NA	NA	NA	NA	NA	NA	NA
RE00-22-249049	00-61624	00-212	North	10–11	QBT3	—	—	—	0.00872 (J)	0.000598 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-22-249050	00-61625	00-61553	North	9–10	QBT3	—	—	0.0134 (J)	0.0168	0.0134 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-22-249051	00-61625	00-61553	North	11–12	QBT3	—	—	0.0285	0.0369	0.0269	NA	NA	NA	NA	NA	NA	NA
RE00-22-249025	00-61625	00-61553	North	13–14	QBT3	—	—	0.0104 (J)	0.0138 (J)	0.0104 (J)	1.71E-05 (J+)	1.9E-06 (J)	—	—	—	—	1.27E-06 (J)
RE00-22-249026	00-61625	00-61553	North	15–16	QBT3	—	—	—	0.00841 (J)	—	—	—	—	—	—	—	—
RE00-22-249053	00-61626	27 5W	North	8.5–9.5	QBT3	—	—	0.00272 (J)	0.00374	0.00272 (J+)	NA	NA	NA	NA	NA	NA	NA
RE00-22-249052	00-61626	27 5W	North	11.5–12.5	QBT3	—	—	0.00447	0.00516	0.00344 (J+)	NA	NA	NA	NA	NA	NA	NA
RE00-22-249055	00-61627	27 5N	North	11.5–12.5	QBT3	—	—	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-249056	00-61628	92 5S	South	7.7–8.7	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-249059	00-61630	00-210	North	9–10	QBT3	—	—	—	—	—	3.46E-06 (J)	—	—	—	—	—	—
RE00-22-249060	00-61630	00-210	North	11–12	QBT3	—	—	—	0.0346 (J)	—	1.09E-05	—	—	—	—	—	6.8E-07 (J)
RE00-22-250910	00-61651	2 10NW	North	0–1	SOIL	—	—	0.0666 (J)	0.0932 (J)	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-250911	00-61651	2 10NW	North	3–4	SOIL	—	—	0.13 (J)	0.187 (J)	0.148 (J)	NA	NA	NA	NA	NA	NA	NA

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Isopropyltoluene[4-]	Methylene Chloride	Methylnaphthalene[1-]	Methylnaphthalene[2-]	Naphthalene	Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-]	Octachlorodibenzofuran[1,2,3,4,6,7,8,9-]	Pentachlorodibenzodioxin[1,2,3,7,8-]	Pentachlorodibenzodioxins (Total)	Pentachlorodibenzofuran[1,2,3,7,8-]	Pentachlorodibenzofuran[2,3,4,7,8-]	Pentachlorodibenzofurans (Totals)
Construction Worker SSL[b]						**2740[m]**	**1210**	**6060**	**1000**	**159**	**na**	**na**	**na**	**na**	**na**	**na**	**na**
Industrial SSL[b]						**14,200[m]**	**5130**	**813**	**3370**	**108**	**na**	**na**	**na**	**na**	**na**	**na**	**na**
Recreational SSL[f]						**43,100[m]**	**3610**	**743**	**1150**	**1930**	**na**	**na**	**na**	**na**	**na**	**na**	**na**
Residential SSL[c]						**2360[m]**	**409**	**172**	**232**	**22.6**	**na**	**na**	**na**	**na**	**na**	**na**	**na**
RE00-22-250912	00-61651	2 10NW	North	6.5–7.5	QBT3	—	—	—	0.00204 (J)	0.0017 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-22-250916	00-61653	2 10SE	North	0–1	SOIL	—	—	0.187 (J)	0.254 (J)	0.177 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-22-250917	00-61653	2 10SE	North	3–4	SOIL	—	—	0.0231	0.0284 (J)	0.0231	NA	NA	NA	NA	NA	NA	NA
RE00-22-250918	00-61653	2 10SE	North	6.5–7.5	QBT3	—	—	—	0.0137 (J)	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-250919	00-61654	1 10SW	North	0–1	SOIL	—	—	0.01 (J)	0.0134 (J)	0.01 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-22-250920	00-61654	1 10SW	North	3–4	SOIL	—	—	0.022	0.0357	0.027 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-22-250921	00-61654	1 10SW	North	6.5–7.5	QBT3	—	—	0.145 (J)	0.241	0.188	NA	NA	NA	NA	NA	NA	NA
RE00-22-250922	00-61655	22 10SE	North	0–1	SOIL	—	—	0.0201	0.0256 (J)	0.0201 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-22-250923	00-61655	22 10SE	North	4–5	SOIL	—	—	0.0179 (J)	0.0226 (J)	0.0161 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-22-250924	00-61655	22 10SE	North	11.9–12.9	QBT3	—	0.00184 (J+)	0.00782	0.0102	0.0068	NA	NA	NA	NA	NA	NA	NA
RE00-22-250928	00-61657	22 10S	North	0–1	SOIL	—	—	0.0133 (J)	0.0191 (J)	0.0123 (J)	3.07E-05 (J)	2.24E-06 (J)	—	—	—	—	4.86E-06 (J)
RE00-22-250929	00-61657	22 10S	North	4–5	SOIL	—	—	0.00361 (J)	0.00434 (J)	0.00325 (J)	0.000278 (J)	2.19E-06 (J)	5.8E-07 (J)	2.96E-06 (J)	—	—	1.36E-06 (J)
RE00-22-250930	00-61657	22 10S	North	11.9–12.9	QBT3	—	—	0.00869 (J)	0.0136 (J)	0.00904 (J)	1.96E-05 (J)	—	—	—	—	—	—
RE00-22-250931	00-61658	56A 10S	South	0–1	SOIL	—	—	0.0156 (J)	0.0191 (J)	0.0156 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-22-250932	00-61658	56A 10S	South	3–4	SOIL	—	—	0.0901	0.117	0.081	NA	NA	NA	NA	NA	NA	NA
RE00-22-250933	00-61658	56A 10S	South	11.6–12.6	QBT3	—	—	0.0308 (J)	0.0384	0.0263 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-22-250934	00-61659	56A 10SE	North	0–1	SOIL	—	—	0.00492 (J)	0.00623 (J)	0.0125 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-22-250935	00-61659	56A 10SE	North	3–4	SOIL	—	—	0.297	0.384	0.248	NA	NA	NA	NA	NA	NA	NA
RE00-22-250936	00-61659	56A 10SE	North	11.6–12.6	QBT3	—	—	0.0182 (J)	0.0243 (J)	0.0172 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-22-250937	00-61660	56A 10SW	North	0–1	SOIL	—	—	0.012 (J)	0.0137 (J)	0.0103 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-22-250938	00-61660	56A 10SW	North	3–4	SOIL	—	—	0.111 (J)	0.137 (J)	0.0965 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-22-250939	00-61660	56A 10SW	North	11.6–12.6	QBT3	—	—	0.0101	0.0122	0.00909	NA	NA	NA	NA	NA	NA	NA
RE00-22-250940	00-61661	94 10SW	South	0–1	SOIL	—	0.00179 (J)	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-250941	00-61661	94 10SW	South	4–5	SOIL	—	0.00216 (J)	0.0365	0.0511	0.0219 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-22-250942	00-61661	94 10SW	South	9.1–9.9	QBT3	—	—	0.0236	0.0327	0.0218	NA	NA	NA	NA	NA	NA	NA

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Isopropyltoluene[4-]	Methylene Chloride	Methylnaphthalene[1-]	Methylnaphthalene[2-]	Naphthalene	Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-]	Octachlorodibenzofuran[1,2,3,4,6,7,8,9-]	Pentachlorodibenzodioxin[1,2,3,7,8-]	Pentachlorodibenzodioxins (Total)	Pentachlorodibenzofuran[1,2,3,7,8-]	Pentachlorodibenzofuran[2,3,4,7,8-]	Pentachlorodibenzofurans (Totals)
Construction Worker SSL[b]						**2740[m]**	**1210**	**6060**	**1000**	**159**	**na**	**na**	**na**	**na**	**na**	**na**	**na**
Industrial SSL[b]						**14,200[m]**	**5130**	**813**	**3370**	**108**	**na**	**na**	**na**	**na**	**na**	**na**	**na**
Recreational SSL[f]						**43,100[m]**	**3610**	**743**	**1150**	**1930**	**na**	**na**	**na**	**na**	**na**	**na**	**na**
Residential SSL[c]						**2360[m]**	**409**	**172**	**232**	**22.6**	**na**	**na**	**na**	**na**	**na**	**na**	**na**
RE00-22-252842	00-61700	2 14N	North	6.5–7.5	QBT3	—	—	0.011	0.0185 (J)	0.0167 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-22-252845	00-61701	2 15NNE	North	6.5–7.5	QBT3	—	—	0.0281	0.0579 (J)	0.0281	NA	NA	NA	NA	NA	NA	NA
RE00-22-253161	00-61705	29 10S	North	0–1	SOIL	—	—	0.00462	0.00534	0.00391	NA	NA	NA	NA	NA	NA	NA
RE00-22-253162	00-61705	29 10S	North	4–5	SOIL	—	0.00172 (J)	0.00258 (J)	0.00295 (J)	0.00221 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-22-253163	00-61705	29 10S	North	7–8	SOIL	—	—	—	0.00201 (J)	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-253164	00-61705	29 10S	North	9–10	SOIL	—	—	0.00193 (J)	0.00232 (J)	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-253165	00-61705	29 10S	North	11–12	QBT3	—	—	0.00343	0.00445	0.00377	NA	NA	NA	NA	NA	NA	NA
RE00-22-253167	00-61706	29 10WSW	North	0–1	SOIL	—	—	0.00781	0.00923	0.00603	NA	NA	NA	NA	NA	NA	NA
RE00-22-253168	00-61706	29 10WSW	North	4–5	SOIL	—	0.00421 (J)	0.0446 (J)	0.0603 (J)	0.027	NA	NA	NA	NA	NA	NA	NA
RE00-22-253169	00-61706	29 10WSW	North	7–8	QBT3	—	—	0.00205 (J)	0.00239 (J)	0.00171 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-22-253170	00-61706	29 10WSW	North	9–10	QBT3	—	—	0.00457	0.00598	0.00457	NA	NA	NA	NA	NA	NA	NA
RE00-22-253171	00-61706	29 10WSW	North	11–12	QBT3	—	—	—	0.00174 (J)	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-253172	00-61707	29 10SE	North	0–1	SOIL	—	—	0.0308 (J)	0.0371	0.0251 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-22-253173	00-61707	29 10SE	North	4–5	SOIL	—	—	0.103 (J)	0.124 (J)	0.0783 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-22-253174	00-61707	29 10SE	North	7–8	SOIL	—	—	0.0865	0.107	0.0709	NA	NA	NA	NA	NA	NA	NA
RE00-22-253175	00-61707	29 10SE	North	9–10	SOIL	—	—	0.0517	0.0645	0.0432	NA	NA	NA	NA	NA	NA	NA
RE00-22-253176	00-61707	29 10SE	North	11–12	QBT3	—	—	0.0202 (J)	0.0259 (J)	0.017 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-22-253177	00-61708	29 15SW	North	0–1	SOIL	—	—	0.0109 (J)	0.0145 (J)	0.00908 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-22-253178	00-61708	29 15SW	North	4–5	SOIL	—	—	—	0.00318 (J+)	0.00248 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-22-253179	00-61708	29 15SW	North	7–8	QBT3	—	—	0.00571	0.00772 (J+)	0.00571	NA	NA	NA	NA	NA	NA	NA
RE00-22-253180	00-61708	29 15SW	North	9–10	QBT3	—	—	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-253181	00-61708	29 15SW	North	11–12	QBT3	—	—	0.0119	0.0163 (J+)	0.0115	NA	NA	NA	NA	NA	NA	NA
RE00-22-253182	00-61709	56A 5WV	North	13.6–14.6	QBT3	—	0.00328 (J)	0.00217 (J)	0.0029 (J)	0.00181 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-22-253184	00-61711	56A 10NW	North	0–1	SOIL	—	—	0.0253	0.0334 (J+)	0.0197	NA	NA	NA	NA	NA	NA	NA
RE00-22-253185	00-61711	56A 10NW	North	3–4	SOIL	—	—	0.078	0.1 (J+)	0.0669	NA	NA	NA	NA	NA	NA	NA

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Isopropyltoluene[4-]	Methylene Chloride	Methylnaphthalene[1-]	Methylnaphthalene[2-]	Naphthalene	Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-]	Octachlorodibenzofuran[1,2,3,4,6,7,8,9-]	Pentachlorodibenzodioxin[1,2,3,7,8-]	Pentachlorodibenzodioxins (Total)	Pentachlorodibenzofuran[1,2,3,7,8-]	Pentachlorodibenzofuran[2,3,4,7,8-]	Pentachlorodibenzofurans (Totals)
Construction Worker SSL[b]						**2740[m]**	**1210**	**6060**	**1000**	**159**	**na**	**na**	**na**	**na**	**na**	**na**	**na**
Industrial SSL[b]						**14,200[m]**	**5130**	**813**	**3370**	**108**	**na**	**na**	**na**	**na**	**na**	**na**	**na**
Recreational SSL[f]						**43,100[m]**	**3610**	**743**	**1150**	**1930**	**na**	**na**	**na**	**na**	**na**	**na**	**na**
Residential SSL[c]						**2360[m]**	**409**	**172**	**232**	**22.6**	**na**	**na**	**na**	**na**	**na**	**na**	**na**
RE00-22-253186	00-61711	56A 10NW	North	11.6–12.6	QBT3	—	—	0.0139	0.0186 (J+)	0.0113	NA	NA	NA	NA	NA	NA	NA
RE00-22-253190	00-61712	94 15SW	South	0–1	SOIL	—	—	0.0744	0.106 (J+)	0.0567	3.56E-05	2.66E-06 (J)	—	—	—	—	5.39E-06 (J)
RE00-22-253191	00-61712	94 15SW	South	4–5	SOIL	—	—	0.0135	0.0203 (J+)	0.00924	2.94E-06 (J)	—	—	—	—	—	—
RE00-22-253192	00-61712	94 15SW	South	9.1–9.9	QBT3	—	0.00254 (J)	0.025 (J)	0.0311 (J)	0.0211 (J)	2.61E-05	2.97E-06 (J)	—	—	—	—	2.27E-06 (J)
RE00-22-253193	00-61713	94 15WSW	South	0–1	SOIL	—	—	0.0452	0.0591	0.0347	7.51E-05	7.04E-06 (J)	—	6.78E-07 (J)	5.97E-07 (J)	1.45E-06 (J)	3.03E-05 (J)
RE00-22-253194	00-61713	94 15WSW	South	4–5	SOIL	—	0.00289 (J)	0.0771	0.0989	0.0428	4.81E-05	2.1E-06 (J)	—	—	4.6E-07 (J)	—	1.42E-06 (J)
RE00-22-253195	00-61713	94 15WSW	South	9.1–9.9	SOIL	—	0.00555 (J)	0.0196 (J)	0.0259 (J)	0.018 (J)	1.04E-05	—	—	—	—	—	—
RE00-22-253196	00-61714	94 10W	South	0–1	SOIL	—	0.00246 (J)	—	—	—	5.33E-05	7.06E-06 (J)	—	—	—	—	2.22E-06 (J)
RE00-22-253197	00-61714	94 10W	South	4–5	SOIL	—	—	0.0254 (J)	0.0325 (J)	0.0228 (J)	1.22E-05	6.65E-07 (J)	—	—	4.27E-07 (J)	—	6.57E-07 (J)
RE00-22-253198	00-61714	94 10W	South	9.1–9.9	QBT3	—	—	0.0721	0.0981	0.0696	9.81E-06	9.4E-07 (J)	—	—	—	—	8.16E-07 (J)
RE00-22-253202	00-61716	58 10S	South	0–1	SOIL	—	0.00237 (J)	0.0196	0.0327 (J)	0.0189 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-22-253203	00-61716	58 10S	South	4–5	QBT3	—	0.23 (J)	0.0227 (J)	0.0309 (J)	0.0148 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-22-253204	00-61716	58 10S	South	7–8	QBT3	—	0.00261 (J)	0.0174	0.0269 (J)	0.0143 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-22-253205	00-61716	58 10S	South	9–10	QBT3	—	0.00259 (J)	0.00271 (J)	0.00339	0.00203 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-22-253206	00-61716	58 10S	South	11–12	QBT3	—	0.00387 (J)	0.00532	0.00731	0.00365	NA	NA	NA	NA	NA	NA	NA
RE00-22-253207	00-61717	58 10SE	South	0–1	SOIL	—	—	0.0138 (J)	0.0171 (J)	0.0022 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-22-253208	00-61717	58 10SE	South	4–5	QBT3	—	—	0.00646 (J)	0.0085 (J)	0.0068 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-22-253209	00-61717	58 10SE	South	7–8	QBT3	—	—	0.00632 (J)	0.00808 (J)	0.00597 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-22-253210	00-61717	58 10SE	South	9–10	QBT3	—	—	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-253211	00-61717	58 10SE	South	11–12	QBT3	—	—	0.00236 (J)	0.0027 (J)	0.00708 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-22-255274	00-61722	2 25ENE	North	0–1	SOIL	—	0.00281 (J)	0.035 (J)	0.0476 (J)	0.0327 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-22-255275	00-61722	2 25ENE	North	3–4	SOIL	—	0.00187 (J)	0.0108 (J)	0.0141 (J)	0.00868 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-22-255276	00-61722	2 25ENE	North	6.5–7.5	QBT3	—	0.00173 (J)	0.00547 (J)	0.00752 (J)	0.00547 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-22-255285	00-61725	2 19N	North	6.5–7.5	QBT3	—	—	0.0399	0.0555 (J)	0.0347	NA	NA	NA	NA	NA	NA	NA
RE00-22-255286	00-61726	2 15NW	North	0–1	SOIL	—	0.00181 (J)	0.209 (J)	0.265 (J)	0.16	NA	NA	NA	NA	NA	NA	NA

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Isopropyltoluene[4-]	Methylene Chloride	Methylnaphthalene[1-]	Methylnaphthalene[2-]	Naphthalene	Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-]	Octachlorodibenzofuran[1,2,3,4,6,7,8,9-]	Pentachlorodibenzodioxin[1,2,3,7,8-]	Pentachlorodibenzodioxins (Total)	Pentachlorodibenzofuran[1,2,3,7,8-]	Pentachlorodibenzofuran[2,3,4,7,8-]	Pentachlorodibenzofurans (Totals)
Construction Worker SSL[b]						**2740[m]**	**1210**	**6060**	**1000**	**159**	**na**	**na**	**na**	**na**	**na**	**na**	**na**
Industrial SSL[b]						**14,200[m]**	**5130**	**813**	**3370**	**108**	**na**	**na**	**na**	**na**	**na**	**na**	**na**
Recreational SSL[f]						**43,100[m]**	**3610**	**743**	**1150**	**1930**	**na**	**na**	**na**	**na**	**na**	**na**	**na**
Residential SSL[c]						**2360[m]**	**409**	**172**	**232**	**22.6**	**na**	**na**	**na**	**na**	**na**	**na**	**na**
RE00-22-255287	00-61726	2 15NW	North	3–4	SOIL	—	—	0.0461	0.0645 (J)	0.0405	NA	NA	NA	NA	NA	NA	NA
RE00-22-255288	00-61726	2 15NW	North	6.5–7.5	SOIL	—	—	0.0173 (J)	0.022 (J)	0.0151 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-22-255289	00-61727	2 20NW	North	0–1	SOIL	—	0.00229 (J)	0.0338	0.0534 (J)	0.0302	NA	NA	NA	NA	NA	NA	NA
RE00-22-255290	00-61727	2 20NW	North	3–4	SOIL	—	0.00248 (J)	0.213 (J)	0.259	0.171 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-22-255291	00-61727	2 20NW	North	6.5–7.5	SOIL	—	0.00191 (J)	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-22-255294	00-61728	2 24N	North	6.5–7.5	QBT3	—	0.00179 (J)	0.0144	0.0206 (J)	0.0131 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-22-255295	00-61729	2 24NE	North	0–1	SOIL	—	0.00234 (J)	0.196 (J)	0.325 (J)	0.207 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-22-255296	00-61729	2 24NE	North	3–4	SOIL	—	0.00191 (J)	—	0.00907	0.0058	NA	NA	NA	NA	NA	NA	NA
RE00-22-255297	00-61729	2 24NE	North	6.5–7.5	QBT3	—	0.00215 (J)	0.073	0.109	0.0699	NA	NA	NA	NA	NA	NA	NA
RE00-23-259861	00-61736	SE3	North	0–1	SOIL	—	—	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-23-259864	00-61737	NE2	North	0–1	SOIL	—	0.00199 (J)	0.0876	0.116 (J)	0.0751	NA	NA	NA	NA	NA	NA	NA
RE00-23-259865	00-61737	NE2	North	3–4	SOIL	—	0.00187 (J)	0.0118	0.0163 (J)	0.0111	NA	NA	NA	NA	NA	NA	NA
RE00-23-259866	00-61737	NE2	North	6.5–7.5	QBT3	—	0.00532 (J)	0.0149	0.0199 (J)	0.0128	NA	NA	NA	NA	NA	NA	NA
RE00-23-259867	00-61738	NE1	North	0–1	SOIL	—	—	0.0864	0.119 (J)	0.0756 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-23-259868	00-61738	NE1	North	3–4	SOIL	—	—	0.0991	0.129 (J)	0.08	NA	NA	NA	NA	NA	NA	NA
RE00-23-259869	00-61738	NE1	North	6.5–7.5	QBT3	—	—	0.0471	0.0628 (J)	0.0401	NA	NA	NA	NA	NA	NA	NA
RE00-23-282088	00-61739	NE6	North	17–18	QBT3	—	—	0.025 (J)	0.0356	0.024 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-23-282089	00-61739	NE6	North	19–20	QBT3	—	—	0.11	0.146	0.0977	NA	NA	NA	NA	NA	NA	NA
RE00-23-259873	00-61740	2 25NW	North	0–1	SOIL	—	—	0.147 (J)	0.196 (J)	0.133 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-23-259874	00-61740	2 25NW	North	3–4	SOIL	—	0.00239 (J)	0.159 (J)	0.218 (J)	0.148 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-23-259875	00-61740	2 25NW	North	6.5–7.5	QBT3	—	—	0.0442 (J)	0.0867 (J)	0.0655 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-23-259876	00-61741	N1	North	0–1	SOIL	0.00036 (J)	—	0.1 (J)	0.137 (J)	0.102 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-23-259877	00-61741	N1	North	3–4	SOIL	—	—	0.132 (J)	0.176 (J)	0.112 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-23-259878	00-61741	N1	North	6.5–7.5	QBT3	—	—	0.0266 (J)	0.0372 (J)	0.0248 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-23-259882	00-61743	SE2	North	0–1	SOIL	—	—	—	—	—	2.09E-05 (J)	9.68E-07 (J)	—	—	—	—	1.49E-06 (J)

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Isopropyltoluene[4-]	Methylene Chloride	Methylnaphthalene[1-]	Methylnaphthalene[2-]	Naphthalene	Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-]	Octachlorodibenzofuran[1,2,3,4,6,7,8,9-]	Pentachlorodibenzodioxin[1,2,3,7,8-]	Pentachlorodibenzodioxins (Total)	Pentachlorodibenzofuran[1,2,3,7,8-]	Pentachlorodibenzofuran[2,3,4,7,8-]	Pentachlorodibenzofurans (Totals)
Construction Worker SSL[b]						**2740[m]**	**1210**	**6060**	**1000**	**159**	**na**	**na**	**na**	**na**	**na**	**na**	**na**
Industrial SSL[b]						**14,200[m]**	**5130**	**813**	**3370**	**108**	**na**	**na**	**na**	**na**	**na**	**na**	**na**
Recreational SSL[f]						**43,100[m]**	**3610**	**743**	**1150**	**1930**	**na**	**na**	**na**	**na**	**na**	**na**	**na**
Residential SSL[c]						**2360[m]**	**409**	**172**	**232**	**22.6**	**na**	**na**	**na**	**na**	**na**	**na**	**na**
RE00-23-259883	00-61743	SE2	North	3–4	SOIL	—	—	—	0.00222 (J)	—	2.85E-05 (J)	—	—	—	—	—	—
RE00-23-259884	00-61743	SE2	North	6.5–7.5	QBT3	—	—	—	—	—	1.46E-06 (J)	—	—	—	—	—	—
RE00-23-265182	00-61744	N2	North	0–1	SOIL	—	—	0.0535	0.0678	0.0464	0.000115	5.7E-06 (J)	—	—	4.67E-07 (J)	—	1.72E-06 (J)
RE00-23-265183	00-61744	N2	North	3–4	SOIL	—	—	0.00359 (J)	0.00518	0.00359 (J)	—	—	—	—	—	—	—
RE00-23-265184	00-61744	N2	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-23-265179	00-61745	NE10	North	0–1	SOIL	—	0.00222 (J)	0.136	0.195	—	NA	NA	NA	NA	NA	NA	NA
RE00-23-265180	00-61745	NE10	North	3–4	SOIL	—	—	0.0126	0.0186	—	NA	NA	NA	NA	NA	NA	NA
RE00-23-264877	00-61745	NE10	North	6.5–7.5	QBT3	—	—	0.0125 (J)	0.017 (J)	0.0142 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-23-264878	00-61746	N5	North	0–1	SOIL	—	—	0.15 (J)	0.173 (J)	0.132 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-23-264879	00-61746	N5	North	3–4	SOIL	—	—	0.00296 (J)	0.00443 (J)	0.00332 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-23-264880	00-61746	N5	North	6.5–7.5	QBT3	—	—	0.00684 (J)	0.012 (J)	0.00649 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-23-264881	00-61747	N4	North	0–1	SOIL	—	—	0.0932 (J)	0.128 (J)	0.0879 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-23-264882	00-61747	N4	North	3–4	SOIL	—	—	0.00522 (J)	0.00783 (J)	0.00559 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-23-264883	00-61747	N4	North	6.5–7.5	QBT3	—	—	0.00237 (J)	0.00316 (J)	0.00237 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-23-264884	00-61748	NE4	North	0–1	SOIL	—	—	0.0932 (J)	0.116 (J)	0.0862 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-23-264885	00-61748	NE4	North	3–4	SOIL	—	—	0.132 (J)	0.178	0.131 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-23-264886	00-61748	NE4	North	6.5–7.5	SOIL	—	0.00267 (J)	0.158	0.218 (J)	0.141	NA	NA	NA	NA	NA	NA	NA
RE00-23-265185	00-61749	N3	North	0–1	SOIL	—	—	0.0399 (J-)	0.0518 (J-)	0.0314 (J-)	4.8E-05 (J+)	4.47E-06 (J)	—	—	—	—	3.17E-06 (J)
RE00-23-265186	00-61749	N3	North	3–4	SOIL	—	—	0.00258 (J)	0.00368	0.00258 (J)	—	—	—	—	—	—	—
RE00-23-265187	00-61749	N3	North	6.5–7.5	QBT3	—	—	0.0118	0.0157	0.0112	—	—	—	—	—	—	—
RE00-23-265188	00-61750	NE3	North	0–1	SOIL	—	0.00174 (J)	0.784	1.02 (J)	0.677	8.38E-05 (J+)	6.96E-06 (J)	—	—	—	1.97E-06 (J)	2.78E-05 (J)
RE00-23-265189	00-61750	NE3	North	3–4	SOIL	—	—	0.0261 (J)	0.0338 (J)	0.0213 (J)	—	—	—	—	—	—	5.26E-07 (J)
RE00-23-265190	00-61750	NE3	North	6.5–7.5	QBT3	—	—	0.0377	0.0509 (J)	0.0339 (J)	—	—	—	—	—	—	—
RE00-23-264893	00-61751	2 20NEV	North	9–10	QBT3	—	—	0.124	0.174 (J)	0.117	NA	NA	NA	NA	NA	NA	NA
RE00-23-264894	00-61751	2 20NEV	North	11–12	QBT3	—	0.00224 (J)	0.108	0.143 (J)	0.0941	NA	NA	NA	NA	NA	NA	NA

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Isopropyltoluene[4-]	Methylene Chloride	Methylnaphthalene[1-]	Methylnaphthalene[2-]	Naphthalene	Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-]	Octachlorodibenzofuran[1,2,3,4,6,7,8,9-]	Pentachlorodibenzodioxin[1,2,3,7,8-]	Pentachlorodibenzodioxins (Total)	Pentachlorodibenzofuran[1,2,3,7,8-]	Pentachlorodibenzofuran[2,3,4,7,8-]	Pentachlorodibenzofurans (Totals)
Construction Worker SSL[b]						**2740[m]**	**1210**	**6060**	**1000**	**159**	**na**	**na**	**na**	**na**	**na**	**na**	**na**
Industrial SSL[b]						**14,200[m]**	**5130**	**813**	**3370**	**108**	**na**	**na**	**na**	**na**	**na**	**na**	**na**
Recreational SSL[f]						**43,100[m]**	**3610**	**743**	**1150**	**1930**	**na**	**na**	**na**	**na**	**na**	**na**	**na**
Residential SSL[c]						**2360[m]**	**409**	**172**	**232**	**22.6**	**na**	**na**	**na**	**na**	**na**	**na**	**na**
RE00-23-264896	00-61752	N6	North	0–1	SOIL	—	—	0.236 (J)	0.318 (J)	0.243 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-23-264897	00-61752	N6	North	3–4	SOIL	—	0.00249 (J)	0.294	0.402	0.266 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-23-264898	00-61752	N6	North	6.5–7.5	QBT3	—	—	0.0379	0.0604 (J)	0.0362	NA	NA	NA	NA	NA	NA	NA
RE00-23-264899	00-61753	NE5	North	0–1	SOIL	—	—	0.0996	0.135	0.0854	NA	NA	NA	NA	NA	NA	NA
RE00-23-264900	00-61753	NE5	North	3–4	SOIL	—	—	0.0182 (J)	0.0256	0.02 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-23-264901	00-61753	NE5	North	6.5–7.5	QBT3	—	0.00279 (J)	0.143	0.198 (J)	0.132	NA	NA	NA	NA	NA	NA	NA
RE00-23-264902	00-61754	SE1V	North	9–10	QBT3	—	—	—	0.00166 (J)	—	NA	NA	NA	NA	NA	NA	NA
RE00-23-264903	00-61754	SE1V	North	11–12	QBT3	—	—	0.0041	0.00478	0.00376	NA	NA	NA	NA	NA	NA	NA
RE00-23-264909	00-61756	SE10	North	3–4	SOIL	—	—	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-23-267856	00-61757	SE4	North	0–1	SOIL	—	—	0.00227 (J)	0.00265 (J)	0.00227 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-23-267857	00-61757	SE4	North	3–4	SOIL	—	—	0.00257 (J)	0.00294 (J)	0.00257 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-23-267858	00-61757	SE4	North	6.5–7.5	QBT3	—	—	0.00477	0.00579 (J)	0.00477 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-23-267859	00-61758	SE7	North	0–1	SOIL	—	—	0.00381	0.00457 (J)	0.00381 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-23-267860	00-61758	SE7	North	3–4	SOIL	—	—	0.0265	0.0312 (J)	0.0189 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-23-267861	00-61758	SE7	North	6.5–7.5	QBT3	—	—	0.00936	0.0108 (J)	0.00624 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-23-267871	00-61762	NE7	North	0–1	SOIL	—	—	0.151 (J)	0.2 (J)	0.147 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-23-267872	00-61762	NE7	North	3–4	SOIL	—	—	0.0103	0.0122	0.0096	NA	NA	NA	NA	NA	NA	NA
RE00-23-267873	00-61762	NE7	North	6–7	QBT3	—	—	0.0122	0.016	0.0118	NA	NA	NA	NA	NA	NA	NA
RE00-23-267874	00-61763	NE28	North	0–1	SOIL	—	—	0.056	0.077 (J)	0.0494	NA	NA	NA	NA	NA	NA	NA
RE00-23-267875	00-61763	NE28	North	3–4	SOIL	—	—	0.00463	0.0057	0.00356	NA	NA	NA	NA	NA	NA	NA
RE00-23-267876	00-61763	NE28	North	5–6	QBT3	—	—	0.00275 (J)	0.00344	0.00241 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-23-267877	00-61764	NE23	North	0–1	SOIL	—	—	0.284	0.372 (J)	0.252	NA	NA	NA	NA	NA	NA	NA
RE00-23-267878	00-61764	NE23	North	3–4	SOIL	—	—	0.0111 (J)	0.014 (J)	0.00862	NA	NA	NA	NA	NA	NA	NA
RE00-23-267879	00-61764	NE23	North	5–6	QBT3	—	—	0.00684	0.0106 (J)	0.00752	NA	NA	NA	NA	NA	NA	NA
RE00-23-267882	00-61765	NE24	North	5–6	QBT3	—	—	0.0307 (J)	0.0376 (J)	0.0275 (J)	NA	NA	NA	NA	NA	NA	NA

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Isopropyltoluene[4-]	Methylene Chloride	Methylnaphthalene[1-]	Methylnaphthalene[2-]	Naphthalene	Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-]	Octachlorodibenzofuran[1,2,3,4,6,7,8,9-]	Pentachlorodibenzodioxin[1,2,3,7,8-]	Pentachlorodibenzodioxins (Total)	Pentachlorodibenzofuran[1,2,3,7,8-]	Pentachlorodibenzofuran[2,3,4,7,8-]	Pentachlorodibenzofurans (Totals)
Construction Worker SSL[b]						**2740[m]**	**1210**	**6060**	**1000**	**159**	**na**	**na**	**na**	**na**	**na**	**na**	**na**
Industrial SSL[b]						**14,200[m]**	**5130**	**813**	**3370**	**108**	**na**	**na**	**na**	**na**	**na**	**na**	**na**
Recreational SSL[f]						**43,100[m]**	**3610**	**743**	**1150**	**1930**	**na**	**na**	**na**	**na**	**na**	**na**	**na**
Residential SSL[c]						**2360[m]**	**409**	**172**	**232**	**22.6**	**na**	**na**	**na**	**na**	**na**	**na**	**na**
RE00-23-267886	00-61767	NE26	North	0–1	SOIL	—	0.00219 (J)	0.285 (J)	0.377 (J-)	0.24	NA	NA	NA	NA	NA	NA	NA
RE00-23-267887	00-61767	NE26	North	3–4	SOIL	—	—	—	0.0018 (J-)	—	NA	NA	NA	NA	NA	NA	NA
RE00-23-267888	00-61767	NE26	North	5–6	QBT3	—	—	0.00279 (J-)	0.00384 (J-)	0.00244 (J-)	NA	NA	NA	NA	NA	NA	NA
RE00-23-267889	00-61768	NE29	North	0.5–1.5	SOIL	—	0.00232 (J)	0.0277 (J)	0.0355 (J)	0.024 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-23-267890	00-61768	NE29	North	3.5–4.5	QBT3	—	0.00201 (J)	0.00491 (J)	0.00631 (J)	0.0042 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-23-267891	00-61768	NE29	North	5.5–6.5	QBT3	—	0.00182 (J)	0.0038 (J)	0.00483 (J)	0.00311 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-23-271182	00-61775	NE34	North	3.5–4.5	QBT3	—	—	—	—	—	2E-06 (J)	—	—	—	—	—	—
RE00-23-271183	00-61775	NE34	North	5.5–6.5	QBT3	—	—	—	0.0119 (J)	—	2.04E-06 (J)	—	—	—	—	—	—
RE00-23-271187	00-61776	NE25	North	5–6	QBT3	—	0.00204 (J)	0.0284 (J)	0.0369 (J)	0.0254 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-23-271196	00-61779	SE11	North	6.5–7.5	QBT3	—	—	0.00882 (J)	0.0102 (J)	0.00679 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-23-271197	00-61780	NE20	North	0–1	SOIL	—	—	0.558	0.724	0.465	NA	NA	NA	NA	NA	NA	NA
RE00-23-271198	00-61780	NE20	North	3–4	SOIL	—	—	0.017	0.0206	0.0142	NA	NA	NA	NA	NA	NA	NA
RE00-23-271199	00-61780	NE20	North	6.5–7.5	QBT3	—	—	0.012	0.0157	0.0107	NA	NA	NA	NA	NA	NA	NA
RE00-23-271200	00-61781	NE21	North	0–1	SOIL	—	—	0.212	0.281	0.201	NA	NA	NA	NA	NA	NA	NA
RE00-23-271201	00-61781	NE21	North	3–4	SOIL	—	—	0.00641	0.00783	0.00569	NA	NA	NA	NA	NA	NA	NA
RE00-23-271202	00-61781	NE21	North	6.5–7.5	SOIL	—	—	0.00318 (J)	0.00353	0.00283 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-23-271203	00-61782	NE54	North	0–1	SOIL	0.00216 (J)	0.00232 (J)	0.122	0.162	0.111	NA	NA	NA	NA	NA	NA	NA
RE00-23-271204	00-61782	NE54	North	3–4	SOIL	—	—	0.00542	0.00578	0.0047	NA	NA	NA	NA	NA	NA	NA
RE00-23-271205	00-61782	NE54	North	6.5–7.5	QBT3	—	—	0.00922	0.0126	0.00854	NA	NA	NA	NA	NA	NA	NA
RE00-23-271206	00-61783	NE53	North	0–1	SOIL	—	—	0.0773 (J)	0.102 (J)	0.064 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-23-271207	00-61783	NE53	North	3–4	SOIL	—	0.0026 (J)	0.05	0.0694	0.0472	NA	NA	NA	NA	NA	NA	NA
RE00-23-271208	00-61783	NE53	North	6.5–7.5	QBT3	—	0.00337 (J)	0.099	0.133	0.0931	NA	NA	NA	NA	NA	NA	NA
RE00-23-271209	00-61784	SE14	North	0–1	SOIL	—	0.00408 (J)	0.193	0.261 (J)	0.182	NA	NA	NA	NA	NA	NA	NA
RE00-23-271210	00-61784	SE14	North	3–4	SOIL	—	0.00224 (J)	0.00599	0.00705	0.00458	NA	NA	NA	NA	NA	NA	NA
RE00-23-271211	00-61784	SE14	North	5–6	QBT3	—	—	0.00696	0.008	0.00522	NA	NA	NA	NA	NA	NA	NA

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Isopropyltoluene[4-]	Methylene Chloride	Methylnaphthalene[1-]	Methylnaphthalene[2-]	Naphthalene	Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-]	Octachlorodibenzofuran[1,2,3,4,6,7,8,9-]	Pentachlorodibenzodioxin[1,2,3,7,8-]	Pentachlorodibenzodioxins (Total)	Pentachlorodibenzofuran[1,2,3,7,8-]	Pentachlorodibenzofuran[2,3,4,7,8-]	Pentachlorodibenzofurans (Totals)
Construction Worker SSL[b]						**2740[m]**	**1210**	**6060**	**1000**	**159**	**na**	**na**	**na**	**na**	**na**	**na**	**na**
Industrial SSL[b]						**14,200[m]**	**5130**	**813**	**3370**	**108**	**na**	**na**	**na**	**na**	**na**	**na**	**na**
Recreational SSL[f]						**43,100[m]**	**3610**	**743**	**1150**	**1930**	**na**	**na**	**na**	**na**	**na**	**na**	**na**
Residential SSL[c]						**2360[m]**	**409**	**172**	**232**	**22.6**	**na**	**na**	**na**	**na**	**na**	**na**	**na**
RE00-23-271215	00-61786	SE12	North	0–1	SOIL	—	—	0.0913 (J)	0.105 (J)	0.0877 (J)	0.000233	9.28E-06	—	1.14E-06 (J)	1.04E-06 (J)	1.08E-06 (J)	1.45E-05 (J)
RE00-23-271216	00-61786	SE12	North	3–4	SOIL	—	—	0.12 (J)	0.148 (J)	0.094 (J)	0.00014	4.3E-06 (J)	—	—	5.52E-07 (J)	5.83E-07 (J)	4.13E-06 (J)
RE00-23-271217	00-61786	SE12	North	11–12	QBT3	—	—	0.0339 (J)	0.0413 (J)	0.0251 (J)	5.62E-05	1.32E-06 (J)	—	—	—	—	1.58E-06 (J)
RE00-23-271218	00-61787	SE15	North	0–1	SOIL	—	—	0.0308 (J)	0.0388 (J)	0.0276 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-23-271219	00-61787	SE15	North	3–4	SOIL	—	—	0.194 (J)	0.284 (J)	0.871 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-23-271220	00-61787	SE15	North	11.5–12.5	QBT3	—	—	0.0369 (J)	0.0443 (J)	0.0379 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-23-271227	00-61790	NE45	North	0.5–1.5	SOIL	—	0.00177 (J)	0.00777	0.00989	0.00706	NA	NA	NA	NA	NA	NA	NA
RE00-23-271230	00-61791	NE47	North	1–2	SOIL	—	—	0.00459	0.00565	0.00388	NA	NA	NA	NA	NA	NA	NA
RE00-23-271233	00-61792	NE55	North	0–1	SOIL	—	—	0.364	0.484	0.397	8.99E-05	7.02E-06 (J)	—	—	1.01E-06 (J)	6.95E-07 (J)	1.08E-05 (J)
RE00-23-271234	00-61792	NE55	North	3–4	SOIL	—	—	0.0065	0.00795	0.0065	4.67E-06 (J)	—	—	—	—	—	—
RE00-23-271235	00-61792	NE55	North	6.5–7.5	QBT3	—	—	0.00753	0.0103	0.00787	3.43E-06 (J)	—	—	—	—	—	—
RE00-23-271236	00-61793	NE38	North	3–4	SOIL	—	—	—	—	—	3.06E-06 (J+)	—	—	—	—	—	—
RE00-23-271239	00-61794	NE39	North	0.5–1.5	SOIL	—	0.00315 (J)	0.0637 (J)	0.0873 (J)	0.0578 (J)	8.20E-05	3.89E-06 (J)	—	—	5.58E-07 (J)	2.86E-07 (J)	3.59E-06 (J)
RE00-23-271240	00-61794	NE39	North	2–3	QBT3	—	—	0.00211 (J)	0.00246 (J)	—	1.64E-06 (J)	—	—	—	—	—	—
RE00-23-271242	00-61795	NE48	North	3.5–4.5	QBT3	—	0.00204 (J)	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-23-271243	00-61795	NE48	North	5.5–6.5	QBT3	—	0.00185 (J)	0.00245 (J)	0.0021 (J)	0.00735	NA	NA	NA	NA	NA	NA	NA
RE00-23-271248	00-61797	NE56	North	0–1	SOIL	—	—	0.0127 (J)	0.0134 (J)	0.00723	NA	NA	NA	NA	NA	NA	NA
RE00-23-271249	00-61797	NE56	North	2–3	QBT3	—	—	—	0.00171 (J)	—	NA	NA	NA	NA	NA	NA	NA
RE00-23-282091	00-61799	NE60	North	0–1	SOIL	—	—	0.00528	0.00641	0.00415	NA	NA	NA	NA	NA	NA	NA
RE00-23-282092	00-61799	NE60	North	2–3	QBT3	—	—	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-23-289091	00-61804	NE68	North	0–1	SOIL	NA	NA	NA	NA	NA	4.06E-05	2.32E-06 (J)	—	—	—	—	—
RE00-23-291181	00-61804	NE68	North	0–1	SOIL	—	—	0.00505 (J)	0.00505 (J)	0.00404 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-23-282118	00-61808	NE66	North	0–1	SOIL	—	—	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-23-291184	00-61811	NE67	North	0–1	SOIL	—	—	0.0027 (J)	0.00304 (J)	0.00236 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-23-289519	00-61813	NE80	North	0–1	SOIL	NA	NA	NA	NA	NA	2.23E-05 (J+)	1.36E-06 (J)	—	—	—	—	7.75E-07 (J)

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Isopropyltoluene[4-]	Methylene Chloride	Methylnaphthalene[1-]	Methylnaphthalene[2-]	Naphthalene	Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-]	Octachlorodibenzofuran[1,2,3,4,6,7,8,9-]	Pentachlorodibenzodioxin[1,2,3,7,8-]	Pentachlorodibenzodioxins (Total)	Pentachlorodibenzofuran[1,2,3,7,8-]	Pentachlorodibenzofuran[2,3,4,7,8-]	Pentachlorodibenzofurans (Totals)
Construction Worker SSL[b]						**2740[m]**	**1210**	**6060**	**1000**	**159**	**na**	**na**	**na**	**na**	**na**	**na**	**na**
Industrial SSL[b]						**14,200[m]**	**5130**	**813**	**3370**	**108**	**na**	**na**	**na**	**na**	**na**	**na**	**na**
Recreational SSL[f]						**43,100[m]**	**3610**	**743**	**1150**	**1930**	**na**	**na**	**na**	**na**	**na**	**na**	**na**
Residential SSL[c]						**2360[m]**	**409**	**172**	**232**	**22.6**	**na**	**na**	**na**	**na**	**na**	**na**	**na**
RE00-23-291186	00-61813	NE80	North	0–1	SOIL	—	0.719	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-23-289520	00-61813	NE80	North	2–3	SOIL	NA	NA	NA	NA	NA	1.85E-05 (J+)	1.29E-06 (J)	—	—	—	1.79E-07 (J)	2.46E-06 (J)
RE00-23-291187	00-61813	NE80	North	2–3	SOIL	—	0.372 (J)	0.0022 (J)	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-23-289510	00-61815	NE74	North	0–1	SOIL	—	—	0.00282 (J)	0.00388	0.00282 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-23-289513	00-61816	NE79	North	0–1	SOIL	—	—	—	—	—	NA	NA	NA	NA	NA	NA	NA
RE00-23-289514	00-61816	NE79	North	2–3	SOIL	—	—	0.00509	0.00582	0.004	NA	NA	NA	NA	NA	NA	NA
RE00-23-291188	00-61817	NE81	North	0–1	SOIL	—	—	0.00211 (J)	0.00211 (J)	—	NA	NA	NA	NA	NA	NA	NA
RE00-23-291189	00-61817	NE81	North	2–3	QBT3	—	—	0.00254 (J)	0.00254 (J)	0.00218 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-23-290099	00-61818	NE82	North	0–1	SOIL	NA	NA	NA	NA	NA	5.06E-05	2.27E-06 (J)	—	—	1.96E-07 (J)	—	1.57E-06 (J)
RE00-23-291190	00-61818	NE82	North	0–1	SOIL	—	0.496 (J)	0.00444 (J)	0.00478 (J)	0.00375 (J)	NA	NA	NA	NA	NA	NA	NA
RE00-23-290100	00-61818	NE82	North	2–3	SOIL	NA	NA	NA	NA	NA	2.66E-06 (J+)	—	—	—	—	—	—
RE00-23-290101	00-61818	NE82	North	4–5	QBT3	NA	NA	NA	NA	NA	2.58E-06 (J+)	1.74E-07 (J)	—	—	—	—	—
RE00-23-291192	00-61818	NE82	North	4–5	QBT3	—	—	—	—	—	NA	NA	NA	NA	NA	NA	NA

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Phenanthrene	.Pyrene	RDX	Tetrachlorodibenzodioxins (Total)	Tetrachlorodibenzofuran[2,3,7,8-]	Tetrachlorodibenzofurans (Totals)	Toluene	Total PAHs	Trichloroethene	Trimethylbenzene[1,2,4-]	Xylene[1,2-]	Xylene[1,3-]+Xylene[1,4-]
Construction Worker SSL[b]						**8070**	**7530**	**1350**	**na**	**0.0172**	**na**	**14,000**	**na**	**6.90**	**504[d]**	**736**	**798[n]**
Industrial SSL[b]						**27,500**	**25,300**	**428**	**na**	**0.00243**	**na**	**61,300**	**na**	**36.5**	**1800[e]**	**3940**	**4280[n]**
Recreational SSL[f]						**8630**	**8630**	**399**	**na**	**0.00297**	**na**	**47,600**	**na**	**157**	**5010**	**26,000**	**24,900[n]**
Residential SSL[c]						**1850**	**1740**	**83.1**	**na**	**0.00049**	**na**	**5230**	**na**	**6.77**	**300[e]**	**805**	**871[n]**
RE00-22-238042	00-171	4	North	7.5–8.5	QBT3	—	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-238043	00-171	4	North	10.5–11.5	QBT3	—	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-238046	00-173	9	North	6.5–7.5	QBT3	0.0028 (J)	0.0115 (J)	—	NA	NA	NA	—	36	—	—	—	—
RE00-22-238047	00-173	9	North	9.5–10.5	QBT3	—	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-238051	00-175	23	North	6.9–7.9	QBT3	—	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-238052	00-175	23	North	9.9–10.9	QBT3	—	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-238056	00-177	11	North	9–10	QBT3	—	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-238057	00-177	11	North	12–13	QBT3	—	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-238061	00-179	8	North	8.5–9.5	QBT3	—	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-238062	00-179	8	North	11.5–12.5	QBT3	—	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-238066	00-181	13	North	8–9	QBT3	—	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-238067	00-181	13	North	11–12	QBT3	—	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-238071	00-183	10	North	11–12	QBT3	—	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-238072	00-183	10	North	14–15	QBT3	—	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-238075	00-184	1	North	6–7	QBT3	—	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-238076	00-185	24	North	6.5–7.5	QBT3	—	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-238077	00-185	24	North	9.5–10.5	QBT3	—	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-238078	00-186	97	South	0–1	SOIL	—	—	—	NA	NA	NA	—	NA	—	—	—	—
RE00-22-238080	00-186	97	South	6.5–7.5	QBT3	—	—	—	NA	NA	NA	—	NA	—	—	—	—
RE00-22-238081	00-187	21	North	8–9	QBT3	—	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-238082	00-187	21	North	11–12	QBT3	—	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-238093	00-190	90	South	13–14	QBT3	—	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-238096	00-193	98	North	9.5–10.5	QBT3	—	—	—	NA	NA	NA	—	—	—	—	—	—

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Phenanthrene	.Pyrene	RDX	Tetrachlorodibenzodioxins (Total)	Tetrachlorodibenzofuran[2,3,7,8-]	Tetrachlorodibenzofurans (Totals)	Toluene	Total PAHs	Trichloroethene	Trimethylbenzene[1,2,4-]	Xylene[1,2-]	Xylene[1,3-]+Xylene[1,4-]
Construction Worker SSL[b]						**8070**	**7530**	**1350**	**na**	**0.0172**	**na**	**14,000**	**na**	**6.90**	**504[d]**	**736**	**798[n]**
Industrial SSL[b]						**27,500**	**25,300**	**428**	**na**	**0.00243**	**na**	**61,300**	**na**	**36.5**	**1800[e]**	**3940**	**4280[n]**
Recreational SSL[f]						**8630**	**8630**	**399**	**na**	**0.00297**	**na**	**47,600**	**na**	**157**	**5010**	**26,000**	**24,900[n]**
Residential SSL[c]						**1850**	**1740**	**83.1**	**na**	**0.00049**	**na**	**5230**	**na**	**6.77**	**300[e]**	**805**	**871[n]**
RE00-22-238097	00-193	98	North	12.5–13.5	QBT3	—	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-238100	00-195	25	North	8.5–9.5	QBT3	—	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-238101	00-195	25	North	11.5–12.5	QBT3	—	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-238103	00-196	3	North	3.3–4.5	FILL	—	—	—	—	—	3.22E-06 (J)	—	NA	—	—	—	—
RE00-22-238104	00-196	3	North	7.5–8.5	QBT3	—	—	—	—	—	2.59E-06 (J)	—	NA	—	—	—	—
RE00-22-238105	00-197	27	North	8.5–9.5	QBT3	—	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-238106	00-197	27	North	11.5–12.5	QBT3	—	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-238107	00-198	99	South	0–1	SOIL	—	—	—	—	2.86E-07 (J)	1.33E-06 (J)	—	NA	—	—	—	—
RE00-22-238108	00-198	99	South	3–4	SOIL	0.191 (J)	—	—	1.37E-07 (J)	6.05E-07 (J)	2.02E-06 (J)	—	NA	—	—	—	—
RE00-22-238109	00-198	99	South	6–7.1	QBT3	—	—	—	—	—	—	—	NA	—	—	—	—
RE00-22-238110	00-199	28	North	12.5–13.5	QBT3	0.00335	0.00268 (J)	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-238111	00-199	28	North	15.5–16.5	QBT3	—	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-238112	00-200	66	South	0–1	FILL	—	—	—	—	1.57E-07 (J)	4.15E-06 (J)	—	NA	—	—	—	—
RE00-22-238113	00-200	66	South	4–5	FILL	0.065	0.0217 (J)	—	—	1.63E-07 (J)	2.91E-07 (J)	—	NA	—	—	—	—
RE00-22-238114	00-200	66	South	6.1–7.1	QBT3	0.0347 (J)	—	—	—	2.56E-07 (J)	1.2E-06 (J)	—	NA	—	—	—	—
RE00-22-238115	00-201	89	South	7.5–8.5	QBT3	—	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-238116	00-201	89	South	10.5–11.5	QBT3	—	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-238117	00-202	92	South	0–1	FILL	0.0561 (J)	0.0421 (J)	—	—	4.52E-07 (J)	3.4E-06 (J)	—	NA	—	—	—	—
RE00-22-238118	00-202	92	South	3–4	FILL	0.067	0.0223 (J)	—	—	4.10E-06	5.23E-05 (J)	—	NA	—	—	—	—
RE00-22-238119	00-202	92	South	7.7–8.7	QBT3	0.0211 (J)	—	—	—	—	4.33E-07 (J)	—	NA	—	—	—	—
RE00-22-238122	00-204	57A	South	0–1	SOIL	0.0122 (J)	—	—	—	—	8.91E-06 (J)	—	NA	—	—	—	—
RE00-22-238123	00-204	57A	South	3–4	SOIL	0.103 (J)	—	—	2.62E-07 (J)	2.93E-07 (J)	2.6E-05 (J)	—	NA	—	—	—	—
RE00-22-238124	00-204	57A	South	7.9–8.9	QBT3	0.0124 (J)	—	—	—	—	2.41E-06 (J)	—	NA	—	—	—	—
RE00-22-238125	00-205	72	South	13–14	QBT3	—	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-238126	00-205	72	South	16–17	QBT3	—	—	—	NA	NA	NA	—	—	—	—	—	—

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Phenanthrene	.Pyrene	RDX	Tetrachlorodibenzodioxins (Total)	Tetrachlorodibenzofuran[2,3,7,8-]	Tetrachlorodibenzofurans (Totals)	Toluene	Total PAHs	Trichloroethene	Trimethylbenzene[1,2,4-]	Xylene[1,2-]	Xylene[1,3-]+Xylene[1,4-]
Construction Worker SSL[b]						**8070**	**7530**	**1350**	**na**	**0.0172**	**na**	**14,000**	**na**	**6.90**	**504[d]**	**736**	**798[n]**
Industrial SSL[b]						**27,500**	**25,300**	**428**	**na**	**0.00243**	**na**	**61,300**	**na**	**36.5**	**1800[e]**	**3940**	**4280[n]**
Recreational SSL[f]						**8630**	**8630**	**399**	**na**	**0.00297**	**na**	**47,600**	**na**	**157**	**5010**	**26,000**	**24,900[n]**
Residential SSL[c]						**1850**	**1740**	**83.1**	**na**	**0.00049**	**na**	**5230**	**na**	**6.77**	**300[e]**	**805**	**871[n]**
RE00-22-238129	00-206	18	North	7.8–8.8	QBT3	—	—	—	—	—	1.92E-06 (J)	—	NA	—	—	—	—
RE00-22-238130	00-207	71	South	10–11	QBT3	—	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-238131	00-207	71	South	13–14	QBT3	—	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-238132	00-208	70	South	0–1	FILL	0.0828	0.0621 (J)	—	3.03E-07 (J)	—	2.56E-05 (J)	—	NA	—	—	—	—
RE00-22-238133	00-208	70	South	4–5	SOIL	0.0156 (J)	0.00222 (J)	—	—	2.5E-07 (J)	3.56E-06 (J)	—	NA	—	—	—	—
RE00-22-238134	00-208	70	South	9–10	QBT3	0.00206 (J)	—	—	—	—	—	—	NA	—	—	—	—
RE00-22-238135	00-209	76	South	13–14	QBT3	—	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-238136	00-209	76	South	16–17	QBT3	—	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-238139	00-210	29	North	0–1.4	FILL	—	—	—	2.13E-07 (J)	—	1.5E-06 (J)	—	NA	—	—	—	—
RE00-22-238138	00-210	29	North	4–5	SOIL	—	—	—	—	—	—	—	NA	—	—	—	—
RE00-22-238137	00-210	29	North	7–8	QBT3	—	—	—	—	—	1.91E-07 (J)	—	NA	—	—	—	—
RE00-22-238140	00-211	82	South	14.5–15.5	QBT3	—	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-238141	00-211	82	South	17.5–18.5	QBT3	—	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-238142	00-212	20	North	0–1	FILL	—	—	—	—	—	2.34E-05 (J)	—	NA	—	—	—	—
RE00-22-238143	00-212	20	North	4–5	SOIL	—	—	—	—	—	—	—	NA	—	—	—	—
RE00-22-238144	00-212	20	North	6.2–7.2	QBT3	—	—	—	—	—	—	—	NA	—	—	—	—
RE00-22-238145	00-213	79	South	12–13	QBT3	—	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-238146	00-213	79	South	15–16	QBT3	—	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-238147	00-214	26	North	0–1	FILL	0.00396	0.0036	—	—	—	5.23E-07 (J)	—	NA	—	—	—	—
RE00-22-238148	00-214	26	North	4–5	SOIL	0.0192 (J)	0.00517	—	—	—	1.95E-07 (J)	0.00131	NA	—	—	—	—
RE00-22-238149	00-214	26	North	6.8–7.8	QBT3	0.00529 (J)	—	—	—	—	3.04E-07 (J)	—	NA	—	—	—	—
RE00-22-238150	00-215	12	North	7.5–8.5	QBT3	0.00419	0.00314 (J)	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-238151	00-215	12	North	10.5–11.5	QBT3	—	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-238153	00-216	83	South	15–16	QBT3	—	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-238154	00-217	80	South	12–13	QBT3	0.00356	0.00462	—	NA	NA	NA	—	101	—	—	—	—

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Phenanthrene	.Pyrene	RDX	Tetrachlorodibenzodioxins (Total)	Tetrachlorodibenzofuran[2,3,7,8-]	Tetrachlorodibenzofurans (Totals)	Toluene	Total PAHs	Trichloroethene	Trimethylbenzene[1,2,4-]	Xylene[1,2-]	Xylene[1,3-]+Xylene[1,4-]
Construction Worker SSL[b]						**8070**	**7530**	**1350**	**na**	**0.0172**	**na**	**14,000**	**na**	**6.90**	**504[d]**	**736**	**798[n]**
Industrial SSL[b]						**27,500**	**25,300**	**428**	**na**	**0.00243**	**na**	**61,300**	**na**	**36.5**	**1800[e]**	**3940**	**4280[n]**
Recreational SSL[f]						**8630**	**8630**	**399**	**na**	**0.00297**	**na**	**47,600**	**na**	**157**	**5010**	**26,000**	**24,900[n]**
Residential SSL[c]						**1850**	**1740**	**83.1**	**na**	**0.00049**	**na**	**5230**	**na**	**6.77**	**300[e]**	**805**	**871[n]**
RE00-22-238156	00-218	22	North	0–1	FILL	—	—	—	—	—	2.41E-06 (J)	—	NA	—	—	—	—
RE00-22-238157	00-218	22	North	4–5	FILL	0.782	0.54	—	4.94E-07 (J)	3.35E-07 (J)	3.28E-05 (J)	—	NA	—	—	—	—
RE00-22-238158	00-218	22	North	11.9–12.9	QBT3	0.0844	0.0633 (J)	—	—	—	7.04E-06 (J)	—	NA	—	—	—	—
RE00-22-238159	00-219	87	South	8.5–9.5	QBT3	—	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-238161	00-220	85	South	0–1	FILL	0.0579 (J)	0.0506 (J)	—	—	3.39E-07 (J)	3.33E-06 (J)	—	NA	—	—	—	—
RE00-22-238162	00-220	85	South	3–4	FILL	—	—	—	—	—	—	—	NA	—	—	—	—
RE00-22-238163	00-220	85	South	4.9–5.9	QBT3	—	—	—	—	—	2.04E-07 (J)	—	NA	—	—	—	—
RE00-22-238164	00-221	84	South	11–12	QBT3	—	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-238165	00-221	84	South	14–15	QBT3	—	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-238166	00-222	7	North	0–1	FILL	0.0485 (J)	—	—	—	—	1.61E-05 (J)	—	NA	—	—	—	—
RE00-22-238167	00-222	7	North	3–4	SOIL	0.00731	—	—	—	—	1.61E-07 (J)	—	NA	—	—	—	—
RE00-22-238168	00-222	7	North	5–6	QBT3	—	—	—	—	—	6.31E-07 (J)	0.000667 (J)	NA	—	—	—	—
RE00-22-238169	00-223	81	South	6.5–7.5	QBT3	—	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-238170	00-223	81	South	9.5–10.5	QBT3	—	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-238174	00-225	77	South	8.5–9.5	QBT3	—	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-238175	00-225	77	South	11.5–12.5	QBT3	—	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-238176	00-226	95	South	0–1	FILL	0.139	0.112	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-238177	00-226	95	South	3–4	SOIL	0.149	0.0639 (J)	—	NA	NA	NA	—	504	—	—	—	—
RE00-22-238178	00-226	95	South	6–7	QBT3	—	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-238179	00-227	78	South	7.5–8.5	QBT3	—	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-238181	00-228	59	South	0–1	FILL	—	—	—	—	—	1.17E-06 (J)	—	NA	—	—	—	—
RE00-22-238281	00-228	59	South	4–5	SOIL	0.0292 (J)	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-238184	00-229	73	South	7.5–8.5	QBT3	—	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-238185	00-229	73	South	10.5–11.5	QBT3	—	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-238189	00-231	69	South	7.5–8.5	QBT3	—	—	—	NA	NA	NA	—	—	—	—	—	—

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Phenanthrene	.Pyrene	RDX	Tetrachlorodibenzodioxins (Total)	Tetrachlorodibenzofuran[2,3,7,8-]	Tetrachlorodibenzofurans (Totals)	Toluene	Total PAHs	Trichloroethene	Trimethylbenzene[1,2,4-]	Xylene[1,2-]	Xylene[1,3-]+Xylene[1,4-]
Construction Worker SSL[b]						**8070**	**7530**	**1350**	**na**	**0.0172**	**na**	**14,000**	**na**	**6.90**	**504[d]**	**736**	**798[n]**
Industrial SSL[b]						**27,500**	**25,300**	**428**	**na**	**0.00243**	**na**	**61,300**	**na**	**36.5**	**1800[e]**	**3940**	**4280[n]**
Recreational SSL[f]						**8630**	**8630**	**399**	**na**	**0.00297**	**na**	**47,600**	**na**	**157**	**5010**	**26,000**	**24,900[n]**
Residential SSL[c]						**1850**	**1740**	**83.1**	**na**	**0.00049**	**na**	**5230**	**na**	**6.77**	**300[e]**	**805**	**871[n]**
RE00-22-238190	00-231	69	South	10.5–11.5	QBT3	—	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-238192	00-232	96	South	0–1	FILL	—	—	—	—	—	9.59E-07 (J)	—	NA	—	—	—	—
RE00-22-238191	00-232	96	South	4–5	FILL	—	0.018 (J-)	—	—	—	—	—	NA	—	—	—	—
RE00-22-238193	00-232	96	South	6–7	QBT3	—	0.0343 (J-)	—	—	2.22E-07 (J)	2.21E-07 (J)	—	NA	—	—	—	—
RE00-22-238194	00-233	64	South	7.5–8.5	QBT3	0.0032 (J)	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-238195	00-233	64	South	10.5–11.5	QBT3	—	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-238196	00-234	61	South	12.5–13.5	QBT3	—	0.00215 (J)	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-238197	00-234	61	South	15.5–16.5	QBT3	—	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-238199	00-235	57	South	12–13	QBT3	—	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-238200	00-236	60	South	13–14	QBT3	—	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-238201	00-236	60	South	16–17	QBT3	—	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-238202	00-237	62	South	8.5–9.5	QBT3	—	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-238203	00-237	62	South	11.5–12.5	QBT3	—	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-238204	00-238	63	South	4–5	QBT3	—	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-238205	00-238	63	South	7–8	QBT3	—	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-238208	00-240	68	South	5–6	QBT3	—	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-238226	00-249	5	North	8–9	QBT3	—	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-238237	00-254	15	North	7–8	QBT3	—	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-238239	00-255	93	South	4–5	FILL	—	—	—	NA	NA	NA	—	NA	—	—	—	—
RE00-22-238242	00-256	14	North	7.3–8.3	QBT3	—	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-239164	00-257	6	North	6.1–7.1	QBT3	0.0241 (J)	—	—	—	—	6.05E-07 (J)	0.000547 (J)	NA	0.000389 (J)	—	—	—
RE00-22-238248	00-259	75	South	0–1	FILL	0.0547 (J)	0.041 (J)	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-238249	00-259	75	South	3–4	FILL	0.0154 (J)	0.00585	—	NA	NA	NA	—	85.2	—	—	—	—
RE00-22-238250	00-259	75	South	6.9–7.9	QBT3	0.00354	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-238251	00-260	88	South	0–1	FILL	0.035 (J)	0.07	—	NA	NA	NA	—	—	—	—	—	—

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Phenanthrene	.Pyrene	RDX	Tetrachlorodibenzodioxins (Total)	Tetrachlorodibenzofuran[2,3,7,8-]	Tetrachlorodibenzofurans (Totals)	Toluene	Total PAHs	Trichloroethene	Trimethylbenzene[1,2,4-]	Xylene[1,2-]	Xylene[1,3-]+Xylene[1,4-]
Construction Worker SSL[b]						**8070**	**7530**	**1350**	**na**	**0.0172**	**na**	**14,000**	**na**	**6.90**	**504[d]**	**736**	**798[n]**
Industrial SSL[b]						**27,500**	**25,300**	**428**	**na**	**0.00243**	**na**	**61,300**	**na**	**36.5**	**1800[e]**	**3940**	**4280[n]**
Recreational SSL[f]						**8630**	**8630**	**399**	**na**	**0.00297**	**na**	**47,600**	**na**	**157**	**5010**	**26,000**	**24,900[n]**
Residential SSL[c]						**1850**	**1740**	**83.1**	**na**	**0.00049**	**na**	**5230**	**na**	**6.77**	**300[e]**	**805**	**871[n]**
RE00-22-238253	00-261	56A	North	0–1	SOIL	0.522	0.565	—	NA	NA	NA	0.000378 (J)	2380	—	—	—	—
RE00-22-238254	00-261	56A	North	3–4	SOIL	0.0695	0.0807	—	NA	NA	NA	0.00158	728	0.000384 (J)	0.000564 (J)	—	—
RE00-22-238255	00-261	56A	North	11.6–12.6	QBT3	0.0319 (J)	0.0142 (J)	—	NA	NA	NA	—	261	—	—	—	—
RE00-22-238273	00-61519	16	North	0–1	FILL	0.0413 (J)	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-238278	00-61519	16	North	3–4	SOIL	0.175	0.105	—	NA	NA	NA	—	859	—	—	—	—
RE00-22-238283	00-61519	16	North	12–13	QBT3	0.0821 (J)	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-238279	00-61520	South	North	4–5	FILL	—	—	—	NA	NA	NA	—	NA	—	—	—	—
RE00-22-238282	00-61523	74	South	4–5	SOIL	—	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-238277	00-61523	74	South	8–9	QBT3	—	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-238300	00-61526	56	North	6–7	FILL	0.136 (J+)	0.132 (J+)	—	NA	NA	NA	—	NA	—	—	—	—
RE00-22-239217	00-61546	19	North	0–1	FILL	—	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-239227	00-61546	19	North	4–5	SOIL	0.00261 (J)	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-239237	00-61546	19	North	5.75–6.8	QBT3	—	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-239218	00-61547	55A	North	0–1	SOIL	0.0212 (J)	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-239228	00-61547	55A	North	3–4	SOIL	0.137 (J+)	0.0668	—	NA	NA	NA	—	568	—	—	—	—
RE00-22-239238	00-61547	55A	North	11.9–12.9	QBT3	0.0245 (J)	—	—	NA	NA	NA	0.000487 (J)	—	—	—	—	—
RE00-22-239221	00-61550	58A	South	0–1	SOIL	0.0439	0.0356 (J)	—	NA	NA	NA	—	314	—	—	—	—
RE00-22-239231	00-61550	58A	South	3–4	SOIL	0.0669	0.0269 (J)	—	NA	NA	NA	—	537	—	—	—	—
RE00-22-239241	00-61550	58A	South	8–9	QBT3	0.0124 (J)	0.00567	—	NA	NA	NA	—	83.9	—	—	—	—
RE00-22-239224	00-61553	54A	North	0–1	SOIL	0.0169 (J)	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-239234	00-61553	54A	North	4–5	SOIL	0.0989 (J)	0.0636 (J)	—	NA	NA	NA	—	247	—	—	—	—
RE00-22-239244	00-61553	54A	North	6.9–7.9	QBT3	—	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-248888	00-61568	29 5NE	North	0–1	SOIL	—	—	—	2.03E-07 (J)	—	4.72E-07 (J)	—	—	—	—	—	—
RE00-22-248889	00-61568	29 5NE	North	4–5	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-248890	00-61568	29 5NE	North	7–8	QBT3	0.00415	0.00173 (J)	—	—	—	—	—	—	—	—	—	—

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Phenanthrene	.Pyrene	RDX	Tetrachlorodibenzodioxins (Total)	Tetrachlorodibenzofuran[2,3,7,8-]	Tetrachlorodibenzofurans (Totals)	Toluene	Total PAHs	Trichloroethene	Trimethylbenzene[1,2,4-]	Xylene[1,2-]	Xylene[1,3-]+Xylene[1,4-]
Construction Worker SSL[b]						**8070**	**7530**	**1350**	**na**	**0.0172**	**na**	**14,000**	**na**	**6.90**	**504[d]**	**736**	**798[n]**
Industrial SSL[b]						**27,500**	**25,300**	**428**	**na**	**0.00243**	**na**	**61,300**	**na**	**36.5**	**1800[e]**	**3940**	**4280[n]**
Recreational SSL[f]						**8630**	**8630**	**399**	**na**	**0.00297**	**na**	**47,600**	**na**	**157**	**5010**	**26,000**	**24,900[n]**
Residential SSL[c]						**1850**	**1740**	**83.1**	**na**	**0.00049**	**na**	**5230**	**na**	**6.77**	**300[e]**	**805**	**871[n]**
RE00-22-248891	00-61569	29 5S	North	0–1	SOIL	—	—	—	2.1E-07 (J)	—	4.85E-06 (J)	0.000543 (J)	—	—	—	—	—
RE00-22-248892	00-61569	29 5S	North	4–5	SOIL	0.00757	0.00252 (J)	—	—	—	—	0.00136	68.5	—	—	—	—
RE00-22-248893	00-61569	29 5S	North	7–8	QBT3	0.0143 (J)	—	—	—	—	—	0.00205	—	—	—	—	—
RE00-22-249057	00-61569	29 5S	North	9–10	QBT3	—	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-249058	00-61569	29 5S	North	11–12	QBT3	0.0122 (J)	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-248894	00-61570	29 5SE	North	0–1	SOIL	0.0396	0.0324 (J)	—	2.82E-07 (J)	—	6.17E-06 (J)	—	—	—	—	—	—
RE00-22-248895	00-61570	29 5SE	North	4–5	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-248896	00-61570	29 5SE	North	7–8	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-248897	00-61571	22 5E	North	0–1	SOIL	—	—	—	—	—	4.96E-07 (J)	—	—	—	—	—	—
RE00-22-248898	00-61571	22 5E	North	4–5	SOIL	0.156	0.0994 (J)	—	—	—	4.76E-06	—	511	—	—	—	—
RE00-22-248899	00-61571	22 5E	North	11.9–12.9	QBT3	0.0618 (J)	0.048 (J)	—	—	—	—	—	—	—	—	—	—
RE00-22-248900	00-61572	92 5E	South	0–1	SOIL	0.103	0.228 (J)	—	—	—	8.17E-07 (J)	0.000455 (J)	456	—	—	—	—
RE00-22-248901	00-61572	92 5E	South	3–4	SOIL	0.0149 (J)	—	—	—	—	—	—	—	—	—	—	—
RE00-22-248902	00-61572	92 5E	South	7.7–8.7	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-248903	00-61573	92 5N	South	0–1	SOIL	0.101 (J)	0.101 (J)	—	—	—	4.95E-06 (J)	—	—	—	—	—	—
RE00-22-248904	00-61573	92 5N	South	3–4	SOIL	0.0367	—	—	—	—	5.12E-07 (J)	—	—	—	—	—	—
RE00-22-248905	00-61573	92 5N	South	7.7–8.7	QBT3	0.0276 (J)	—	—	—	—	—	—	—	—	—	—	—
RE00-22-248906	00-61574	56A 5E	North	0–1	SOIL	0.0852	0.0568 (J)	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-248907	00-61574	56A 5E	North	3–4	SOIL	0.13	0.0435 (J)	—	NA	NA	NA	—	261	—	—	—	—
RE00-22-248909	00-61575	56A 5N	North	0–1	SOIL	—	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-248910	00-61575	56A 5N	North	3–4	SOIL	0.0873	—	—	NA	NA	NA	0.000571 (J)	284	—	—	—	—
RE00-22-248911	00-61575	56A 5N	North	11.6–12.6	QBT3	—	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-248913	00-61576	56A 5W	North	3–4	SOIL	0.0966	0.0372 (J)	—	NA	NA	NA	—	870	—	—	—	—
RE00-22-248914	00-61576	56A 5W	North	11.6–12.6	QBT3	—	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-248915	00-61577	56A 5S	North	0–1	SOIL	—	—	—	NA	NA	NA	—	—	—	—	—	—

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Phenanthrene	.Pyrene	RDX	Tetrachlorodibenzodioxins (Total)	Tetrachlorodibenzofuran[2,3,7,8-]	Tetrachlorodibenzofurans (Totals)	Toluene	Total PAHs	Trichloroethene	Trimethylbenzene[1,2,4-]	Xylene[1,2-]	Xylene[1,3-]+Xylene[1,4-]
Construction Worker SSL[b]						**8070**	**7530**	**1350**	**na**	**0.0172**	**na**	**14,000**	**na**	**6.90**	**504[d]**	**736**	**798[n]**
Industrial SSL[b]						**27,500**	**25,300**	**428**	**na**	**0.00243**	**na**	**61,300**	**na**	**36.5**	**1800[e]**	**3940**	**4280[n]**
Recreational SSL[f]						**8630**	**8630**	**399**	**na**	**0.00297**	**na**	**47,600**	**na**	**157**	**5010**	**26,000**	**24,900[n]**
Residential SSL[c]						**1850**	**1740**	**83.1**	**na**	**0.00049**	**na**	**5230**	**na**	**6.77**	**300[e]**	**805**	**871[n]**
RE00-22-248916	00-61577	56A 5S	North	3–4	SOIL	0.142	0.0745	—	NA	NA	NA	0.00057 (J)	618	—	—	—	—
RE00-22-248930	00-61581	2 5S	North	6.5–7.5	QBT3	0.0564	0.0176 (J)	—	NA	NA	NA	—	610	—	—	—	—
RE00-22-248979	00-61582	2 5SE	North	8.5–9.5	QBT3	0.00921	0.00273 (J)	—	NA	NA	NA	—	60.1	—	—	—	—
RE00-22-248982	00-61582	2 5SE	North	10.5–11.5	QBT3	0.0132 (J)	—	—	NA	NA	NA	—	132	—	—	—	—
RE00-22-248934	00-61583	58 5E	South	0–1	SOIL	0.022 (J)	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-248935	00-61583	58 5E	South	4–5	SOIL	0.0644 (J)	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-255298	00-61584	58 5SW	South	13–14	SOIL	0.00227 (J)	0.00378	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-248943	00-61586	94 5S	South	0–1	SOIL	—	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-248944	00-61586	94 5S	South	4–5	SOIL	0.0256 (J)	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-248947	00-61587	94 5E	South	4–5	SOIL	0.0527	0.0246 (J)	—	NA	NA	NA	—	397	—	—	—	—
RE00-22-248948	00-61587	94 5E	South	9.1–9.9	QBT3	0.0251 (J)	0.0251 (J)	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-249009	00-61587	94 5E	South	10.9–11.9	QBT3	0.0148 (J)	0.0111	—	NA	NA	NA	—	39	—	—	—	—
RE00-22-249010	00-61587	94 5E	South	12.9–13.9	QBT3	0.00296 (J)	0.00197 (J)	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-248949	00-61588	94 5W	South	0–1	SOIL	0.0583	0.0765	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-248950	00-61588	94 5W	South	4–5	SOIL	—	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-248952	00-61589	29 5W	North	0–1	SOIL	0.0241 (J)	0.0378	—	—	—	—	—	—	—	—	—	—
RE00-22-248953	00-61589	29 5W	North	4–5	SOIL	—	—	—	—	5.55E-07 (J)	1.1E-06 (J)	—	—	—	—	—	—
RE00-22-248954	00-61589	29 5W	North	7–8	QBT3	0.00491	0.00175 (J)	—	—	—	—	—	—	—	—	—	—
RE00-22-248955	00-61589	29 5W	North	11.5–12.5	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-248956	00-61590	95 5W	South	0–1	SOIL	—	0.0696 (J)	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-248957	00-61590	95 5W	South	3–4	SOIL	0.066 (J)	—	—	NA	NA	NA	0.00143	—	—	—	—	—
RE00-22-248958	00-61590	95 5W	South	6–7	QBT3	—	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-248960	00-61591	1 5S	North	3–4	SOIL	0.0482	0.0185 (J)	—	NA	NA	NA	0.000614 (J)	645 (J+)	—	—	—	—
RE00-22-248961	00-61591	1 5S	North	6–7	QBT3	—	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-248962	00-61592	1 5SW	North	0–1	SOIL	—	—	—	NA	NA	NA	—	—	—	—	—	—

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Phenanthrene	.Pyrene	RDX	Tetrachlorodibenzodioxins (Total)	Tetrachlorodibenzofuran[2,3,7,8-]	Tetrachlorodibenzofurans (Totals)	Toluene	Total PAHs	Trichloroethene	Trimethylbenzene[1,2,4-]	Xylene[1,2-]	Xylene[1,3-]+Xylene[1,4-]
Construction Worker SSL[b]						**8070**	**7530**	**1350**	**na**	**0.0172**	**na**	**14,000**	**na**	**6.90**	**504[d]**	**736**	**798[n]**
Industrial SSL[b]						**27,500**	**25,300**	**428**	**na**	**0.00243**	**na**	**61,300**	**na**	**36.5**	**1800[e]**	**3940**	**4280[n]**
Recreational SSL[f]						**8630**	**8630**	**399**	**na**	**0.00297**	**na**	**47,600**	**na**	**157**	**5010**	**26,000**	**24,900[n]**
Residential SSL[c]						**1850**	**1740**	**83.1**	**na**	**0.00049**	**na**	**5230**	**na**	**6.77**	**300[e]**	**805**	**871[n]**
RE00-22-248963	00-61592	1 5SW	North	3–4	SOIL	0.0109 (J)	—	—	NA	NA	NA	0.000636 (J)	—	—	—	—	—
RE00-22-248964	00-61592	1 5SW	North	6–7	QBT3	—	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-248965	00-61593	1 5NE	North	0–1	SOIL	0.0684	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-248966	00-61593	1 5NE	North	3–4	SOIL	0.0218	—	—	NA	NA	NA	0.000479 (J)	144	—	—	—	—
RE00-22-248967	00-61593	1 5NE	North	6–7	QBT3	—	—	—	NA	NA	NA	0.000578 (J)	—	—	—	—	—
RE00-22-248968	00-61594	1 5NW	North	0–1	SOIL	—	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-248969	00-61594	1 5NW	North	3–4	SOIL	—	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-248970	00-61594	1 5NW	North	6–7	QBT3	—	—	—	NA	NA	NA	0.00042 (J)	—	—	—	—	—
RE00-22-248985	00-61599	2 10N	North	6.5–7.5	QBT3	0.0239	—	—	NA	NA	NA	0.000502 (J)	193	—	—	—	—
RE00-22-248986	00-61600	22 5NE	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-248987	00-61600	22 5NE	North	4–5	SOIL	0.128	0.107	—	—	—	8.59E-06	—	285	—	—	—	—
RE00-22-248988	00-61600	22 5NE	North	11.9–12.9	QBT3	—	—	—	—	—	1.07E-06 (J)	—	—	—	—	—	—
RE00-22-248989	00-61601	56A 10W	North	0–1	SOIL	0.021	0.0175	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-248990	00-61601	56A 10W	North	3–4	SOIL	0.01	0.00371	—	NA	NA	NA	—	51.6	—	—	—	—
RE00-22-248991	00-61601	56A 10W	North	11.6–12.6	QBT3	0.012 (J)	—	—	NA	NA	NA	—	—	—	—	—	—
RE00-22-248992	00-61602	94 10SE	South	0–1	SOIL	0.092 (J)	0.0761 (J)	—	NA	NA	NA	—	269	—	—	—	—
RE00-22-248994	00-61602	94 10SE	South	9.1–9.9	QBT3	0.00202 (J)	—	—	NA	NA	NA	0.000577 (J)	21.2	—	—	—	—
RE00-22-249014	00-61609	94 10S	South	4–5	SOIL	0.0199	—	NA	NA	NA	NA	—	59.7	—	—	—	—
RE00-22-249015	00-61609	94 10S	South	9.1–9.9	QBT3	0.00337	—	NA	NA	NA	NA	—	—	—	—	—	—
RE00-22-249019	00-61611	92 5NW	South	0–1	SOIL	0.107 (J)	0.218 (J)	0.29 (J)	—	—	—	—	695	—	—	—	—
RE00-22-249020	00-61611	92 5NW	South	3–4	SOIL	0.0385	0.0347 (J)	—	—	—	1.16E-06 (J)	—	—	—	—	—	—
RE00-22-249021	00-61611	92 5NW	South	7.7–8.7	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-249022	00-61612	22 10E	North	0–1	SOIL	0.0173 (J)	—	NA	NA	NA	NA	—	—	—	—	—	—
RE00-22-249023	00-61612	22 10E	North	4–5	SOIL	0.0231	0.0089 (J)	NA	NA	NA	NA	—	208	—	—	—	—
RE00-22-249024	00-61612	22 10E	North	11.9–12.9	QBT3	0.0366	0.0139 (J)	NA	NA	NA	NA	0.000373 (J)	265	—	—	—	—

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Phenanthrene	.Pyrene	RDX	Tetrachlorodibenzodioxins (Total)	Tetrachlorodibenzofuran[2,3,7,8-]	Tetrachlorodibenzofurans (Totals)	Toluene	Total PAHs	Trichloroethene	Trimethylbenzene[1,2,4-]	Xylene[1,2-]	Xylene[1,3-]+Xylene[1,4-]
Construction Worker SSL[b]						**8070**	**7530**	**1350**	**na**	**0.0172**	**na**	**14,000**	**na**	**6.90**	**504[d]**	**736**	**798[n]**
Industrial SSL[b]						**27,500**	**25,300**	**428**	**na**	**0.00243**	**na**	**61,300**	**na**	**36.5**	**1800[e]**	**3940**	**4280[n]**
Recreational SSL[f]						**8630**	**8630**	**399**	**na**	**0.00297**	**na**	**47,600**	**na**	**157**	**5010**	**26,000**	**24,900[n]**
Residential SSL[c]						**1850**	**1740**	**83.1**	**na**	**0.00049**	**na**	**5230**	**na**	**6.77**	**300[e]**	**805**	**871[n]**
RE00-22-249031	00-61616	27 5E	North	11.5–12.5	QBT3	0.00308 (J)	0.0041	NA	NA	NA	NA	—	—	—	—	—	—
RE00-22-249036	00-61618	2V	North	10–11	QBT3	0.0119 (J)	—	NA	NA	NA	NA	—	—	—	—	—	—
RE00-22-249037	00-61619	58 5N	South	4–5	SOIL	—	0.0864 (J)	NA	NA	NA	NA	—	—	—	—	—	—
RE00-22-249038	00-61619	58 5N	South	7–8	QBT3	—	0.102 (J)	NA	NA	NA	NA	—	—	—	—	—	—
RE00-22-249064	00-61619	58 5N	South	13.9–14.9	QBT3	0.0386 (J)	0.0421	—	—	4.12E-07 (J)	1.37E-06 (J)	—	—	—	—	—	—
RE00-22-249065	00-61619	58 5N	South	15.9–16.9	QBT3	—	0.0122 (J)	—	—	—	—	—	—	—	—	—	—
RE00-22-249039	00-61620	00-196	North	9.5–10.5	QBT3	—	—	NA	NA	NA	NA	0.000417 (J)	—	—	—	—	—
RE00-22-249041	00-61621	00-61521	North	9–10	QBT3	0.0157 (J)	—	NA	NA	NA	NA	—	—	—	—	—	—
RE00-22-249042	00-61621	00-61521	North	11–12	QBT3	0.01 (J)	—	NA	NA	NA	NA	—	—	—	—	—	—
RE00-22-249045	00-61622	22 5SE	North	11.9–12.9	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-249046	00-61623	17 5S	North	9–10	QBT3	—	—	NA	NA	NA	NA	—	—	—	—	—	—
RE00-22-249047	00-61623	17 5S	North	11–12	QBT3	0.017	—	NA	NA	NA	NA	—	56.2	—	—	—	—
RE00-22-249049	00-61624	00-212	North	10–11	QBT3	—	—	NA	NA	NA	NA	—	—	—	—	—	—
RE00-22-249050	00-61625	00-61553	North	9–10	QBT3	0.00838 (J)	—	NA	NA	NA	NA	—	—	—	—	—	—
RE00-22-249051	00-61625	00-61553	North	11–12	QBT3	0.0151 (J)	—	NA	NA	NA	NA	—	—	—	—	—	—
RE00-22-249025	00-61625	00-61553	North	13–14	QBT3	—	—	—	—	—	2.48E-07 (J)	—	—	—	—	—	—
RE00-22-249026	00-61625	00-61553	North	15–16	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-249053	00-61626	27 5W	North	8.5–9.5	QBT3	0.00238 (J)	—	NA	NA	NA	NA	—	—	—	—	—	—
RE00-22-249052	00-61626	27 5W	North	11.5–12.5	QBT3	0.0031 (J)	—	NA	NA	NA	NA	—	—	—	—	—	—
RE00-22-249055	00-61627	27 5N	North	11.5–12.5	QBT3	—	—	NA	NA	NA	NA	—	—	—	—	—	—
RE00-22-249056	00-61628	92 5S	South	7.7–8.7	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-249059	00-61630	00-210	North	9–10	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-22-249060	00-61630	00-210	North	11–12	QBT3	—	—	—	—	—	1.8E-07 (J)	—	—	—	—	—	—
RE00-22-250910	00-61651	2 10NW	North	0–1	SOIL	—	—	NA	NA	NA	NA	—	—	—	—	—	—
RE00-22-250911	00-61651	2 10NW	North	3–4	SOIL	0.054	—	NA	NA	NA	NA	0.00453 (J+)	464	—	—	0.000445 (J+)	0.000923 (J+)

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Phenanthrene	.Pyrene	RDX	Tetrachlorodibenzodioxins (Total)	Tetrachlorodibenzofuran[2,3,7,8-]	Tetrachlorodibenzofurans (Totals)	Toluene	Total PAHs	Trichloroethene	Trimethylbenzene[1,2,4-]	Xylene[1,2-]	Xylene[1,3-]+Xylene[1,4-]
Construction Worker SSL[b]						**8070**	**7530**	**1350**	**na**	**0.0172**	**na**	**14,000**	**na**	**6.90**	**504[d]**	**736**	**798[n]**
Industrial SSL[b]						**27,500**	**25,300**	**428**	**na**	**0.00243**	**na**	**61,300**	**na**	**36.5**	**1800[e]**	**3940**	**4280[n]**
Recreational SSL[f]						**8630**	**8630**	**399**	**na**	**0.00297**	**na**	**47,600**	**na**	**157**	**5010**	**26,000**	**24,900[n]**
Residential SSL[c]						**1850**	**1740**	**83.1**	**na**	**0.00049**	**na**	**5230**	**na**	**6.77**	**300[e]**	**805**	**871[n]**
RE00-22-250912	00-61651	2 10NW	North	6.5–7.5	QBT3	—	—	NA	NA	NA	NA	—	—	—	—	—	—
RE00-22-250916	00-61653	2 10SE	North	0–1	SOIL	0.0812	0.0353	NA	NA	NA	NA	—	618	—	—	—	—
RE00-22-250917	00-61653	2 10SE	North	3–4	SOIL	1.76	1.36	NA	NA	NA	NA	—	6190	—	—	—	—
RE00-22-250918	00-61653	2 10SE	North	6.5–7.5	QBT3	0.00315 (J)	—	NA	NA	NA	NA	—	13.7	—	—	—	—
RE00-22-250919	00-61654	1 10SW	North	0–1	SOIL	0.00836 (J)	0.0134 (J)	NA	NA	NA	NA	—	—	—	—	—	—
RE00-22-250920	00-61654	1 10SW	North	3–4	SOIL	0.00612	—	NA	NA	NA	NA	0.00266	82.5	—	—	—	—
RE00-22-250921	00-61654	1 10SW	North	6.5–7.5	QBT3	0.0389	0.0142 (J)	NA	NA	NA	NA	0.00609	573	—	—	—	0.000945 (J)
RE00-22-250922	00-61655	22 10SE	North	0–1	SOIL	0.0118 (J)	0.00795	NA	NA	NA	NA	—	76.7	—	—	—	—
RE00-22-250923	00-61655	22 10SE	North	4–5	SOIL	0.0129 (J)	0.00394	NA	NA	NA	NA	—	69.5	—	—	—	—
RE00-22-250924	00-61655	22 10SE	North	11.9–12.9	QBT3	0.00612	0.00238 (J)	NA	NA	NA	NA	—	—	—	—	—	—
RE00-22-250928	00-61657	22 10S	North	0–1	SOIL	0.00749 (J)	0.00511	—	—	2.05E-07 (J)	1.52E-06 (J)	—	31.3	—	—	—	—
RE00-22-250929	00-61657	22 10S	North	4–5	SOIL	0.00398 (J)	—	—	4.58E-07 (J)	2.15E-07 (J)	2.15E-07 (J)	—	—	—	—	—	—
RE00-22-250930	00-61657	22 10S	North	11.9–12.9	QBT3	0.00522 (J)	0.00313 (J)	—	—	—	—	0.000476 (J)	13.6	—	—	—	—
RE00-22-250931	00-61658	56A 10S	South	0–1	SOIL	0.0139 (J)	0.0208	NA	NA	NA	NA	0.000476 (J)	—	—	—	—	—
RE00-22-250932	00-61658	56A 10S	South	3–4	SOIL	0.044	0.0167	NA	NA	NA	NA	—	347	—	—	—	—
RE00-22-250933	00-61658	56A 10S	South	11.6–12.6	QBT3	0.0228 (J)	0.0131	NA	NA	NA	NA	0.000514 (J)	146	—	—	—	—
RE00-22-250934	00-61659	56A 10SE	North	0–1	SOIL	0.0203 (J)	0.0128	NA	NA	NA	NA	—	60	—	—	—	—
RE00-22-250935	00-61659	56A 10SE	North	3–4	SOIL	0.138	0.0368	NA	NA	NA	NA	0.000576 (J+)	1130	—	—	—	—
RE00-22-250936	00-61659	56A 10SE	North	11.6–12.6	QBT3	0.00708 (J)	0.00202 (J)	NA	NA	NA	NA	0.000455 (J)	59.7	—	—	—	—
RE00-22-250937	00-61660	56A 10SW	North	0–1	SOIL	0.0137 (J)	0.0223 (J)	NA	NA	NA	NA	—	—	—	—	—	—
RE00-22-250938	00-61660	56A 10SW	North	3–4	SOIL	0.0724 (J)	0.0334 (J)	NA	NA	NA	NA	—	393	—	—	—	—
RE00-22-250939	00-61660	56A 10SW	North	11.6–12.6	QBT3	0.00559	0.00245 (J)	NA	NA	NA	NA	—	12.2	—	—	—	—
RE00-22-250940	00-61661	94 10SW	South	0–1	SOIL	—	—	NA	NA	NA	NA	—	—	—	—	—	—
RE00-22-250941	00-61661	94 10SW	South	4–5	SOIL	0.0219 (J)	—	NA	NA	NA	NA	—	—	—	—	—	—
RE00-22-250942	00-61661	94 10SW	South	9.1–9.9	QBT3	0.0127 (J)	—	NA	NA	NA	NA	—	—	—	—	—	—

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Phenanthrene	.Pyrene	RDX	Tetrachlorodibenzodioxins (Total)	Tetrachlorodibenzofuran[2,3,7,8-]	Tetrachlorodibenzofurans (Totals)	Toluene	Total PAHs	Trichloroethene	Trimethylbenzene[1,2,4-]	Xylene[1,2-]	Xylene[1,3-]+Xylene[1,4-]
Construction Worker SSL[b]						**8070**	**7530**	**1350**	**na**	**0.0172**	**na**	**14,000**	**na**	**6.90**	**504[d]**	**736**	**798[n]**
Industrial SSL[b]						**27,500**	**25,300**	**428**	**na**	**0.00243**	**na**	**61,300**	**na**	**36.5**	**1800[e]**	**3940**	**4280[n]**
Recreational SSL[f]						**8630**	**8630**	**399**	**na**	**0.00297**	**na**	**47,600**	**na**	**157**	**5010**	**26,000**	**24,900[n]**
Residential SSL[c]						**1850**	**1740**	**83.1**	**na**	**0.00049**	**na**	**5230**	**na**	**6.77**	**300[e]**	**805**	**871[n]**
RE00-22-252842	00-61700	2 14N	North	6.5–7.5	QBT3	0.00428 (J)	—	NA	NA	NA	NA	—	35.3	—	—	—	—
RE00-22-252845	00-61701	2 15NNE	North	6.5–7.5	QBT3	0.0123 (J)	—	NA	NA	NA	NA	0.000495 (J)	57.9	—	—	—	—
RE00-22-253161	00-61705	29 10S	North	0–1	SOIL	0.00356	0.0032 (J)	NA	NA	NA	NA	—	—	—	—	—	—
RE00-22-253162	00-61705	29 10S	North	4–5	SOIL	0.00221 (J)	—	NA	NA	NA	NA	—	—	—	—	—	—
RE00-22-253163	00-61705	29 10S	North	7–8	SOIL	—	—	NA	NA	NA	NA	—	—	—	—	—	—
RE00-22-253164	00-61705	29 10S	North	9–10	SOIL	—	—	NA	NA	NA	NA	—	—	—	—	—	—
RE00-22-253165	00-61705	29 10S	North	11–12	QBT3	0.00206 (J)	—	NA	NA	NA	NA	—	—	—	—	—	—
RE00-22-253167	00-61706	29 10WSW	North	0–1	SOIL	0.00532	0.00461	NA	NA	NA	NA	—	—	—	—	—	—
RE00-22-253168	00-61706	29 10WSW	North	4–5	SOIL	0.0243 (J)	0.00861	NA	NA	NA	NA	—	183	—	—	—	—
RE00-22-253169	00-61706	29 10WSW	North	7–8	QBT3	—	—	NA	NA	NA	NA	—	—	—	—	—	—
RE00-22-253170	00-61706	29 10WSW	North	9–10	QBT3	0.00281 (J)	—	NA	NA	NA	NA	—	—	—	—	—	—
RE00-22-253171	00-61706	29 10WSW	North	11–12	QBT3	—	—	NA	NA	NA	NA	—	—	—	—	—	—
RE00-22-253172	00-61707	29 10SE	North	0–1	SOIL	0.0173 (J)	0.00884	NA	NA	NA	NA	—	110	—	—	—	—
RE00-22-253173	00-61707	29 10SE	North	4–5	SOIL	0.0477	0.0325	NA	NA	NA	NA	—	305	—	—	—	—
RE00-22-253174	00-61707	29 10SE	North	7–8	SOIL	0.0449	0.0271	NA	NA	NA	NA	—	347	—	—	—	—
RE00-22-253175	00-61707	29 10SE	North	9–10	SOIL	0.0248 (J)	0.011	NA	NA	NA	NA	—	182	—	—	—	—
RE00-22-253176	00-61707	29 10SE	North	11–12	QBT3	0.012 (J)	0.00602	NA	NA	NA	NA	0.000469 (J)	75.1	—	—	—	—
RE00-22-253177	00-61708	29 15SW	North	0–1	SOIL	—	—	NA	NA	NA	NA	—	—	—	—	—	—
RE00-22-253178	00-61708	29 15SW	North	4–5	SOIL	0.00212 (J)	—	NA	NA	NA	NA	—	—	—	—	—	—
RE00-22-253179	00-61708	29 15SW	North	7–8	QBT3	0.00369	—	NA	NA	NA	NA	—	—	—	—	—	—
RE00-22-253180	00-61708	29 15SW	North	9–10	QBT3	—	—	NA	NA	NA	NA	—	—	—	—	—	—
RE00-22-253181	00-61708	29 15SW	North	11–12	QBT3	0.00543	—	NA	NA	NA	NA	—	22.4	—	—	—	—
RE00-22-253182	00-61709	56A 5WV	North	13.6–14.6	QBT3	—	—	NA	NA	NA	NA	—	—	—	—	—	—
RE00-22-253184	00-61711	56A 10NW	North	0–1	SOIL	0.012 (J)	0.00703	NA	NA	NA	NA	—	67.5	—	—	—	—
RE00-22-253185	00-61711	56A 10NW	North	3–4	SOIL	0.0279	0.0111 (J)	NA	NA	NA	NA	—	126	—	—	—	—

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Phenanthrene	.Pyrene	RDX	Tetrachlorodibenzodioxins (Total)	Tetrachlorodibenzofuran[2,3,7,8-]	Tetrachlorodibenzofurans (Totals)	Toluene	Total PAHs	Trichloroethene	Trimethylbenzene[1,2,4-]	Xylene[1,2-]	Xylene[1,3-]+Xylene[1,4-]
Construction Worker SSL[b]						**8070**	**7530**	**1350**	**na**	**0.0172**	**na**	**14,000**	**na**	**6.90**	**504[d]**	**736**	**798[n]**
Industrial SSL[b]						**27,500**	**25,300**	**428**	**na**	**0.00243**	**na**	**61,300**	**na**	**36.5**	**1800[e]**	**3940**	**4280[n]**
Recreational SSL[f]						**8630**	**8630**	**399**	**na**	**0.00297**	**na**	**47,600**	**na**	**157**	**5010**	**26,000**	**24,900[n]**
Residential SSL[c]						**1850**	**1740**	**83.1**	**na**	**0.00049**	**na**	**5230**	**na**	**6.77**	**300[e]**	**805**	**871[n]**
RE00-22-253186	00-61711	56A 10NW	North	11.6–12.6	QBT3	0.0062	0.00219 (J)	NA	NA	NA	NA	—	12.8	—	—	—	—
RE00-22-253190	00-61712	94 15SW	South	0–1	SOIL	0.0354	0.0319 (J)	0.445 (J-)	—	—	—	—	—	—	—	—	—
RE00-22-253191	00-61712	94 15SW	South	4–5	SOIL	0.0107 (J)	0.00498	—	—	—	—	—	54	—	—	—	—
RE00-22-253192	00-61712	94 15SW	South	9.1–9.9	QBT3	0.0164 (J)	0.00429	—	—	—	—	—	93.7	—	—	—	—
RE00-22-253193	00-61713	94 15WSW	South	0–1	SOIL	0.0243 (J)	—	—	—	—	7.44E-06	—	—	—	—	—	—
RE00-22-253194	00-61713	94 15WSW	South	4–5	SOIL	0.0472	0.0114	0.628 (J-)	1.21E-06	5.77E-07 (J)	5.77E-07 (J)	—	294	—	—	—	—
RE00-22-253195	00-61713	94 15WSW	South	9.1–9.9	SOIL	0.00666	0.00235 (J)	—	—	—	—	0.0014	63.5	—	—	—	—
RE00-22-253196	00-61714	94 10W	South	0–1	SOIL	—	0.0103 (J)	—	—	—	—	—	—	—	—	—	—
RE00-22-253197	00-61714	94 10W	South	4–5	SOIL	0.0209 (J)	0.00672	—	—	—	—	0.00379 (J+)	102	—	—	0.000432 (J)	0.00106 (J)
RE00-22-253198	00-61714	94 10W	South	9.1–9.9	QBT3	0.0337 (J)	0.00806	—	—	—	—	0.0036 (J+)	274	—	—	0.000373 (J)	0.000987 (J)
RE00-22-253202	00-61716	58 10S	South	0–1	SOIL	0.0113	0.00872	NA	NA	NA	NA	—	81.4	—	—	—	—
RE00-22-253203	00-61716	58 10S	South	4–5	QBT3	0.011	0.00412	NA	NA	NA	NA	—	68.3	—	—	—	—
RE00-22-253204	00-61716	58 10S	South	7–8	QBT3	0.00783	0.00307 (J)	NA	NA	NA	NA	—	41.2	—	—	—	—
RE00-22-253205	00-61716	58 10S	South	9–10	QBT3	0.00237 (J)	—	NA	NA	NA	NA	—	—	—	—	—	—
RE00-22-253206	00-61716	58 10S	South	11–12	QBT3	0.00365	0.00199 (J)	NA	NA	NA	NA	0.000413 (J)	—	—	—	—	—
RE00-22-253207	00-61717	58 10SE	South	0–1	SOIL	0.00403 (J)	0.00403 (J)	NA	NA	NA	NA	—	30.9	—	—	—	—
RE00-22-253208	00-61717	58 10SE	South	4–5	QBT3	0.00306 (J)	—	NA	NA	NA	NA	—	—	—	—	—	—
RE00-22-253209	00-61717	58 10SE	South	7–8	QBT3	0.00422 (J)	0.00351 (J)	NA	NA	NA	NA	—	—	—	—	—	—
RE00-22-253210	00-61717	58 10SE	South	9–10	QBT3	0.00171 (J)	—	NA	NA	NA	NA	—	—	—	—	—	—
RE00-22-253211	00-61717	58 10SE	South	11–12	QBT3	0.00236 (J)	0.00202 (J)	NA	NA	NA	NA	—	—	—	—	0.0014	0.0012 (J)
RE00-22-255274	00-61722	2 25ENE	North	0–1	SOIL	0.0216 (J)	0.0115 (J)	NA	NA	NA	NA	—	157	—	—	—	—
RE00-22-255275	00-61722	2 25ENE	North	3–4	SOIL	0.00542 (J)	0.00289 (J)	NA	NA	NA	NA	—	12.3	—	—	—	—
RE00-22-255276	00-61722	2 25ENE	North	6.5–7.5	QBT3	0.00479 (J)	0.00581 (J)	NA	NA	NA	NA	—	—	—	—	—	—
RE00-22-255285	00-61725	2 19N	North	6.5–7.5	QBT3	0.0173	—	NA	NA	NA	NA	—	55.5	—	—	—	—
RE00-22-255286	00-61726	2 15NW	North	0–1	SOIL	0.0767	—	NA	NA	NA	NA	—	474	—	—	—	—

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Phenanthrene	.Pyrene	RDX	Tetrachlorodibenzodioxins (Total)	Tetrachlorodibenzofuran[2,3,7,8-]	Tetrachlorodibenzofurans (Totals)	Toluene	Total PAHs	Trichloroethene	Trimethylbenzene[1,2,4-]	Xylene[1,2-]	Xylene[1,3-]+Xylene[1,4-]
Construction Worker SSL[b]						**8070**	**7530**	**1350**	**na**	**0.0172**	**na**	**14,000**	**na**	**6.90**	**504[d]**	**736**	**798[n]**
Industrial SSL[b]						**27,500**	**25,300**	**428**	**na**	**0.00243**	**na**	**61,300**	**na**	**36.5**	**1800[e]**	**3940**	**4280[n]**
Recreational SSL[f]						**8630**	**8630**	**399**	**na**	**0.00297**	**na**	**47,600**	**na**	**157**	**5010**	**26,000**	**24,900[n]**
Residential SSL[c]						**1850**	**1740**	**83.1**	**na**	**0.00049**	**na**	**5230**	**na**	**6.77**	**300[e]**	**805**	**871[n]**
RE00-22-255287	00-61726	2 15NW	North	3–4	SOIL	0.0203	0.0737 (J)	NA	NA	NA	NA	—	374	—	—	—	—
RE00-22-255288	00-61726	2 15NW	North	6.5–7.5	SOIL	0.0129 (J)	0.0118 (J)	NA	NA	NA	NA	—	117	—	—	—	—
RE00-22-255289	00-61727	2 20NW	North	0–1	SOIL	0.0213	0.0107 (J)	NA	NA	NA	NA	—	53.4	—	—	—	—
RE00-22-255290	00-61727	2 20NW	North	3–4	SOIL	0.0818	0.032 (J)	NA	NA	NA	NA	—	633	—	—	—	—
RE00-22-255291	00-61727	2 20NW	North	6.5–7.5	SOIL	—	—	NA	NA	NA	NA	—	—	—	—	—	—
RE00-22-255294	00-61728	2 24N	North	6.5–7.5	QBT3	0.0148 (J)	0.0148 (J)	NA	NA	NA	NA	—	119	—	—	—	—
RE00-22-255295	00-61729	2 24NE	North	0–1	SOIL	0.122 (J)	0.0271 (J)	NA	NA	NA	NA	—	1110	—	—	—	—
RE00-22-255296	00-61729	2 24NE	North	3–4	SOIL	0.0276 (J)	0.0384	NA	NA	NA	NA	—	203	—	—	—	—
RE00-22-255297	00-61729	2 24NE	North	6.5–7.5	QBT3	0.0367	0.0228 (J)	NA	NA	NA	NA	0.000504 (J)	368	—	—	—	—
RE00-23-259861	00-61736	SE3	North	0–1	SOIL	—	0.0109 (J)	NA	NA	NA	NA	—	—	—	—	—	—
RE00-23-259864	00-61737	NE2	North	0–1	SOIL	0.0465	0.0232	NA	NA	NA	NA	—	191	—	—	—	—
RE00-23-259865	00-61737	NE2	North	3–4	SOIL	0.00554	—	NA	NA	NA	NA	—	13.7	—	—	—	—
RE00-23-259866	00-61737	NE2	North	6.5–7.5	QBT3	0.00676	0.00213 (J)	NA	NA	NA	NA	—	44.8	—	—	—	—
RE00-23-259867	00-61738	NE1	North	0–1	SOIL	0.063	0.0504	NA	NA	NA	NA	—	265	—	—	—	—
RE00-23-259868	00-61738	NE1	North	3–4	SOIL	0.0435	0.0156 (J)	NA	NA	NA	NA	—	195	—	—	—	—
RE00-23-259869	00-61738	NE1	North	6.5–7.5	QBT3	0.0244	0.00872 (J)	NA	NA	NA	NA	—	—	—	—	—	—
RE00-23-282088	00-61739	NE6	North	17–18	QBT3	0.013 (J)	0.00377	NA	NA	NA	NA	—	97.6 (J)	—	—	—	—
RE00-23-282089	00-61739	NE6	North	19–20	QBT3	0.0525	0.0175 (J)	NA	NA	NA	NA	—	454 (J)	—	—	—	—
RE00-23-259873	00-61740	2 25NW	North	0–1	SOIL	0.0733	0.0419	NA	NA	NA	NA	0.000926 (J)	475 (J)	—	—	—	—
RE00-23-259874	00-61740	2 25NW	North	3–4	SOIL	0.0644 (J)	0.0215	NA	NA	NA	NA	0.0007 (J)	585 (J)	—	—	—	—
RE00-23-259875	00-61740	2 25NW	North	6.5–7.5	QBT3	0.0212	0.0212	NA	NA	NA	NA	0.0033	152 (J)	—	—	—	0.000942 (J)
RE00-23-259876	00-61741	N1	North	0–1	SOIL	0.0545 (J)	0.0246	NA	NA	NA	NA	—	393 (J)	—	—	—	—
RE00-23-259877	00-61741	N1	North	3–4	SOIL	0.0534	0.0196	NA	NA	NA	NA	—	331 (J)	—	—	—	—
RE00-23-259878	00-61741	N1	North	6.5–7.5	QBT3	0.0124 (J)	—	NA	NA	NA	NA	—	—	—	—	—	—
RE00-23-259882	00-61743	SE2	North	0–1	SOIL	0.0167 (J)	0.0279 (J)	—	—	—	—	—	—	—	—	—	—

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Phenanthrene	.Pyrene	RDX	Tetrachlorodibenzodioxins (Total)	Tetrachlorodibenzofuran[2,3,7,8-]	Tetrachlorodibenzofurans (Totals)	Toluene	Total PAHs	Trichloroethene	Trimethylbenzene[1,2,4-]	Xylene[1,2-]	Xylene[1,3-]+Xylene[1,4-]
Construction Worker SSL[b]						**8070**	**7530**	**1350**	**na**	**0.0172**	**na**	**14,000**	**na**	**6.90**	**504[d]**	**736**	**798[n]**
Industrial SSL[b]						**27,500**	**25,300**	**428**	**na**	**0.00243**	**na**	**61,300**	**na**	**36.5**	**1800[e]**	**3940**	**4280[n]**
Recreational SSL[f]						**8630**	**8630**	**399**	**na**	**0.00297**	**na**	**47,600**	**na**	**157**	**5010**	**26,000**	**24,900[n]**
Residential SSL[c]						**1850**	**1740**	**83.1**	**na**	**0.00049**	**na**	**5230**	**na**	**6.77**	**300[e]**	**805**	**871[n]**
RE00-23-259883	00-61743	SE2	North	3–4	SOIL	—	—	—	1.09E-07 (J)	—	—	—	—	—	—	—	—
RE00-23-259884	00-61743	SE2	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	—	—	—
RE00-23-265182	00-61744	N2	North	0–1	SOIL	0.0366 (J)	0.0229 (J-)	—	—	—	9.97E-07 (J)	0.000484 (J)	NA	—	—	—	—
RE00-23-265183	00-61744	N2	North	3–4	SOIL	—	—	—	—	1.67E-07 (J)	1.67E-07 (J)	—	NA	—	—	—	—
RE00-23-265184	00-61744	N2	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	NA	—	—	—	—
RE00-23-265179	00-61745	NE10	North	0–1	SOIL	0.0549	0.0195	NA	NA	NA	NA	—	447 (J)	—	—	—	—
RE00-23-265180	00-61745	NE10	North	3–4	SOIL	0.00491	—	NA	NA	NA	NA	—	29.4 (J)	—	—	—	—
RE00-23-264877	00-61745	NE10	North	6.5–7.5	QBT3	0.00486	—	NA	NA	NA	NA	0.00175	43.4 (J)	—	—	—	—
RE00-23-264878	00-61746	N5	North	0–1	SOIL	0.0757 (J)	0.0289 (J)	NA	NA	NA	NA	—	530 (J)	—	—	—	—
RE00-23-264879	00-61746	N5	North	3–4	SOIL	0.00185 (J)	—	NA	NA	NA	NA	—	—	—	—	—	—
RE00-23-264880	00-61746	N5	North	6.5–7.5	QBT3	0.00376	0.00171 (J)	NA	NA	NA	NA	—	12 (J)	—	—	—	—
RE00-23-264881	00-61747	N4	North	0–1	SOIL	0.0527 (J)	0.0246 (J)	NA	NA	NA	NA	—	362 (J)	—	—	—	—
RE00-23-264882	00-61747	N4	North	3–4	SOIL	0.00298 (J)	—	NA	NA	NA	NA	—	—	—	—	—	—
RE00-23-264883	00-61747	N4	North	6.5–7.5	QBT3	0.00197 (J)	—	NA	NA	NA	NA	—	—	—	—	—	—
RE00-23-264884	00-61748	NE4	North	0–1	SOIL	0.0668 (J)	0.0281 (J)	NA	NA	NA	NA	—	362 (J)	—	—	—	—
RE00-23-264885	00-61748	NE4	North	3–4	SOIL	0.0723 (J)	0.0212 (J)	NA	NA	NA	NA	—	513 (J)	—	—	—	—
RE00-23-264886	00-61748	NE4	North	6.5–7.5	SOIL	0.0773	0.0246 (J)	NA	NA	NA	NA	—	441 (J)	—	—	—	—
RE00-23-265185	00-61749	N3	North	0–1	SOIL	0.0256 (J)	0.0143 (J-)	—	—	—	6.55E-07 (J)	—	NA	—	—	—	—
RE00-23-265186	00-61749	N3	North	3–4	SOIL	—	—	—	—	—	—	—	NA	—	—	—	—
RE00-23-265187	00-61749	N3	North	6.5–7.5	QBT3	0.00558	—	—	—	2.08E-07 (J)	—	—	NA	—	—	—	—
RE00-23-265188	00-61750	NE3	North	0–1	SOIL	0.341	0.0965 (J)	—	—	4.73E-07 (J)	1.76E-05 (J)	—	NA	—	—	—	—
RE00-23-265189	00-61750	NE3	North	3–4	SOIL	0.0132 (J)	0.00367	—	—	2.21E-07 (J)	1.52E-06 (J)	—	NA	—	—	—	—
RE00-23-265190	00-61750	NE3	North	6.5–7.5	QBT3	0.0177 (J)	0.00519	—	—	3.4E-07 (J)	4.09E-07 (J)	—	NA	—	—	—	—
RE00-23-264893	00-61751	2 20NEV	North	9–10	QBT3	0.0674	0.0248 (J)	NA	NA	NA	NA	—	291 (J)	—	—	—	—
RE00-23-264894	00-61751	2 20NEV	North	11–12	QBT3	0.0592	0.0209 (J)	NA	NA	NA	NA	—	264 (J)	—	—	—	—

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Phenanthrene	.Pyrene	RDX	Tetrachlorodibenzodioxins (Total)	Tetrachlorodibenzofuran[2,3,7,8-]	Tetrachlorodibenzofurans (Totals)	Toluene	Total PAHs	Trichloroethene	Trimethylbenzene[1,2,4-]	Xylene[1,2-]	Xylene[1,3-]+Xylene[1,4-]
Construction Worker SSL[b]						**8070**	**7530**	**1350**	**na**	**0.0172**	**na**	**14,000**	**na**	**6.90**	**504[d]**	**736**	**798[n]**
Industrial SSL[b]						**27,500**	**25,300**	**428**	**na**	**0.00243**	**na**	**61,300**	**na**	**36.5**	**1800[e]**	**3940**	**4280[n]**
Recreational SSL[f]						**8630**	**8630**	**399**	**na**	**0.00297**	**na**	**47,600**	**na**	**157**	**5010**	**26,000**	**24,900[n]**
Residential SSL[c]						**1850**	**1740**	**83.1**	**na**	**0.00049**	**na**	**5230**	**na**	**6.77**	**300[e]**	**805**	**871[n]**
RE00-23-264896	00-61752	N6	North	0–1	SOIL	0.123 (J)	0.0459	NA	NA	NA	NA	—	921	—	—	—	—
RE00-23-264897	00-61752	N6	North	3–4	SOIL	0.147 (J)	0.0431	NA	NA	NA	NA	—	1100	—	—	—	—
RE00-23-264898	00-61752	N6	North	6.5–7.5	QBT3	0.0172	—	NA	NA	NA	NA	—	60.4	—	—	—	—
RE00-23-264899	00-61753	NE5	North	0–1	SOIL	0.0463	0.0213 (J)	NA	NA	NA	NA	—	132	—	—	—	—
RE00-23-264900	00-61753	NE5	North	3–4	SOIL	0.00815	0.00222 (J)	NA	NA	NA	NA	0.000624 (J)	63.4 (J)	—	—	—	—
RE00-23-264901	00-61753	NE5	North	6.5–7.5	QBT3	0.0604	0.0155 (J)	NA	NA	NA	NA	0.00122	575 (J)	—	—	—	—
RE00-23-264902	00-61754	SE1V	North	9–10	QBT3	0.00166 (J)	—	NA	NA	NA	NA	—	—	—	—	—	—
RE00-23-264903	00-61754	SE1V	North	11–12	QBT3	0.00342	—	NA	NA	NA	NA	—	—	—	—	—	—
RE00-23-264909	00-61756	SE10	North	3–4	SOIL	0.0462 (J-)	0.0448 (J-)	NA	NA	NA	NA	—	181 (J-)	—	—	—	—
RE00-23-267856	00-61757	SE4	North	0–1	SOIL	0.00718 (J)	0.0197 (J)	NA	NA	NA	NA	—	40.4	—	—	—	—
RE00-23-267857	00-61757	SE4	North	3–4	SOIL	0.0022 (J)	—	NA	NA	NA	NA	—	—	—	—	—	—
RE00-23-267858	00-61757	SE4	North	6.5–7.5	QBT3	0.00307 (J)	0.00205 (J)	NA	NA	NA	NA	—	—	—	—	—	—
RE00-23-267859	00-61758	SE7	North	0–1	SOIL	0.00648 (J)	0.0114 (J)	NA	NA	NA	NA	—	24	—	—	—	—
RE00-23-267860	00-61758	SE7	North	3–4	SOIL	0.02 (J)	0.0145 (J)	NA	NA	NA	NA	0.000431 (J)	95.4	—	—	—	—
RE00-23-267861	00-61758	SE7	North	6.5–7.5	QBT3	0.00659 (J)	0.00451 (J)	NA	NA	NA	NA	—	10.8	—	—	—	—
RE00-23-267871	00-61762	NE7	North	0–1	SOIL	0.0662 (J)	0.0237	NA	NA	NA	NA	0.00111	629 (J)	—	—	0.000322 (J)	—
RE00-23-267872	00-61762	NE7	North	3–4	SOIL	0.00554	0.00332 (J)	NA	NA	NA	NA	—	—	—	—	—	—
RE00-23-267873	00-61762	NE7	North	6–7	QBT3	0.00592	0.00244 (J)	NA	NA	NA	NA	—	25.4 (J)	—	—	—	—
RE00-23-267874	00-61763	NE28	North	0–1	SOIL	0.0232 (J)	0.0111 (J)	NA	NA	NA	NA	—	217 (J)	—	—	—	—
RE00-23-267875	00-61763	NE28	North	3–4	SOIL	0.00285 (J)	—	NA	NA	NA	NA	—	—	—	—	—	—
RE00-23-267876	00-61763	NE28	North	5–6	QBT3	—	—	NA	NA	NA	NA	—	—	—	—	—	—
RE00-23-267877	00-61764	NE23	North	0–1	SOIL	0.157	0.0726	NA	NA	NA	NA	—	1270 (J)	—	—	—	—
RE00-23-267878	00-61764	NE23	North	3–4	SOIL	0.00538	0.00287 (J)	NA	NA	NA	NA	—	25.1 (J)	—	—	—	—
RE00-23-267879	00-61764	NE23	North	5–6	QBT3	0.00376	0.00171 (J)	NA	NA	NA	NA	—	10.6 (J)	—	—	—	—
RE00-23-267882	00-61765	NE24	North	5–6	QBT3	0.0171 (J)	0.00557	NA	NA	NA	NA	—	113 (J)	—	—	—	—

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Phenanthrene	.Pyrene	RDX	Tetrachlorodibenzodioxins (Total)	Tetrachlorodibenzofuran[2,3,7,8-]	Tetrachlorodibenzofurans (Totals)	Toluene	Total PAHs	Trichloroethene	Trimethylbenzene[1,2,4-]	Xylene[1,2-]	Xylene[1,3-]+Xylene[1,4-]
Construction Worker SSL[b]						**8070**	**7530**	**1350**	**na**	**0.0172**	**na**	**14,000**	**na**	**6.90**	**504[d]**	**736**	**798[n]**
Industrial SSL[b]						**27,500**	**25,300**	**428**	**na**	**0.00243**	**na**	**61,300**	**na**	**36.5**	**1800[e]**	**3940**	**4280[n]**
Recreational SSL[f]						**8630**	**8630**	**399**	**na**	**0.00297**	**na**	**47,600**	**na**	**157**	**5010**	**26,000**	**24,900[n]**
Residential SSL[c]						**1850**	**1740**	**83.1**	**na**	**0.00049**	**na**	**5230**	**na**	**6.77**	**300[e]**	**805**	**871[n]**
RE00-23-267886	00-61767	NE26	North	0–1	SOIL	0.125 (J)	0.0374	NA	NA	NA	NA	—	1120 (J)	—	—	—	—
RE00-23-267887	00-61767	NE26	North	3–4	SOIL	—	—	NA	NA	NA	NA	—	—	—	—	—	—
RE00-23-267888	00-61767	NE26	North	5–6	QBT3	0.00174 (J)	—	NA	NA	NA	NA	—	—	—	—	—	—
RE00-23-267889	00-61768	NE29	North	0.5–1.5	SOIL	0.0129 (J)	0.00924 (J)	NA	NA	NA	NA	—	94.6 (J)	—	—	—	—
RE00-23-267890	00-61768	NE29	North	3.5–4.5	QBT3	0.00245 (J)	—	NA	NA	NA	NA	—	—	—	—	—	—
RE00-23-267891	00-61768	NE29	North	5.5–6.5	QBT3	0.00207 (J)	—	NA	NA	NA	NA	—	—	—	—	—	—
RE00-23-271182	00-61775	NE34	North	3.5–4.5	QBT3	—	—	—	—	—	—	—	NA	—	—	—	—
RE00-23-271183	00-61775	NE34	North	5.5–6.5	QBT3	—	—	—	8.83E-08 (J)	—	2.49E-07 (J)	—	NA	—	—	—	—
RE00-23-271187	00-61776	NE25	North	5–6	QBT3	0.0132 (J)	—	NA	NA	NA	NA	—	97.5 (J)	—	—	—	—
RE00-23-271196	00-61779	SE11	North	6.5–7.5	QBT3	0.00543 (J)	0.00238 (J)	NA	NA	NA	NA	—	—	—	—	—	—
RE00-23-271197	00-61780	NE20	North	0–1	SOIL	0.259	0.0829	NA	NA	NA	NA	—	2210 (J)	—	—	—	—
RE00-23-271198	00-61780	NE20	North	3–4	SOIL	—	0.00355	NA	NA	NA	NA	—	12.4 (J)	—	—	—	—
RE00-23-271199	00-61780	NE20	North	6.5–7.5	QBT3	—	0.00167 (J)	NA	NA	NA	NA	—	14 (J)	—	—	—	—
RE00-23-271200	00-61781	NE21	North	0–1	SOIL	0.0868 (J)	0.0293 (J)	NA	NA	NA	NA	0.000368 (J)	859	—	—	—	—
RE00-23-271201	00-61781	NE21	North	3–4	SOIL	—	—	NA	NA	NA	NA	—	—	—	—	—	—
RE00-23-271202	00-61781	NE21	North	6.5–7.5	SOIL	—	—	NA	NA	NA	NA	—	—	—	—	—	—
RE00-23-271203	00-61782	NE54	North	0–1	SOIL	0.0636 (J)	0.0288 (J+)	NA	NA	NA	NA	—	525 (J)	—	—	—	—
RE00-23-271204	00-61782	NE54	North	3–4	SOIL	—	—	NA	NA	NA	NA	—	—	—	—	—	—
RE00-23-271205	00-61782	NE54	North	6.5–7.5	QBT3	—	—	NA	NA	NA	NA	—	11.6	—	—	—	—
RE00-23-271206	00-61783	NE53	North	0–1	SOIL	0.0445 (J)	0.0232 (J)	NA	NA	NA	NA	—	358 (J)	—	—	—	—
RE00-23-271207	00-61783	NE53	North	3–4	SOIL	0.0218 (J)	—	NA	NA	NA	NA	—	179	—	—	—	—
RE00-23-271208	00-61783	NE53	North	6.5–7.5	QBT3	0.0446 (J)	0.0123 (J+)	NA	NA	NA	NA	—	353	—	—	—	—
RE00-23-271209	00-61784	SE14	North	0–1	SOIL	0.0978 (J+)	0.035 (J+)	NA	NA	NA	NA	—	828	—	—	—	—
RE00-23-271210	00-61784	SE14	North	3–4	SOIL	—	—	NA	NA	NA	NA	—	—	—	—	—	—
RE00-23-271211	00-61784	SE14	North	5–6	QBT3	—	—	NA	NA	NA	NA	—	—	—	—	—	—

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Phenanthrene	.Pyrene	RDX	Tetrachlorodibenzodioxins (Total)	Tetrachlorodibenzofuran[2,3,7,8-]	Tetrachlorodibenzofurans (Totals)	Toluene	Total PAHs	Trichloroethene	Trimethylbenzene[1,2,4-]	Xylene[1,2-]	Xylene[1,3-]+Xylene[1,4-]
Construction Worker SSL[b]						**8070**	**7530**	**1350**	**na**	**0.0172**	**na**	**14,000**	**na**	**6.90**	**504[d]**	**736**	**798[n]**
Industrial SSL[b]						**27,500**	**25,300**	**428**	**na**	**0.00243**	**na**	**61,300**	**na**	**36.5**	**1800[e]**	**3940**	**4280[n]**
Recreational SSL[f]						**8630**	**8630**	**399**	**na**	**0.00297**	**na**	**47,600**	**na**	**157**	**5010**	**26,000**	**24,900[n]**
Residential SSL[c]						**1850**	**1740**	**83.1**	**na**	**0.00049**	**na**	**5230**	**na**	**6.77**	**300[e]**	**805**	**871[n]**
RE00-23-271215	00-61786	SE12	North	0–1	SOIL	0.0632 (J)	0.0281	—	—	—	3.88E-06	—	NA	—	—	—	—
RE00-23-271216	00-61786	SE12	North	3–4	SOIL	0.0667 (J)	0.0196	—	2.25E-06	—	—	—	NA	—	—	—	—
RE00-23-271217	00-61786	SE12	North	11–12	QBT3	0.0183 (J)	0.00576	—	—	—	5.38E-07 (J)	—	NA	—	—	—	—
RE00-23-271218	00-61787	SE15	North	0–1	SOIL	0.0381 (J)	0.036 (J)	NA	NA	NA	NA	—	229 (J)	—	—	—	—
RE00-23-271219	00-61787	SE15	North	3–4	SOIL	1.12 (J)	0.654 (J)	NA	NA	NA	NA	—	4780 (J)	—	—	—	—
RE00-23-271220	00-61787	SE15	North	11.5–12.5	QBT3	0.086 (J)	0.0582 (J)	NA	NA	NA	NA	—	398 (J)	—	—	—	—
RE00-23-271227	00-61790	NE45	North	0.5–1.5	SOIL	0.00494 (J)	0.00353 (J)	NA	NA	NA	NA	—	—	—	—	—	—
RE00-23-271230	00-61791	NE47	North	1–2	SOIL	0.00247 (J)	—	NA	NA	NA	NA	—	—	—	—	—	—
RE00-23-271233	00-61792	NE55	North	0–1	SOIL	0.169 (J)	0.126	—	—	5.02E-07 (J)	4.28E-06 (J)	0.000481 (J)	NA	—	—	—	—
RE00-23-271234	00-61792	NE55	North	3–4	SOIL	—	0.00181 (J)	—	—	—	—	—	NA	—	—	—	—
RE00-23-271235	00-61792	NE55	North	6.5–7.5	QBT3	—	0.00205 (J)	—	2.56E-07 (J)	1.65E-07 (J)	1.65E-07 (J)	—	NA	—	—	—	—
RE00-23-271236	00-61793	NE38	North	3–4	SOIL	—	—	—	—	—	—	—	NA	—	—	—	—
RE00-23-271239	00-61794	NE39	North	0.5–1.5	SOIL	0.0331 (J)	0.0136 (J)	—	—	—	5.68E-07 (J)	—	NA	—	—	—	—
RE00-23-271240	00-61794	NE39	North	2–3	QBT3	—	—	—	—	2.21E-07 (J)	2.21E-07 (J)	—	NA	—	—	—	—
RE00-23-271242	00-61795	NE48	North	3.5–4.5	QBT3	—	—	NA	NA	NA	NA	—	—	—	—	—	—
RE00-23-271243	00-61795	NE48	North	5.5–6.5	QBT3	0.166	0.198	NA	NA	NA	NA	—	749 (J)	—	—	—	—
RE00-23-271248	00-61797	NE56	North	0–1	SOIL	0.00551	0.00413 (J)	NA	NA	NA	NA	—	26.2	—	—	—	—
RE00-23-271249	00-61797	NE56	North	2–3	QBT3	—	—	NA	NA	NA	NA	—	—	—	—	—	—
RE00-23-282091	00-61799	NE60	North	0–1	SOIL	0.00339 (J)	0.00226 (J)	NA	NA	NA	NA	—	—	—	—	—	—
RE00-23-282092	00-61799	NE60	North	2–3	QBT3	—	—	NA	NA	NA	NA	—	—	—	—	—	—
RE00-23-289091	00-61804	NE68	North	0–1	SOIL	NA	NA	—	—	—	—	NA	NA	—	—	NA	NA
RE00-23-291181	00-61804	NE68	North	0–1	SOIL	0.00303 (J)	0.00404 (J)	NA	NA	NA	NA	—	NA	—	—	—	—
RE00-23-282118	00-61808	NE66	North	0–1	SOIL	—	0.0139 (J)	NA	NA	NA	NA	—	NA	—	—	—	—
RE00-23-291184	00-61811	NE67	North	0–1	SOIL	0.00371	0.00405 (J)	NA	NA	NA	NA	—	NA	—	—	—	—
RE00-23-289519	00-61813	NE80	North	0–1	SOIL	NA	NA	—	—	—	—	NA	NA	—	—	NA	NA

Table 5.2-2 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Phenanthrene	.Pyrene	RDX	Tetrachlorodibenzodioxins (Total)	Tetrachlorodibenzofuran[2,3,7,8-]	Tetrachlorodibenzofurans (Totals)	Toluene	Total PAHs	Trichloroethene	Trimethylbenzene[1,2,4-]	Xylene[1,2-]	Xylene[1,3-]+Xylene[1,4-]
Construction Worker SSL[b]						**8070**	**7530**	**1350**	**na**	**0.0172**	**na**	**14,000**	**na**	**6.90**	**504[d]**	**736**	**798[n]**
Industrial SSL[b]						**27,500**	**25,300**	**428**	**na**	**0.00243**	**na**	**61,300**	**na**	**36.5**	**1800[e]**	**3940**	**4280[n]**
Recreational SSL[f]						**8630**	**8630**	**399**	**na**	**0.00297**	**na**	**47,600**	**na**	**157**	**5010**	**26,000**	**24,900[n]**
Residential SSL[c]						**1850**	**1740**	**83.1**	**na**	**0.00049**	**na**	**5230**	**na**	**6.77**	**300[e]**	**805**	**871[n]**
RE00-23-291186	00-61813	NE80	North	0–1	SOIL	—	0.0119 (J)	NA	NA	NA	NA	—	NA	—	—	—	—
RE00-23-289520	00-61813	NE80	North	2–3	SOIL	NA	NA	—	—	—	2.66E-07 (J)	NA	NA	—	—	NA	NA
RE00-23-291187	00-61813	NE80	North	2–3	SOIL	—	0.00403	NA	NA	NA	NA	—	NA	—	—	—	—
RE00-23-289510	00-61815	NE74	North	0–1	SOIL	0.00317 (J)	0.00247 (J)	NA	NA	NA	NA	—	NA	—	—	—	—
RE00-23-289513	00-61816	NE79	North	0–1	SOIL	—	0.00398 (J)	NA	NA	NA	NA	—	NA	—	—	—	—
RE00-23-289514	00-61816	NE79	North	2–3	SOIL	0.00473 (J)	0.00436 (J)	NA	NA	NA	NA	—	NA	—	—	—	—
RE00-23-291188	00-61817	NE81	North	0–1	SOIL	0.00281 (J)	0.0162 (J)	NA	NA	NA	NA	—	NA	—	—	—	—
RE00-23-291189	00-61817	NE81	North	2–3	QBT3	0.00218 (J)	—	NA	NA	NA	NA	—	NA	—	—	—	—
RE00-23-290099	00-61818	NE82	North	0–1	SOIL	NA	NA	—	—	2.2E-07 (J)	5.73E-07 (J)	NA	NA	—	—	NA	NA
RE00-23-291190	00-61818	NE82	North	0–1	SOIL	0.00307 (J)	0.00614	NA	NA	NA	NA	—	NA	—	—	—	—
RE00-23-290100	00-61818	NE82	North	2–3	SOIL	NA	NA	—	—	—	—	NA	NA	—	—	NA	NA
RE00-23-290101	00-61818	NE82	North	4–5	QBT3	NA	NA	—	—	—	1.54E-07 (J)	NA	NA	—	—	NA	NA
RE00-23-291192	00-61818	NE82	North	4–5	QBT3	—	—	NA	NA	NA	NA	—	NA	—	—	—	—

Notes: Results are in mg/kg. Data qualifiers are presented in Appendix A.

[a] Sampling location in northern or southern portion of Tract A-16-a.

[b] SSLs from NMED (2022, 702484) unless otherwise noted.

[c] Pyrene used as a surrogate based on structural similarity.

[d] Construction worker SSLs calculated using the equations outlined in NMED (2022, 702484), incorporating toxicity and chemical-specific parameters from EPA regional screening level tables (https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables).

[e] EPA regional screening levels (https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables).

[f] SSLs from N3B (2020, 701072).

[g] na = Not available.

[h] — = Not detected.

[i] NA = Not analyzed.

[j] Dibenzofuran used as a surrogate based on structural similarity.

[k] Chloronaphthalene[b-] used as a surrogate based on structural similarity.

[l] Ethyl ether used as a surrogate based on structural similarity.

[m] Isopropylbenzene used as a surrogate based on structural similarity.

[n] Total xylenes used as a surrogate based on structural similarity.

Table 5.2-3
Radionuclides Detected or Detected above BV/FV at MDPR Tract A-16-a

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Americium-241	Cesium-137	Cobalt-60	Plutonium-238	Plutonium-239/240	Strontium-90	Technetium-99	Thorium-228	Thorium-230	Uranium-234	Uranium-235/236	Uranium-238
Soil BV/FV[b]						**0.013**	**1.65**	**na[c]**	**0.023**	**0.054**	**1.31**	**na**	**2.28**	**2.29**	**2.59**	**0.2**	**2.29**
Qbt2, 3, 4 BV/FV[b]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**2.52**	**1.98**	**1.98**	**0.09**	**1.93**
Construction Worker SAL[d]						**230**	**37**	**8.1**	**230**	**200**	**1400**	**110,000**	**15**	**5**	**1000**	**130**	**470**
Industrial SAL[d]						**1000**	**41**	**9**	**1300**	**1200**	**2400**	**330,000**	**17**	**5**	**3100**	**160**	**710**
Recreational SAL[d]						**1500**	**370**	**81**	**1400**	**1300**	**4900**	**220,000**	**130**	**5**	**3900**	**1000**	**2800**
Residential SAL[d]						**83**	**12**	**2.6**	**84**	**79**	**15**	**21**	**4.6**	**5**	**290**	**42**	**150**
RE00-22-238046	00-173	9	North	6.5–7.5	QBT3	—[e]	—	—	—	—	—	—	—	—	3.06	0.198	3.43
RE00-22-238071	00-183	10	North	11–12	QBT3	—	—	—	—	—	—	—	—	—	—	0.101	—
RE00-22-238078	00-186	97	South	0–1	SOIL	—	—	—	—	0.324 (J)	—	—	—	—	—	—	—
RE00-22-238079	00-186	97	South	3–4	SOIL	—	—	—	—	0.106	—	—	—	—	—	—	—
RE00-22-238082	00-187	21	North	11–12	QBT3	—	—	—	—	—	0.578	—	—	—	—	0.0969	—
RE00-22-238090	00-190	90	South	6–7	QBT3	—	—	—	—	0.0845	—	—	—	—	—	—	—
RE00-22-238096	00-193	98	North	9.5–10.5	QBT3	—	—	—	—	—	0.449	—	—	—	—	—	—
RE00-22-238103	00-196	3	North	3.3–4.5	FILL	—	—	—	—	0.075	—	—	—	—	—	—	—
RE00-22-238104	00-196	3	North	7.5–8.5	QBT3	—	—	—	—	0.115	—	—	—	—	—	—	—
RE00-22-238105	00-197	27	North	8.5–9.5	QBT3	—	—	—	—	—	0.418 (J)	—	—	—	—	—	—
RE00-22-238107	00-198	99	South	0–1	SOIL	—	—	—	—	0.156	—	—	—	—	—	—	—
RE00-22-238108	00-198	99	South	3–4	SOIL	—	—	—	—	0.14	—	—	—	—	—	—	—
RE00-22-238112	00-200	66	South	0–1	FILL	—	—	—	—	3.94	—	—	—	—	—	—	—
RE00-22-238114	00-200	66	South	6.1–7.1	QBT3	—	—	—	—	0.601	—	—	—	—	—	—	—
RE00-22-238115	00-201	89	South	7.5–8.5	QBT3	—	—	—	—	—	—	—	—	—	2.93	0.104	2.59
RE00-22-238116	00-201	89	South	10.5–11.5	QBT3	—	—	—	—	—	0.591	—	—	—	—	—	—
RE00-22-238117	00-202	92	South	0–1	FILL	—	—	—	—	0.296	—	—	—	—	—	—	—
RE00-22-238118	00-202	92	South	3–4	FILL	—	—	—	—	0.596	—	—	—	—	—	—	—
RE00-22-238119	00-202	92	South	7.7–8.7	QBT3	—	—	—	—	0.0647	—	—	—	—	—	—	—
RE00-22-238120	00-203	86	South	10–11	QBT3	—	—	—	—	—	0.656	—	—	—	8.39	0.339	7.9
RE00-22-238121	00-203	86	South	13–14	QBT3	0.125	—	—	—	—	—	—	—	—	5.91	0.283	5.83
RE00-22-238122	00-204	57A	South	0–1	SOIL	—	—	—	—	0.0748 (J)	—	—	—	—	—	—	—
RE00-22-238123	00-204	57A	South	3–4	SOIL	—	—	—	—	0.224 (J)	—	—	—	—	—	—	—
RE00-22-238125	00-205	72	South	13–14	QBT3	—	—	—	—	0.854 (J)	—	—	—	—	—	0.114	1.94
RE00-22-238126	00-205	72	South	16–17	QBT3	—	—	—	—	—	—	—	—	—	2.7	0.127	2.66
RE00-22-238129	00-206	18	North	7.8–8.8	QBT3	—	—	—	—	0.126 (J)	—	—	—	—	3.71	0.19 (J)	3.75
RE00-22-238132	00-208	70	South	0–1	FILL	—	—	—	—	1.31	—	—	—	—	—	—	—
RE00-22-238135	00-209	76	South	13–14	QBT3	—	—	—	—	0.0359 (J)	—	—	—	—	4.2	0.242	4.14

Table 5.2-3 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Americium-241	Cesium-137	Cobalt-60	Plutonium-238	Plutonium-239/240	Strontium-90	Technetium-99	Thorium-228	Thorium-230	Uranium-234	Uranium-235/236	Uranium-238
Soil BV/FV[b]						**0.013**	**1.65**	**na[c]**	**0.023**	**0.054**	**1.31**	**na**	**2.28**	**2.29**	**2.59**	**0.2**	**2.29**
Qbt2, 3, 4 BV/FV[b]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**2.52**	**1.98**	**1.98**	**0.09**	**1.93**
Construction Worker SAL[d]						**230**	**37**	**8.1**	**230**	**200**	**1400**	**110,000**	**15**	**5**	**1000**	**130**	**470**
Industrial SAL[d]						**1000**	**41**	**9**	**1300**	**1200**	**2400**	**330,000**	**17**	**5**	**3100**	**160**	**710**
Recreational SAL[d]						**1500**	**370**	**81**	**1400**	**1300**	**4900**	**220,000**	**130**	**5**	**3900**	**1000**	**2800**
Residential SAL[d]						**83**	**12**	**2.6**	**84**	**79**	**15**	**21**	**4.6**	**5**	**290**	**42**	**150**
RE00-22-238139	00-210	29	North	0–1.4	FILL	—	—	—	—	0.269	—	—	—	—	—	—	—
RE00-22-238137	00-210	29	North	7–8	QBT3	—	—	—	—	0.12	—	—	—	—	—	—	—
RE00-22-238140	00-211	82	South	14.5–15.5	QBT3	0.108	—	—	—	—	—	—	—	—	—	—	—
RE00-22-238141	00-211	82	South	17.5–18.5	QBT3	—	—	—	—	—	—	—	—	—	—	0.102	—
RE00-22-238142	00-212	20	North	0–1	FILL	—	—	—	—	0.0566	—	—	—	—	—	—	—
RE00-22-238143	00-212	20	North	4–5	SOIL	—	—	—	—	—	0.343	—	—	—	—	—	—
RE00-22-238145	00-213	79	South	12–13	QBT3	—	—	—	—	0.184	—	—	—	—	—	—	—
RE00-22-238148	00-214	26	North	4–5	SOIL	—	—	—	—	0.103	0.351	—	—	—	—	—	—
RE00-22-238151	00-215	12	North	10.5–11.5	QBT3	—	—	—	—	—	0.493	—	—	—	—	—	—
RE00-22-238152	00-216	83	South	12–13	QBT3	—	—	—	—	0.647 (J)	—	—	—	—	—	—	—
RE00-22-238154	00-217	80	South	12–13	QBT3	—	—	—	—	0.0965 (J)	—	—	—	—	—	—	—
RE00-22-238155	00-217	80	South	15–16	QBT3	—	—	—	—	0.213 (J)	—	—	—	—	—	—	—
RE00-22-238156	00-218	22	North	0–1	FILL	—	—	—	—	0.101	—	—	—	—	—	—	—
RE00-22-238157	00-218	22	North	4–5	FILL	—	—	—	—	0.43	—	—	—	—	—	—	—
RE00-22-238158	00-218	22	North	11.9–12.9	QBT3	—	—	—	—	0.233	—	—	—	—	—	0.0961	—
RE00-22-238161	00-220	85	South	0–1	FILL	—	—	—	—	0.521	—	—	—	—	—	—	—
RE00-22-238166	00-222	7	North	0–1	FILL	—	—	—	—	0.0619	—	—	—	—	—	—	—
RE00-22-238167	00-222	7	North	3–4	SOIL	—	—	—	—	0.133	—	—	2.32	—	—	—	—
RE00-22-238174	00-225	77	South	8.5–9.5	QBT3	—	—	—	—	0.163	—	—	—	—	—	—	—
RE00-22-238177	00-226	95	South	3–4	SOIL	—	—	—	—	0.0715	—	—	—	—	—	—	—
RE00-22-238181	00-228	59	South	0–1	FILL	—	—	—	—	0.219	—	—	—	—	—	—	—
RE00-22-238281	00-228	59	South	4–5	SOIL	—	—	—	—	0.362	—	—	—	—	—	—	—
RE00-22-238192	00-232	96	South	0–1	FILL	—	—	—	—	0.114	—	—	—	—	—	—	—
RE00-22-238191	00-232	96	South	4–5	FILL	—	—	—	—	0.115	—	—	—	—	—	—	—
RE00-22-238194	00-233	64	South	7.5–8.5	QBT3	—	—	—	—	0.899	—	—	—	—	—	—	—
RE00-22-238196	00-234	61	South	12.5–13.5	QBT3	—	—	—	0.0506	4.86	—	—	—	—	—	—	—
RE00-22-238197	00-234	61	South	15.5–16.5	QBT3	—	—	—	—	0.858	—	—	—	—	3.32	0.132	3.25
RE00-22-238200	00-236	60	South	13–14	QBT3	—	—	—	—	0.486	—	—	—	—	—	—	—
RE00-22-238204	00-238	63	South	4–5	QBT3	—	—	—	—	0.0428	—	—	—	—	22.2	1.39	22.3

Table 5.2-3 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Americium-241	Cesium-137	Cobalt-60	Plutonium-238	Plutonium-239/240	Strontium-90	Technetium-99	Thorium-228	Thorium-230	Uranium-234	Uranium-235/236	Uranium-238
Soil BV/FV[b]						**0.013**	**1.65**	**na[c]**	**0.023**	**0.054**	**1.31**	**na**	**2.28**	**2.29**	**2.59**	**0.2**	**2.29**
Qbt2, 3, 4 BV/FV[b]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**2.52**	**1.98**	**1.98**	**0.09**	**1.93**
Construction Worker SAL[d]						**230**	**37**	**8.1**	**230**	**200**	**1400**	**110,000**	**15**	**5**	**1000**	**130**	**470**
Industrial SAL[d]						**1000**	**41**	**9**	**1300**	**1200**	**2400**	**330,000**	**17**	**5**	**3100**	**160**	**710**
Recreational SAL[d]						**1500**	**370**	**81**	**1400**	**1300**	**4900**	**220,000**	**130**	**5**	**3900**	**1000**	**2800**
Residential SAL[d]						**83**	**12**	**2.6**	**84**	**79**	**15**	**21**	**4.6**	**5**	**290**	**42**	**150**
RE00-22-238205	00-238	63	South	7–8	QBT3	—	—	—	—	—	—	—	—	—	5.89	0.339	5.89
RE00-22-238206	00-239	67	South	6.5–7.5	QBT3	—	—	—	—	0.378	—	—	—	—	—	—	—
RE00-22-238207	00-239	67	South	9.5–10.5	QBT3	—	—	—	—	0.136	—	—	—	—	—	—	—
RE00-22-238208	00-240	68	South	5–6	QBT3	—	—	—	—	3.86	—	—	—	—	—	—	—
RE00-22-238209	00-240	68	South	8–9	QBT3	—	—	—	—	0.26	—	—	—	—	2.19	0.104	2.25
RE00-22-238227	00-249	5	North	11–12	QBT3	—	—	—	—	—	—	—	2.78	—	—	—	—
RE00-22-238238	00-255	93	South	0–1	FILL	—	—	—	—	0.405	—	—	—	—	—	—	—
RE00-22-238242	00-256	14	North	7.3–8.3	QBT3	—	—	—	—	0.232	—	—	—	—	—	—	—
RE00-22-239164	00-257	6	North	6.1–7.1	QBT3	—	—	—	—	0.0362	0.425	—	—	—	9.56	0.398	9.48
RE00-22-238248	00-259	75	South	0–1	FILL	—	—	—	—	1.9	—	—	—	—	—	—	—
RE00-22-238252	00-260	88	South	5–6	QBT3	—	—	—	—	0.0377	—	—	—	—	—	—	—
RE00-22-238253	00-261	56A—ACM	North	0–1	SOIL	—	—	—	—	0.324	—	—	—	—	—	—	—
RE00-22-238254	00-261	56A—ACM	North	3–4	SOIL	—	—	—	—	0.161	—	—	—	—	—	—	—
RE00-22-238255	00-261	56A—ACM	North	11.6–12.6	QBT3	—	—	—	—	0.122	—	—	—	—	—	—	—
RE00-22-238273	00-61519	16	North	0–1	FILL	—	—	—	—	0.214	—	—	—	—	—	—	—
RE00-22-238278	00-61519	16	North	3–4	SOIL	—	0.142	—	—	0.336	—	—	—	—	—	—	—
RE00-22-238283	00-61519	16	North	12–13	QBT3	—	—	—	—	0.248	—	—	—	—	—	—	—
RE00-22-238274	00-61520	94	North	0–1	FILL	—	—	—	—	0.535	—	—	—	—	—	—	—
RE00-22-238287	00-61523	74	South	0–1	SOIL	—	—	—	—	0.0869	—	—	—	—	—	—	—
RE00-22-238282	00-61523	74	South	4–5	SOIL	—	—	—	—	1.76	—	—	—	—	—	—	—
RE00-22-238277	00-61523	74	South	8–9	QBT3	—	—	—	—	0.114	—	—	—	—	—	—	—
RE00-22-238300	00-61526	56	South	6–7	FILL	—	—	—	—	0.27	—	—	—	—	—	—	—
RE00-22-238292	00-61528	65	South	0–1	FILL	—	—	—	—	0.178	—	—	—	—	—	—	—
RE00-22-238297	00-61528	65	South	3–4	FILL	—	—	—	—	0.376	—	—	—	—	—	—	—
RE00-22-238302	00-61528	65	South	6–7	FILL	—	—	—	—	0.175	—	—	—	—	—	—	—
RE00-22-238307	00-61528	65	South	9–10	QBT3	—	—	—	—	0.123	—	—	—	—	—	—	—
RE00-22-239218	00-61547	55A—ACM	North	0–1	SOIL	—	—	—	—	0.27	—	—	—	—	—	—	—
RE00-22-239228	00-61547	55A—ACM	North	3–4	SOIL	—	—	—	—	0.337	—	—	—	—	—	—	—
RE00-22-239238	00-61547	55A—ACM	North	11.9–12.9	QBT3	—	—	—	—	0.175	—	—	—	—	—	—	—

Table 5.2-3 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Americium-241	Cesium-137	Cobalt-60	Plutonium-238	Plutonium-239/240	Strontium-90	Technetium-99	Thorium-228	Thorium-230	Uranium-234	Uranium-235/236	Uranium-238
Soil BV/FV[b]						**0.013**	**1.65**	**na[c]**	**0.023**	**0.054**	**1.31**	**na**	**2.28**	**2.29**	**2.59**	**0.2**	**2.29**
Qbt2, 3, 4 BV/FV[b]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**2.52**	**1.98**	**1.98**	**0.09**	**1.93**
Construction Worker SAL[d]						**230**	**37**	**8.1**	**230**	**200**	**1400**	**110,000**	**15**	**5**	**1000**	**130**	**470**
Industrial SAL[d]						**1000**	**41**	**9**	**1300**	**1200**	**2400**	**330,000**	**17**	**5**	**3100**	**160**	**710**
Recreational SAL[d]						**1500**	**370**	**81**	**1400**	**1300**	**4900**	**220,000**	**130**	**5**	**3900**	**1000**	**2800**
Residential SAL[d]						**83**	**12**	**2.6**	**84**	**79**	**15**	**21**	**4.6**	**5**	**290**	**42**	**150**
RE00-22-239221	00-61550	58A	South	0–1	SOIL	—	—	—	—	0.647 (J)	—	—	—	—	—	—	—
RE00-22-239231	00-61550	58A	South	3–4	SOIL	—	—	—	—	0.774	—	—	—	—	—	—	—
RE00-22-239241	00-61550	58A	South	8–9	QBT3	—	—	—	—	0.0895	—	—	—	—	—	—	—
RE00-22-239224	00-61553	54A	North	0–1	SOIL	—	—	—	—	0.0664	—	—	—	—	—	—	—
RE00-22-239234	00-61553	54A	North	4–5	SOIL	—	—	—	—	0.33	—	—	—	—	—	—	—
RE00-22-239244	00-61553	54A	North	6.9–7.9	QBT3	—	—	—	—	0.101	—	—	—	—	—	—	—
RE00-22-248888	00-61568	29 5NE	North	0–1	SOIL	—	—	—	—	2.16	—	—	—	—	—	—	—
RE00-22-248890	00-61568	29 5NE	North	7–8	QBT3	—	—	—	—	0.103	—	—	—	—	—	—	—
RE00-22-248891	00-61569	29 5S	North	0–1	SOIL	—	—	—	—	0.24	—	—	—	—	—	—	—
RE00-22-248892	00-61569	29 5S	North	4–5	SOIL	—	—	—	—	—	0.434	—	—	—	—	—	—
RE00-22-249057	00-61569	29 5S	North	9–10	QBT3	—	—	—	—	0.0504	—	—	—	—	—	—	—
RE00-22-249058	00-61569	29 5S	North	11–12	QBT3	—	—	—	—	0.0706 (J)	—	—	—	—	—	—	—
RE00-22-248894	00-61570	29 5SE	North	0–1	SOIL	—	—	—	—	0.358	—	—	—	—	—	—	—
RE00-22-248897	00-61571	22 5E	North	0–1	SOIL	—	—	—	—	0.703	—	—	—	—	—	—	—
RE00-22-248898	00-61571	22 5E	North	4–5	SOIL	—	—	—	—	0.787	—	—	—	—	—	—	—
RE00-22-248899	00-61571	22 5E	North	11.9–12.9	QBT3	—	—	—	—	0.252	—	—	—	—	—	—	—
RE00-22-248900	00-61572	92 5E	South	0–1	SOIL	—	—	—	—	1.38	—	—	—	—	—	—	—
RE00-22-248901	00-61572	92 5E	South	3–4	SOIL	—	—	—	—	0.319	—	—	—	—	—	—	—
RE00-22-248902	00-61572	92 5E	South	7.7–8.7	QBT3	—	—	—	—	0.156	—	—	—	—	—	—	—
RE00-22-248903	00-61573	92 5N	South	0–1	SOIL	—	—	—	—	0.128	—	—	—	—	—	—	—
RE00-22-248904	00-61573	92 5N	South	3–4	SOIL	—	—	—	0.0242	0.0978	—	—	—	—	—	—	—
RE00-22-248906	00-61574	56A 5E	North	0–1	SOIL	—	—	—	—	3.1	—	—	—	—	—	—	—
RE00-22-248907	00-61574	56A 5E	North	3–4	SOIL	—	—	—	—	0.487	—	—	—	—	—	—	—
RE00-22-248909	00-61575	56A 5N	North	0–1	SOIL	—	—	—	—	1.44	—	—	—	—	—	—	—
RE00-22-248910	00-61575	56A 5N	North	3–4	SOIL	—	—	—	—	0.306	0.451	—	—	—	—	—	—
RE00-22-248911	00-61575	56A 5N	North	11.6–12.6	QBT3	—	—	—	—	0.051	—	—	—	—	—	—	—
RE00-22-248912	00-61576	56A 5W	North	0–1	SOIL	—	—	—	—	0.488	—	—	—	—	—	—	—
RE00-22-248913	00-61576	56A 5W	North	3–4	SOIL	—	—	—	—	0.164 (J)	—	—	—	—	—	—	—
RE00-22-248914	00-61576	56A 5W	North	11.6–12.6	QBT3	—	—	—	—	0.042	—	—	—	—	—	—	—

Table 5.2-3 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Americium-241	Cesium-137	Cobalt-60	Plutonium-238	Plutonium-239/240	Strontium-90	Technetium-99	Thorium-228	Thorium-230	Uranium-234	Uranium-235/236	Uranium-238
Soil BV/FV[b]						**0.013**	**1.65**	**na[c]**	**0.023**	**0.054**	**1.31**	**na**	**2.28**	**2.29**	**2.59**	**0.2**	**2.29**
Qbt2, 3, 4 BV/FV[b]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**2.52**	**1.98**	**1.98**	**0.09**	**1.93**
Construction Worker SAL[d]						**230**	**37**	**8.1**	**230**	**200**	**1400**	**110,000**	**15**	**5**	**1000**	**130**	**470**
Industrial SAL[d]						**1000**	**41**	**9**	**1300**	**1200**	**2400**	**330,000**	**17**	**5**	**3100**	**160**	**710**
Recreational SAL[d]						**1500**	**370**	**81**	**1400**	**1300**	**4900**	**220,000**	**130**	**5**	**3900**	**1000**	**2800**
Residential SAL[d]						**83**	**12**	**2.6**	**84**	**79**	**15**	**21**	**4.6**	**5**	**290**	**42**	**150**
RE00-22-248915	00-61577	56A 5S	North	0–1	SOIL	—	—	—	—	0.248	—	—	—	—	—	—	—
RE00-22-248916	00-61577	56A 5S	North	3–4	SOIL	—	—	—	—	0.367	—	—	—	—	—	—	—
RE00-22-248917	00-61577	56A 5S	North	11.6–12.6	QBT3	—	—	—	—	0.0391	—	—	—	—	—	—	—
RE00-22-248930	00-61581	2 5S	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	2.87	0.226	2.95
RE00-22-248979	00-61582	2 5SE	North	8.5–9.5	QBT3	—	—	—	—	0.0357	—	—	—	—	—	—	—
RE00-22-248982	00-61582	2 5SE	North	10.5–11.5	QBT3	—	—	—	—	0.0472	—	—	—	—	—	—	—
RE00-22-248934	00-61583	58 5E	South	0–1	SOIL	—	—	—	—	24.1 (J)	—	—	—	—	—	—	—
RE00-22-248935	00-61583	58 5E	South	4–5	SOIL	—	—	—	—	2.48	—	—	—	—	—	—	—
RE00-22-248936	00-61583	58 5E	South	7–8	QBT3	—	—	—	—	3.78 (J)	—	—	—	—	—	—	—
RE00-22-255298	00-61584	58 5SW	South	13–14	SOIL	—	—	—	—	2.64	—	—	—	—	5.04	0.286	4.95
RE00-22-248943	00-61586	94 5S	South	0–1	SOIL	—	—	—	—	1.01	—	—	—	—	—	—	—
RE00-22-248944	00-61586	94 5S	South	4–5	SOIL	—	—	—	—	—	—	—	—	—	6.01	—	—
RE00-22-248945	00-61586	94 5S	South	9.1–9.9	QBT3	—	—	—	—	0.0484 (J)	—	—	—	—	—	—	—
RE00-22-248946	00-61587	94 5E	South	0–1	SOIL	—	—	—	—	1.65	—	—	—	—	—	—	—
RE00-22-248947	00-61587	94 5E	South	4–5	SOIL	—	—	—	—	0.757	—	—	—	—	—	—	—
RE00-22-248948	00-61587	94 5E	South	9.1–9.9	QBT3	—	—	—	—	0.999	—	—	—	—	—	—	—
RE00-22-249009	00-61587	94 5E	South	10.9–11.9	QBT3	—	—	—	—	0.264	—	—	—	—	—	—	—
RE00-22-249010	00-61587	94 5E	South	12.9–13.9	QBT3	—	—	—	—	0.135	—	—	—	—	—	—	—
RE00-22-248949	00-61588	94 5W	South	0–1	SOIL	—	—	—	—	0.626 (J)	—	—	—	—	—	—	—
RE00-22-248950	00-61588	94 5W	South	4–5	SOIL	—	—	—	—	0.0798	—	—	—	—	—	—	—
RE00-22-248951	00-61588	94 5W	South	9.1–9.9	QBT3	—	—	—	—	0.0907	—	—	—	—	—	—	—
RE00-22-248953	00-61589	29 5W	North	4–5	SOIL	—	—	—	—	0.194	—	—	—	—	—	—	—
RE00-22-248956	00-61590	95 5W	South	0–1	SOIL	—	—	—	—	3.27	—	—	—	—	—	—	—
RE00-22-248960	00-61591	1 5S	North	3–4	SOIL	—	—	—	—	1.17	—	—	—	—	—	—	—
RE00-22-248961	00-61591	1 5S	North	6–7	QBT3	—	—	—	—	0.0342	—	—	—	—	—	—	—
RE00-22-248966	00-61593	1 5NE	North	3–4	SOIL	—	—	—	—	0.256	—	—	—	—	—	—	—
RE00-22-248969	00-61594	1 5NW	North	3–4	SOIL	—	—	—	—	0.0369 (J)	—	—	—	—	—	—	—
RE00-22-248986	00-61600	22 5NE	North	0–1	SOIL	—	—	—	—	0.119	—	—	—	—	—	—	—
RE00-22-248987	00-61600	22 5NE	North	4–5	SOIL	—	—	—	—	0.83	—	—	—	—	—	—	—

Table 5.2-3 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Americium-241	Cesium-137	Cobalt-60	Plutonium-238	Plutonium-239/240	Strontium-90	Technetium-99	Thorium-228	Thorium-230	Uranium-234	Uranium-235/236	Uranium-238
Soil BV/FV[b]						**0.013**	**1.65**	**na[c]**	**0.023**	**0.054**	**1.31**	**na**	**2.28**	**2.29**	**2.59**	**0.2**	**2.29**
Qbt2, 3, 4 BV/FV[b]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**2.52**	**1.98**	**1.98**	**0.09**	**1.93**
Construction Worker SAL[d]						**230**	**37**	**8.1**	**230**	**200**	**1400**	**110,000**	**15**	**5**	**1000**	**130**	**470**
Industrial SAL[d]						**1000**	**41**	**9**	**1300**	**1200**	**2400**	**330,000**	**17**	**5**	**3100**	**160**	**710**
Recreational SAL[d]						**1500**	**370**	**81**	**1400**	**1300**	**4900**	**220,000**	**130**	**5**	**3900**	**1000**	**2800**
Residential SAL[d]						**83**	**12**	**2.6**	**84**	**79**	**15**	**21**	**4.6**	**5**	**290**	**42**	**150**
RE00-22-248988	00-61600	22 5NE	North	11.9–12.9	QBT3	—	—	—	—	0.125	—	—	—	—	—	—	—
RE00-22-248989	00-61601	56A 10W	North	0–1	SOIL	—	—	—	—	0.297 (J)	—	—	—	—	—	—	—
RE00-22-248990	00-61601	56A 10W	North	3–4	SOIL	—	—	—	—	0.0438 (J)	—	—	—	—	—	—	—
RE00-22-248992	00-61602	94 10SE	South	0–1	SOIL	—	—	—	—	0.525	—	—	—	—	—	—	—
RE00-22-249013	00-61609	94 10S	South	0–1	SOIL	—	—	—	—	1.83	2.2	—	—	—	—	—	—
RE00-22-249019	00-61611	92 5NW	South	0–1	SOIL	—	—	—	—	0.715	—	—	—	—	—	—	—
RE00-22-249020	00-61611	92 5NW	South	3–4	SOIL	—	—	—	—	0.501	—	—	—	—	—	—	—
RE00-22-249021	00-61611	92 5NW	South	7.7–8.7	QBT3	—	—	—	—	0.0875	—	—	—	—	—	—	—
RE00-22-249022	00-61612	22 10E	North	0–1	SOIL	—	—	—	—	0.479 (J)	—	—	—	—	2.67	—	3.05
RE00-22-249023	00-61612	22 10E	North	4–5	SOIL	—	—	—	—	0.44 (J)	—	—	—	—	—	—	—
RE00-22-249024	00-61612	22 10E	North	11.9–12.9	QBT3	—	—	—	—	0.484 (J)	—	—	—	—	—	—	—
RE00-22-249036	00-61618	2V	North	10–11	QBT3	—	—	—	—	0.0343	—	—	—	—	—	—	—
RE00-22-249037	00-61619	58 5N	South	4–5	SOIL	—	—	—	—	0.045 (J)	—	—	—	—	—	—	—
RE00-22-249038	00-61619	58 5N	South	7–8	QBT3	—	—	—	—	0.0792	—	—	—	—	—	—	—
RE00-22-249064	00-61619	58 5N	South	13.9–14.9	QBT3	—	—	—	—	2.26	—	—	—	—	2.84	0.15	2.86
RE00-22-249065	00-61619	58 5N	South	15.9–16.9	QBT3	—	—	—	—	0.519	0.447	—	—	—	—	—	—
RE00-22-249039	00-61620	00—196	South	9.5–10.5	QBT3	—	—	—	—	0.0422	—	—	—	—	—	0.105	—
RE00-22-249040	00-61620	00—196	South	11.5–12.5	QBT3	—	—	—	—	0.0616	—	—	—	—	—	—	—
RE00-22-249041	00-61621	00—61521	North	9–10	QBT3	—	—	—	—	0.0593 (J)	—	—	—	—	—	—	—
RE00-22-249042	00-61621	00—61521	North	11–12	QBT3	—	—	—	—	0.0332 (J)	—	—	—	—	—	—	—
RE00-22-249045	00-61622	22 5SE	North	11.9–12.9	QBT3	—	—	—	—	0.387 (J)	—	—	—	—	—	—	—
RE00-22-249046	00-61623	17 5S	North	9–10	QBT3	—	—	—	—	—	—	—	—	2.2 (J)	—	—	—
RE00-22-249047	00-61623	17 5S	North	11–12	QBT3	—	—	—	—	0.104 (J)	—	—	—	—	—	—	—
RE00-22-249051	00-61625	00—61553	North	11–12	QBT3	—	—	—	—	0.0479	—	—	—	—	—	—	—
RE00-22-249025	00-61625	00—61553	North	13–14	QBT3	—	—	—	—	0.0407	—	—	—	—	—	—	—
RE00-22-249056	00-61628	92 5S	South	7.7–8.7	QBT3	—	—	—	—	0.407	—	—	—	—	—	—	—
RE00-22-250910	00-61651	2 10NW	North	0–1	SOIL	—	—	—	—	—	—	—	—	—	—	—	2.36
RE00-22-250911	00-61651	2 10NW	North	3–4	SOIL	—	—	—	—	1.01 (J)	—	—	—	—	8.68	0.435	8.85
RE00-22-250917	00-61653	2 10SE	North	3–4	SOIL	—	—	—	—	0.234 (J)	—	—	—	—	3.18	—	3.31

Table 5.2-3 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Americium-241	Cesium-137	Cobalt-60	Plutonium-238	Plutonium-239/240	Strontium-90	Technetium-99	Thorium-228	Thorium-230	Uranium-234	Uranium-235/236	Uranium-238
Soil BV/FV[b]						**0.013**	**1.65**	**na[c]**	**0.023**	**0.054**	**1.31**	**na**	**2.28**	**2.29**	**2.59**	**0.2**	**2.29**
Qbt2, 3, 4 BV/FV[b]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**2.52**	**1.98**	**1.98**	**0.09**	**1.93**
Construction Worker SAL[d]						**230**	**37**	**8.1**	**230**	**200**	**1400**	**110,000**	**15**	**5**	**1000**	**130**	**470**
Industrial SAL[d]						**1000**	**41**	**9**	**1300**	**1200**	**2400**	**330,000**	**17**	**5**	**3100**	**160**	**710**
Recreational SAL[d]						**1500**	**370**	**81**	**1400**	**1300**	**4900**	**220,000**	**130**	**5**	**3900**	**1000**	**2800**
Residential SAL[d]						**83**	**12**	**2.6**	**84**	**79**	**15**	**21**	**4.6**	**5**	**290**	**42**	**150**
RE00-22-250922	00-61655	22 10SE	North	0–1	SOIL	—	—	—	—	2.47	—	—	—	—	—	—	—
RE00-22-250923	00-61655	22 10SE	North	4–5	SOIL	—	—	—	—	0.0547	—	—	—	—	—	—	—
RE00-22-250928	00-61657	22 10S	North	0–1	SOIL	—	—	—	—	1.83 (J)	—	—	—	—	—	—	—
RE00-22-250929	00-61657	22 10S	North	4–5	SOIL	—	—	—	—	0.0757 (J)	—	—	—	—	—	—	—
RE00-22-250931	00-61658	56A 10S	South	0–1	SOIL	—	—	—	—	0.0924	—	—	—	—	—	—	—
RE00-22-250932	00-61658	56A 10S	South	3–4	SOIL	—	—	—	—	0.331	—	—	—	—	—	—	—
RE00-22-250933	00-61658	56A 10S	South	11.6–12.6	QBT3	—	—	—	—	0.0547	—	—	—	—	—	—	—
RE00-22-250935	00-61659	56A 10SE	North	3–4	SOIL	—	—	—	—	0.114	—	—	—	—	—	—	—
RE00-22-250937	00-61660	56A 10SW	North	0–1	SOIL	—	—	—	—	0.153 (J)	—	—	—	—	—	—	—
RE00-22-250938	00-61660	56A 10SW	North	3–4	SOIL	—	—	—	—	0.141 (J)	—	—	—	—	—	—	—
RE00-22-250940	00-61661	94 10SW	South	0–1	SOIL	—	—	—	—	0.756	—	—	—	—	—	—	—
RE00-22-250941	00-61661	94 10SW	South	4–5	SOIL	—	—	—	—	0.155 (J)	—	—	—	—	—	—	—
RE00-22-250942	00-61661	94 10SW	South	9.1–9.9	QBT3	—	—	—	—	0.102	0.223	—	—	—	—	—	—
RE00-22-252842	00-61700	2 14N	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	2.46 (J)	0.114 (J)	2.54 (J)
RE00-22-252845	00-61701	2 15NNE	North	6.5–7.5	QBT3	—	—	—	—	7.23	—	—	—	—	3.84 (J)	0.187 (J)	3.94 (J)
RE00-22-253161	00-61705	29 10S	North	0–1	SOIL	—	—	—	—	0.246 (J)	—	—	—	—	—	—	—
RE00-22-253162	00-61705	29 10S	North	4–5	SOIL	—	0.0916 (J)	—	—	—	—	—	—	—	—	—	—
RE00-22-253164	00-61705	29 10S	North	9–10	SOIL	—	—	—	—	0.0869 (J)	—	—	—	—	—	—	—
RE00-22-253167	00-61706	29 10WSW	North	0–1	SOIL	—	—	—	—	0.0816 (J)	—	—	—	—	—	—	—
RE00-22-253168	00-61706	29 10WSW	North	4–5	SOIL	—	—	—	—	0.0465	—	—	—	—	—	—	—
RE00-22-253172	00-61707	29 10SE	North	0–1	SOIL	—	—	—	—	0.878 (J)	—	—	—	—	—	—	—
RE00-22-253173	00-61707	29 10SE	North	4–5	SOIL	0.0287	—	—	—	0.341 (J)	—	—	—	—	—	—	—
RE00-22-253174	00-61707	29 10SE	North	7–8	SOIL	—	—	—	—	0.161 (J)	—	—	—	—	—	—	—
RE00-22-253175	00-61707	29 10SE	North	9–10	SOIL	—	—	—	—	0.16 (J)	—	—	—	—	—	—	—
RE00-22-253181	00-61708	29 15SW	North	11–12	QBT3	—	—	—	—	0.035 (J)	—	—	—	—	—	—	—
RE00-22-253184	00-61711	56A 10NW	North	0–1	SOIL	—	—	—	—	0.257 (J)	—	—	—	—	—	—	—
RE00-22-253185	00-61711	56A 10NW	North	3–4	SOIL	—	—	—	—	0.14 (J)	—	—	—	—	—	—	—
RE00-22-253190	00-61712	94 15SW	South	0–1	SOIL	—	—	—	—	0.882	—	—	—	—	—	—	—
RE00-22-253192	00-61712	94 15SW	South	9.1–9.9	QBT3	—	—	—	—	0.0485 (J)	—	—	—	—	—	—	—

Table 5.2-3 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Americium-241	Cesium-137	Cobalt-60	Plutonium-238	Plutonium-239/240	Strontium-90	Technetium-99	Thorium-228	Thorium-230	Uranium-234	Uranium-235/236	Uranium-238
Soil BV/FV[b]						**0.013**	**1.65**	**na[c]**	**0.023**	**0.054**	**1.31**	**na**	**2.28**	**2.29**	**2.59**	**0.2**	**2.29**
Qbt2, 3, 4 BV/FV[b]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**2.52**	**1.98**	**1.98**	**0.09**	**1.93**
Construction Worker SAL[d]						**230**	**37**	**8.1**	**230**	**200**	**1400**	**110,000**	**15**	**5**	**1000**	**130**	**470**
Industrial SAL[d]						**1000**	**41**	**9**	**1300**	**1200**	**2400**	**330,000**	**17**	**5**	**3100**	**160**	**710**
Recreational SAL[d]						**1500**	**370**	**81**	**1400**	**1300**	**4900**	**220,000**	**130**	**5**	**3900**	**1000**	**2800**
Residential SAL[d]						**83**	**12**	**2.6**	**84**	**79**	**15**	**21**	**4.6**	**5**	**290**	**42**	**150**
RE00-22-253193	00-61713	94 15WSW	South	0–1	SOIL	—	—	—	—	0.705 (J)	—	—	—	—	—	—	—
RE00-22-253196	00-61714	94 10W	South	0–1	SOIL	—	—	—	—	0.582 (J)	—	—	—	—	—	—	—
RE00-22-253197	00-61714	94 10W	South	4–5	SOIL	—	—	—	—	0.0482	—	—	—	—	—	—	—
RE00-22-253202	00-61716	58 10S	South	0–1	SOIL	—	—	—	—	10.6 (J)	—	—	—	—	—	—	—
RE00-22-253203	00-61716	58 10S	South	4–5	QBT3	—	—	0.251	—	2.77	—	—	—	—	—	—	—
RE00-22-253204	00-61716	58 10S	South	7–8	QBT3	—	—	—	—	2.7	—	—	—	—	—	—	—
RE00-22-253205	00-61716	58 10S	South	9–10	QBT3	—	—	—	—	0.385	—	—	—	—	—	—	—
RE00-22-253206	00-61716	58 10S	South	11–12	QBT3	—	—	—	—	1.03	—	—	—	—	—	—	—
RE00-22-253207	00-61717	58 10SE	South	0–1	SOIL	—	—	—	—	2.66 (J)	—	—	—	—	—	—	—
RE00-22-253208	00-61717	58 10SE	South	4–5	QBT3	—	—	—	—	1.6	—	—	—	—	—	—	—
RE00-22-253209	00-61717	58 10SE	South	7–8	QBT3	—	—	—	—	0.918 (J)	—	—	—	—	—	—	—
RE00-22-253210	00-61717	58 10SE	South	9–10	QBT3	—	—	—	—	0.112 (J)	—	—	—	—	—	—	—
RE00-22-253211	00-61717	58 10SE	South	11–12	QBT3	—	—	—	—	0.449 (J)	—	—	—	—	—	—	—
RE00-22-255274	00-61722	2 25ENE	North	0–1	SOIL	—	—	—	—	0.389	—	—	—	—	—	—	—
RE00-22-255286	00-61726	2 15NW	North	0–1	SOIL	—	—	—	—	0.152	—	—	—	—	—	—	—
RE00-22-255287	00-61726	2 15NW	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	—	—	2.57
RE00-22-255289	00-61727	2 20NW	North	0–1	SOIL	—	—	—	—	0.139	—	—	—	—	—	—	—
RE00-22-255290	00-61727	2 20NW	North	3–4	SOIL	—	—	—	—	0.0759	—	—	—	—	3.07	—	3.11
RE00-22-255296	00-61729	2 24NE	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	3.68	—	4.04
RE00-23-259861	00-61736	SE3	North	0–1	SOIL	—	—	—	—	0.594	—	—	—	—	—	—	—
RE00-23-259862	00-61736	SE3	North	3–4	SOIL	—	—	—	0.0326	—	—	—	—	—	—	—	—
RE00-23-259863	00-61736	SE3	North	6.5–7.5	QBT3	—	—	—	—	0.0615	—	—	—	—	—	—	—
RE00-23-259864	00-61737	NE2	North	0–1	SOIL	—	—	—	0.0355	0.0824 (J)	—	—	—	—	—	—	—
RE00-23-259865	00-61737	NE2	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	3.33 (J)	0.298	3.43 (J)
RE00-23-259866	00-61737	NE2	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	—	0.0901	—
RE00-23-259867	00-61738	NE1	North	0–1	SOIL	—	—	—	—	0.159 (J)	—	—	—	—	—	—	—
RE00-23-259868	00-61738	NE1	North	3–4	SOIL	—	—	—	0.0545 (J)	0.0804 (J)	—	—	—	—	—	—	—
RE00-23-259869	00-61738	NE1	North	6.5–7.5	QBT3	—	—	—	—	0.105 (J)	—	—	—	—	—	0.0992	—
RE00-23-282088	00-61739	NE6	North	17–18	QBT3	—	—	—	—	0.0563	—	—	—	—	—	—	—

Table 5.2-3 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Americium-241	Cesium-137	Cobalt-60	Plutonium-238	Plutonium-239/240	Strontium-90	Technetium-99	Thorium-228	Thorium-230	Uranium-234	Uranium-235/236	Uranium-238
Soil BV/FV[b]						**0.013**	**1.65**	**na[c]**	**0.023**	**0.054**	**1.31**	**na**	**2.28**	**2.29**	**2.59**	**0.2**	**2.29**
Qbt2, 3, 4 BV/FV[b]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**2.52**	**1.98**	**1.98**	**0.09**	**1.93**
Construction Worker SAL[d]						**230**	**37**	**8.1**	**230**	**200**	**1400**	**110,000**	**15**	**5**	**1000**	**130**	**470**
Industrial SAL[d]						**1000**	**41**	**9**	**1300**	**1200**	**2400**	**330,000**	**17**	**5**	**3100**	**160**	**710**
Recreational SAL[d]						**1500**	**370**	**81**	**1400**	**1300**	**4900**	**220,000**	**130**	**5**	**3900**	**1000**	**2800**
Residential SAL[d]						**83**	**12**	**2.6**	**84**	**79**	**15**	**21**	**4.6**	**5**	**290**	**42**	**150**
RE00-23-259873	00-61740	2 25NW	North	0–1	SOIL	—	—	—	—	0.133	—	—	—	—	—	—	—
RE00-23-259874	00-61740	2 25NW	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	3.63	0.259	3.75
RE00-23-259876	00-61741	N1	North	0–1	SOIL	—	—	—	—	0.0734	—	—	—	—	—	—	—
RE00-23-259878	00-61741	N1	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	—	0.147	—
RE00-23-259882	00-61743	SE2	North	0–1	SOIL	—	—	—	—	0.761	—	—	—	—	—	—	—
RE00-23-259883	00-61743	SE2	North	3–4	SOIL	—	—	—	—	0.0549	—	—	—	—	—	—	—
RE00-23-265183	00-61744	N2	North	3–4	SOIL	—	—	—	—	—	—	—	—	—	2.95	—	2.94
RE00-23-265184	00-61744	N2	North	6.5–7.5	QBT3	—	—	—	—	—	—	—	—	—	—	0.101	—
RE00-23-265179	00-61745	NE10	North	0–1	SOIL	—	—	—	—	0.663	—	—	—	—	—	—	—
RE00-23-264878	00-61746	N5	North	0–1	SOIL	—	—	—	—	0.0578	—	—	—	—	—	—	—
RE00-23-264881	00-61747	N4	North	0–1	SOIL	—	—	—	0.0353	—	—	—	—	—	—	—	—
RE00-23-264884	00-61748	NE4	North	0–1	SOIL	—	—	—	—	0.0925 (J+)	—	—	—	—	—	—	—
RE00-23-264885	00-61748	NE4	North	3–4	SOIL	—	0.12	—	0.0331	0.0844 (J+)	—	—	—	—	—	—	—
RE00-23-264886	00-61748	NE4	North	6.5–7.5	SOIL	—	—	—	—	0.0713 (J+)	—	—	—	—	—	—	—
RE00-23-265188	00-61750	NE3	North	0–1	SOIL	—	—	—	—	0.193	—	—	—	—	—	—	—
RE00-23-265190	00-61750	NE3	North	6.5–7.5	QBT3	—	—	—	—	0.0305	—	—	—	—	—	—	—
RE00-23-264893	00-61751	2 20NEV	North	9–10	QBT3	—	—	—	—	0.182	—	—	—	—	—	—	1.95
RE00-23-264894	00-61751	2 20NEV	North	11–12	QBT3	—	—	—	—	0.215	—	—	—	—	—	—	—
RE00-23-264896	00-61752	N6	North	0–1	SOIL	—	—	—	—	0.0875 (J+)	—	—	—	—	—	—	—
RE00-23-264899	00-61753	NE5	North	0–1	SOIL	—	—	—	—	0.313	—	—	—	—	—	—	—
RE00-23-264908	00-61756	SE10	North	0–1	SOIL	—	—	—	—	0.692	—	—	—	—	—	—	—
RE00-23-264909	00-61756	SE10	North	3–4	SOIL	—	—	—	—	0.0662	—	—	—	—	—	—	—
RE00-23-267856	00-61757	SE4	North	0–1	SOIL	—	—	—	—	0.936	—	—	—	—	—	—	—
RE00-23-267857	00-61757	SE4	North	3–4	SOIL	—	—	—	—	0.0393	—	—	—	—	—	—	—
RE00-23-267858	00-61757	SE4	North	6.5–7.5	QBT3	—	—	—	—	0.0632	—	—	—	—	—	0.0937 (J)	—
RE00-23-267859	00-61758	SE7	North	0–1	SOIL	—	—	—	—	0.73	—	—	—	—	—	—	—
RE00-23-267860	00-61758	SE7	North	3–4	SOIL	—	—	—	—	0.178	—	—	—	—	—	—	—
RE00-23-267861	00-61758	SE7	North	6.5–7.5	QBT3	—	—	—	—	0.0857	—	—	—	—	—	—	—
RE00-23-267871	00-61762	NE7	North	0–1	SOIL	—	—	—	—	0.107	—	—	—	—	—	—	—

Table 5.2-3 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Americium-241	Cesium-137	Cobalt-60	Plutonium-238	Plutonium-239/240	Strontium-90	Technetium-99	Thorium-228	Thorium-230	Uranium-234	Uranium-235/236	Uranium-238
Soil BV/FV[b]						**0.013**	**1.65**	**na[c]**	**0.023**	**0.054**	**1.31**	**na**	**2.28**	**2.29**	**2.59**	**0.2**	**2.29**
Qbt2, 3, 4 BV/FV[b]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**2.52**	**1.98**	**1.98**	**0.09**	**1.93**
Construction Worker SAL[d]						**230**	**37**	**8.1**	**230**	**200**	**1400**	**110,000**	**15**	**5**	**1000**	**130**	**470**
Industrial SAL[d]						**1000**	**41**	**9**	**1300**	**1200**	**2400**	**330,000**	**17**	**5**	**3100**	**160**	**710**
Recreational SAL[d]						**1500**	**370**	**81**	**1400**	**1300**	**4900**	**220,000**	**130**	**5**	**3900**	**1000**	**2800**
Residential SAL[d]						**83**	**12**	**2.6**	**84**	**79**	**15**	**21**	**4.6**	**5**	**290**	**42**	**150**
RE00-23-267874	00-61763	NE28	North	0–1	SOIL	—	—	—	—	0.336	—	—	—	—	—	—	—
RE00-23-267875	00-61763	NE28	North	3–4	SOIL	—	—	—	—	0.0457	—	—	—	—	—	—	—
RE00-23-267877	00-61764	NE23	North	0–1	SOIL	—	—	—	0.0281	0.754	—	—	—	—	—	—	—
RE00-23-267882	00-61765	NE24	North	5–6	QBT3	—	—	—	—	0.162	—	—	—	—	—	—	—
RE00-23-267886	00-61767	NE26	North	0–1	SOIL	—	—	—	—	0.687	—	—	—	—	—	—	—
RE00-23-267887	00-61767	NE26	North	3–4	SOIL	—	—	—	—	—	0.326	—	—	—	—	—	—
RE00-23-267889	00-61768	NE29	North	0.5–1.5	SOIL	—	—	—	—	0.347	—	—	—	—	—	—	—
RE00-23-267890	00-61768	NE29	North	3.5–4.5	QBT3	—	—	—	—	—	—	—	—	—	—	0.0995	—
RE00-23-267891	00-61768	NE29	North	5.5–6.5	QBT3	—	—	—	—	0.0259	—	—	—	—	—	—	—
RE00-23-271187	00-61776	NE25	North	5–6	QBT3	—	—	—	—	0.0571	—	—	—	—	—	—	—
RE00-23-271197	00-61780	NE20	North	0–1	SOIL	—	—	—	—	0.687	—	—	—	—	—	—	—
RE00-23-271200	00-61781	NE21	North	0–1	SOIL	—	—	—	—	0.28	—	2.69	—	—	—	—	—
RE00-23-271201	00-61781	NE21	North	3–4	SOIL	—	—	—	—	—	—	—	—	2.41 (J)	—	—	—
RE00-23-271203	00-61782	NE54	North	0–1	SOIL	—	—	—	—	0.0928	—	—	—	—	—	—	—
RE00-23-271206	00-61783	NE53	North	0–1	SOIL	—	—	—	—	0.065	—	—	—	—	—	—	—
RE00-23-271207	00-61783	NE53	North	3–4	SOIL	—	—	—	—	0.0234	—	—	—	—	—	—	—
RE00-23-271208	00-61783	NE53	North	6.5–7.5	QBT3	—	—	—	—	0.0355	—	—	—	—	—	—	—
RE00-23-271209	00-61784	SE14	North	0–1	SOIL	—	—	—	—	0.525	—	—	—	—	—	—	—
RE00-23-271215	00-61786	SE12	North	0–1	SOIL	—	—	—	—	0.403	—	—	—	—	—	—	—
RE00-23-271216	00-61786	SE12	North	3–4	SOIL	—	—	—	—	0.932	—	—	—	—	—	—	—
RE00-23-271217	00-61786	SE12	North	11–12	QBT3	—	—	—	—	0.366	—	—	—	—	—	—	—
RE00-23-271218	00-61787	SE15	North	0–1	SOIL	—	—	—	—	0.308	—	—	—	—	—	—	—
RE00-23-271219	00-61787	SE15	North	3–4	SOIL	—	—	—	—	0.349	—	—	—	—	—	—	—
RE00-23-271220	00-61787	SE15	North	11.5–12.5	QBT3	—	—	—	—	0.261	—	—	—	—	—	—	—
RE00-23-271227	00-61790	NE45	North	0.5–1.5	SOIL	—	—	—	—	0.261	—	—	—	—	—	—	—
RE00-23-271233	00-61792	NE55	North	0–1	SOIL	—	—	—	0.079	16.5	—	—	—	—	—	—	—
RE00-23-271234	00-61792	NE55	North	3–4	SOIL	—	—	—	—	—	—	3.95	—	—	—	—	—
RE00-23-271237	00-61793	NE38	North	5–6	QBT3	—	—	—	—	0.0313	—	—	—	—	—	—	—
RE00-23-271239	00-61794	NE39	North	0.5–1.5	SOIL	—	—	—	—	0.449 (J)	—	—	—	—	—	—	—

Table 5.2-3 (continued)

Sample ID	Location ID	Borehole ID	North/ South[a]	Depth (ft)	Media	Americium-241	Cesium-137	Cobalt-60	Plutonium-238	Plutonium-239/240	Strontium-90	Technetium-99	Thorium-228	Thorium-230	Uranium-234	Uranium-235/236	Uranium-238
Soil BV/FV[b]						**0.013**	**1.65**	**na[c]**	**0.023**	**0.054**	**1.31**	**na**	**2.28**	**2.29**	**2.59**	**0.2**	**2.29**
Qbt2, 3, 4 BV/FV[b]						**na**	**na**	**na**	**na**	**na**	**na**	**na**	**2.52**	**1.98**	**1.98**	**0.09**	**1.93**
Construction Worker SAL[d]						**230**	**37**	**8.1**	**230**	**200**	**1400**	**110,000**	**15**	**5**	**1000**	**130**	**470**
Industrial SAL[d]						**1000**	**41**	**9**	**1300**	**1200**	**2400**	**330,000**	**17**	**5**	**3100**	**160**	**710**
Recreational SAL[d]						**1500**	**370**	**81**	**1400**	**1300**	**4900**	**220,000**	**130**	**5**	**3900**	**1000**	**2800**
Residential SAL[d]						**83**	**12**	**2.6**	**84**	**79**	**15**	**21**	**4.6**	**5**	**290**	**42**	**150**
RE00-23-271248	00-61797	NE56	North	0–1	SOIL	—	—	—	—	0.16 (J)	—	—	—	—	—	—	—
RE00-23-271249	00-61797	NE56	North	2–3	QBT3	—	—	—	—	0.0473 (J)	—	—	—	—	—	—	—
RE00-23-289091	00-61804	NE68	North	0–1	SOIL	—	—	—	—	0.0905	—	—	—	—	—	—	—
RE00-23-289873	00-61805	NE64	North	18–19	QBT3	—	—	—	—	0.0253	—	—	—	—	—	—	—
RE00-23-282118	00-61808	NE66	North	0–1	SOIL	—	—	—	—	0.274	—	—	—	—	—	—	—
RE00-23-282119	00-61808	NE66	North	2–3	QBT3	—	—	—	—	0.0273	—	—	—	—	—	—	—
RE00-23-289205	00-61811	NE67	North	0–1	SOIL	—	—	—	—	0.106	—	—	—	—	—	—	—
RE00-23-289519	00-61813	NE80	North	0–1	SOIL	—	—	—	—	0.186 (J)	—	—	—	3.81 (J)	—	—	—
RE00-23-289520	00-61813	NE80	North	2–3	SOIL	—	—	—	—	0.299 (J)	—	—	—	—	—	—	—
RE00-23-289510	00-61815	NE74	North	0–1	SOIL	—	—	—	—	0.133	—	—	—	—	—	—	—
RE00-23-289513	00-61816	NE79	North	0–1	SOIL	—	—	—	—	0.143	—	—	—	—	—	—	—
RE00-23-289514	00-61816	NE79	North	2–3	SOIL	—	—	—	—	0.5	—	—	—	—	—	—	—
RE00-23-289516	00-61817	NE81	North	0–1	SOIL	—	—	—	—	0.409 (J)	—	—		—	—	—	—
RE00-23-289517	00-61817	NE81	North	2–3	QBT3	—	—	—	—	0.177 (J)	—	—	—	—	—	—	—
RE00-23-290099	00-61818	NE82	North	0–1	SOIL	—	—	—	—	0.242 (J)	—	—	—	—	—	—	—

Notes: Results are in pCi/g. Data qualifiers are presented in Appendix A.

[a] Sample location in north or south portion of tract A-16-a.

[b] BVs/FVs from LANL (1998, 059730).

[c] na = Not available.

[d] SALs from LANL (2015, 600929).

[e] — = Not detected or not detected above BV/FV.

Attachment 1

White Paper on Manganese at the Middle DP Road Site and New Mexico Environment Department Response

William Alexander EM2023-0295

From: Christian T. Maupin
Sent: Tuesday, March 7, 2023 5:01 PM
To: Troy D. Thomson; Felicia Aguilar; Kate Ellers; Brenda Bowlby; Duane A. Parsons; Jennifer von Rohr; William Alexander
Subject: FW: [EXTERNAL] FW: Manganese White Paper and PP Presentation

Follow Up Flag: Follow up
Flag Status: Flagged

Categories: Letters, Green Category, CCATS

FYI

From: Dhawan, Neelam, ENV <neelam.dhawan@env.nm.gov>
Sent: Tuesday, March 7, 2023 4:58 PM
To: lee.bishop@em.doe.gov; Shean, Rick, ENV <Rick.Shean@env.nm.gov>
Cc: Arturo Duran <arturo.duran@em.doe.gov>; Christian T. Maupin <Christian.Maupin@em-la.doe.gov>; Kate Ellers <kate.ellers@em-la.doe.gov>; Duane A. Parsons <Duane.Parsons@em-la.doe.gov>; Troy D. Thomson <troy.thomson@em-la.doe.gov>; cheryl.rodriguez@em.doe.gov; David Nickless <david.nickless@em.doe.gov>; Brian Harcek <brian.harcek@em.doe.gov>; Briley, Siona, ENV <Siona.Briley@env.nm.gov>; Shean, Rick, ENV <Rick.Shean@env.nm.gov>
Subject: RE: [EXTERNAL] FW: Manganese White Paper and PP Presentation

Lee
NMED has reviewed the white paper on manganese concentrations, submitted by DOE on February 24th. Based on the data presented, NMED agrees with DOE's analysis that residual levels of manganese in soil and tuff samples collected from MDPR Site are representative of background levels.
Please let me know if you have any further questions.
Thanks

Neelam Dhawan
LANL Program Manager
Hazardous Waste Bureau
New Mexico Environment Department
neelam.dhawan@env.nm.gov
(505) 690-5469

From: Bishop, M. Lee <lee.bishop@em.doe.gov>
Sent: Friday, February 24, 2023 12:43 PM
To: Dhawan, Neelam, ENV <neelam.dhawan@env.nm.gov>; Shean, Rick, ENV <Rick.Shean@env.nm.gov>
Cc: Duran, Arturo Q. <arturo.duran@em.doe.gov>; Maupin, Christian T <christian.maupin@em-la.doe.gov>; Kate Ellers <kate.ellers@em-la.doe.gov>; Parsons, Duane A <duane.parsons@em-la.doe.gov>; Thomson, Troy D <troy.thomson@em-la.doe.gov>; Rodriguez, Cheryl <cheryl.rodriguez@em.doe.gov>; Nickless, David <david.nickless@em.doe.gov>; Harcek, Brian <brian.harcek@em.doe.gov>
Subject: [EXTERNAL] FW: Manganese White Paper and PP Presentation

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good Afternoon Neelam,

Attached per you request are the three items regarding MDPR (Mn Whitepaper, MDPR Status report, Mn ppt).

Please let use know if this satisfies the request.

Have a great weekend,

M Lee Bishop
Office of Quality and Regulatory Compliance
USDOE Environmental Management Los Alamos Field Office
1200 Trinity Dr, Los Alamos, NM 87544
702-218-4460 Cell

From: Brenda Bowlby <Brenda.Bowlby@em-la.doe.gov>
Sent: Thursday, February 23, 2023 4:15 PM
To: Bishop, M. Lee <lee.bishop@em.doe.gov>
Cc: Parsons, Duane A <duane.parsons@em-la.doe.gov>; Thomson, Troy D <troy.thomson@em-la.doe.gov>
Subject: Manganese White Paper and PP Presentation

Lee,

The manganese white paper, presentation, and status report are attached and reflect comments received.

Thank you for forwarding these to Neelam.

If you have any questions or need anything further, please let me know.

Regards,

Brenda Bowlby
N3B Aggregate Area Program Lead
360/930-4353

William Alexander EM2023-0189

From: Christian T. Maupin
Sent: Thursday, February 23, 2023 7:24 PM
To: William Alexander; Jennifer von Rohr; Kate Ellers
Subject: FW: Manganese White Paper and PP Presentation
Attachments: BGI MDPR Manganese Justification Final 2.22.23.pdf; Middle DP Road Site Periodic Status Report for the NMED JAN_2023 (002).pdf; MDPR Manganese Rev 3 Final 2.22.23.pptx

Follow Up Flag: Follow up
Flag Status: Flagged

Categories: Letters, CCATS

FYI

From: Bishop, M. Lee <lee.bishop@em.doe.gov>
Sent: Thursday, February 23, 2023 4:35 PM
To: Dhawan, Neelam, ENV <neelam.dhawan@env.nm.gov>; Shean, Rick, ENV <Rick.Shean@env.nm.gov>
Cc: Arturo Duran <arturo.duran@em.doe.gov>; Christian T. Maupin <Christian.Maupin@em-la.doe.gov>; Kate Ellers <kate.ellers@em-la.doe.gov>; Duane A. Parsons <Duane.Parsons@em-la.doe.gov>; Troy D. Thomson <troy.thomson@em-la.doe.gov>; cheryl.rodriguez@em.doe.gov; David Nickless <david.nickless@em.doe.gov>; Brian Harcek <brian.harcek@em.doe.gov>
Subject: [EXTERNAL] FW: Manganese White Paper and PP Presentation

Good Afternoon Neelam,

Attached per you request are the three items regarding MDPR (Mn Whitepaper, MDPR Status report, Mn ppt).

Please let use know if this satisfies the request.

Have a great weekend,

M Lee Bishop
Office of Quality and Regulatory Compliance
USDOE Environmental Management Los Alamos Field Office
1200 Trinity Dr, Los Alamos, NM 87544
702-218-4460 Cell

From: Brenda Bowlby <Brenda.Bowlby@em-la.doe.gov>
Sent: Thursday, February 23, 2023 4:15 PM
To: Bishop, M. Lee <lee.bishop@em.doe.gov>
Cc: Parsons, Duane A <duane.parsons@em-la.doe.gov>; Thomson, Troy D <troy.thomson@em-la.doe.gov>
Subject: Manganese White Paper and PP Presentation

Lee,

The manganese white paper, presentation, and status report are attached and reflect comments received.

Thank you for forwarding these to Neelam.

If you have any questions or need anything further, please let me know.

Regards,

Brenda Bowlby
N3B Aggregate Area Program Lead
360/930-4353

Evaluation of Manganese at Middle DP Road Site to Determine if Cleanup is Needed

The confirmation and extent sampling results for the Middle DP Road (MDPR) site included detections of manganese above the construction worker soil screening level (SSL) in soil and tuff samples. Although the objectives of the cleanup activities at the MDPR site included removal of contamination exceeding residential or construction worker SSLs, manganese presents a challenge for making cleanup decisions based solely on comparison to SSLs. Specifically, the construction worker soil SSL (464 mg/kg) is less than the background values (BVs) for both soil (671 mg/kg) and upper tuff units (Qbt 2,3,4) (482 mg/kg). Thus, the presence of manganese above construction worker SSLs could be due solely to background conditions and not represent contamination associated with historical waste disposal activities. Evaluation of the manganese results to determine whether they represent background levels is, therefore, warranted.

Identifying the need for soil removal based solely on comparison to SSLs is more conservative than the approach used for aggregate area site investigations performed under the Consent Order, and the Consent Order approach may be more appropriate for constituents having SSLs below BVs. For Consent Order investigations, inorganic chemicals are evaluated for nature and extent and risk only if they are determined to be chemicals of potential concern (COPCs). The process for determining whether an inorganic chemical detected at a site is a COPC involves comparison of site data to Los Alamos National Laboratory (Laboratory) background data, and is described in the standard operating procedure N3B-SOP-ER-2004, R1, "Background Comparisons for Inorganic Chemicals." In accordance with this procedure, the first step in the COPC evaluation process is to compare site concentrations with BVs for the associated media. If all results are below BVs, the chemical can be eliminated as a COPC and not evaluated further for extent or risk. If at least one result is above the BV, additional evaluations are performed. If there are a sufficient number of results and detections (at least eight samples and five detections), statistical tests are performed to determine whether site data are statistically different from background data. Three different statistical tests are used (Gehan, quantile, and slippage) and if at least two of the tests indicate no statistical difference, the chemical can be eliminated as a COPC and not evaluated for extent or risk. For all statistical tests, a p-value greater than 0.05 is the criterion for accepting the null hypothesis that site sampling results are not different from background.

Sampling at the MDPR site has been performed at two adjacent land transfer parcels—Parcels A-8a and A-16-a. The manganese results for samples collected at these two parcels are summarized in Table 1.

Table 1
Summary of Manganese Results for MDPR Site

Parcel	Media	BV, mg/kg	Number of Samples	Number of Detections	Number Above BV	Manganese Concentrations, mg/kg			
						Minimum	Maximum	Average	Median
A-8-a	Soil	671	95	95	0	125	602	303	296
	Tuff	482	90	90	0	80.8	408	229	250
A-16-a	Soil	671	187	187	4	156	1140	310	282
	Tuff	482	222	222	3	107	633	247	242

The results for Parcel A-8-a include 3 soil results above the construction worker SSL, all of which are below the soil BV. The results for Parcel A-16-a include 12 soil results above the construction worker SSL, 8 of which

are below the soil BV, and 3 tuff results above the construction worker SSL, none of which are below the tuff BV.

As shown in Table 1, all soil results for Parcel A-8-a are below the soil BV (671 mg/kg) and all tuff results for Parcel A-8-a are below the tuff BV (482 mg/kg). For Parcel A-16-a, manganese was detected above BVs in both soil and tuff. Manganese was detected above the soil and tuff BVs in four soil samples and three tuff samples with a maximum concentration of 1140 mg/kg. Because manganese exceeded BVs and there are sufficient samples and detections (187 soil samples with 187 detections and 222 tuff samples with 222 detections) statistical tests were performed. The results of the tests are summarized in Table 2.

Table 2
Results of Statistical Tests for Manganese at Parcel A-16-a

Chemical	Media	Gehan p-value	Quantile p-value	Slippage p-value	Different from Background?
Manganese	Soil	0.99	1	0.52	No
Manganese	Tuff	0.0096	0.96	1	No

The results of the Gehan, quantile, and slippage tests indicate site concentrations of manganese in soil are not statistically different from background. The results of the quantile and slippage tests indicate site concentrations of manganese in tuff are not statistically different from background.

Statistical tests were also performed using the combined data set for both parcels. These results are presented in Table 3.

Table 3
Results of Statistical Tests for Manganese at MDPR Site

Chemical	Media	Gehan p-value	Quantile p-value	Slippage p-value	Different from Background?
Manganese	Soil	0.99	1	0.65	No
Manganese	Tuff	0.21	0.9	1	No

The results of the Gehan, quantile, and slippage tests indicate site concentrations of manganese in soil and tuff at the MDPR site are not statistically different from background.

A more qualitative comparison of site data to Laboratory background data can also be made using box plots which show the range and distribution of data, by media, in both the background data and site data. The box plots can serve as a qualitative check on the results of the statistical tests. Box plots for manganese in soil and upper tuff are shown in Figures 1 and 2, respectively. The box area of the plot is the region between the 25th percentile and the 75th percentile of the data, the interquartile range or middle half of the data. The horizontal line within the box represents the median (50th percentile) of the data. The concentrations are plotted as points overlying the box plot. As seen in Figures 1 and 2, the range and distribution of results in soil and tuff are similar for the background and MDPR site data and do not suggest site data are different than background.

Figures 3, 4, and 5 show the sampling locations in Parcel A-8-a, the southern portion of Parcel A-16-a, and the northern portion of Parcel A-16-a, respectively, and indicate the locations where the construction worker SSL for manganese was exceeded.

Based on comparison to BVs, statistical tests, and box plots, the detections of manganese at the MDPR site, including those exceeding construction worker SSLs, are consistent with background. Therefore, the detected manganese does not appear to be related to historical waste disposal activities and cleanup of soil and tuff with concentrations exceeding the construction worker SSL is not warranted.

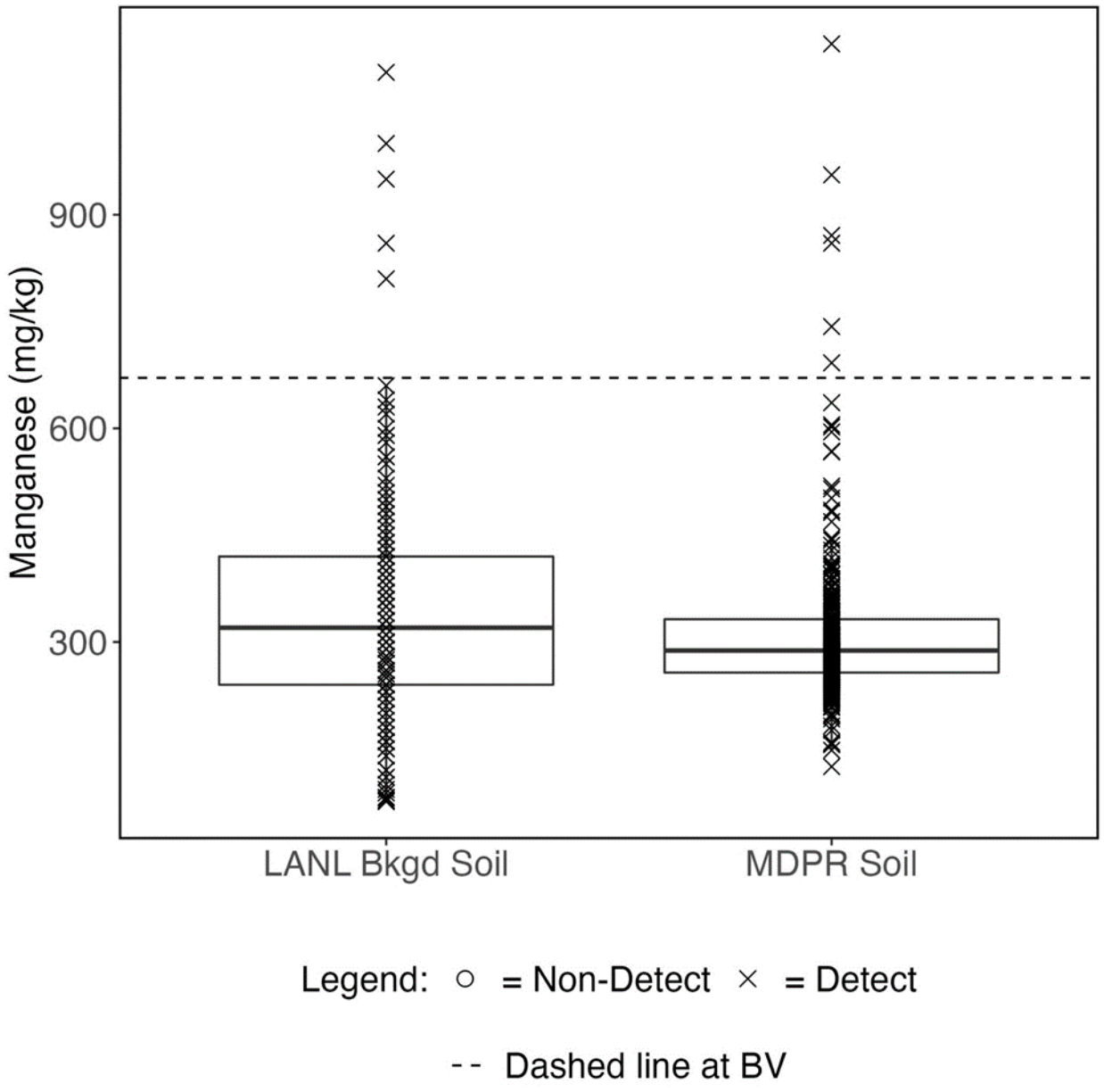


Figure 1– Box plot for manganese in soil at MDPR site

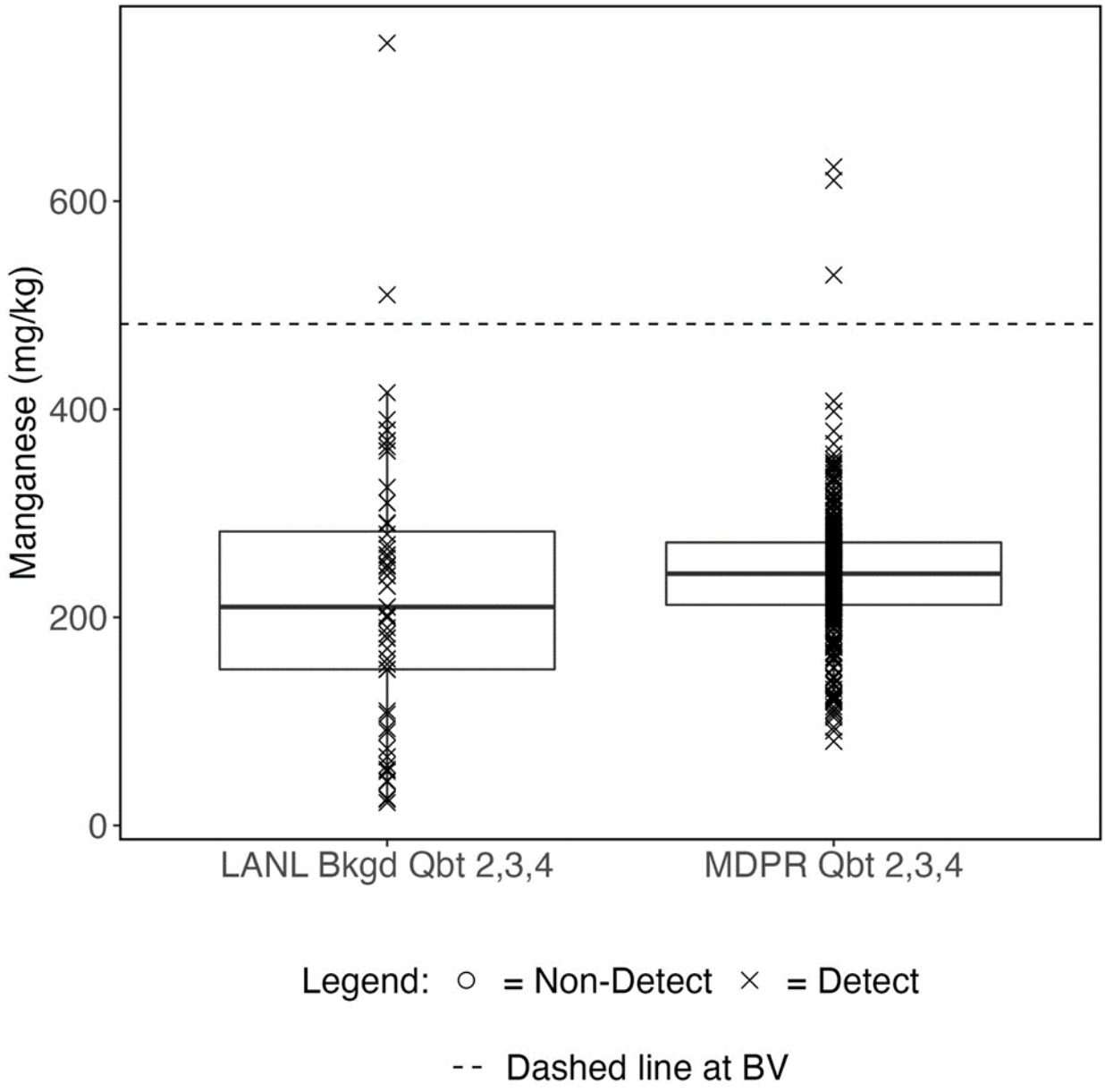


Figure 2 – Box plot for manganese in tuff at MDPR site

Figure 1 MDPR Site Project A-8-a Status Map-Fieldwork from 4.14.21 thru 10.21.22

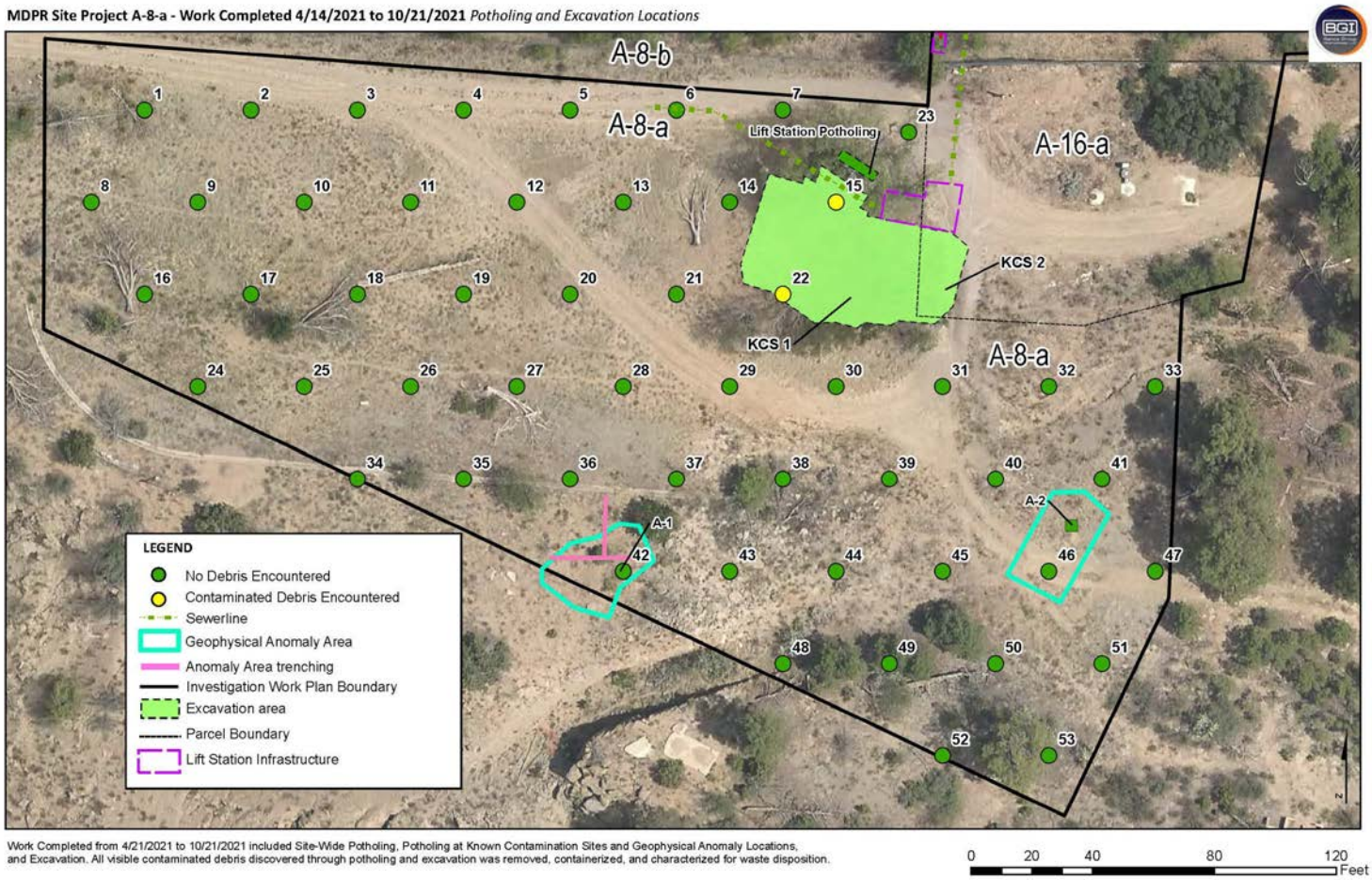


Figure 2 MDPR Site Project A-16-a Status Map-Fieldwork from 4.14.21 thru 10.21.22

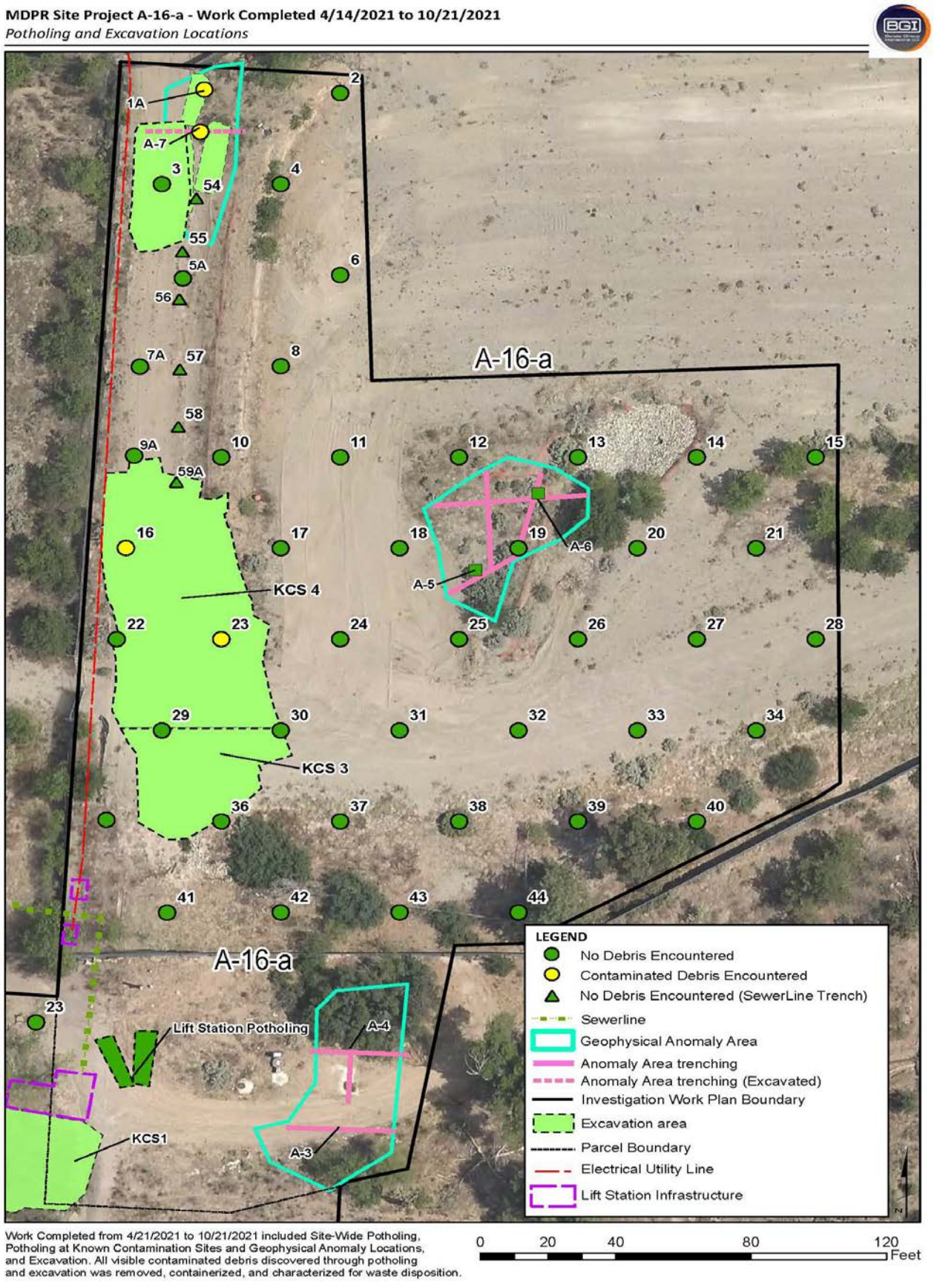


Figure 3 Fieldwork from 10.22.21 thru 1.27.23

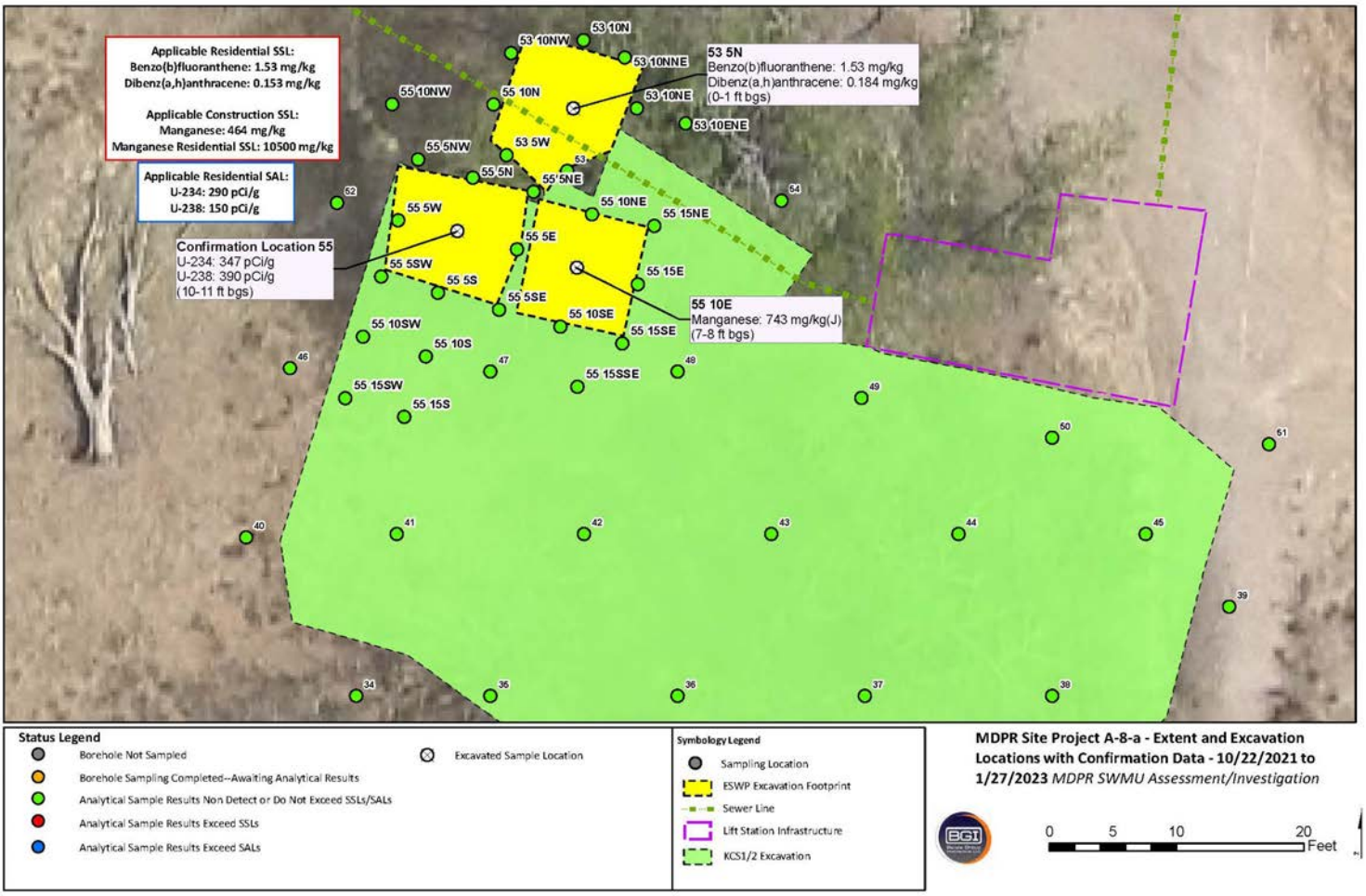
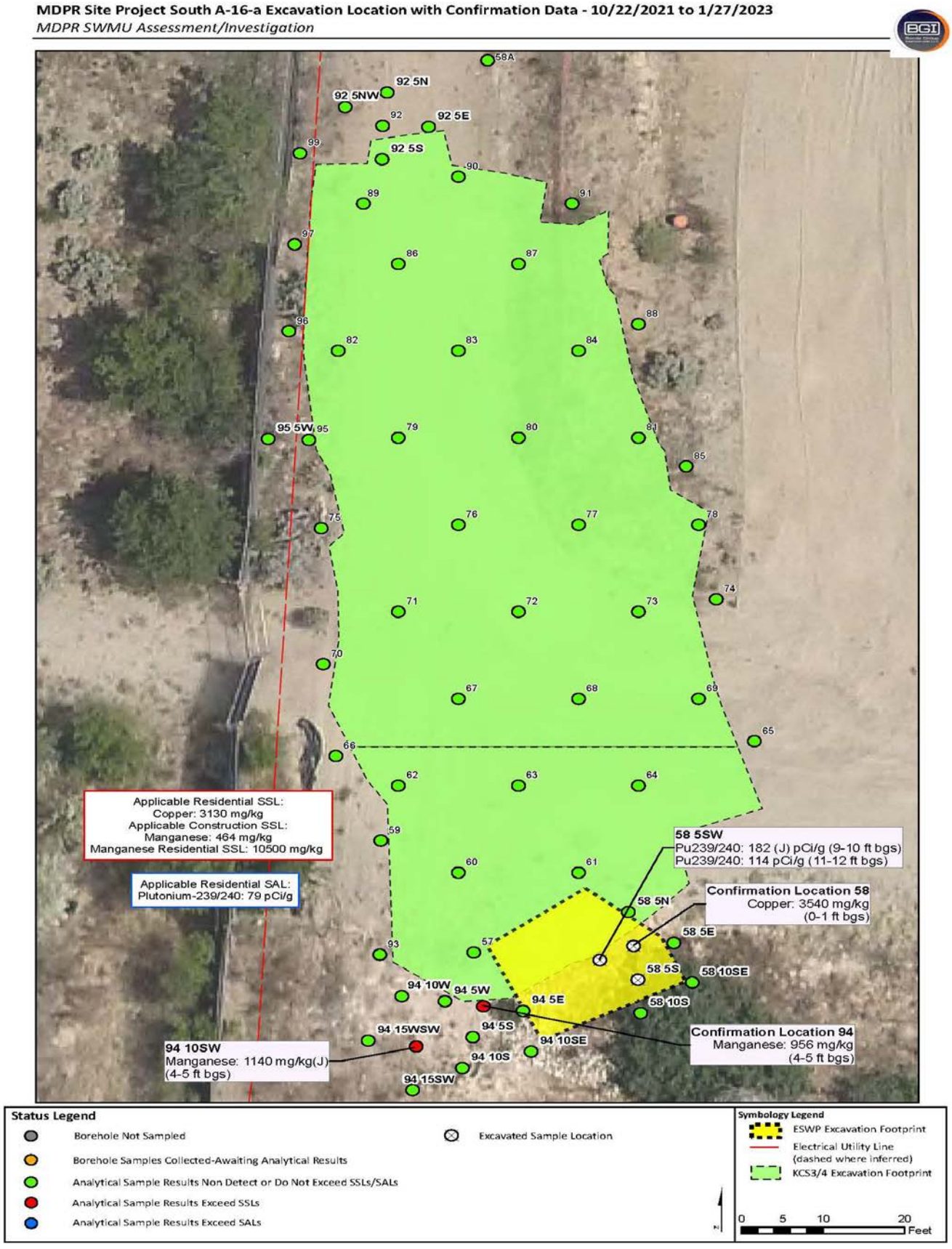


Figure 4

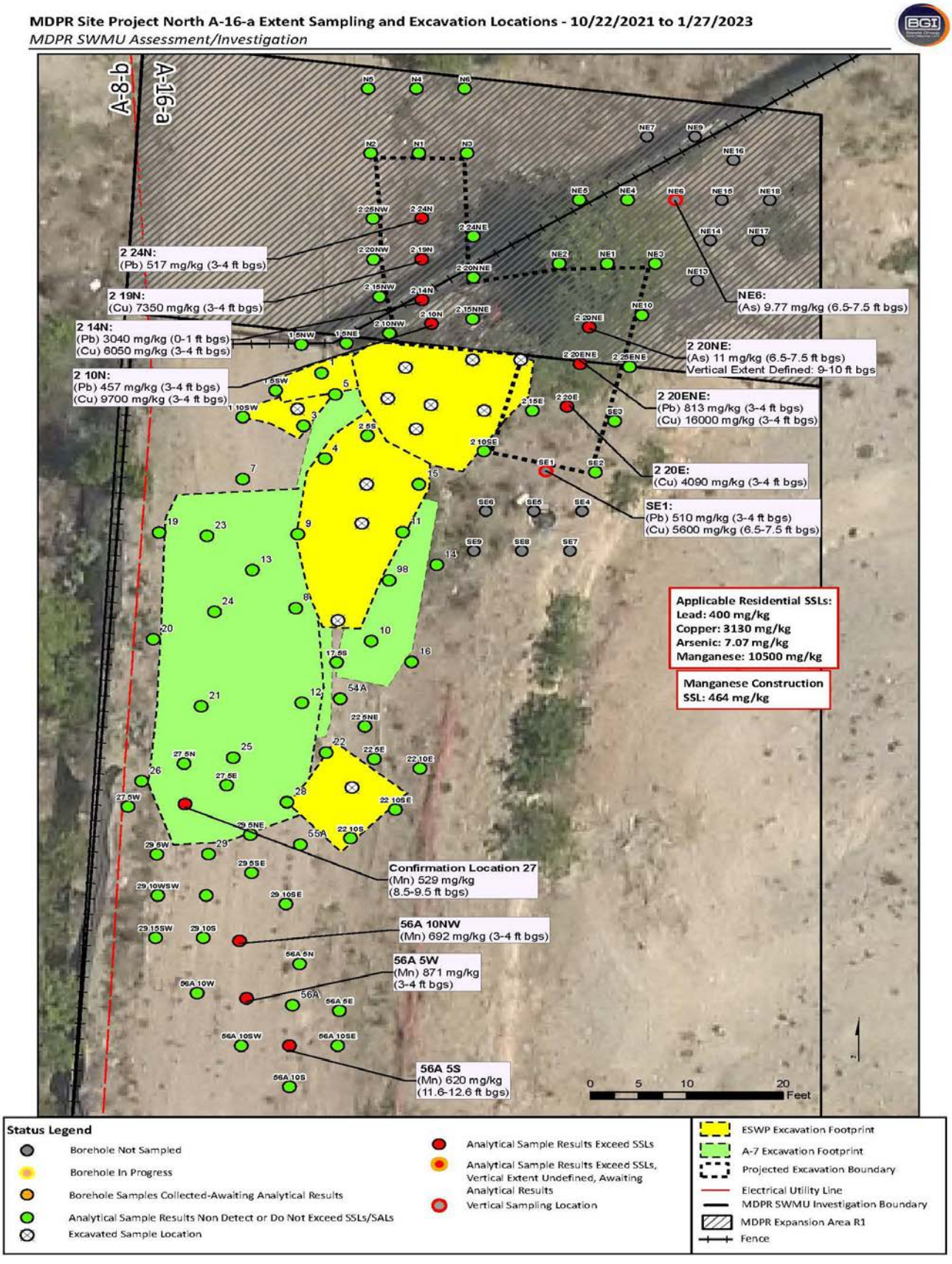
MDPR Site Project A-16-a South Status Map-Fieldwork from 10.22.21 thru 1.27.23



.1

Figure 5

MDPR Site Project A-16-a North Status Map-Fieldwork from 10.22.21 thru 1.27.23



Attachment 2

White Paper on Arsenic at the Middle DP Road Site
and New Mexico Environment Department Response

Investigation and Cleanup of Arsenic Contamination at Middle DP Road Site

1.0 BACKGROUND

On February 20, 2020, the U.S. Department of Energy (DOE) made a verbal notification to the New Mexico Environment Department (NMED) that on February 14, 2020, a Los Alamos County Public Utilities subcontractor encountered debris during excavation activities for a new sewer utility line designed to serve two new housing complexes and existing facilities along DP Road west of Technical Area 21 (TA-21). The area where the debris was encountered is within the Land Conveyance and Transfer Tracts A-8-a and A-16-a, south of DP Road and west of TA-21. The portions of Tracts A-8-a and A-16-a potentially associated with historic debris disposal activities have been designated as the Middle DP Road (MDPR) site. Subsequent field screening performed by DOE response personnel confirmed the presence of radioactivity above background levels in the debris. The DOE National Nuclear Security Administration, Los Alamos Field Office (NA-LA) and DOE Environmental Management Los Alamos Field Office (EM-LA), along with Newport News Nuclear BWXT-Los Alamos, LLC (N3B), and Triad National Security, LLC (Triad), prepared and submitted details of the event and the initial response to NMED on March 9, 2020, in a joint response to a February 28, 2020, request for information from NMED.

1.1 Solid Waste Management Unit Assessment Work Plan

On April 7, 2020, NMED requested that DOE submit a preliminary screening plan in accordance with Section X.C of the 2016 Compliance Order on Consent (the Consent Order). In response to this request, DOE prepared a solid waste management unit (SWMU) assessment work plan. The objective of the SWMU assessment work plan was to evaluate historical information and, based on that evaluation, propose sampling to define the nature and extent of potential contamination associated with the debris encountered at the MDPR site. Work performed in accordance with the SWMU assessment work plan included:

- Performing geophysical surveys (time domain electromagnetic induction, frequency domain electromagnetic induction, vertical gradient magnetometry, ground-penetrating radar, and seismic refraction tomography);
- Excavating areas where anomalies were identified from geophysical surveys to determine if debris or waste disposal areas are present;
- Excavating previously identified debris locations to define extent of debris;
- Conducting potholing to determine if other debris or waste disposal areas are present; and
- Collecting confirmation samples to define nature and extent of potential contamination and evaluate risk to human health and ecological receptors.

All confirmation samples were analyzed for target analyte list (TAL) metals, nitrate, perchlorate, cyanide, semivolatile organic compounds (SVOCs), volatile organic compounds (VOCs), americium-241, gamma-emitting radionuclides, isotopic plutonium, isotopic uranium, strontium-90, and tritium. In addition, 20% of the samples were analyzed for explosive compounds, polychlorinated biphenyls (PCBs), and dioxins and furans.

The cleanup goals were to remove all debris associated with former Los Alamos National Laboratory (Laboratory) operations and to remove soil contaminated above residential soil screening levels (SSLs) for chemicals and residential screening action levels (SALs) for radionuclides. The goal for defining extent of contamination was based on the conservative approach of having concentrations decrease laterally and with depth to concentrations at or below residential SSLs/SALs. Execution of the SWMU assessment work plan resulted in excavation to remove debris and potentially-contaminated soil from one area in

Tract A-8-a and two areas in Tract A-16-a. Following excavation of contaminated debris, confirmation samples were collected from the bottoms of the excavation areas and from native soil/tuff around the perimeter of the excavations. Confirmation sampling consisted of collecting 263 samples from 104 boreholes within Tracts A-8-a and A-16-a. Figures 1 through 3 show the excavation boundaries and confirmation sample locations for Tract A-8-a, the southern portion of Tract A-16-a, and the northern portion of Tract A-16-a, respectively.

The results of the confirmation sampling at each borehole location were first reviewed to determine whether concentrations decreased with depth and decreased laterally, thereby defining vertical and lateral extent. If concentrations did not decrease vertically or laterally, the results in the deepest or outermost sample were evaluated to determine whether the results were sufficiently below residential SSLs/SALs to warrant not sampling further. If not, collection of samples from additional depths and/or step-out locations was proposed.

The confirmation sample results were also reviewed to identify all samples exceeding residential SSLs/SALs. These results were then evaluated to determine whether the vertical and lateral extent of SSL/SAL exceedances were defined, thereby defining the vertical and lateral extent of the areas requiring excavation. If the deepest or outermost samples exceeded residential SSLs/SALs, deeper and/or step-out locations were proposed to define the area to be excavated.

1.2 Extent Sampling Work Plan

Based on the above evaluations of confirmation sampling results, DOE prepared an extent sampling work plan (ESWP) to define areas contaminated above residential SSLs/SALs requiring excavation and to define extent of contamination. The ESWP supplements the SWMU assessment work plan and is consistent with the technical approach used in the SWMU assessment work plan. The proposed samples would be collected and the results evaluated in the same manner as the confirmation results to determine if additional samples were required. This iterative process would then be repeated until extent was defined and all areas requiring excavation were identified. All extent samples would be analyzed for the full suite of analyses used for the confirmation samples.

The original ESWP identified 18 confirmation sample locations where lateral and/or vertical extent of contamination was not defined. Lateral extent of contamination was not defined for the following constituents:

- Aluminum (1 location)
- Barium (1 location)
- Beryllium (1 location)
- Cobalt (2 locations)
- Copper (1 location)
- Lead (1 location)
- Manganese (3 locations)
- Zinc (1 location)
- Polychlorinated biphenyls (PCBs) (1 location)
- Polycyclic aromatic hydrocarbons (PAHs) (3 locations)
- Uranium isotopes (1 location)

Vertical extent of contamination was not defined for the following constituents:

- Aluminum (1 location)
- Arsenic (1 location)

- Cobalt (1 location)
- Copper (3 locations)
- Lead (1 location)
- Manganese (location)
- Zinc (3 locations)

At 9 locations, including 7 of the above locations where extent was not defined, results exceeded residential SSLs/SALs or construction worker SSLs (if less than residential SSLs). Residential SSLs/SALs were exceeded for the following constituents:

- Arsenic (1 location)
- Copper (5 locations)
- Lead (4 locations)
- Mercury (1 location)
- Zinc (1 location)
- Strontium-90 (1 location)
- Uranium isotopes (2 locations)

In addition, manganese exceeded the construction worker SSL at 3 locations.

The sampling proposed in the ESWP was performed and the results were evaluated to identify the need for additional sampling. The ESWP was revised to include additional samples, the proposed samples were collected, the results were evaluated, and additional sampling identified. This iterative process was implemented multiple times resulting in 15 revisions to the ESWP and corresponding extent sampling events.

During implementation of the above process, manganese continued to be sporadically detected (less than 2% of samples) at concentrations exceeding the construction worker SSL, but equivalent to or only slightly above media-specific background values (all results less than 2 times background). A statistical evaluation of manganese data indicated site concentrations of manganese in soil and tuff were not statistically different than background. As a result of this evaluation, NMED approved not excavating manganese exceeding construction worker SSLs.

Figures 4 though 6 show the locations of extent samples collected and areas excavated as a result of extent sampling for Tract A-8-a, the southern portion of Tract A-16-a, and the northern portion of Tract A-16-a, respectively. Most of the sampling and excavation has been performed in the northeast portion of Tract A-16-a. Most of the SSL exceedances in this area were for copper and lead, with samples exceeding the SSL generally no deeper than 6 ft below ground surface (bgs).

2.0 CURRENT STATUS

Implementation of the sampling and remediation process described in the ESWP and revisions resulted in collection of 592 extent samples and excavation of 1350 yd^3 of soil/tuff. The cleanup goal of removing all detected contamination exceeding residential SSLs/SALs (or construction worker SSLs if less than residential SSLs) has been met with the exception of arsenic detected at two locations. As noted above, manganese exceeding the construction worker SSL was not removed after it was determined that manganese concentrations were not statistically different from background.

The SWMU assessment work plan confirmation samples identified only one location where arsenic exceeded the residential SSL. Arsenic was detected at 9.81 mg/kg at borehole 17 (location 00-61521), which is slightly above the residential SSL of 7.07 mg/kg. Borehole 17 is located in northern portion of

Tract A-16-a, on the boundary of the initial excavation area, and copper and lead also exceeded residential SSLs at this location. Copper was detected at approximately 14 times the residential SSL and lead approximately 5 times the residential SSL. Expansion of the initial excavation area to the north and east was driven by continued detection of copper and lead above residential SSLs, and arsenic was not detected above the residential SSL until location 2-20NE was sampled. Location 2-20NE was a step-out location from location 2-20ENE, where copper and lead had been detected at approximately 5 times and 2 times the residential SSL, respectively. Copper and lead were detected below the residential SSLs at location 2-20NE, but exceeded 10% of the residential SSLs, therefore additional sampling to the north and east was proposed to define lateral extent. The concentration of arsenic at location 2-20NE was 11 mg/kg, so additional sampling was also needed to define extent of arsenic exceeding the residential SSL. The additional extent sampling, which included location NE6 approximately 20 ft north-northeast of location 2-20NE, defined the extent of copper and lead, but had elevated arsenic with a maximum concentration of 58.6 mg/kg.

To expedite further sampling to define extent of contamination, the ESWP was modified in Revision 12 to specify the use of handheld x-ray fluorescence (XRF) instrumentation to screen samples in the field for arsenic, copper, and lead. The XRF results were used to identify areas above SSLs requiring excavation, and to inform collection of samples for laboratory analysis to confirm definition of extent. The XRF screening identified additional locations of elevated arsenic, copper, and lead to the east-southeast of location NE6. Elevated arsenic continued to be detected as far east as locations NE63, NE64, and NE69, and was finally bounded by results below the soil BV at locations NE66, NE67, NE68, NE74, NE79, NE80, NE81, and NE82. With the exception of locations NE6 and NE64, all soil/tuff with contamination exceeding residential SSLs was excavated, as confirmed laterally and vertically by laboratory analytical results. Table 1 presents the results of laboratory analysis of extent samples collected in this area for arsenic, copper, lead, and plutonium-239/240.

The source of the arsenic detected in the northeast portion of Tract A-16-a is not known. As shown in Table 1, elevated concentrations of arsenic are generally not associated with elevated copper, which, along with lead, was the predominant contaminant in other areas of Tract A-16-a. Elevated arsenic is also not associated with elevated plutonium or other radionuclides, suggesting that the arsenic source is not related to historical Laboratory operations or waste management activities.

Locations NE6 and NE64 were the sites of the deepest contamination detected at the MDPR site, having the greatest depths where concentrations were greater than residential SSLs. At both locations, vertical extent is defined by decreasing concentrations in deep samples, but the arsenic concentrations in the deepest samples (19–20 ft bgs at NE6 and 18–19 ft bgs at NE64) are greater than the residential SSL. The maximum concentration at NE6 was at 13–14 ft bgs and concentrations to a depth of 16 ft bgs were greater than the industrial and construction worker SSLs. The maximum concentration at NE64 was at 8–9 ft bgs and concentrations to a depth of 13 ft bgs were greater than the industrial and construction worker SSLs. Based on these results, soil/tuff at locations NE6 and NE64 was excavated to a depth of 17 ft bgs. Excavation to this depth resulted in:

- Removal of all contamination above residential SSLs in the depth interval from 0–10 ft bgs where residential risk is evaluated;
- Removal of the maximum detected concentrations; and
- Removal of all concentrations greater than construction worker SSLs.

3.0 PATH FORWARD

The proposed path forward is to not perform additional soil removal or sampling at locations NE6 or NE64. The results of laboratory analysis of extent samples collected from surrounding locations will be reviewed to verify that lateral extent of contamination has been defined.

The results from the non-excavated confirmation and extent samples will be incorporated into the SWMU Assessment Report to be prepared for the MDPR site. These results will be used to calculate the human-health risk for the residential and construction worker scenarios. Based on the data collected to date, it is expected that the site will not pose an unacceptable risk to human health under either the residential or construction worker scenarios. It is noted that the residential and construction worker scenarios are evaluated using data from the depth interval 0–10 ft bgs and the presence of arsenic exceeding residential SSLs below 10 ft bgs at locations NE6 and NE64 would have no bearing on the risk evaluation results.

Once lateral and vertical extent of contamination are defined, no additional sampling would be needed at the MDPR site and risk can be evaluated. If the human health risk screening evaluation demonstrates no unacceptable risk to human health under the residential and construction worker scenarios, no future controls under the Consent Order would be needed at the site. The SWMU assessment report could then demonstrate that DOE had removed hazardous constituents to levels that would require no long-term controls. In accordance with Section X.C.1) of the Consent Order, therefore, the SWMU Assessment Report would recommend that the MDPR site not be added to Appendix A of the Consent Order.

Although not required by the Consent Order, DOE will also review the results from analysis of samples for radionuclides to verify that the MDPR site meets the radiological protection and release requirements of DOE Order 458.1, “Radiation Protection of the Public and the Environment.”

Table 1
Results of Extent Sampling for Northeast Portion of Tract A-16-a

Location ID	Borehole ID	Depth, ft	Arsenic	Copper	Lead	Pu-239/240
Residential SSL/SAL			**7.07**	**3130**	**400**	**79**
Construction Worker SSL/SAL			**41.2**	**14200**	**800**	**200**
Industrial SSL/SAL			**35.9**	**51900**	**800**	**1200**
00-61739	NE6	0-1	—	19.5	—	0.358
00-61739	NE6	3-4	—	—	—	0.168
00-61739	NE6	6.5-7.5	**9.77**	35	28.3	0.207
00-61739	NE6	9-10	**14.9**	4.9	43.8	0.105
00-61739	NE6	11-12	**12.9**	6.84	38.2	0.124
00-61739	NE6	13-14	**58.6**	16.9	168	0.0679
00-61739	NE6	15-16	**54.4**	34.5	166	0.0436
00-61739	NE6	17-18	**14.5**	—	46.2	0.0563
00-61739	NE6	19-20	**13.4**	—	52.9	—
00-61780	NE20	0-1	—	328	31.7	0.687
00-61780	NE20	2-3	—	—	—	—
00-61780	NE20	6.5-7.5	—	—	—	—
00-61781	NE21	0-1	—	221	41.6	0.28
00-61781	NE21	2-3	—	—	—	—
00-61781	NE21	6.5-7.5	—	—	—	—
00-61776	NE25	0-1	—	**4950**	205	1.1
00-61776	NE25	2-3	—	—	—	—
00-61776	NE25	5-6	—	—	—	0.0571
00-61767	NE26	0-1	—	30.4	—	0.687
00-61767	NE26	3-4	—	—	—	—
00-61767	NE26	5-6	—	—	—	—
00-61766	NE27	0-1	—	36.8	—	0.395
00-61766	NE27	3-4	—	—	—	—
00-61766	NE27	5-6	—	6.26	—	0.065
00-61768	NE29	0.5-1.5	—	—	—	0.347
00-61768	NE29	3.5-4.5	—	—	—	—
00-61768	NE29	5.5-6.5	—	—	—	0.0259
00-61774	NE31	3-4	—	—	24.2	—
00-61774	NE31	5-6	—	—	49.4	0.0227
00-61774	NE31	6.5-7.5	4.44	—	58.8	0.0288
00-61777	NE32	3.5-4.5	—	—	31.6	0.254
00-61777	NE32	5-6	3.44	—	39.1	0.0577
00-61775	NE34	3.5-4.5	—	—	—	—
00-61775	NE34	5.5-6.5	3.58	6.36	—	—

Table 1 (continued)

Location ID	Borehole ID	Depth, ft	Arsenic	Copper	Lead	Pu-239/240
Residential SSL/SAL			**7.07**	**3130**	**400**	**79**
Construction Worker SSL/SAL			**41.2**	**14200**	**800**	**200**
Industrial SSL/SAL			**35.9**	**51900**	**800**	**1200**
00-61793	NE38	3-4	—	—	—	0.0313
00-61793	NE38	5-6	4.66	—	73.7	—
00-61794	NE39	0.5-1.5	—	21.5	—	0.449
00-61794	NE39	2-3	—	—	61	—
00-61789	NE41	0.5-1.5	—	25.8	—	0.229
00-61789	NE41	2.5-3.5	—	—	12.4	—
00-61788	NE42	2.5-3.5	—	97.3	24	0.193
00-61788	NE42	4.5-5.5	6.09	5.51	31.4	0.297
00-61790	NE45	0.5-1.5	—	—	29.9	0.261
00-61790	NE45	2.5-3.5	4.27	—	41.3	—
00-61791	NE47	1-2	—	—	—	—
00-61791	NE47	2.5-3.5	—	—	—	—
00-61795	NE48	3.5-4.5	—	—	—	—
00-61795	NE48	5.5-6.5	—	—	—	—
00-61783	NE53	0-1	—	46.3	25.4	0.065
00-61783	NE53	3-4	—	17.7	—	0.0234
00-61783	NE53	6.5-7.5	4.11	29.4	30.1	0.0355
00-61782	NE54	0-1	—	197	44.1	0.0928
00-61782	NE54	3-4	—	—	—	—
00-61782	NE54	6.5-7.5	—	8.3	—	—
00-61792	NE55	0-1	—	50.5	31.9	16.5
00-61792	NE55	3-4	—	—	—	—
00-61792	NE55	6.5-7.5	—	14.5	21.4	—
00-61797	NE56	0-1	—	—	—	0.16
00-61797	NE56	2-3	—	—	15.2	
00-61798	NE57	0-1	—	20.8	—	0.121
00-61798	NE57	2-3	—	—	23.4	—
00-61807	NE63	0-1	—	—	—	0.175
00-61807	NE63	2-3	**14.1**	—	34.8	—
00-61807	NE63	4-5	**13.9**	—	78.9	—
00-61807	NE63	6-7	**21.2**	—	158	—
00-61805	NE64	0-1	**11.3**	17.2	42.6	0.0301
00-61805	NE64	2-3	**40.4**	—	109	—
00-61805	NE64	4-5	**34.1**	—	111	—
00-61805	NE64	6-7	**20.7**	—	97.7	—
00-61805	NE64	8-9	**102**	—	390	—

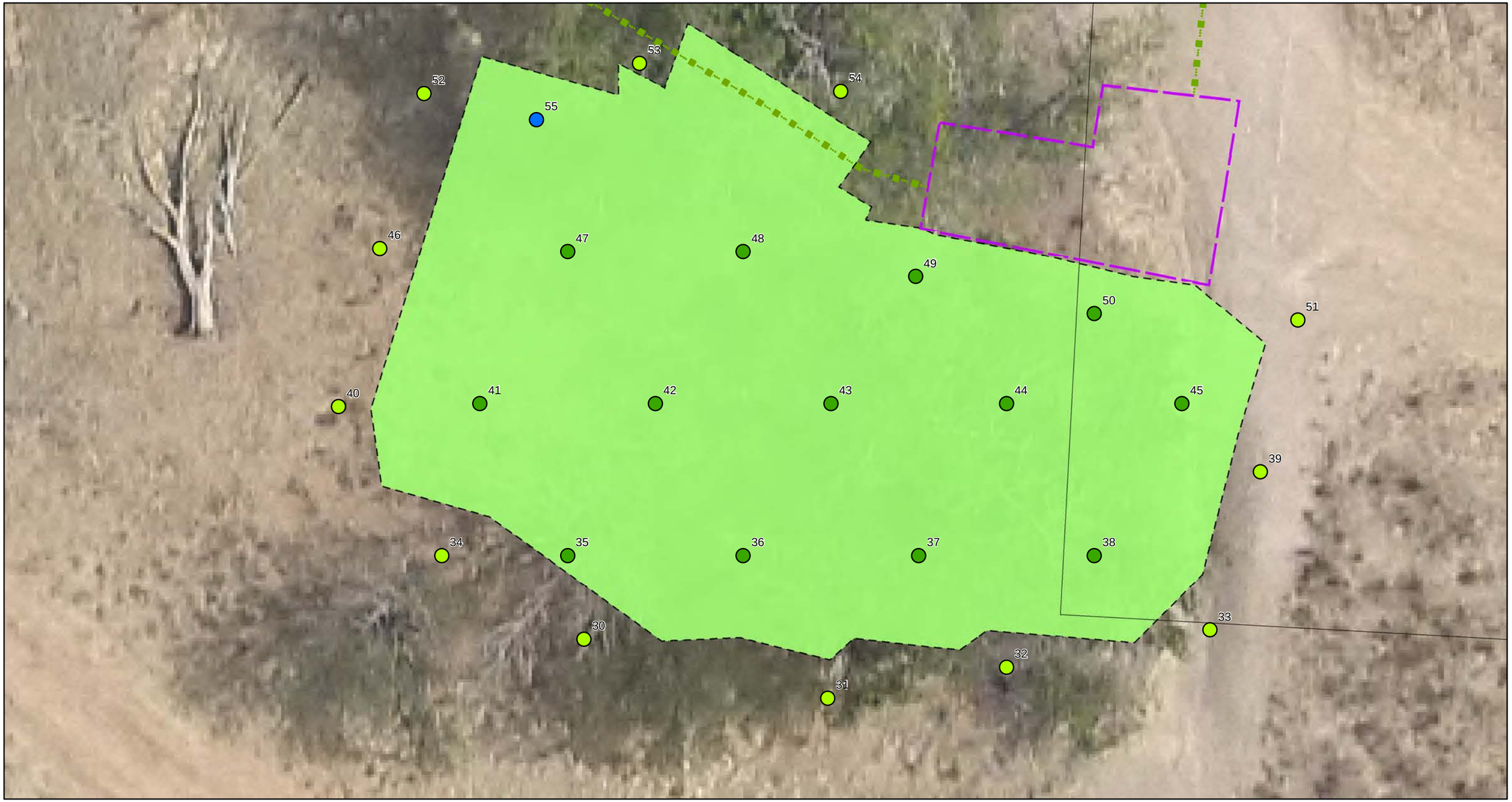
Table 1 (continued)

Location ID	Borehole ID	Depth, ft	Arsenic	Copper	Lead	Pu-239/240
Residential SSL/SAL			**7.07**	**3130**	**400**	**79**
Construction Worker SSL/SAL			**41.2**	**14200**	**800**	**200**
Industrial SSL/SAL			**35.9**	**51900**	**800**	**1200**
00-61805	NE64	10-11	**80**	—	335	—
00-61805	NE64	12-13	**64.3**	—	218	—
00-61805	NE64	14-15	**23.8**	—	114	—
00-61805	NE64	16-17	**16.1**	—	92	—
00-61805	NE64	18-19	**16.1**	—	78.7	0.0253
00-61806	NE65	0-1	3.98	7.68	25.9	0.0955
00-61806	NE65	2-3	3.73	—	42.5	—
00-61808	NE66	0-1	—	—	—	0.274
00-61808	NE66	2-3	4.54	—	55.8	0.0273
00-61811	NE67	0-1	—	—	—	0.106
00-61811	NE67	2-3	3.97	—	—	—
00-61804	NE68	0-1	—	—	—	0.0905
00-61804	NE68	2-3	5.27	—	—	—
00-61810	NE69	6-7	**8.97**	—	25.1	—
00-61810	NE69	8-9	**8.28**	—	20	—
00-61812	NE71	0-1	—	—	—	0.504
00-61812	NE71	2-3	4.95	—	12.4	—
00-61814	NE73	0-1	—	—	—	0.113
00-61814	NE73	2-3	**10.6**	—	32.6	—
00-61815	NE74	0-1	—	—	—	0.133
00-61815	NE74	2-3	—	—	48.4	—
00-61816	NE79	0-1	—	19.2	—	0.143
00-61816	NE79	2-3	—	—	—	0.5
00-61813	NE80	0-1	—	—	—	0.186
00-61813	NE80	2-3	—	—	—	0.299
00-61817	NE81	0-1	—	—	—	0.409
00-61817	NE81	2-3	—	—	—	0.177
00-61818	NE82	0-1	—	16.8	—	0.242
00-61818	NE82	2-3	—	—	43.1	—
00-61818	NE82	4-5	3.35	—	36.8	—

Notes: Arsenic, copper, and lead results in mg/kg. Pu-239/240 results in pCi/g.

Bolded results exceed residential SSL/SAL.

Shaded results have been excavated.



Status Legend

- Horizontal Confirmation Sample Results Non Detect or Do Not Exceed SSLs/SALs
- Vertical Confirmation Sample Results Non Detect or Do Not Exceed SSLs/SALs
- Analytical Sample Results Exceed SALs

0 10 20 40 Feet

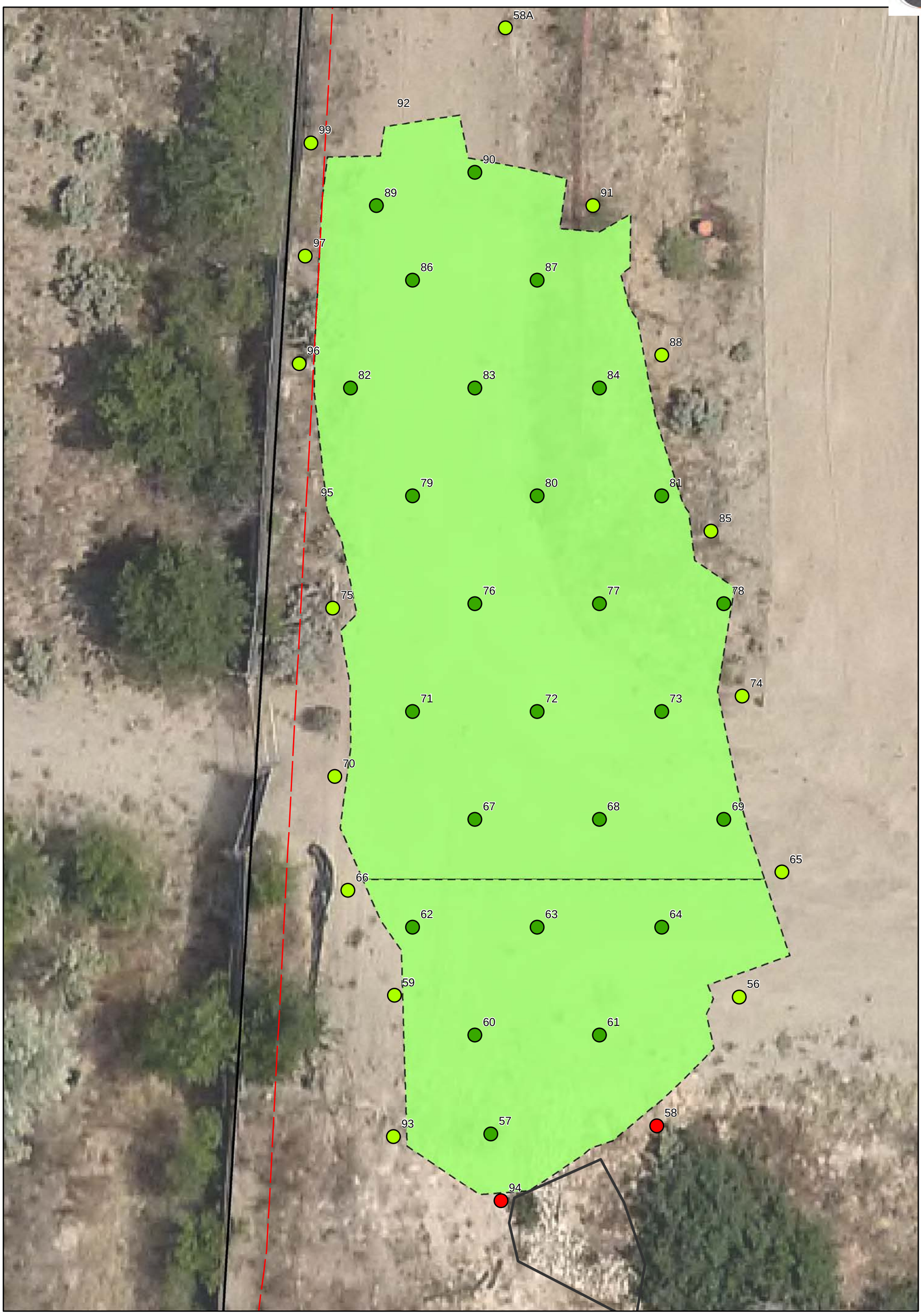
Symbology Legend

- Former Excavation Footprint
- Sewer Line
- Lift Station Infrastructure
- Parcel Boundary Line

N

Figure 1. January 2022 excavation area boundary and confirmation sample locations for Tract A-8-a.

Figure 2. January 2022 excavation area boundary and confirmation sample locations for Tract A-16-a–South.



Status Legend

- Horizontal Confirmation Sample Results Non Detect or Do Not Exceed SSLs/SALs
- Vertical Confirmation Sample Results Non Detect or Do Not Exceed SSLs/SALs
- Analytical Sample Results Exceed SSLs

Symbology Legend

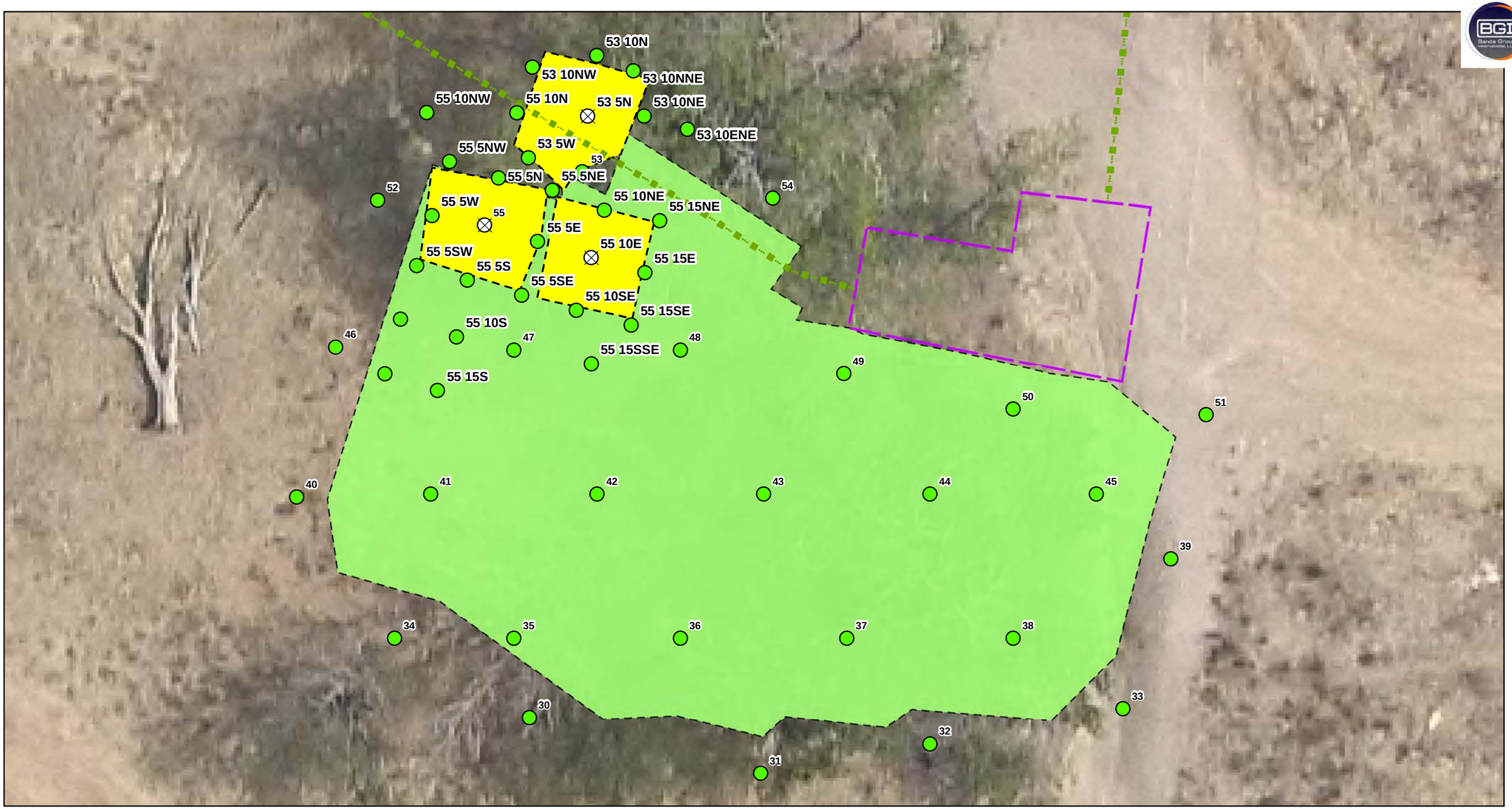
- Former Excavation Footprint
- Electrical Utility Line (dashed where inferred)
- Former SWPPP Riprap
- MDPR Site Boundary

N

0 10 20 40 Feet

Figure 3. January 2022 excavation area boundaries and confirmation sample locations for Tract A-16-a–North





Status Legend

- Borehole Not Sampled
- Excavated Sample Location
- Analytical Sample Results Non Detect or Do Not Exceed SSLs/SALs

Symbology Legend

- Sampling Location
- ESWP Excavation Footprint
- Sewer Line
- Lift Station Infrastructure
- KCS1/2 Excavation

Figure 4. July 2023 excavation area boundaries and confirmation and extent sampling locations for Tract A-8-a.

N

0 10 20 40 Feet

Figure 5. July 2023 excavation area boundaries and confirmation and extent sampling locations for Tract A-16-a–South.

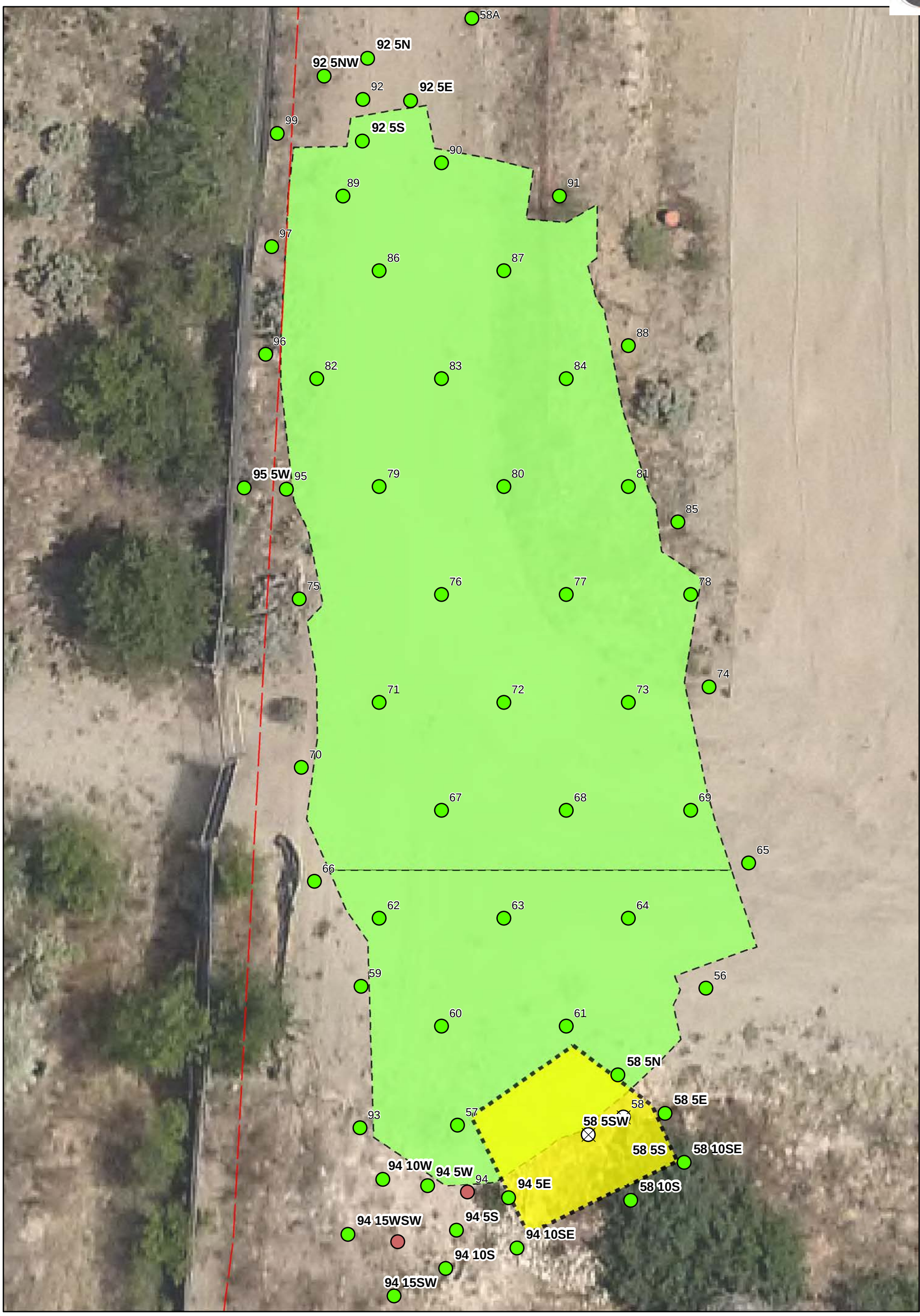
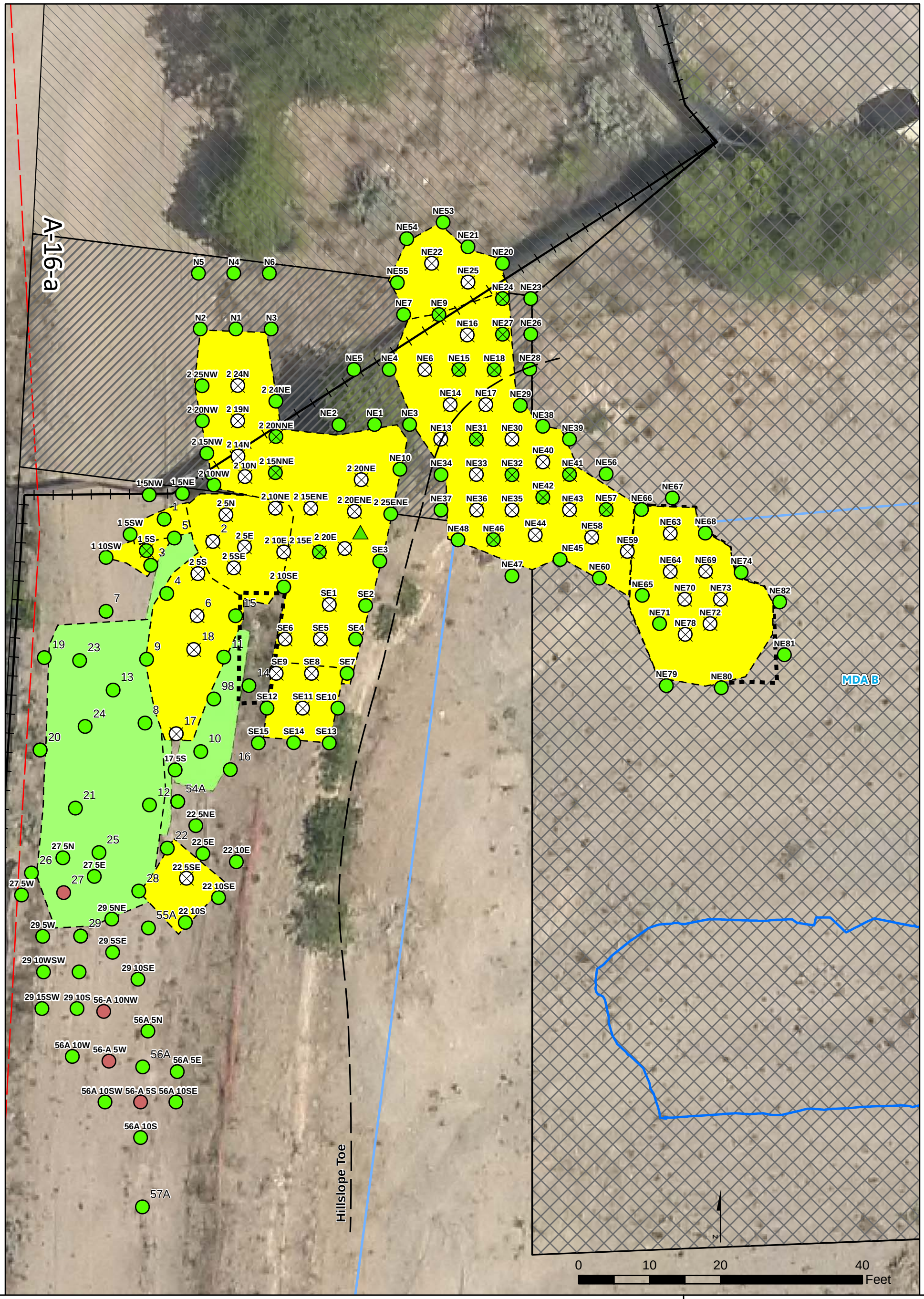


Figure 6. July 2023 excavation area boundaries and confirmation and extent sampling locations for Tract A-16-a–North.



Status Legend

- Analytical Sample Results Non Detect or Do Not Exceed SSLs/SALs
- Analytical Sample Exceed Construction SSL for Manganese - Does Not Require Excavation per NMED Approved White-paper
- Excavated Samples that Exceeded SSLs/SALs from Analytical/XRF Data
- Excavated Samples that did not Exceed SSLs/SALs from Analytical Data
- 458.1 Sample Location 00-61755 (non-detect)

- ESWP Excavation Footprint
- A-7 Excavation Footprint
- Electrical Utility Line
- Projected Excavation Boundary
- MDPR Expansion Area R1
- MDPR Expansion Area R2
- MDPR Expansion Area R3
- MDA-B Excavation Footprint

NMED Response:
DOE's Investigation and Cleanup of Arsenic Contamination at Middle DP Road Site
(07-21-2023)

On July 21, 2023, the Department of Energy (DOE) provided an *Investigation and Cleanup of Arsenic Contamination at the Middle DP Road Site* (Arsenic White Paper). The New Mexico Environment Department Bureau of Hazardous Waste (NMED) met with DOE on Wednesday, July 26 to discuss the white paper in preparation for the forthcoming Middle Delta Prime Road (MDPR) Solid Waste Management Unit (SWMU) Assessment Report.

The Arsenic White paper, Section 3, states: "The proposed path forward is to not perform additional soil removal or sampling at locations NE6 or NE64. The results of laboratory analysis of the extent sampling locations which were collected from surrounding locations will be reviewed to verify that the lateral extent of contamination has been defined.

The results from the non-excavated confirmation and extent samples will be incorporated into the SWMU Assessment Report to be prepared for the MDPR site. These results will be used to calculate the human-health risk for the residential and construction worker scenarios. Based on the data collected to date, it is expected that the site will not pose an unacceptable risk to human health under either the residential or construction worker scenarios. It is noted that the residential and construction worker scenarios are evaluated using data from the depth interval 0–10 ft bgs and the presence of arsenic exceeding residential SSLs below 10 ft bgs at locations NE6 and NE64 would have no bearing on the risk evaluation results."

NMED Response: The remaining arsenic detections generally appeared to be below the 10-foot below-ground surface (bgs) and are unlikely to impact the risk calculation under the residential and construction worker scenarios. Based on the information provided in Table 1 and Figure 6, the majority of the arsenic detected above the background has been excavated to 17 feet bgs. NMED agrees that additional vertical sampling is not warranted at sampling locations NE6 and NE64.

Upon successful completion of the two (2) projected excavation boundaries shown in Figure 6, the DOE may progress with sending a pre-submittal draft of the Solid Waste Management Unit Assessment Report for Middle Delta Prime Road.

Appendix A

Acronyms and Abbreviations,
Metric Conversion Table, and Data Qualifier Definitions

A-1.0 ACRONYMS AND ABBREVIATIONS

ACM	asbestos-containing material
AEA	Atomic Energy Act
AOC	area of concern
ATSDR	Agency for Toxic Substances and Disease Registry
AUF	area use factor
bgs	below ground surface
Bq	becquerel
BV	background value
COC	chain of custody
Consent Order	Compliance Order on Consent
COPC	chemical of potential concern
COPEC	chemical of potential ecological concern
DAF	dilution attenuation factor
DCS	derived concentration standard
DL	detection limit
DOE	Department of Energy (U.S.)
dpm	disintegrations per minute
Eco-PRG	ecological preliminary remediation goal
Eh	redox potential
EM-LA	Environmental Management Los Alamos Field Office
EPA	Environmental Protection Agency (U.S.)
EPC	exposure point concentration
EQL	estimated quantitation limit
ESL	ecological screening level
ESWP	Extent Sampling Work Plan for Middle DP Road Site
FV	fallout value
HI	hazard index
HDS	historical debris site
HQ	hazard quotient
HR	home range
IDW	investigation-derived waste
K_d	soil-water partition coefficient
K_{oc}	organic carbon-water partition coefficient
K_{ow}	octanol/water partition coefficient
LAC	Los Alamos County

LANL or the Laboratory	Los Alamos National Laboratory
LOAEL	lowest observed adverse effect level
MDA	material disposal area
MDPR	Middle DP Road
MDPR WP R1	Solid Waste Management Unit Assessment Work Plan for Middle DP Road Site, Revision 1
MEI	maximally exposed individual
mrem/yr	millirem per year
mSv	millisievert
N3B	Newport News Nuclear BWXT-Los Alamos, LLC
NA-LA	National Nuclear Security Administration Los Alamos Field Office
NMED	New Mexico Environment Department
NMSA	New Mexico Statutes Annotated
NNSA	National Nuclear Security Administration (U.S.)
NOAEL	no observed adverse effect level
PAUF	population area use factor
PCB	polychlorinated biphenyl
PID	photoionization detector
RCT	radiological control technician
RDX	hexahydro-1,3,5-trinitro-1,3,5-triazine
RCRA	Resource Conservation and Recovery Act
RESRAD	Residual Radioactivity (computer code)
RfD	reference dose
RP-SVS	Radiation Protection Services (LANL group)
SAL	screening action level
SAR	SWMU assessment report
SCL	sample collection log
SF	slope factor
SMO	Sample Management Office
SOP	standard operating procedure
SSL	soil screening level
SVOC	semivolatile organic compound
SWMU	solid waste management unit
T&E	threatened and endangered
TA	technical area
TAL	target analyte list
TCDD	2,3,7,8-tetrachlorodibenzodioxin

TED	total effective dose
TEQ	toxic equivalent quotient
Triad	Triad National Security, LLC
TRV	toxicity reference value
UCL	upper confidence limit
UTL	upper tolerance limit
VISL	vapor-intrusion screening level
VOC	volatile organic compound
WCS	Waste Control Specialists
WCSF	waste characterization strategy form
WL	working level
XRF	x-ray fluorescence

A-2.0 METRIC CONVERSION TABLE

Multiply SI (Metric) Unit	by	To Obtain U.S. Customary Unit
kilometers (km)	0.622	miles (mi)
kilometers (km)	3281	feet (ft)
meters (m)	3.281	feet (ft)
meters (m)	39.37	inches (in.)
centimeters (cm)	0.03281	feet (ft)
centimeters (cm)	0.394	inches (in.)
millimeters (mm)	0.0394	inches (in.)
micrometers or microns (µm)	0.0000394	inches (in.)
square kilometers (km^2)	0.3861	square miles (mi^2)
hectares (ha)	2.5	acres
square meters (m^2)	10.764	square feet (ft^2)
cubic meters (m^3)	35.31	cubic feet (ft^3)
kilograms (kg)	2.2046	pounds (lb)
grams (g)	0.0353	ounces (oz)
grams per cubic centimeter (g/cm^3)	62.422	pounds per cubic foot (lb/ft^3)
milligrams per kilogram (mg/kg)	1	parts per million (ppm)
micrograms per gram (µg/g)	1	parts per million (ppm)
liters (L)	0.26	gallons (gal.)
milligrams per liter (mg/L)	1	parts per million (ppm)
degrees Celsius (°C)	9/5 + 32	degrees Fahrenheit (°F)

A-3.0 DATA QUALIFIER DEFINITIONS

Data Qualifier	Definition
U	The analyte was analyzed for but not detected.
J	The analyte was positively identified, and the associated numerical value is estimated to be more uncertain than would normally be expected for that analysis.
J+	The analyte was positively identified, and the result is likely to be biased high.
J-	The analyte was positively identified, and the result is likely to be biased low.
UJ	The analyte was not positively identified in the sample, and the associated value is an estimate of the sample-specific detection or quantitation limit.
R	The data are rejected as a result of major problems with quality assurance/quality control parameters.

Appendix B

Field Methods

B-1.0 INTRODUCTION

This appendix summarizes the field methods used during the solid waste management unit (SWMU) assessment investigation of the Middle DP Road (MDPR) site adjacent to Los Alamos National Laboratory (LANL or the Laboratory). Investigation and remediation activities were conducted in accordance with the approved SWMU assessment work plan for the MDPR site, Revision 1 (N3B 2021, 701344; NMED 2021, 701368) (hereafter, MDPR WP R1) and the latest revision of the extent sampling work plan (BGI 2023, 702948). Table B-1.0-1 presents a summary of the field methods used, and the following sections provide more detailed descriptions of these methods. All activities were conducted in accordance with standard operating procedures (SOPs) listed in Table B-1.0-2.

B-2.0 EXPLORATORY DRILLING CHARACTERIZATION

No exploratory drilling characterization was conducted during the SWMU assessment investigation.

B-3.0 FIELD-SCREENING METHODS

This section summarizes the field-screening methods used during the investigation activities. Field screening for organic vapors was performed as necessary for health and safety purposes. Field screening for radioactivity was performed on each sample submitted to the Sample Management Office (SMO). Field screening for metals was performed to rapidly identify samples contaminated above soil screening levels (SSLs). Field-screening results for all investigation activities were recorded on sample collection logs (SCLs) provided in Appendix C (on DVD included with this document).

B-3.1 Field Screening for Organic Vapors

Field screening for organic vapors was conducted using a RAE Systems MultiRAE photoionization detector (PID) equipped with an 11.7-electronvolt lamp. Screening was performed in accordance with the manufacturer's specifications. Screening was performed on each sample collected, and screening measurements were recorded on the SCLs, provided in Appendix C (on DVD included with this document).

B-3.2 Field Screening for Radioactivity

All samples collected were field screened for radioactivity before they were submitted to the SMO, targeting alpha and beta/gamma emitters. A radiological control technician (RCT) conducted radiological screening using an Eberline E600 Geiger counter with a 380AB probe or Thermo Fisher Scientific, Inc., RadEye SX survey meter with dual-scintillator probe. Screening measurements were recorded on the SCLs and are provided in Appendix C (on DVD included with this document).

B-3.3 Field Screening for Metals

During the extent sampling at tract A-16-a, a handheld x-ray fluorescence (XRF) analyzer was used to screen samples for target metals (arsenic, copper, and lead) to define the extent of areas potentially requiring excavation and to identify samples for laboratory analysis to define extent of contamination.

X-ray fluorescence (XRF) technology was authorized for use in revision 12 of the extent sampling work plan, and samples were analyzed in the field for arsenic, copper, and lead using XRF in accordance with the SOP, "BGI Middle DP Road Field Portable XRF Standard Operating Procedure, 2023." If XRF

field-screening results were less than threshold values (75% or less of residential SSLs for copper and lead and <8.0 mg/kg [background] for arsenic; see Table B-1.0-3) for all depth intervals within each borehole, samples were submitted to the SMO for confirmation analysis by an off-site analytical laboratory (see Table B-1.0-3).

If sample concentrations exceeded threshold values, samples were not submitted for laboratory analysis, and the next set of step-out samples were collected and analyzed using XRF. This process was repeated until all XRF results were 75% or less than the residential SSLs or determined to be consistent with background concentrations. Confirmation samples for laboratory analysis were collected when XRF values were less than the threshold values specified in Table B-1.0-3.

B-4.0 FIELD INSTRUMENT CALIBRATION

Instrument calibration and/or function checks were completed daily. Several environmental factors affected the instruments' integrity, including air temperature, atmospheric pressure, wind speed, and humidity. Calibration of the PID was conducted by the site safety officer. Calibration of the Eberline E600 and RadEye SX is conducted by the Laboratory's Radiation Protection Services (RP-SVS) group on an annual cycle.

B-4.1 Photoionization Detector Calibration

The RAE Systems MultiRAE PID was calibrated both to ambient air and a standard reference gas (100-ppm isobutylene). The ambient-air calibration determined the zero point of the instrument sensor calibration curve in ambient air. Calibration with the standard reference gas determined a second point of the sensor calibration curve. Each calibration was within 5% of 100-ppm isobutylene, qualifying the instrument for use.

The following calibration information was recorded daily on operational calibration logs:

- instrument identification number
- final span settings
- date and time
- concentration and type of calibration gas used (isobutylene at 100 ppm)
- name of the personnel performing the calibration

All daily calibration procedures for the RAE Systems MultiRAE PID met the manufacturer's specifications for standard reference gas calibration.

B-4.2 Eberline E600 and RadEye SX Calibration and Response Check

Response check of the Eberline E600 and RadEye SX was conducted by a Newport News Nuclear BWXT-Los Alamos, LLC (N3B) RCT daily before use to measure levels for radioactivity. All response checks were performed according to approved operating procedures and met the requirements of N3B-P330-2, "Control of Measuring and Test Equipment." Response checks were recorded in daily functional check logs. The Laboratory's RP-SVS group calibrated the instrument using americium-241 and chloride-36 sources for alpha and beta emissions, respectively. Calibration records are maintained by RP-SVS.

B-5.0 SURFACE AND SUBSURFACE SAMPLING

This section summarizes the methods used to collect surface and subsurface samples, including soil, fill, tuff, and sediment samples, according to the approved MDPR WP R1 (N3B 2021, 701344; NMED 2021, 701368).

B-5.1 Surface Sampling Methods

Surface samples were collected within the MDPR site using either hand-auger or spade-and-scoop methods. Surface samples were collected in accordance with N3B-SOP-ER-2001, "Soil, Tuff, and Sediment Sampling." A hand auger or stainless-steel scoop was used to collect material in approximately 6-in. increments. Samples for volatile organic compound (VOC) analysis were transferred immediately from the sampler to the sample container to minimize the loss of VOCs during the sample collection process. Containers for VOC samples were filled as completely as possible, leaving no or minimal headspace, and sealed with a Teflon-lined cap. The remaining sample material was placed in a stainless-steel bowl with a stainless-steel scoop, after which it was transferred to sterile sample collection jars or bags. Samples were preserved using coolers to maintain the required temperature in accordance with N3B-SOP-SDM-1100, "Sample Containers, Preservation, and Field Quality Control."

Samples were appropriately labeled, sealed with custody seals, and documented before being transported to the SMO. Samples were managed according to N3B-SOP-SDM-1101, "Sample Control and Field Documentation."

Sample collection tools were decontaminated immediately before each sample was collected in accordance with N3B-SOP-ER-2002, "Field Decontamination of Equipment" (see section B-5.7).

B-5.2 Borehole Logging

At all locations, the required sampling depths could be reached by hand augers, and therefore a drill rig with a hollow-stem auger was not used to collect subsurface samples, and the boreholes did not require logging.

B-5.3 Subsurface Sampling Methods

Subsurface samples were collected using a hand auger or powered hand auger. The samples were collected in accordance with N3B-SOP-ER-2001, "Soil, Tuff, and Sediment Sampling."

Samples for VOC analysis were collected immediately to minimize the loss of VOCs during the sample collection process. Containers for VOC samples were filled as completely as possible, leaving no or minimal headspace, and sealed with a Teflon-lined cap. After collection of the VOC samples, the remaining sample material was placed in a stainless-steel bowl and was broken, if necessary, with a decontaminated rock hammer or stainless-steel spoon to fit the material into the sample containers.

A stainless-steel scoop and bowl were used to transfer samples to sterile sample collection jars or bags for transport to the SMO. The sample collection tools were decontaminated immediately before each sample was collected in accordance with a N3B-SOP-ER-2002, "Field Decontamination of Equipment" (see section B-5.7).

B-5.4 Quality Control Samples

Quality control samples were collected in accordance with N3B-SOP-SDM-1100, "Sample Containers, Preservation, and Field Quality Control." The quality control samples included field duplicates, field rinsate blanks, and field trip blanks. Field duplicate samples were collected from the same material as a regular investigation sample and submitted for the same analyses. Field duplicate samples were collected at a frequency of at least 1 duplicate sample for every 10 samples.

Field rinsate blanks were collected to evaluate field decontamination procedures. Rinsate blanks were collected by rinsing sampling equipment (i.e., auger buckets and sampling bowls and spoons) after decontamination with deionized water. The rinsate water was collected in a sample container and submitted to the SMO. Field rinsate blanks were analyzed for inorganic chemicals (target analyte list metals, nitrate, perchlorate, and total cyanide) and were collected from sampling equipment at a frequency of at least 1 rinsate sample for every 10 solid samples.

Field trip blanks also were collected at a frequency of one per day at the time samples were collected for VOCs. Field trip blanks consisted of containers of certified clean sand opened and kept with the other sample containers during the sampling process. Field trip blanks were collected at a frequency of one per sampling team per day to determine contamination during storage and transport when samples were being collected for VOC analysis. Trip blanks were analyzed for VOCs only.

B-5.5 Sample Documentation and Handling

Field personnel completed an SCL form for each sample. Sample containers were sealed with custody seals and placed in coolers at approximately 4°C. Samples were handled in accordance with N3B-SOP-SDM-1101, "Sample Control and Field Documentation," and N3B-SOP-SDM-1100, "Sample Container, Preservation, and Field Quality Control." N3B RCTs performed and documented a free-release survey of the exterior of the sample containers before the sample containers were removed from the site. Samples were transported to the SMO for processing and shipment to off-site contract analytical laboratories. The SMO personnel reviewed and approved the SCLs and accepted custody of the samples. The SCLs are provided in Appendix C (on DVD included with this document).

B-5.6 Borehole Abandonment

Boreholes were abandoned by backfilling with bentonite chips in accordance with N3B-SOP-ER-6005, "Monitoring Well and Borehole Abandonment." Borehole cuttings were managed as investigation-derived waste (IDW), as described in Appendix E.

B-5.7 Decontamination of Sampling Equipment

All sampling equipment was decontaminated immediately before each sample was collected to avoid outside contamination and cross-contamination between samples. Decontamination included cleaning the equipment with wire brushes, scrapers, Fantastik, and clean paper towels. To evaluate decontamination activities, field rinsate samples were collected in accordance with N3B-SOP-ER-2002, "Field Decontamination of Equipment," and N3B-SOP-SDM-1100, "Sample Containers, Preservation, and Field Quality Control."

B-5.8 Site Demobilization and Restoration

Before equipment was removed from the site, RCTs performed and documented a free-release survey of equipment. All temporary fencing and staging areas were dismantled and returned to preinvestigation conditions. All excavated and disturbed areas were regraded and stabilized.

B-6.0 SOIL REMEDIATION AND DEBRIS REMOVAL

Contaminated soil and debris were removed from the MDPR site as described in the approved MDPR WP R1 (N3B 2021, 701344; NMED 2021, 701368). Soil removal activities are summarized below.

B-6.1 Target Cleanup Levels

Residential SSLs presented in the New Mexico Environment Department's (NMED's) risk assessment guidance document (NMED 2022, 702484) were used as target cleanup levels for contaminated soil. If NMED did not have a residential SSL for a particular contaminant, SSLs from the U.S. Environmental Protection Agency (EPA) regional tables (https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables) were used (adjusted to a risk level of 1×10^{-5} for carcinogens). In the event that the SSL for the construction worker scenario was lower than that for the residential scenario for a particular contaminant, the construction worker SSL was used as the target cleanup level. For radionuclides, the screening action levels (LANL 2015, 600929) for the residential scenario were used as the target cleanup level.

B-6.2 Excavation

A track-mounted excavator and compact track-mounted excavator were used to remove environmental media exceeding target cleanup levels. The media was managed as waste in compliance with an approved waste characterization strategy form (WCSF). Following excavation, the excavated areas were backfilled with clean fill, compacted, and stabilized with base course.

B-6.3 Decontamination of Excavation Equipment

Decontamination activities were performed in accordance with N3B-SOP-ER-2002, "Field Decontamination of Equipment." Residual material adhering to equipment was removed using dry decontamination methods such as the use of wire brushes and scrapers. All decontaminated equipment was surveyed by an RCT before it was released from the site. Additional decontamination and swipe sampling was conducted, if necessary, before equipment was removed from the site.

B-7.0 GEODETIC SURVEYING

Geodetic surveys of sampling locations and excavation boundaries were performed by a licensed State of New Mexico surveyor. Horizontal accuracy of the global positioning system unit is within 0.1 ft. During sampling, if the planned location could not be sampled because of surface or subsurface obstruction or other unanticipated field conditions, the relocated sampling location was surveyed. The surveyed sample location coordinates are presented in Appendix C.

B-8.0 IDW STORAGE AND DISPOSAL

All IDW generated during the SWMU assessment investigation was managed in accordance with the requirements of N3B-P409-0, "N3B Waste Management." This policy incorporates all applicable EPA and NMED regulations, U.S. Department of Energy orders, and Laboratory implementation requirements. IDW was also managed in accordance with the approved WCSF. Details of IDW management for the SWMU assessment investigation are presented in Appendix E.

B-9.0 DEVIATIONS FROM WORK PLAN

The approved MDPR WP R1 (N3B 2021, 701344; NMED 2021, 701368) specified removal of all soil contaminated above residential SSLs. At two locations in tract A-16-a, tuff with arsenic contamination in excess of the residential SSL was not removed. Locations 00-61739 and 00-61805 were the sites of the deepest contamination detected at the MDPR site, having the greatest depths where concentrations were above residential SSLs. At both locations, vertical extent is defined by decreasing concentrations in deep samples, but the arsenic concentrations in the deepest samples (19–20 ft below ground surface [bgs] at location 00-61739 and 18–19 ft bgs at location 00-61805) are greater than the residential SSL. The maximum concentration at location 00-61739 was at 13–14 ft bgs, and concentrations to a depth of 16 ft bgs were greater than the industrial and construction worker SSLs. The maximum concentration at location 00-61805 was at 8–9 ft bgs, and concentrations to a depth of 13 ft bgs were greater than the industrial and construction worker SSLs. Based on these results, soil/tuff at locations 00-61739 and 00-61805 was excavated to a depth of 17 ft bgs. Excavation to this depth resulted in the following:

- removal of all contamination above residential SSLs in the depth interval from 0–10 ft bgs where residential risk is evaluated,
- removal of the maximum detected concentrations, and
- removal of all concentrations greater than construction worker SSLs.

B-10.0 REFERENCES

The following reference list includes documents cited in this appendix. Parenthetical information following each reference provides the author(s), publication date, and ERID, ESHID, or EMID. ERIDs were assigned by the Laboratory's Associate Directorate for Environmental Management (IDs through 599999); ESHIDs were assigned by the Laboratory's Associate Directorate for Environment, Safety, and Health (IDs 600000 through 699999); and EMIDs are assigned by N3B (IDs 700000 and above).

BGI (Banda Group International), August 23, 2023. "Extent Sampling Work Plan for Middle DP Road Site, Revision 16," White Rock, New Mexico. (BGI 2023, 702948)

LANL (Los Alamos National Laboratory), September 2015. "Derivation and Use of Radionuclide Screening Action Levels, Revision 4," Los Alamos National Laboratory document LA-UR-15-24859, Los Alamos, New Mexico. (LANL 2015, 600929)

N3B (Newport News Nuclear BWXT-Los Alamos, LLC), March 2021. "Solid Waste Management Unit Assessment Work Plan for Middle DP Road Site, Revision 1," Newport News Nuclear BWXT-Los Alamos, LLC, document EM2021-0095, Los Alamos, New Mexico. (N3B 2021, 701344)

NMED (New Mexico Environment Department), April 5, 2021. "Approval, Solid Waste Manangement [sic] Unit Assessment Work Plan for Middle DP Road Site, Revision 1," New Mexico Environment Department letter to A. Duran (EM-LA) from K. Pierard (NMED-HWB), Santa Fe, New Mexico. (NMED 2021, 701368)

NMED (New Mexico Environment Department), November 2022. "Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Soil Screening Guidance for Human Health Risk Assessments," Hazardous Waste Bureau and Ground Water Quality Bureau, Santa Fe, New Mexico. (NMED 2022, 702484)

Table B-1.0-1
Summary of Field Investigation Methods

Method	Summary
Field-Screening and Instrument Calibration	Field screening for radioactivity and/or volatile organic compounds (VOCs) was performed on each sample collected. The response check and calibration of instruments used to screen for radioactivity and VOCs were conducted by a qualified representative. All response checks and calibrations were performed daily according to the manufacturers' specifications and requirements with approved operating procedures and were recorded on the appropriate forms.
Spade and Scoop Collection of Soil Samples	This method was used to collect shallow (i.e., approximately 0–1.0 ft) soil or sediment samples. The spade-and-scoop method involves digging a hole to the desired depth, as prescribed in the approved SWMU assessment WP R1 (N3B 2021, 701344; NMED 2021, 701368), and collecting a discrete grab sample. Samples for VOC analysis were transferred immediately into sample containers. Containers for VOC analysis were filled as completely as possible and sealed with Teflon-lined caps. Remaining sample material was placed in a clean stainless-steel bowl for transfer to various sample containers.
Hand-Auger Sampling	This method is typically used for sampling soil or sediment at depths of less than 10–15 ft but in some cases may be used to collect samples of weathered or nonwelded tuff. The method involves hand-turning a stainless-steel bucket auger (typically 3–4 in. inside diameter), creating a vertical hole that can be advanced to the desired sample depth. When the desired depth was reached, the auger was decontaminated before advancing the hole through the sampling depth. Samples for VOC analysis were transferred immediately to sample containers. Containers for VOC analysis were filled as completely as possible and sealed with Teflon-lined caps. The remaining sample material was transferred from the auger bucket to a stainless-steel sampling bowl before the various required sample containers were filled.
Handling, Packaging, and Shipping of Samples	Field team members sealed and labeled samples before packing to ensure the sample and the transport containers were free of external contamination. They packaged all samples to minimize the possibility of breakage during transport. After all environmental samples were collected, packaged, and preserved, a field team member transported them to the Sample Management Office (SMO), which arranged to ship the samples to the analytical laboratories.
Sample Control and Field Documentation	The collection, screening, and transportation of samples were documented on standard forms generated by the SMO. These included SCLs, chain-of-custody (COC) forms, and sample container labels. SCLs were completed at the time of sample collection, and the logs were signed by the sampler and a reviewer who verified the logs for completeness and accuracy. Corresponding labels were initialed and applied to each sample container, and custody seals were placed around each sample container. COC forms were completed and signed to verify that the samples were not left unattended.
Field Quality Control Samples	Field quality control samples were collected as follows: • Field Duplicates – collected at a frequency of 10% at the same time as a regular sample and submitted for the same analyses. • Equipment Rinsate Blank – collected at a frequency of 10% by rinsing sampling equipment with deionized water, which was collected in a sample container and submitted for laboratory analysis. • Trip Blanks – required for all field events that include the collection of samples for VOC analysis. Trip blank containers of certified clean sand were unopened and kept with the other sample containers during the sampling process.
Field Decontamination of Drilling and Sampling Equipment	Dry decontamination was used to minimize the generation of liquid waste. Dry decontamination consisted of using a wire brush or other tool to remove soil or other material adhering to the sampling equipment, followed by use of a commercial cleaning agent (nonacid, waxless cleaners) and paper wipes.

Table B-1.0-1 (continued)

Method	Summary
Containers and Preservation of Samples	Specific requirements/processes for sample containers, preservation techniques, and holding times are based on U.S. Environmental Protection Agency guidance for environmental sampling, preservation, and quality assurance. Specific requirements for each sample were printed on the SCL provided by the SMO (size and type of container, e.g., glass, amber glass, and polyethylene). All samples were preserved by placing them in insulated containers with ice to maintain a temperature of 4°C.
Management of Environmental Remediation Program Waste, Waste Characterization	Investigation-derived waste (IDW) was managed, characterized, and stored in accordance with an approved waste characterization strategy form that documents site history, field activities, and characterization approach for each waste stream managed. During the SWMU assessment investigation, waste characterization complied with on- or off-site waste acceptance criteria. All stored IDW was marked with appropriate signage and labels. Drummed IDW was stored on pallets to prevent deterioration of containers. A waste storage area was established before waste was generated. Waste storage areas, located in controlled areas of the Laboratory, were monitored as needed to prevent inadvertent addition or management of wastes by unauthorized personnel. Each container of waste generated was individually labeled with waste classification, item identification number, and radioactivity (if applicable) immediately following containerization. All waste was segregated by classification and compatibility to prevent cross-contamination. Management of IDW is described in Appendix E.
Coordinating and Evaluating Geodetic Surveys	Geodetic surveys focused on obtaining survey data of acceptable quality to use during project investigations. Geodetic surveys were performed by a licensed State of New Mexico surveyor. All coordinates were expressed as State Plane Coordinate System 83, NM Central, U.S. feet. All elevation data were reported relative to the National Geodetic Vertical Datum of 1983.

Table B-1.0-2
Standard Operating Procedures Used for the
SWMU Assessment Investigation Activities at MDPR Site

Procedure Number	Procedure Title
N3B-P330-2	Control of Measuring and Test Equipment
N3B-P409-0	N3B Waste Management
N3B-SOP-ER-2001	Soil, Tuff, and Sediment Sampling
N3B-SOP-ER-2002	Field Decontamination of Equipment
N3B-SOP-ER-6005	Monitoring Well and Borehole Abandonment
N3B-SOP-SDM-1100	Sample Containers, Preservation, and Field Quality Control
N3B-SOP-SDM-1101	Sample Control and Field Documentation

Table B-1.0-3
Threshold Values Used for XRF Field Screening

Parameter	Residential SSL (mg/kg)	Threshold Value (mg/kg)
Arsenic	7.07	8.0 (background)
Copper	3130	2347.5
Lead	400	300

Appendix C

Analytical Suites and Results and Analytical Reports
(on DVD included with this document)

N3B RECORDS	
Media Information Page	
This is a placeholder page for a record that cannot be uploaded or would lose meaning or content if uploaded. The record can be requested through regdocs@em-la.doe.gov	
Document Date: 12/22/2023	**EM ID number:** 703024-06
Document Title: Appendix C Submittal of the Solid Waste Management Unit Assessment Report for the Middle DP Road Site	☒ **No restrictions** ☐ **UCNI** ☐ **Copyrighted**
Media type and quantity: 1 CD 4 DVDs	**Software and version required to read media:** Adobe Acrobat 9.0
Other document numbers or notes: Files are too numerous and large to upload.	

Appendix D

Box Plots and Statistical Results

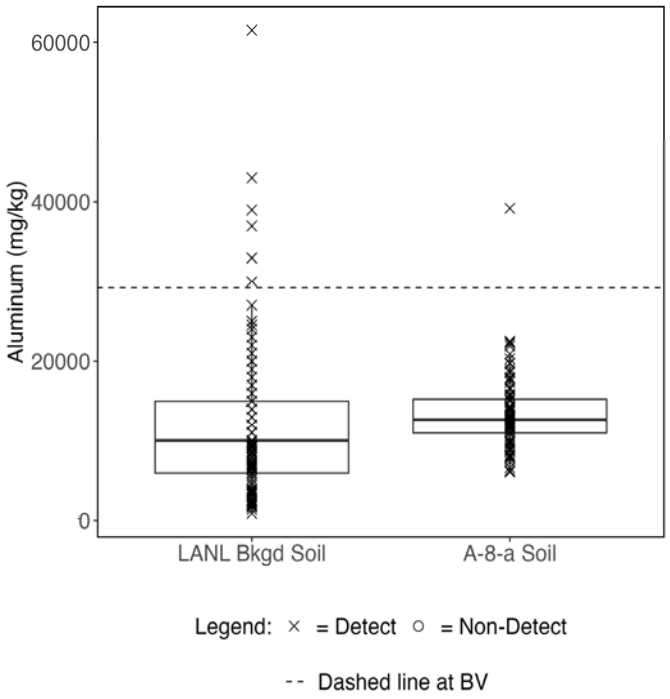


Figure D-1 Box plot for aluminum in soil at A-8-a

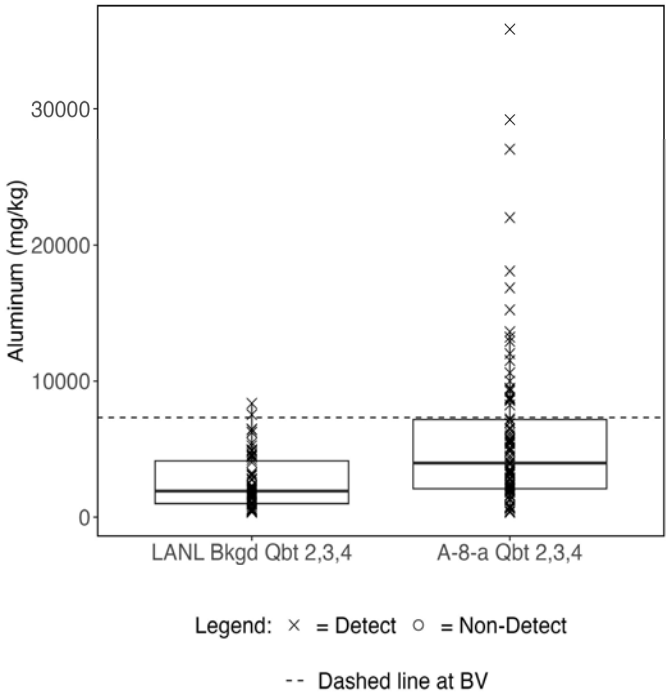


Figure D-2 Box plot for aluminum in Qbt 2,3,4 at A-8-a

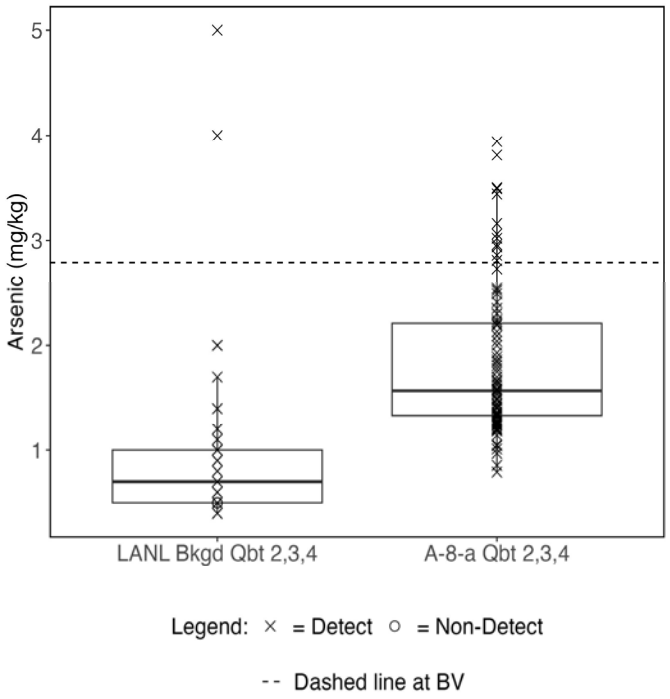


Figure D-3 Box plot for arsenic in Qbt 2,3,4 at A-8-a

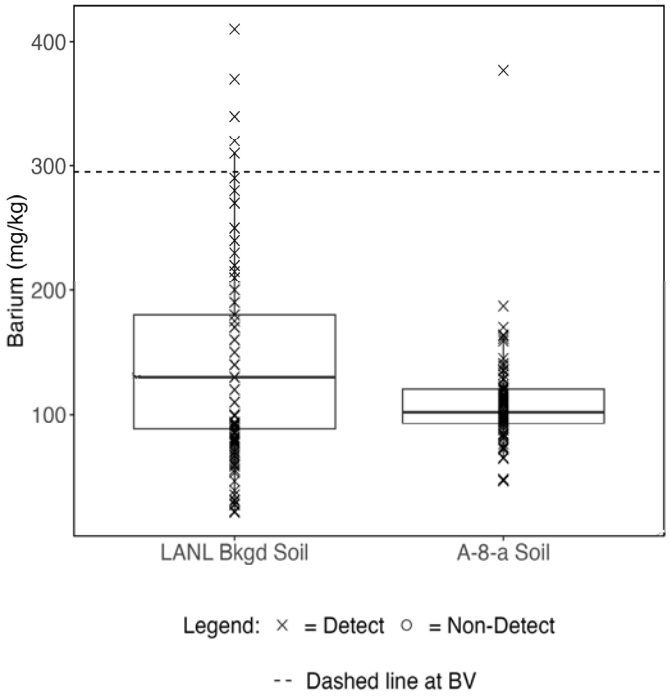


Figure D-4 Box plot for barium in soil at A-8-a

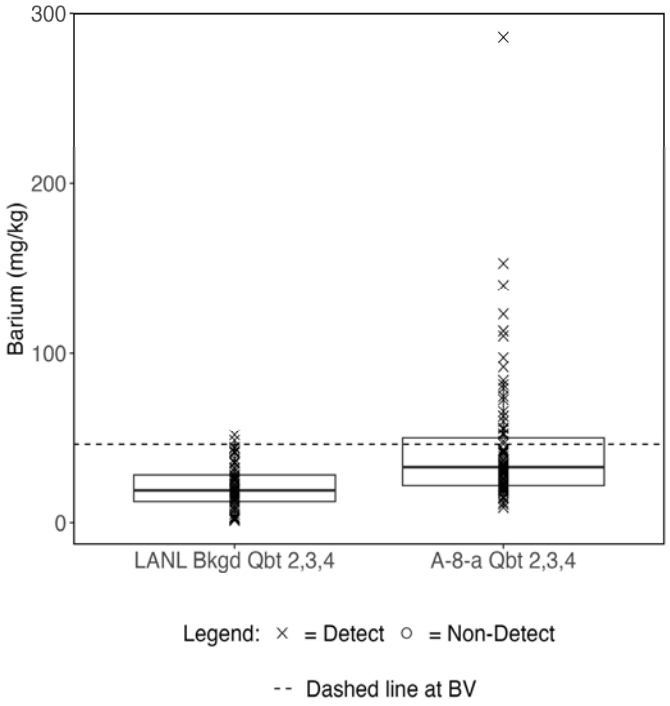


Figure D-5 Box plot for barium in Qbt 2,3,4 at A-8-a

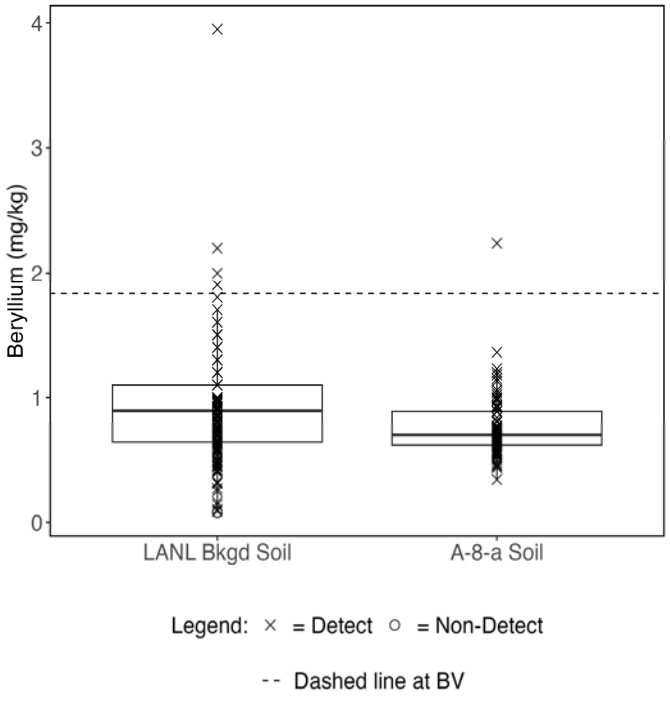


Figure D-6 Box plot for beryllium in soil at A-8-a

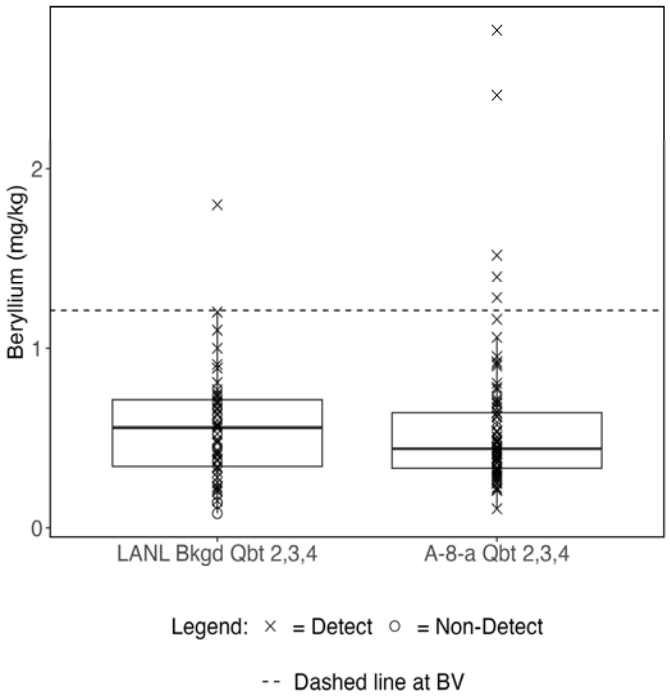


Figure D-7 Box plot for beryllium in Qbt 2,3,4 at A-8-a

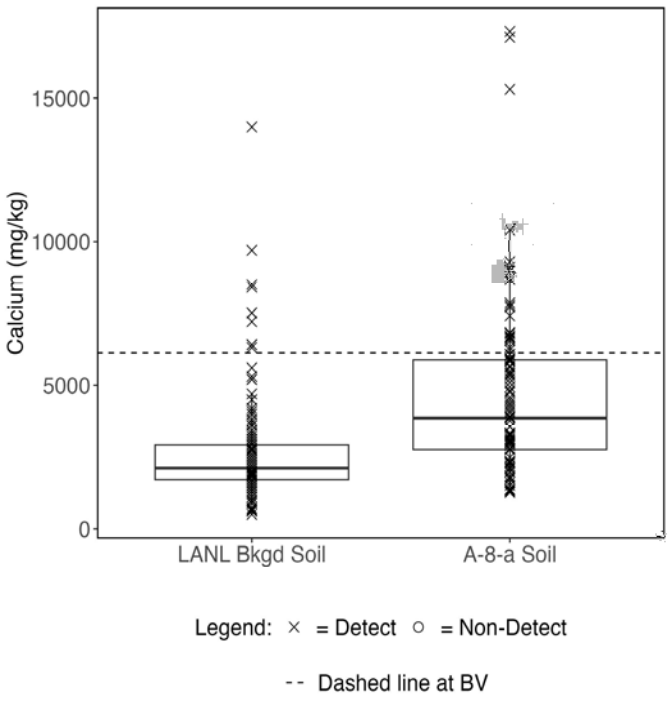


Figure D-8 Box plot for calcium in soil at A-8-a

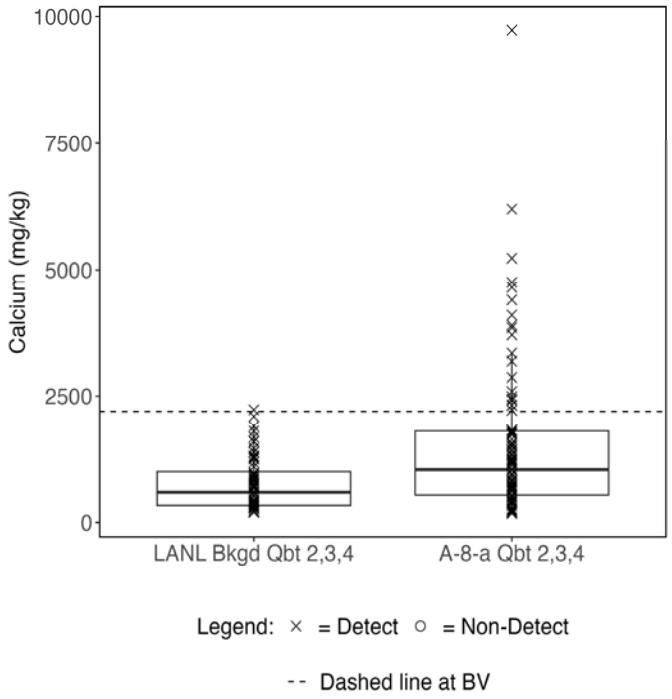


Figure D-9 Box plot for calcium in Qbt 2,3,4 at A-8-a

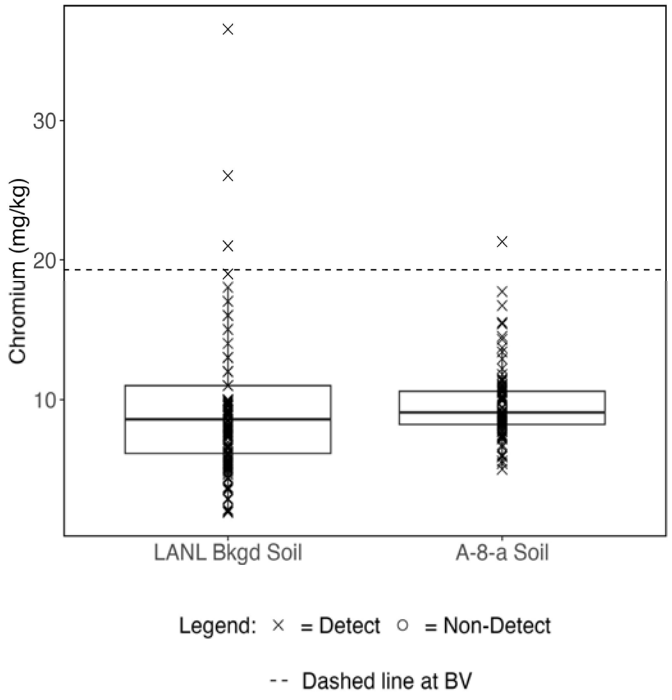


Figure D-10 Box plot for chromium in soil at A-8-a

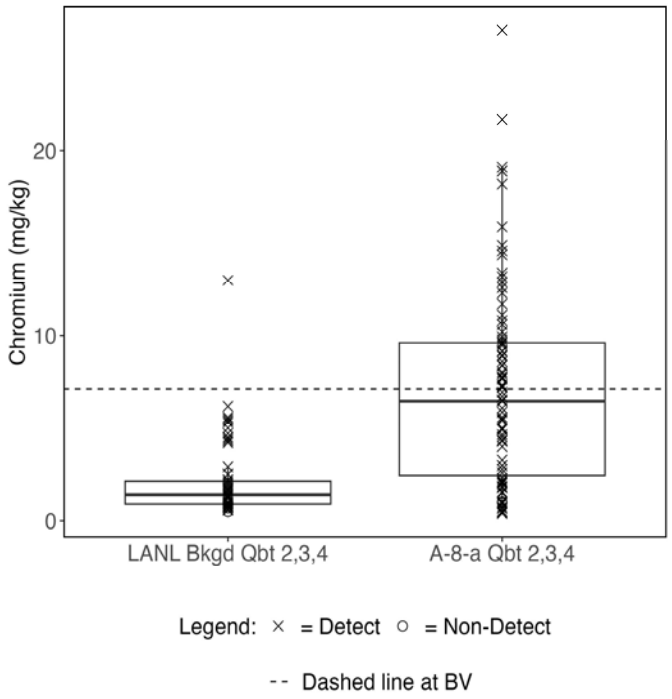


Figure D-11 Box plot for chromium in Qbt 2,3,4 at A-8-a

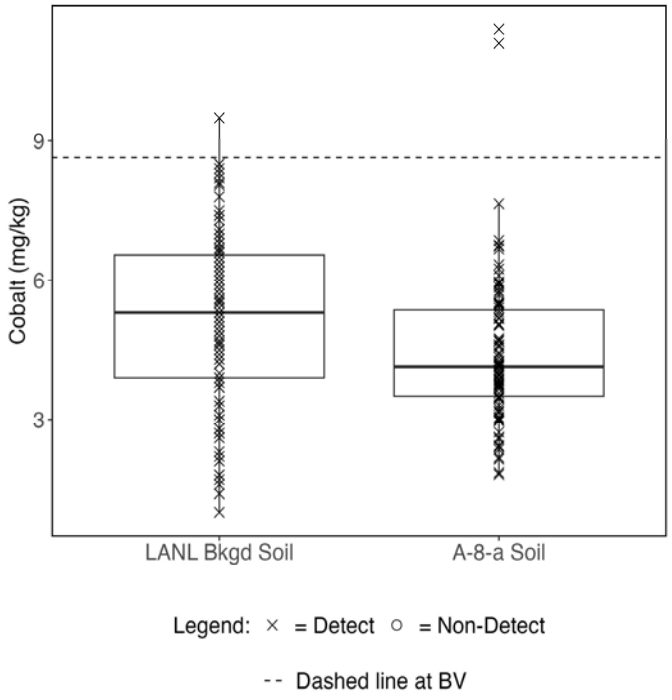


Figure D-12 Box plot for cobalt in soil at A-8-a

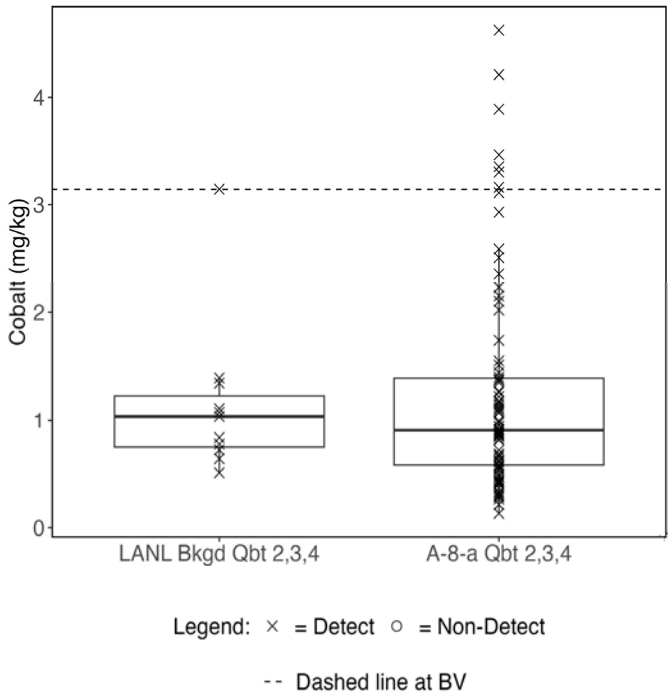


Figure D-13 Box plot for cobalt in Qbt 2,3,4 at A-8-a

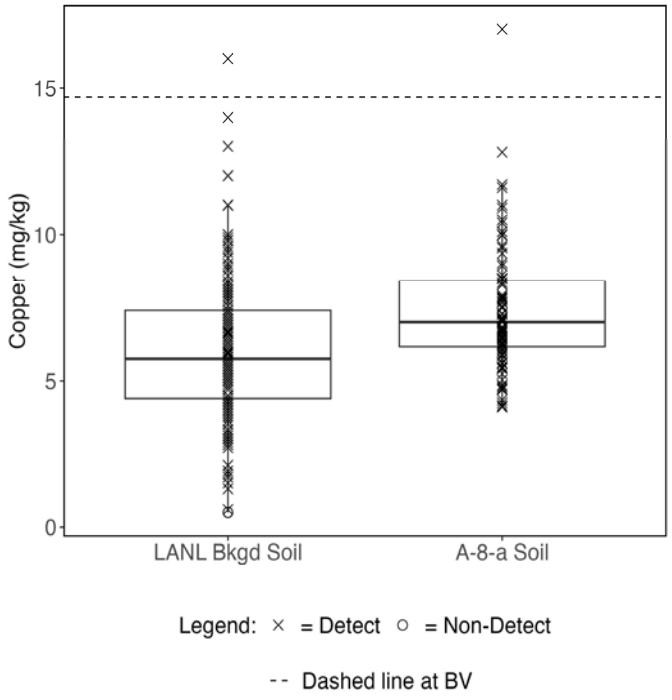


Figure D-14 Box plot for copper in soil at A-8-a

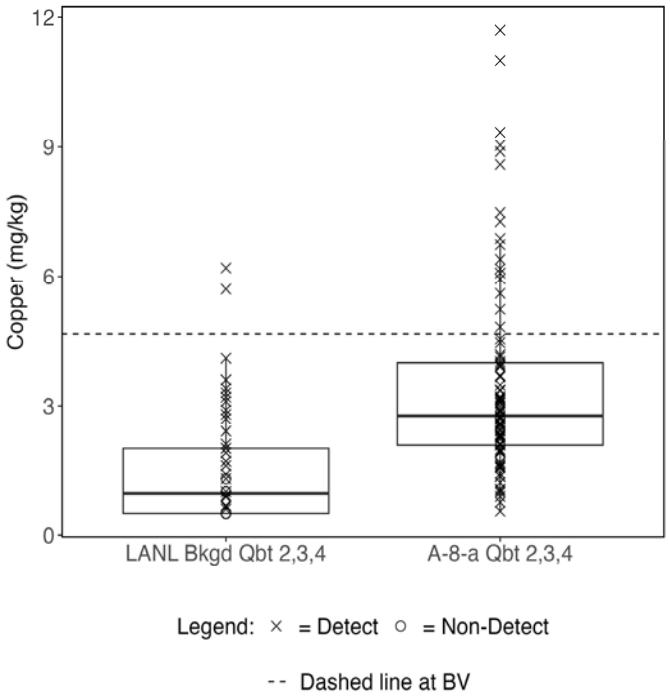


Figure D-15 Box plot for copper in Qbt 2,3,4 at A-8-a

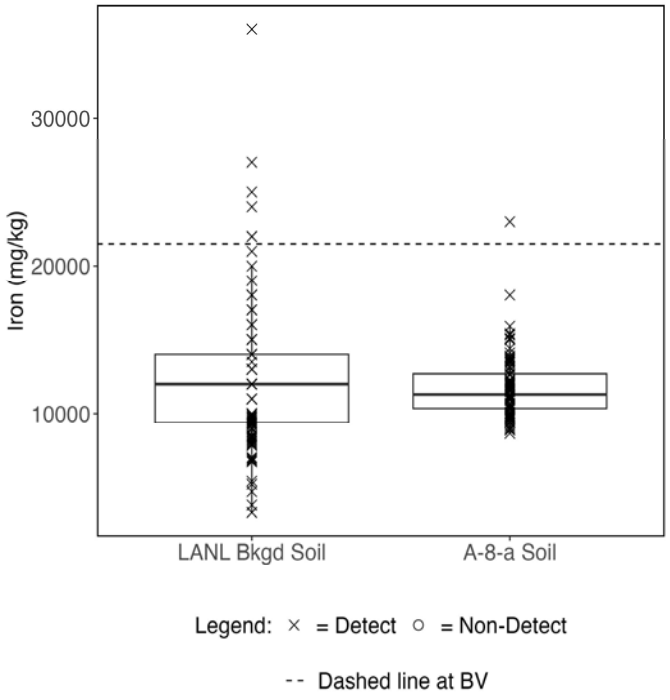


Figure D-16 Box plot for iron in soil at A-8-a

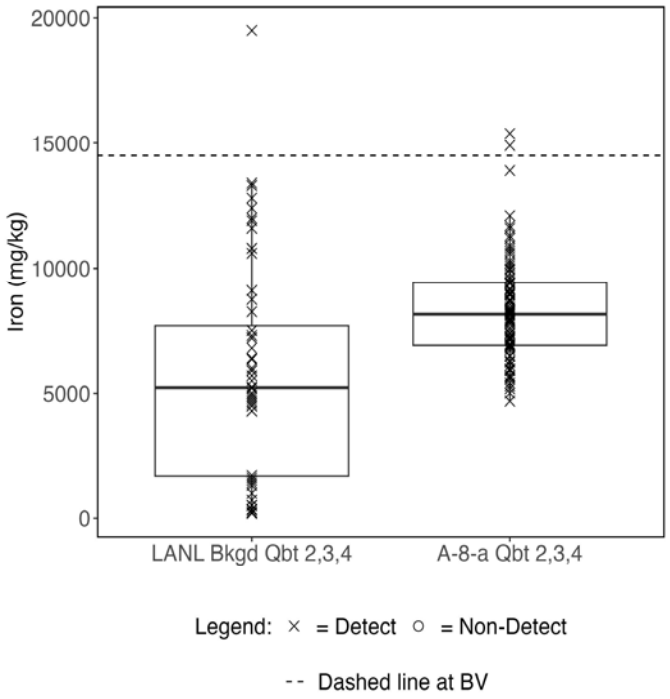


Figure D-17 Box plot for iron in Qbt 2,3,4 at A-8-a

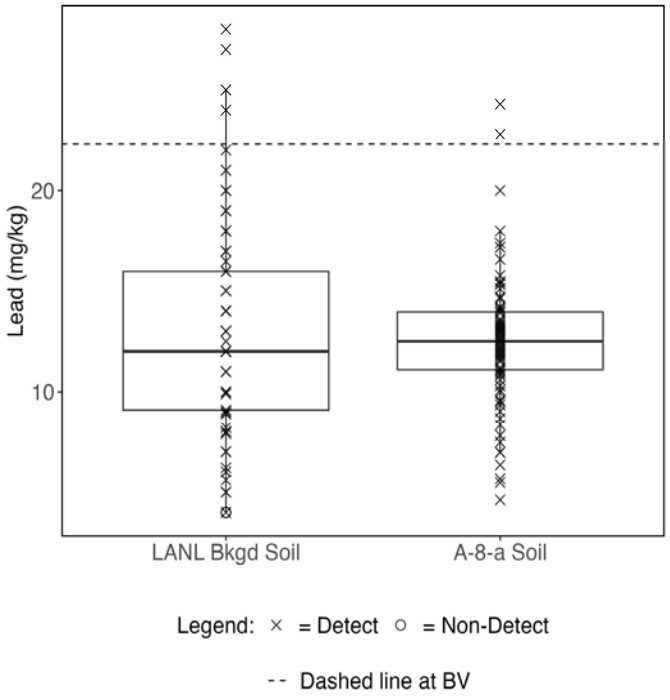


Figure D-18 Box plot for lead in soil at A-8-a

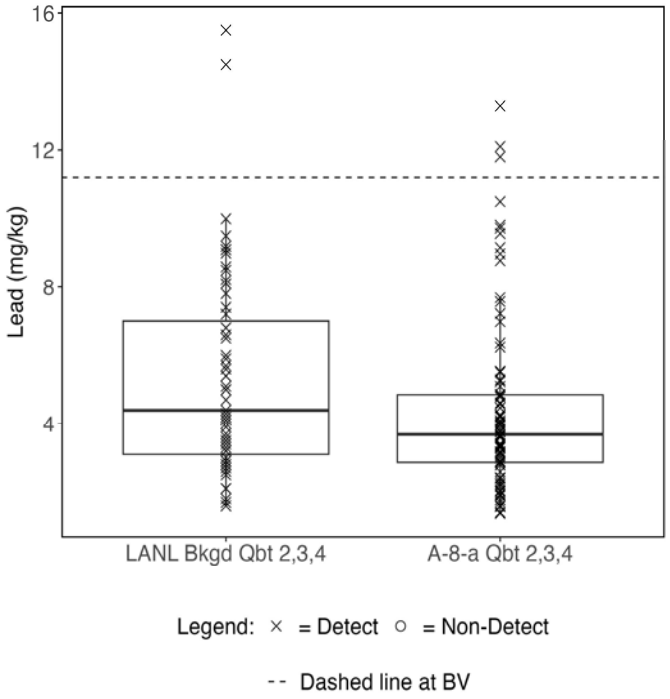


Figure D-19 Box plot for lead in Qbt 2,3,4 at A-8-a

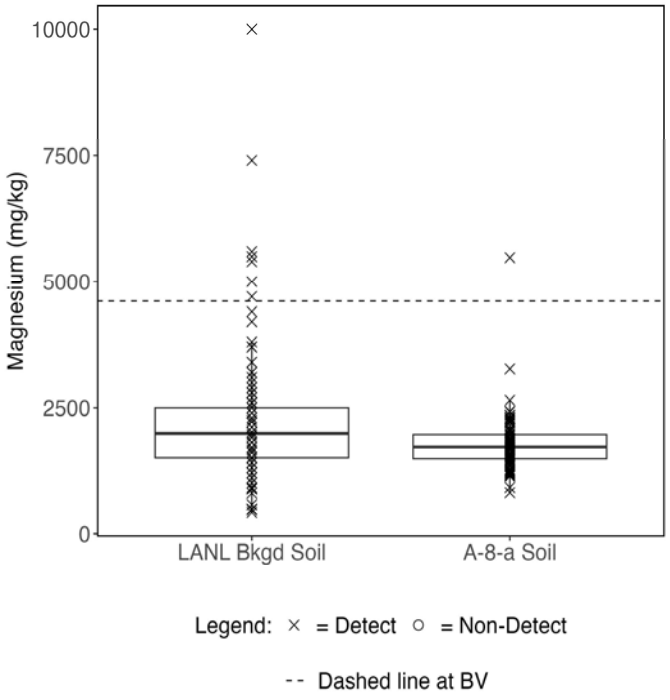


Figure D-20 Box plot for magnesium in soil at A-8-a

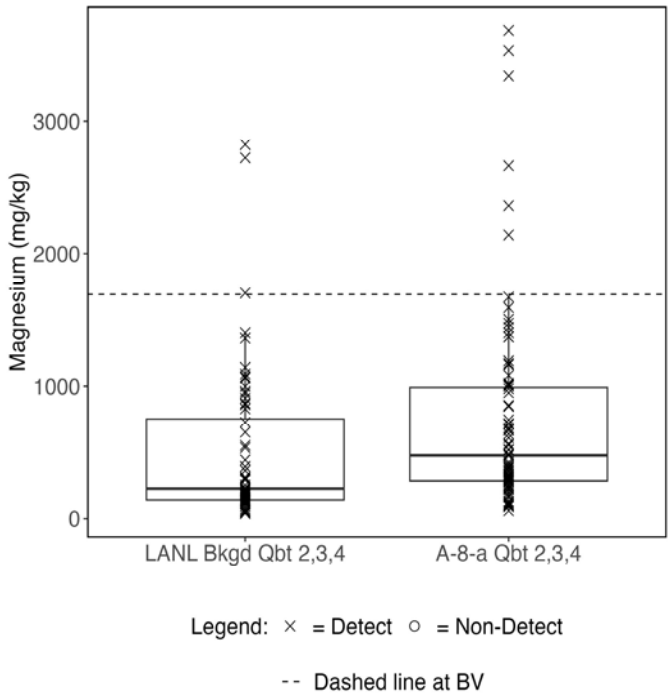


Figure D-21 Box plot for magnesium in Qbt 2,3,4 at A-8-a

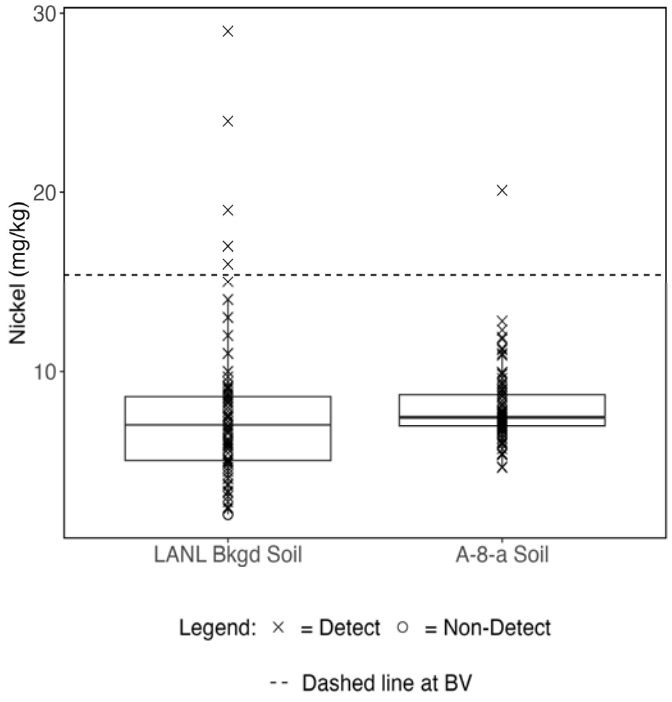


Figure D-22 Box plot for nickel in soil at A-8-a

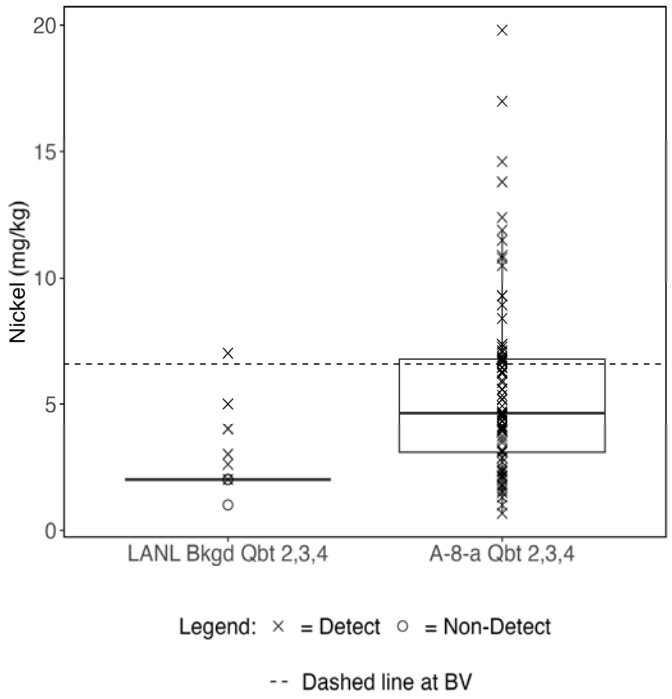


Figure D-23 Box plot for nickel in Qbt 2,3,4 at A-8-a

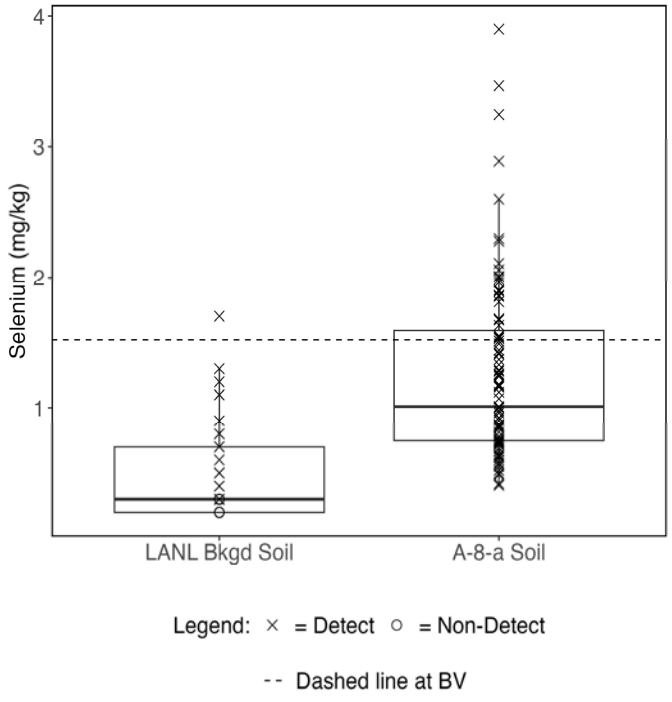


Figure D-24 Box plot for selenium in soil at A-8-a

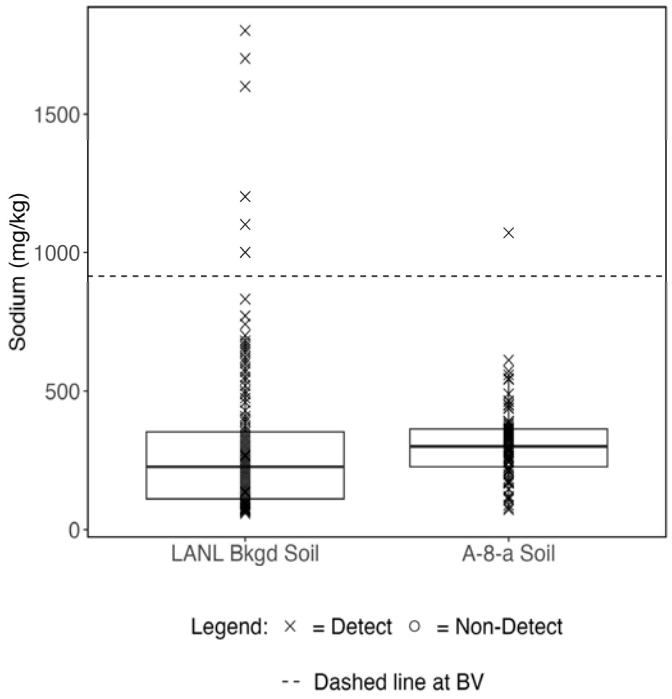


Figure D-25 Box plot for sodium in soil at A-8-a

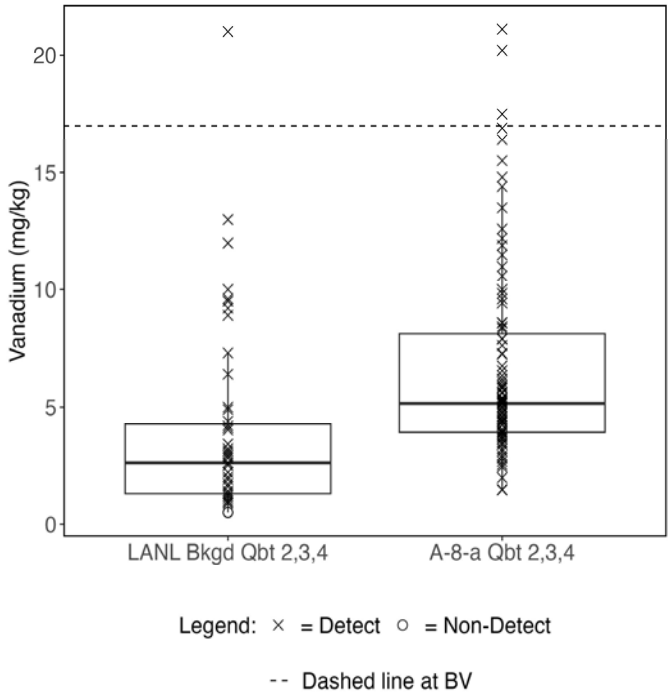


Figure D-26 Box plot for vanadium in Qbt 2,3,4 at A-8-a

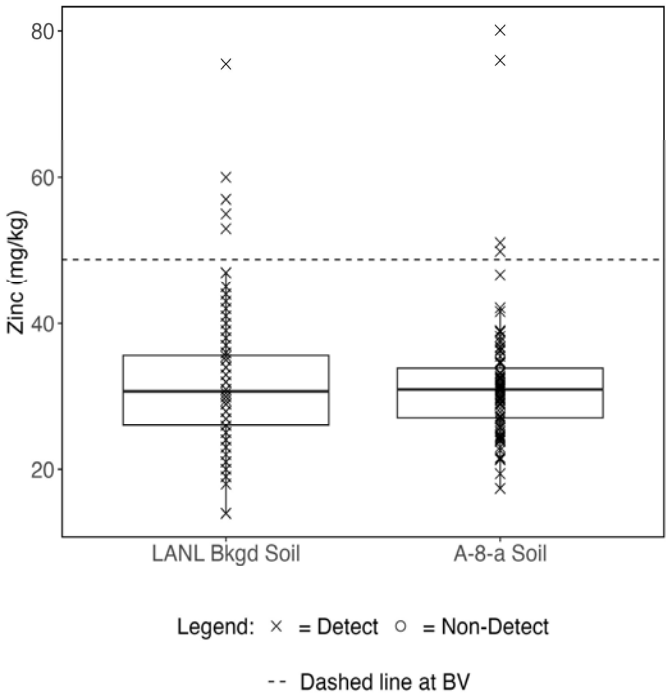


Figure D-27 Box plot for zinc in soil at A-8-a

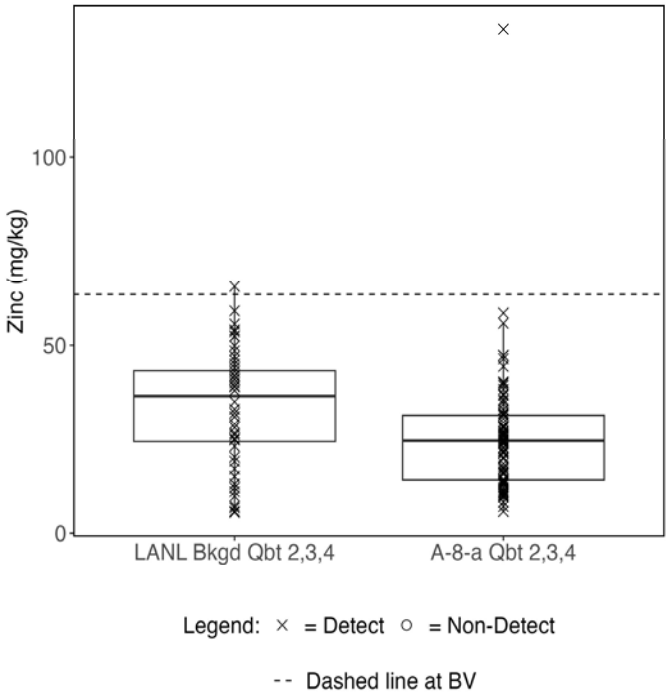


Figure D-28 Box plot for zinc in Qbt 2,3,4 at A-8-a

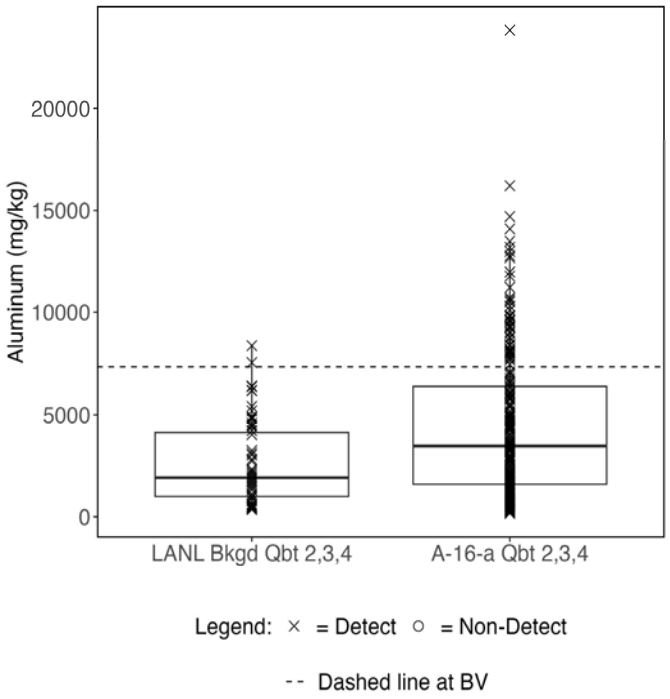


Figure D-29 Box plot for aluminum in Qbt 2,3,4 at A-16-a

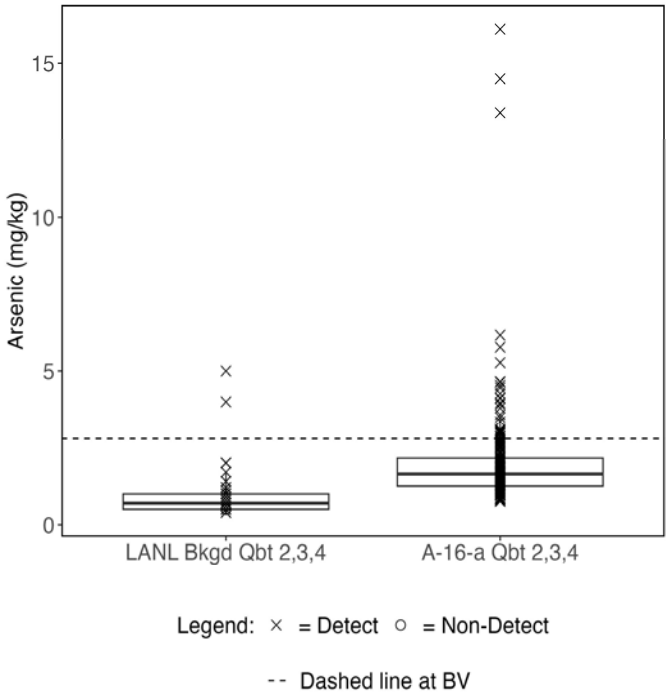


Figure D-30 Box plot for arsenic in Qbt 2,3,4 at A-16-a

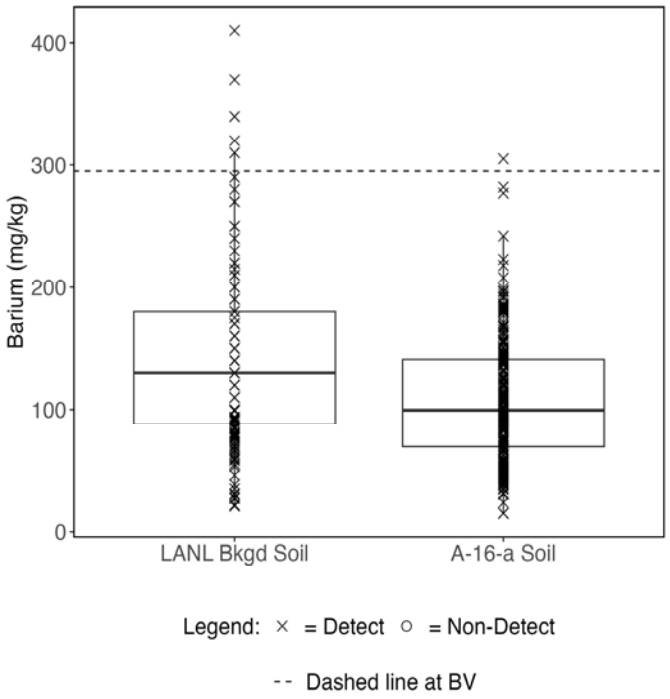


Figure D-31 Box plot for barium in soil at A-16-a

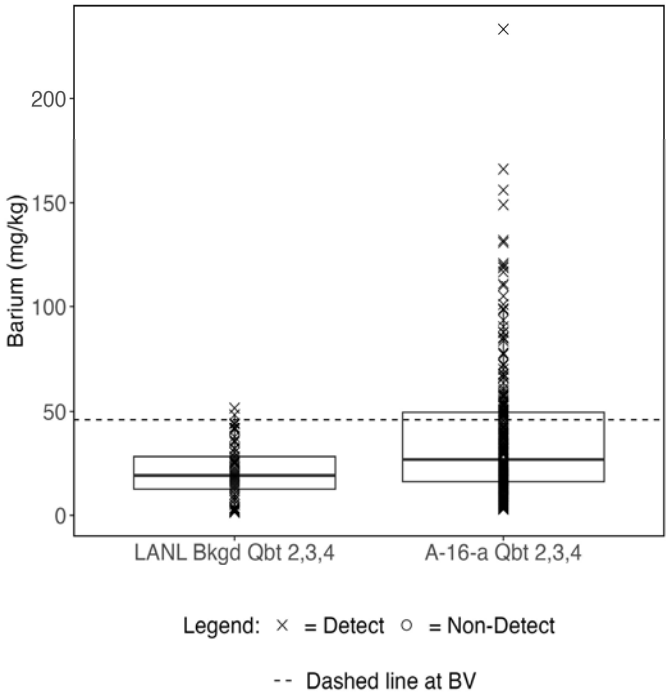


Figure D-32 Box plot for barium in Qbt 2,3,4 at A-16-a

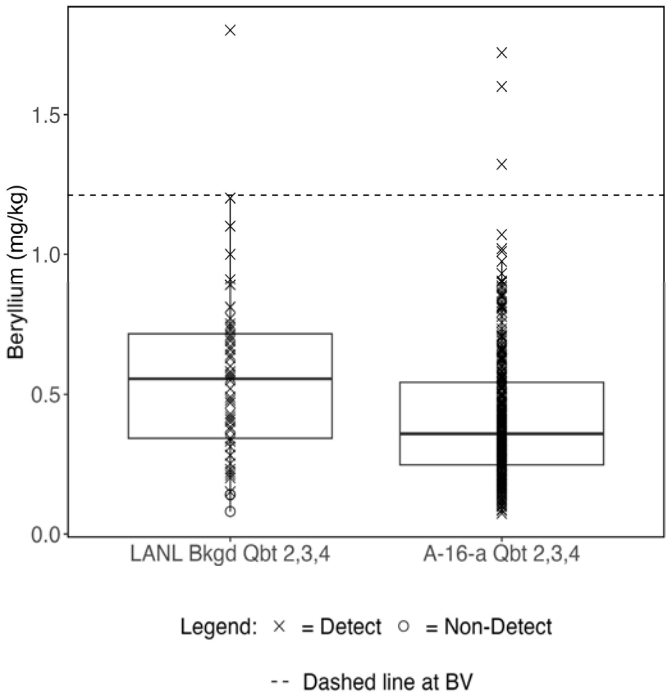


Figure D-33 Box plot for beryllium in Qbt 2,3,4 at A-16-a

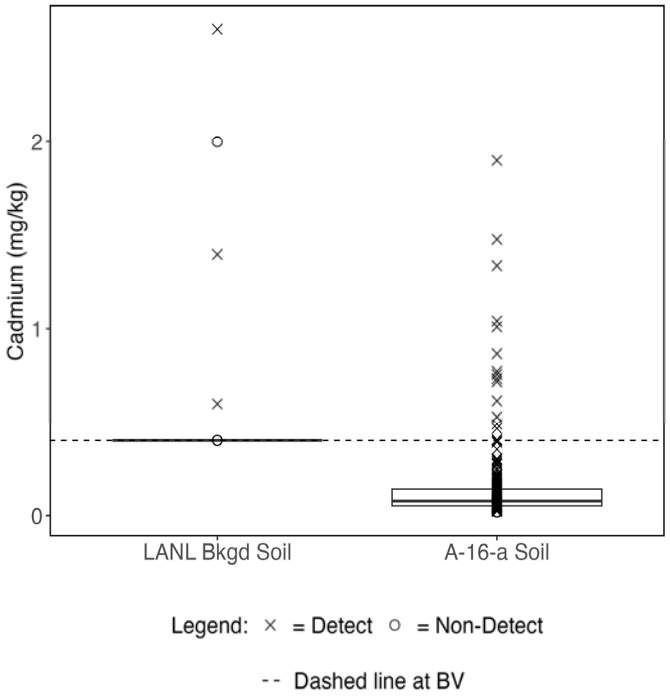


Figure D-34 Box plot for cadmium in soil at A-16-a

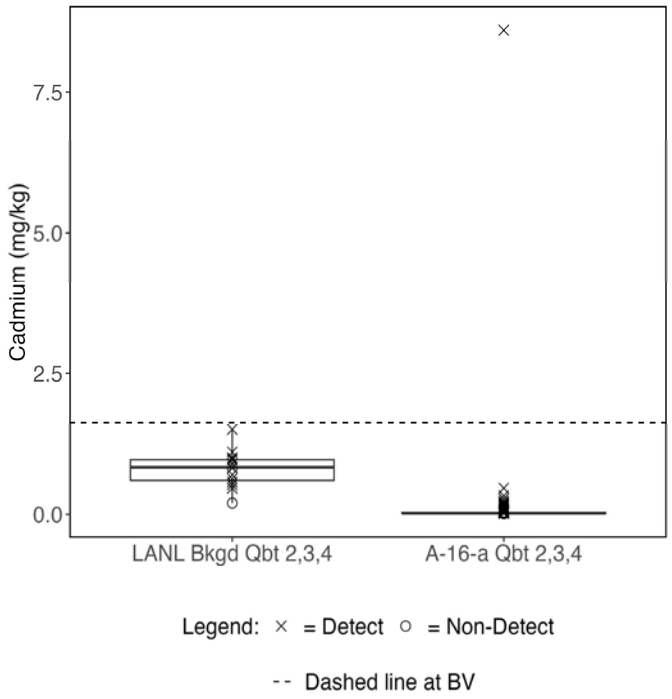


Figure D-35 Box plot for cadmium in Qbt 2,3,4 at A-16-a

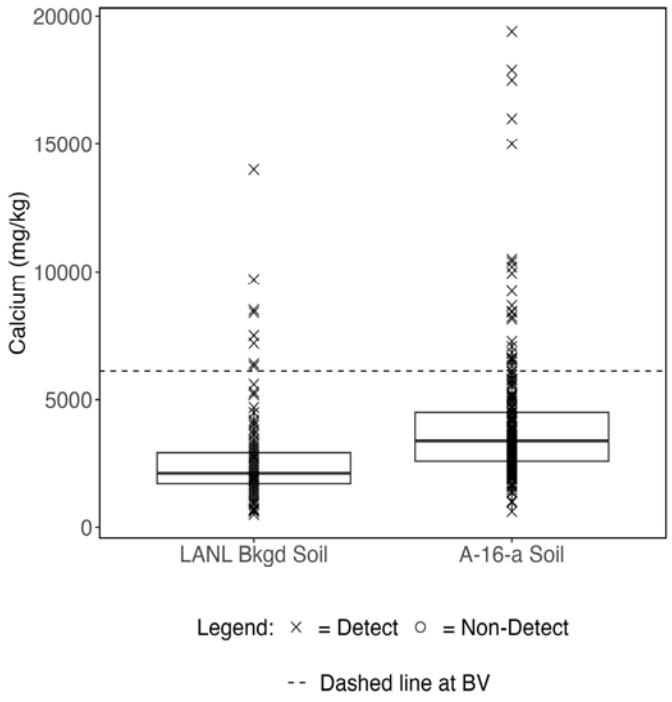


Figure D-36 Box plot for calcium in soil at A-16-a

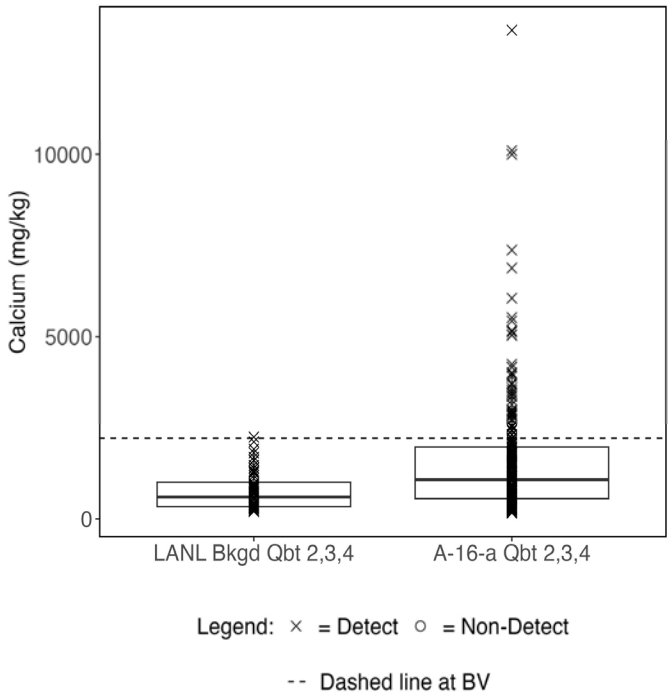


Figure D-37 Box plot for calcium in Qbt 2,3,4 at A-16-a

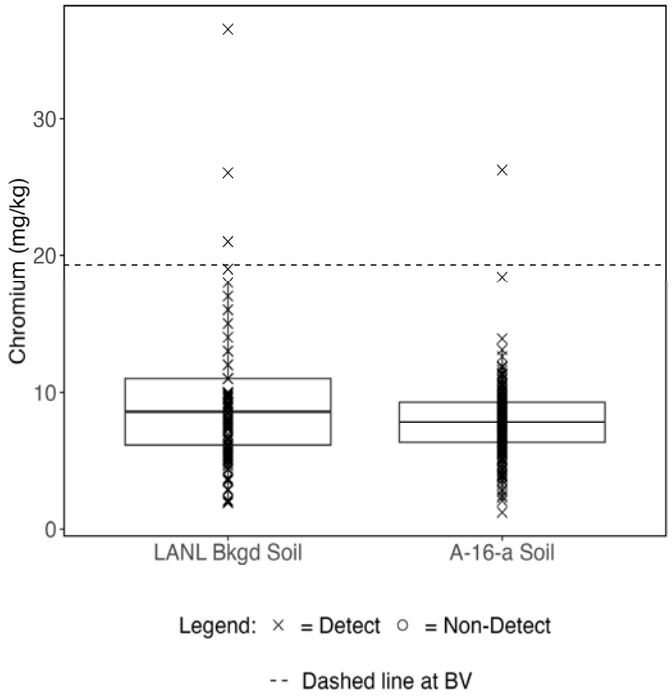


Figure D-38 Box plot for chromium in soil at A-16-a

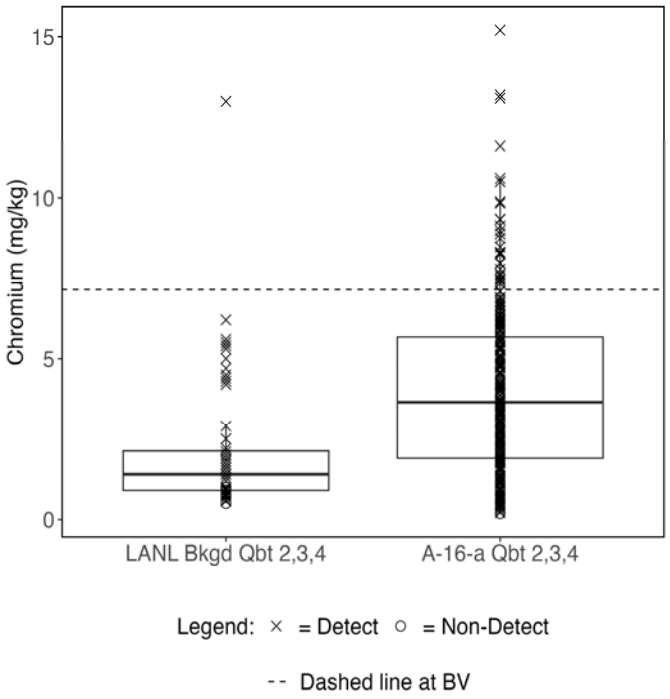


Figure D-39 Box plot for chromium in Qbt 2,3,4 at A-16-a

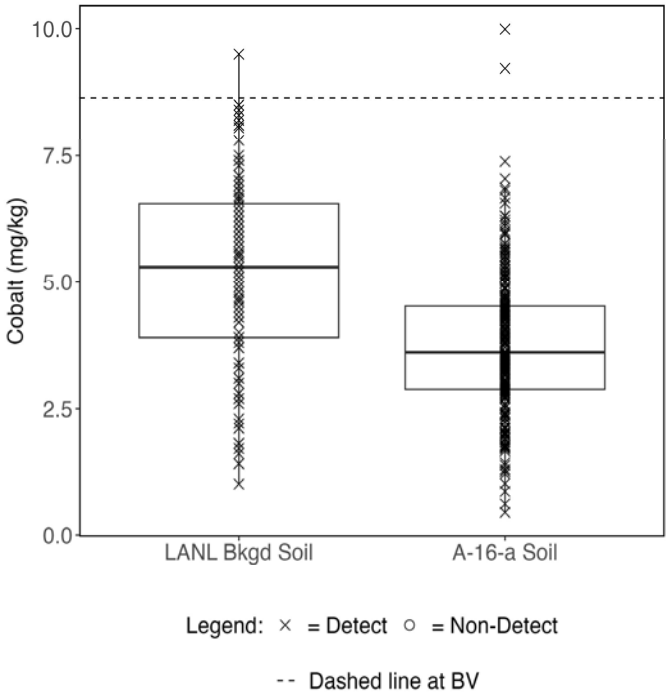


Figure D-40 Box plot for cobalt in soil at A-16-a

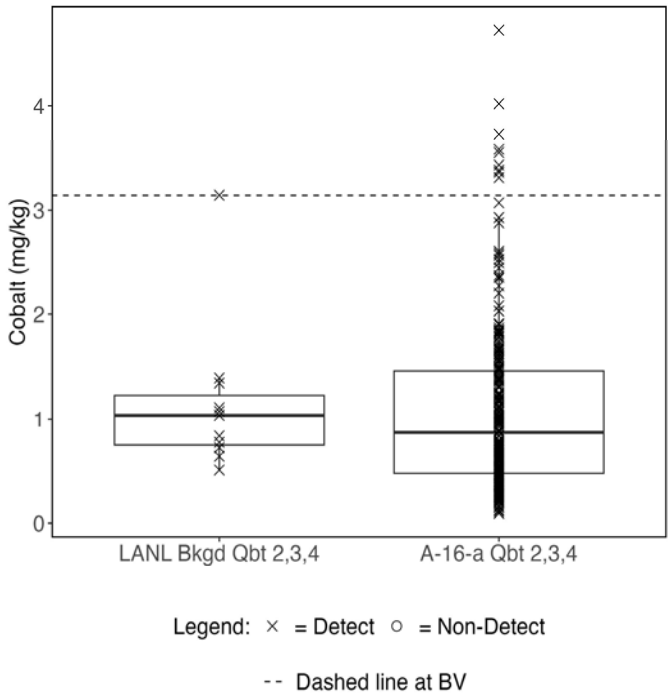


Figure D-41 Box plot for cobalt in Qbt 2,3,4 at A-16-a

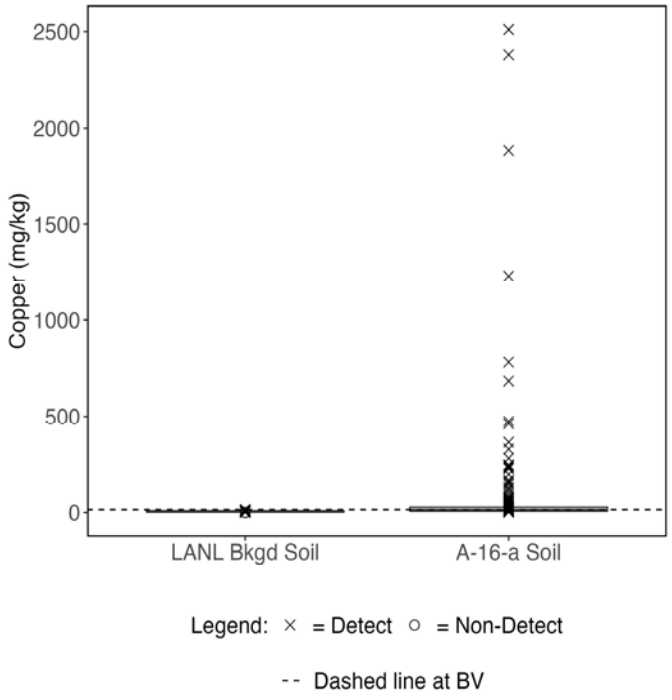


Figure D-42 Box plot for copper in soil at A-16-a

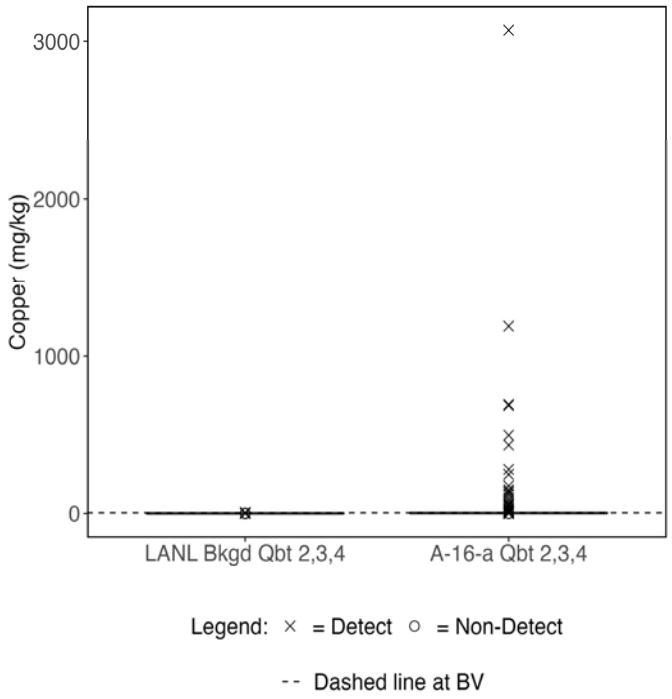


Figure D-43 Box plot for copper in Qbt 2,3,4 at A-16-a

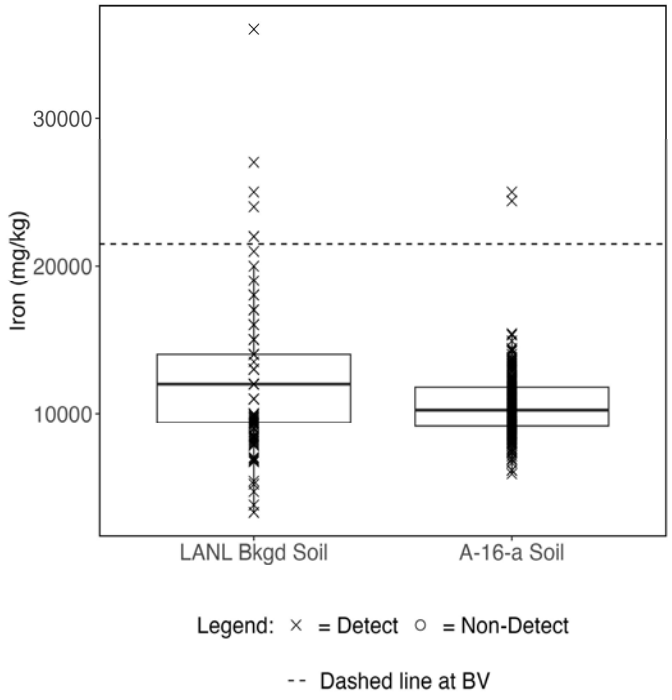


Figure D-44 Box plot for iron in soil at A-16-a

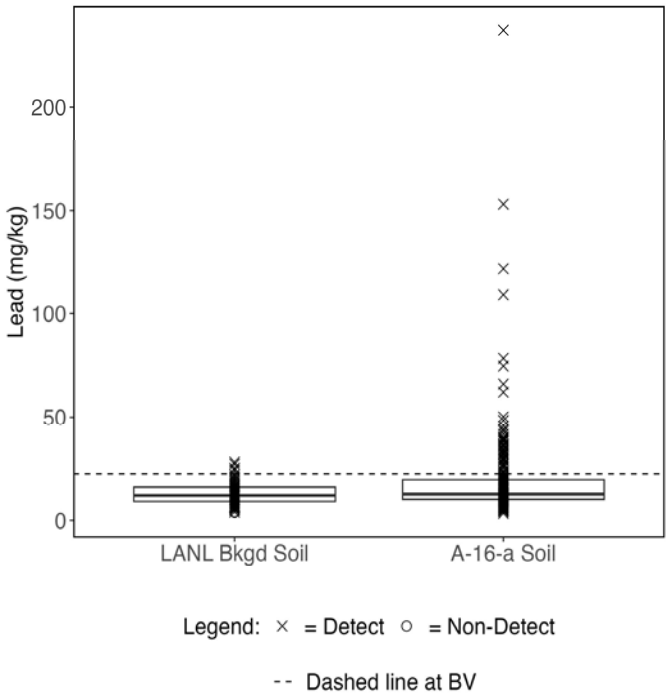


Figure D-45 Box plot for lead in soil at A-16-a

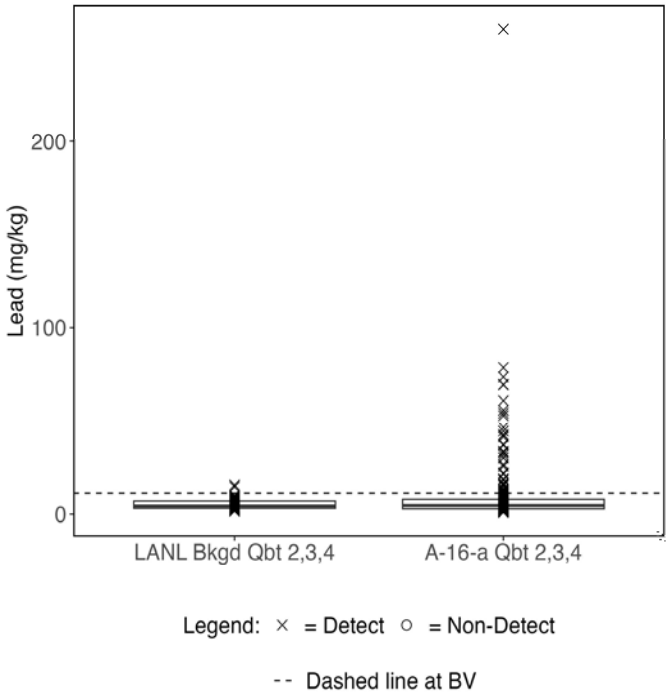


Figure D-46 Box plot for lead in Qbt 2,3,4 at A-16-a

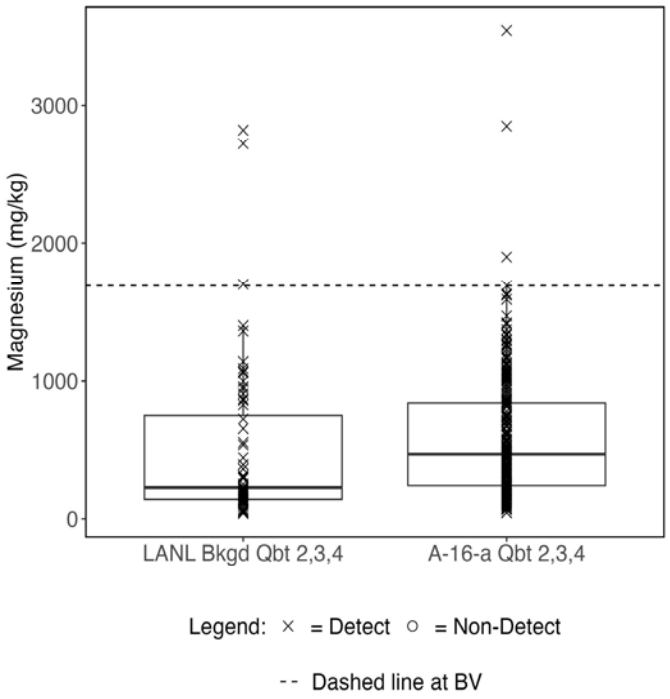


Figure D-47 Box plot for magnesium in Qbt 2,3,4 at A-16-a

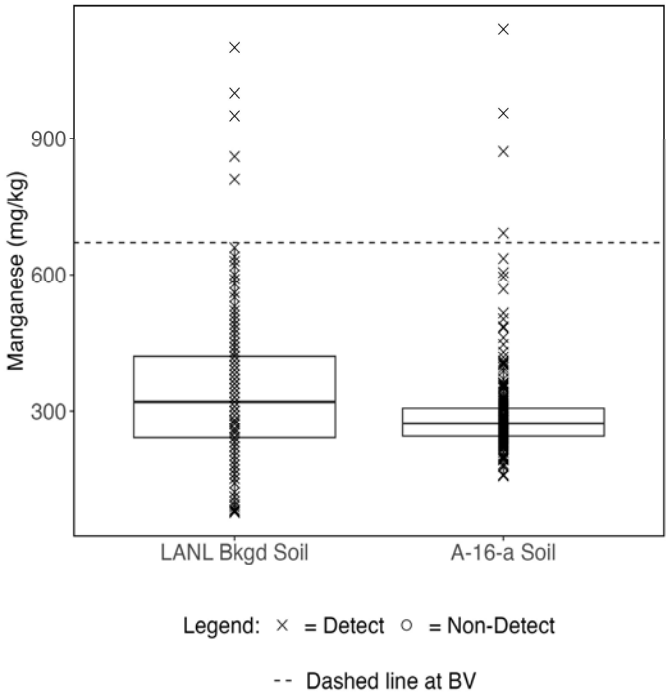


Figure D-48 Box plot for manganese in soil at A-16-a

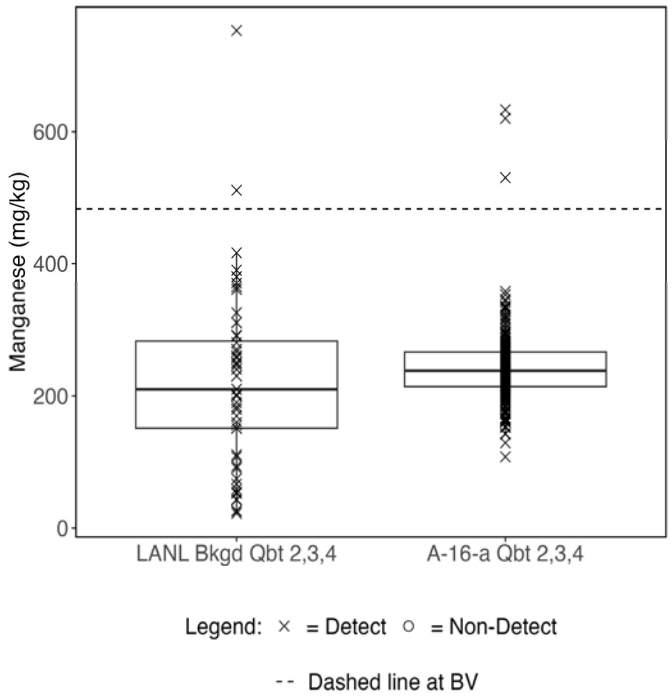


Figure D-49 Box plot for manganese in Qbt 2,3,4 at A-16-a

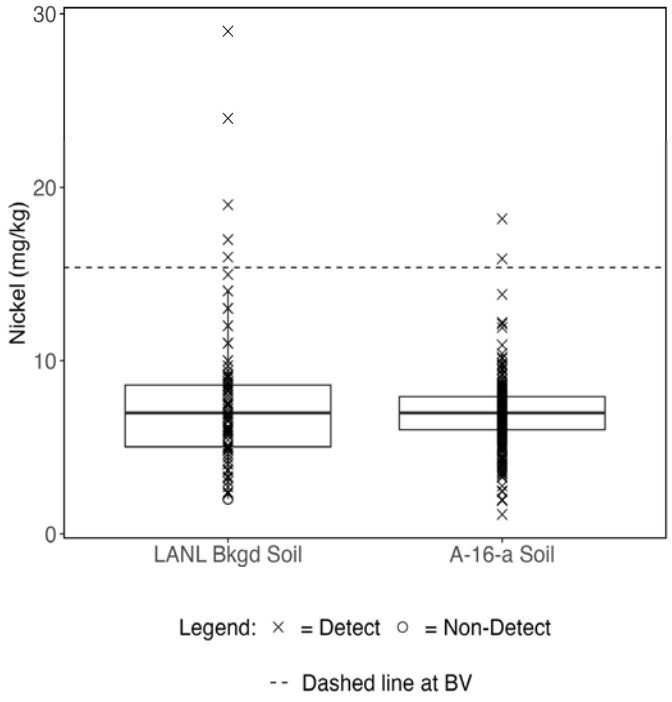


Figure D-50 Box plot for nickel in soil at A-16-a

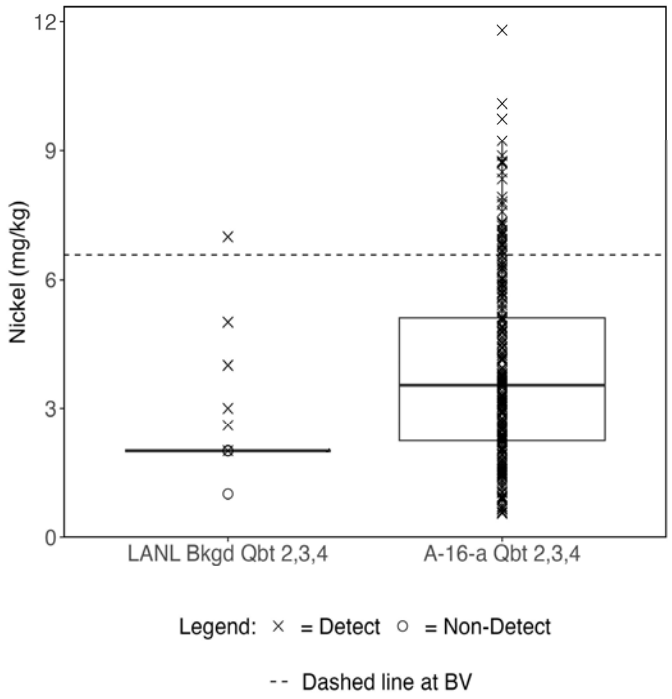


Figure D-51 Box plot for nickel in Qbt 2,3,4 at A-16-a

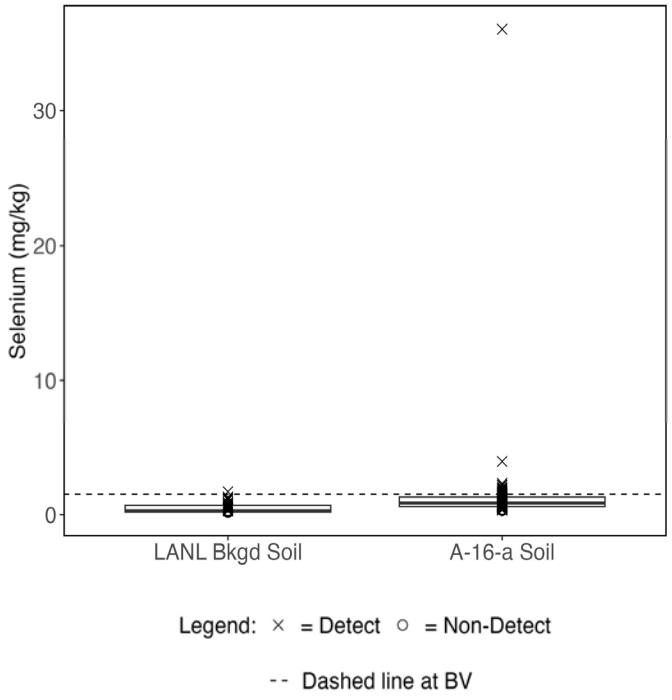


Figure D-52 Box plot for selenium in soil at A-16-a

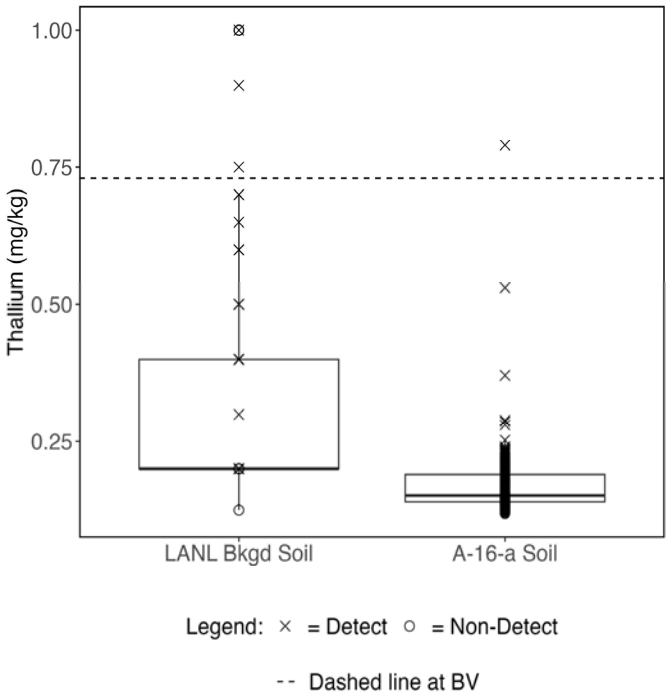


Figure D-53 Box plot for thallium in soil at A-16-a

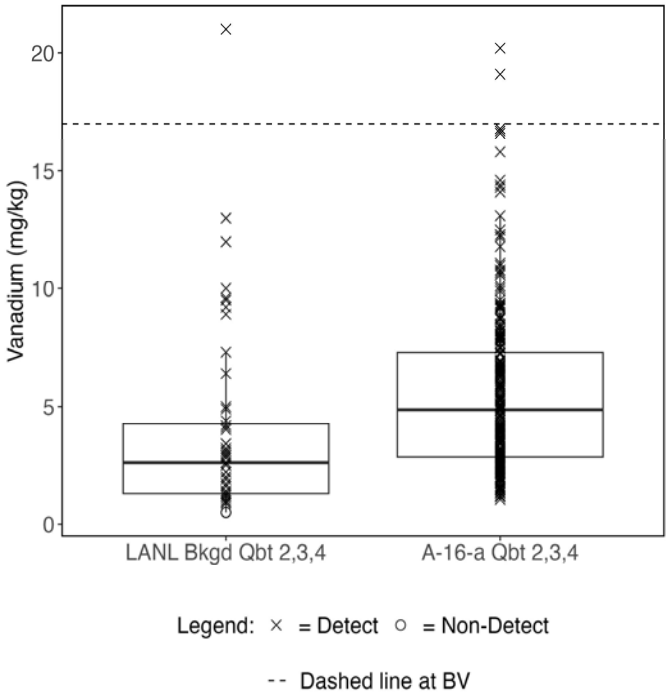


Figure D-54 Box plot for vanadium in Qbt 2,3,4 at A-16-a

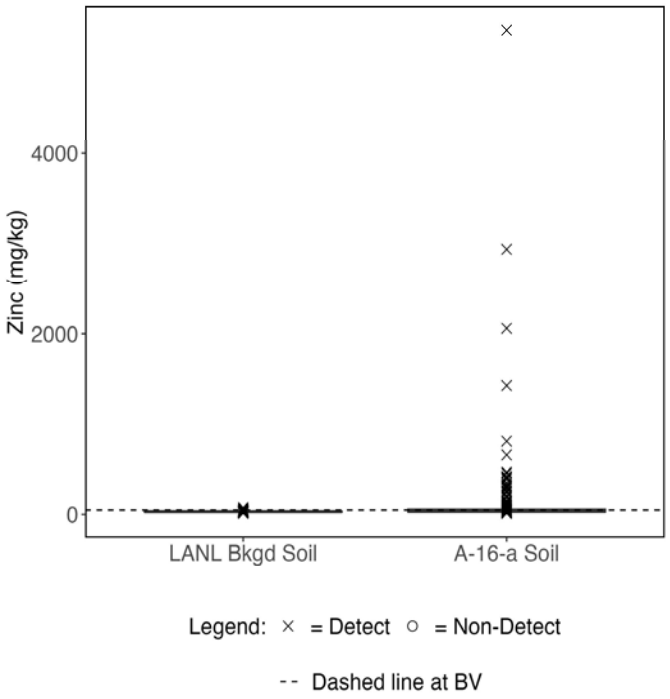


Figure D-55 Box plot for zinc in soil at A-16-a

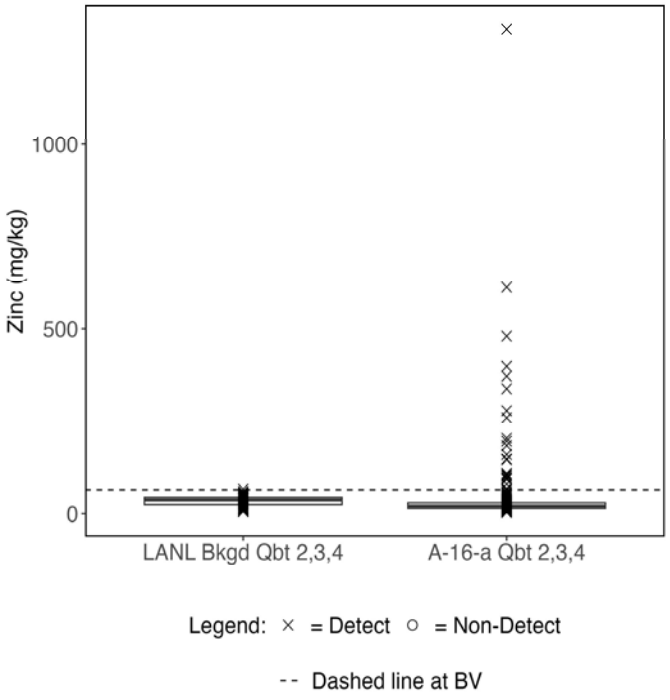


Figure D-56 Box plot for zinc in Qbt 2,3,4 at A-16-a

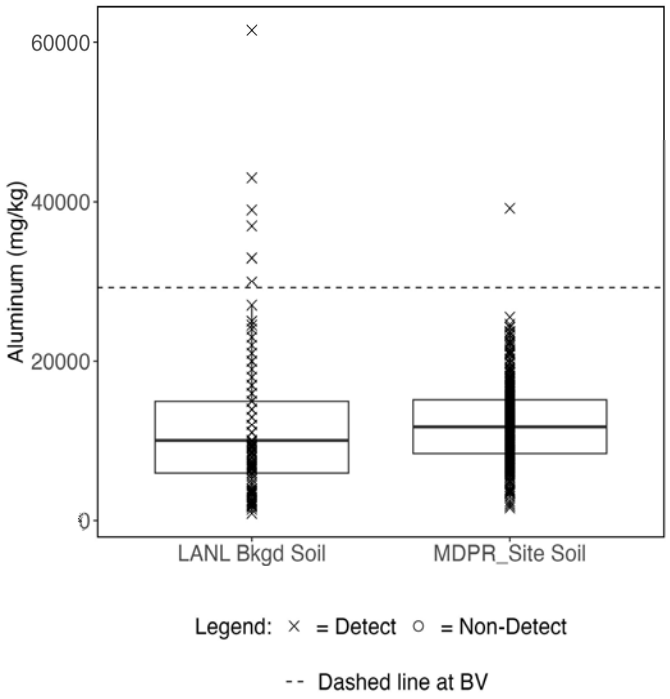


Figure D-57 Box plot for aluminum in soil at Middle DP Road (MDPR) site

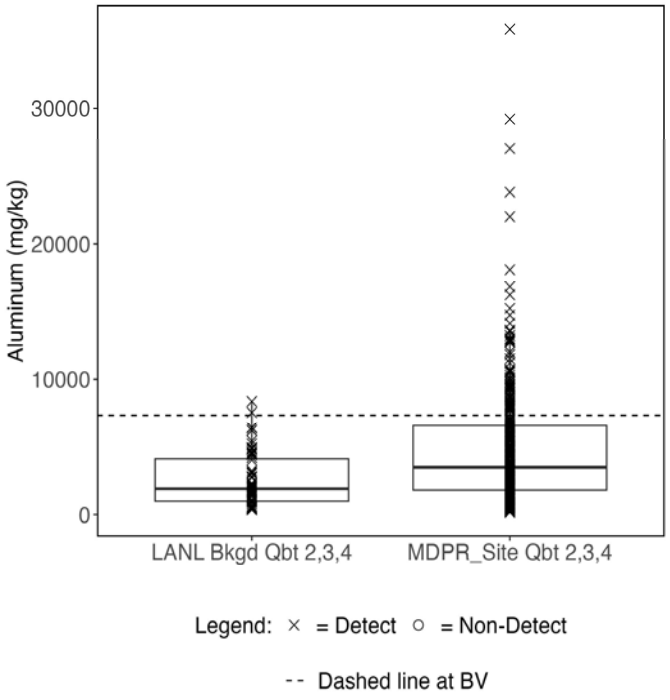


Figure D-58 Box plot for aluminum in Qbt 2,3,4 at MDPR site

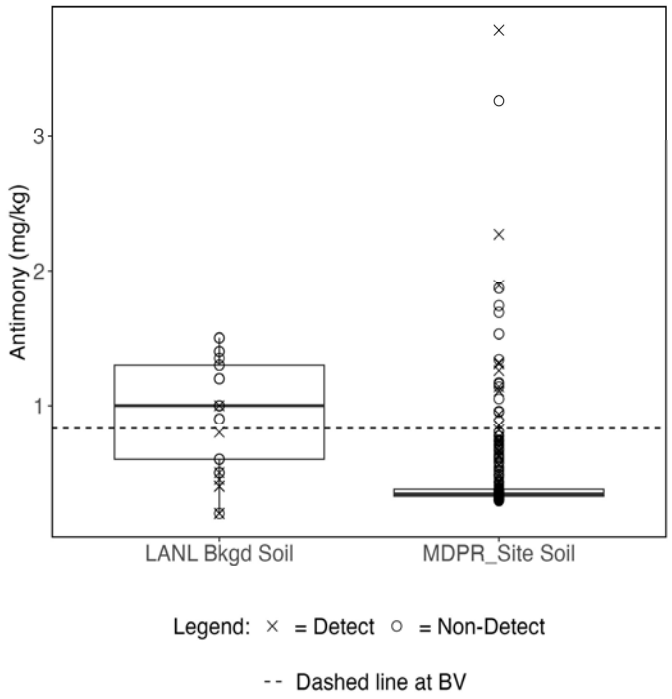


Figure D-59 Box plot for antimony in soil at MDPR site

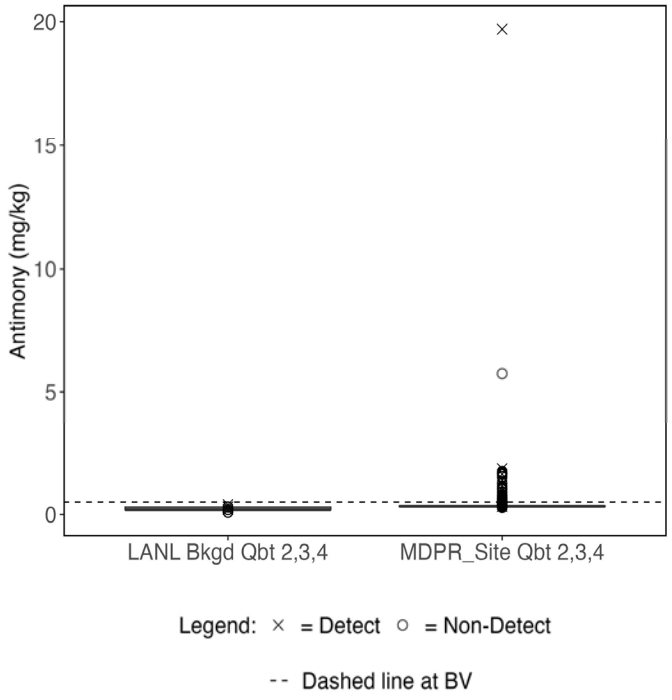


Figure D-60 Box plot for antimony in Qbt 2,3,4 at MDPR site

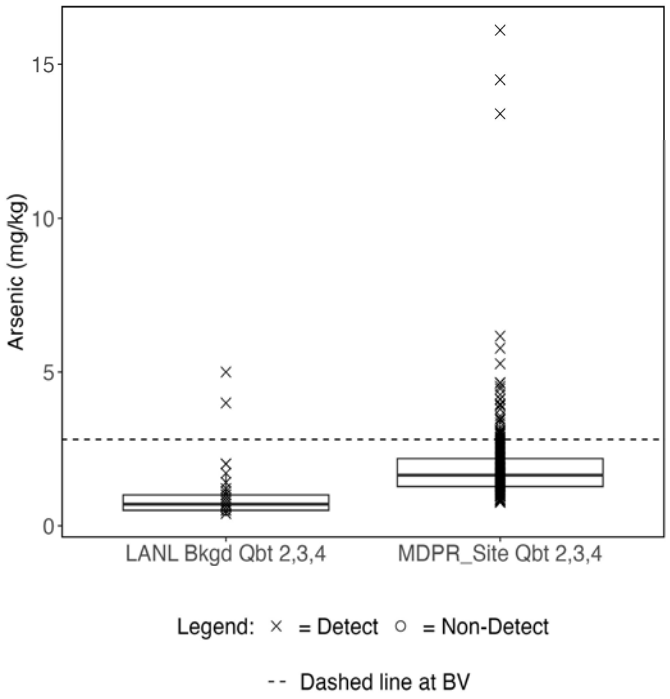


Figure D-61 Box plot for arsenic in Qbt 2,3,4 at MDPR site

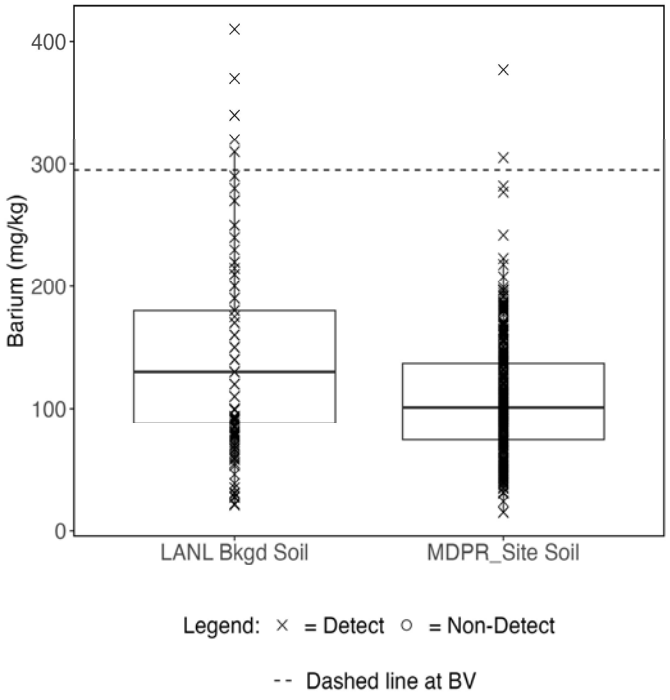


Figure D-62 Box plot for barium in soil at MDPR site

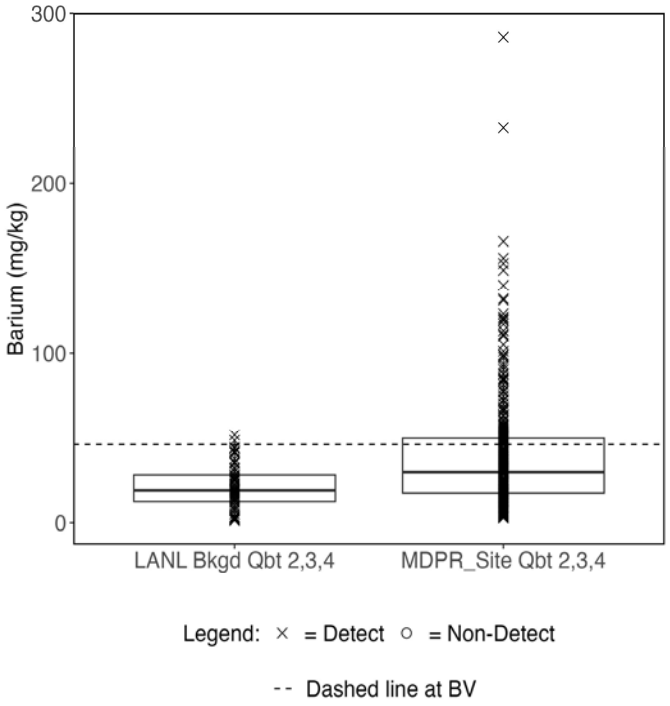


Figure D-63 Box plot for barium in Qbt 2,3,4 at MDPR site

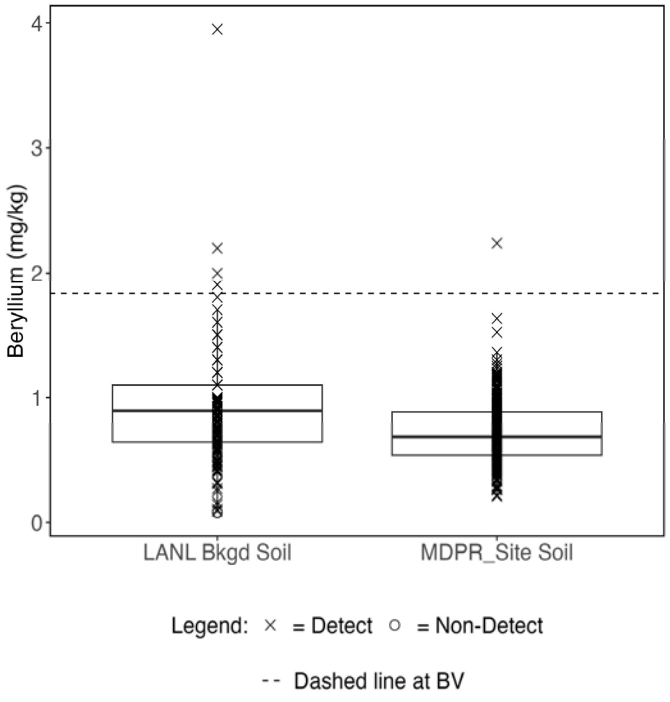


Figure D-64 Box plot for beryllium in soil at MDPR site

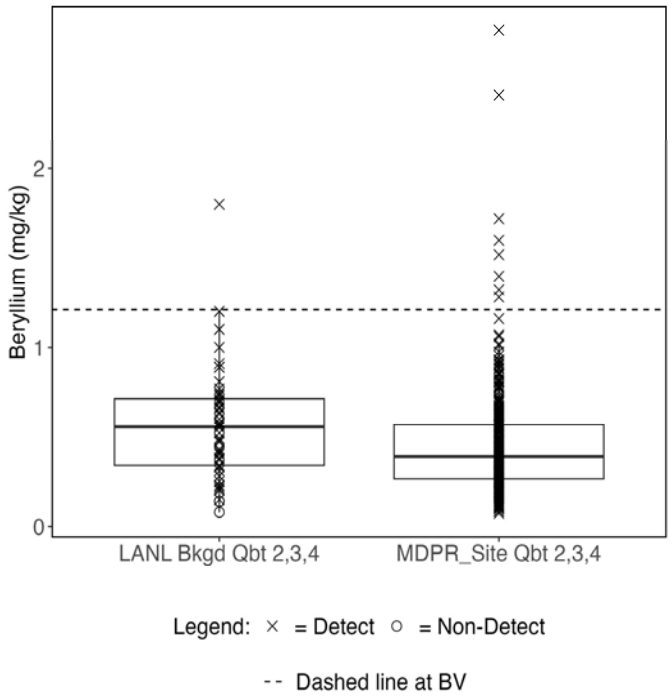


Figure D-65 Box plot for beryllium in Qbt 2,3,4 at MDPR site

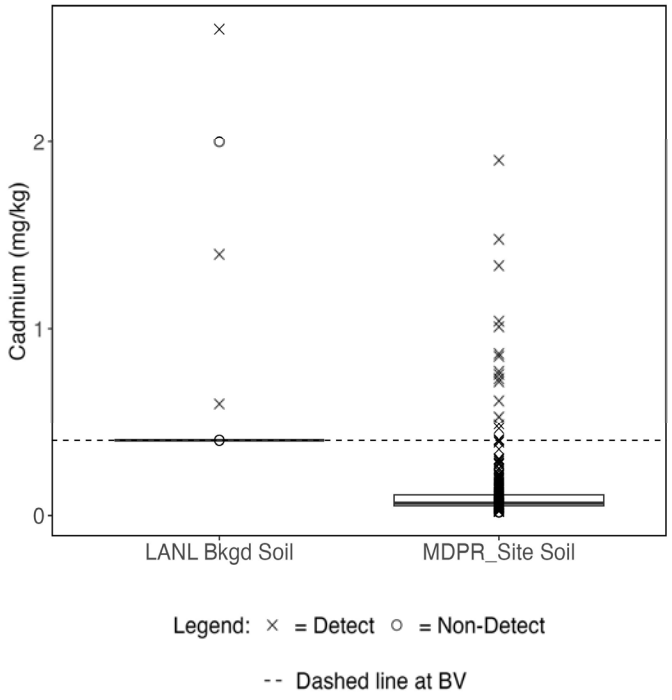


Figure D-66 Box plot for cadmium in soil at MDPR site

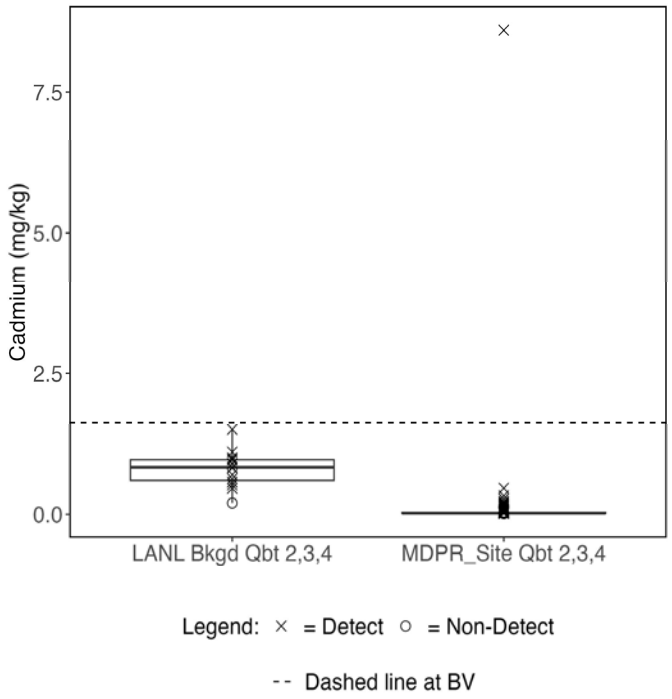


Figure D-67 Box plot for cadmium in Qbt 2,3,4 at MDPR site

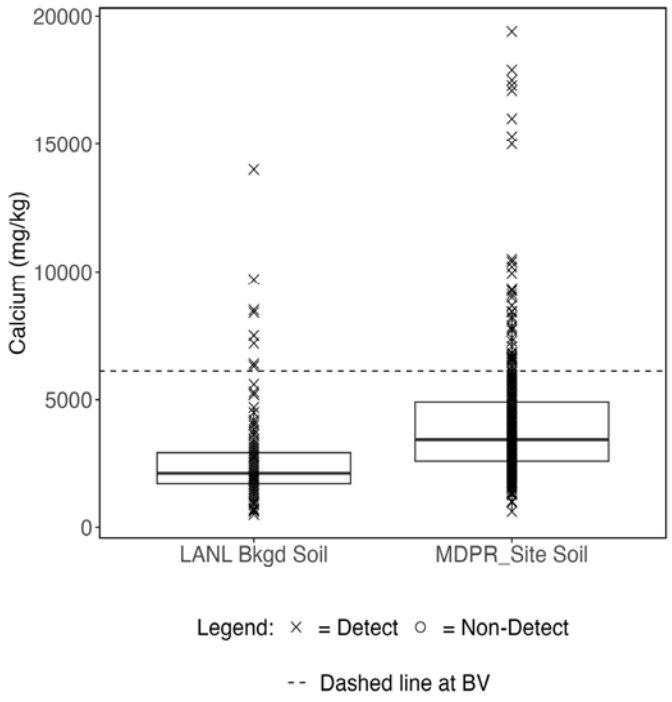


Figure D-68 Box plot for calcium in soil at MDPR site

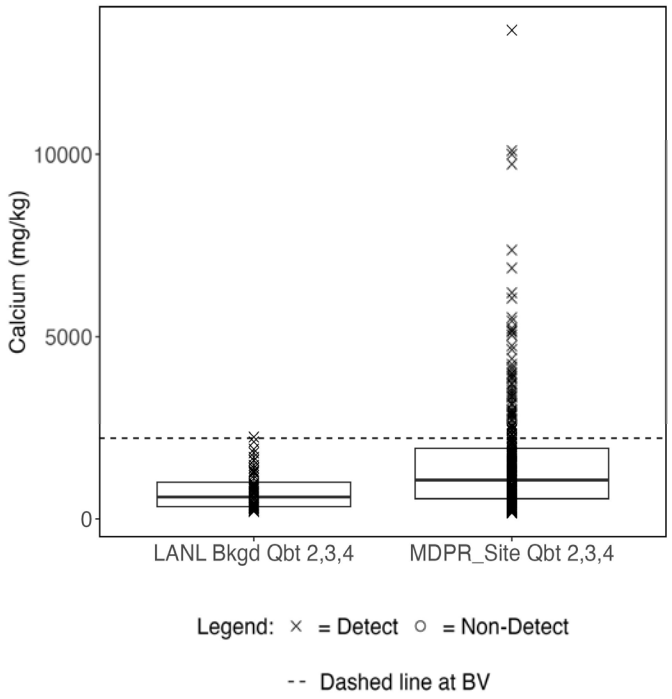


Figure D-69 Box plot for calcium in Qbt 2,3,4 at MDPR site

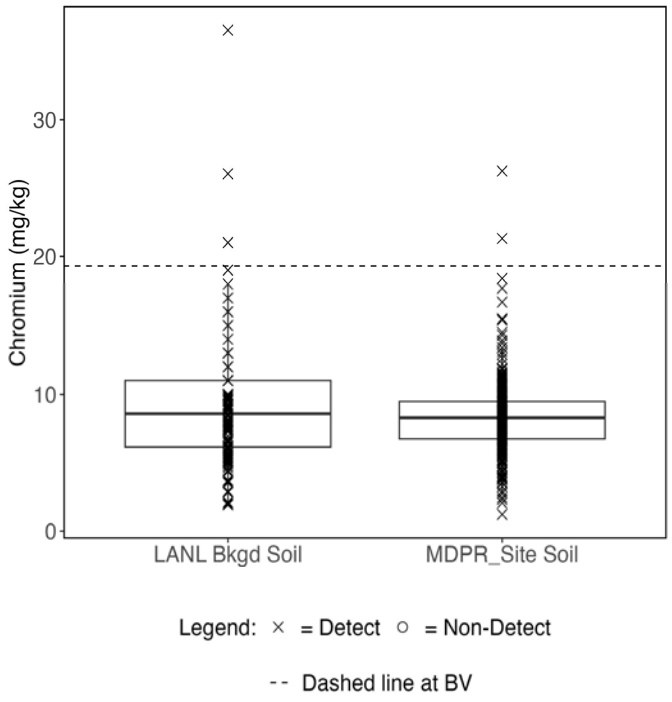


Figure D-70 Box plot for chromium in soil at MDPR site

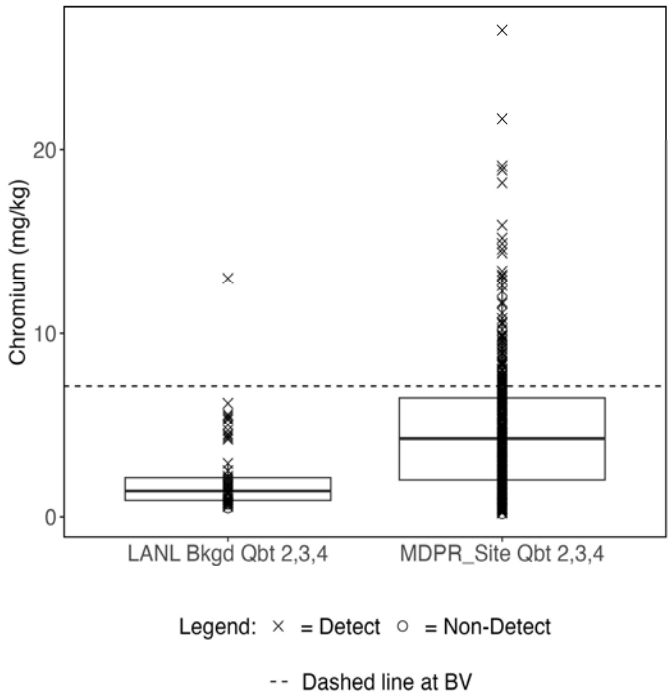


Figure D-71 Box plot for chromium in Qbt 2,3,4 at MDPR site

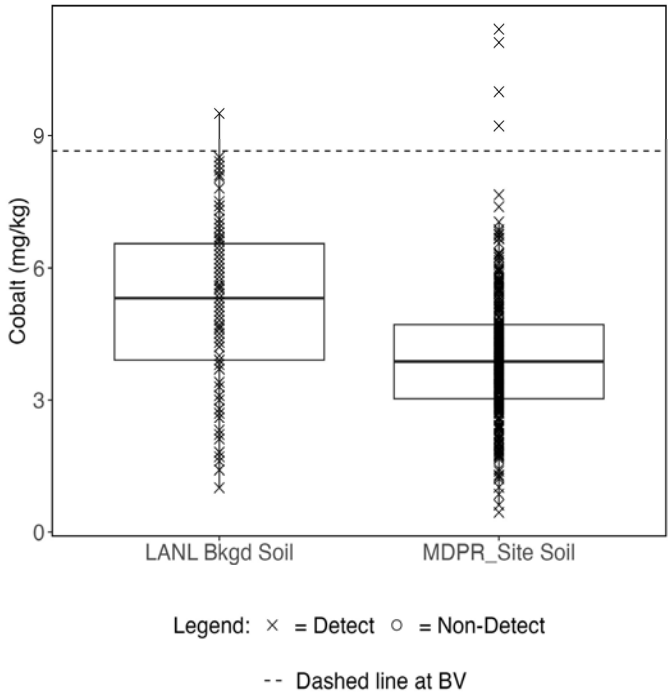


Figure D-72 Box plot for cobalt in soil at MDPR site

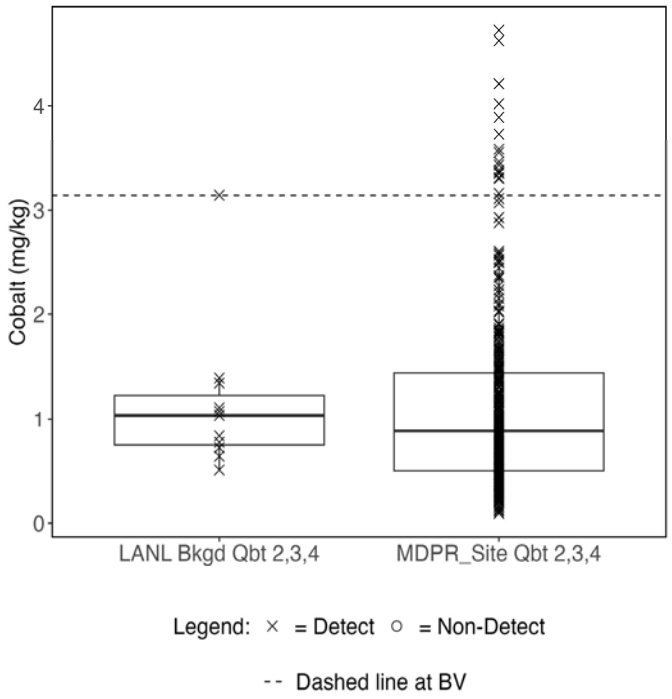


Figure D-73 Box plot for cobalt in Qbt 2,3,4 at MDPR site

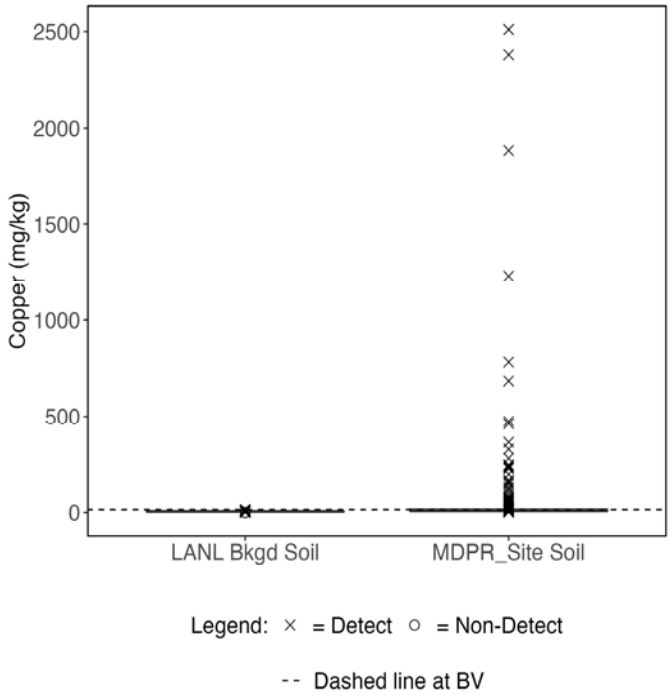


Figure D-74 Box plot for copper in soil at MDPR site

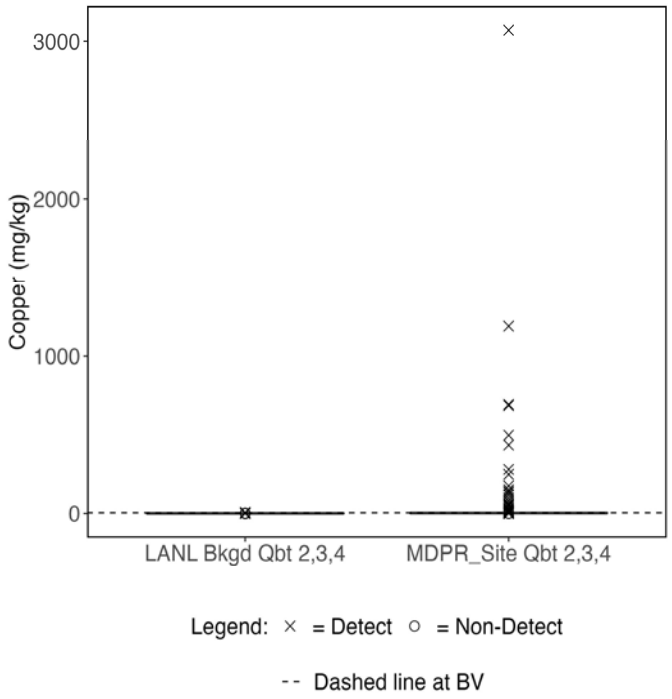


Figure D-75 Box plot for copper in Qbt 2,3,4 at MDPR site

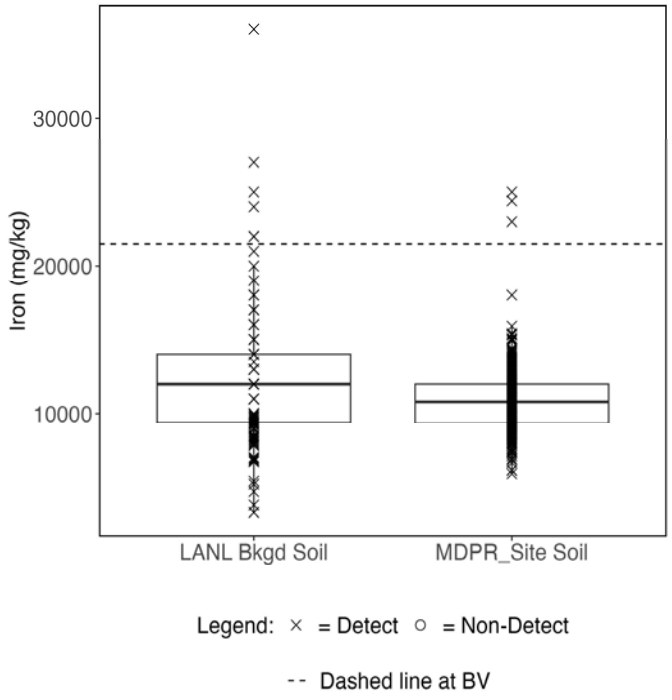


Figure D-76 Box plot for iron in soil at MDPR site

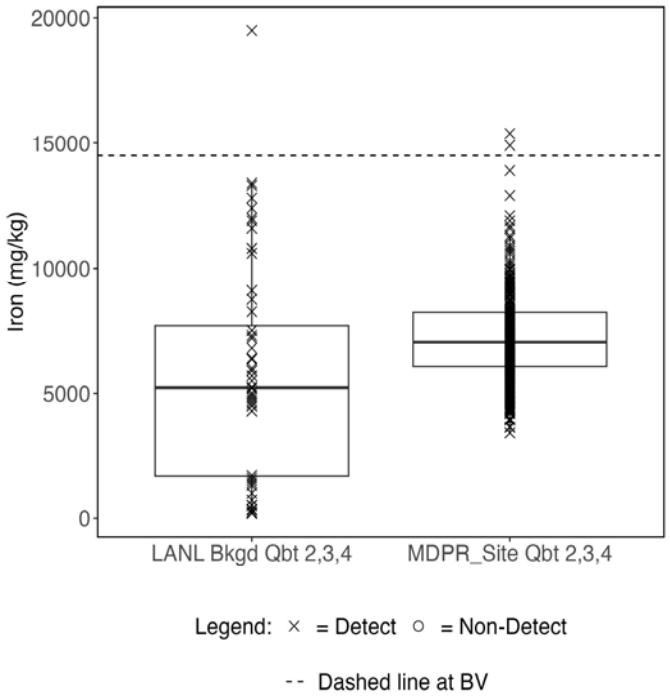


Figure D-77 Box plot for iron in Qbt 2,3,4 at MDPR site

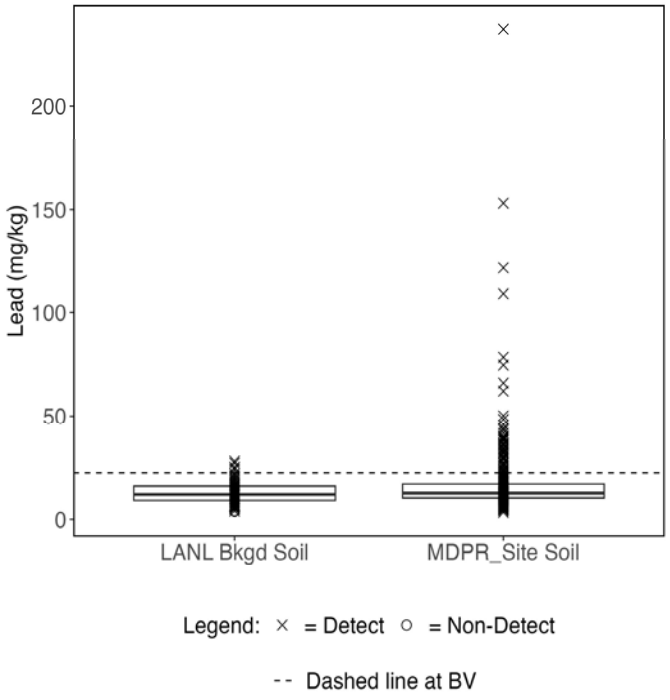


Figure D-78 Box plot for lead in soil at MDPR site

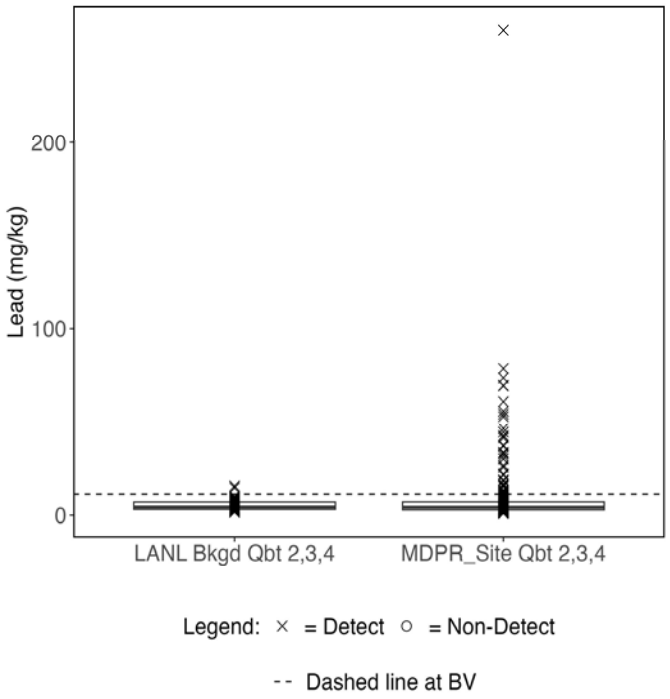


Figure D-79 Box plot for lead in Qbt 2,3,4 at MDPR site

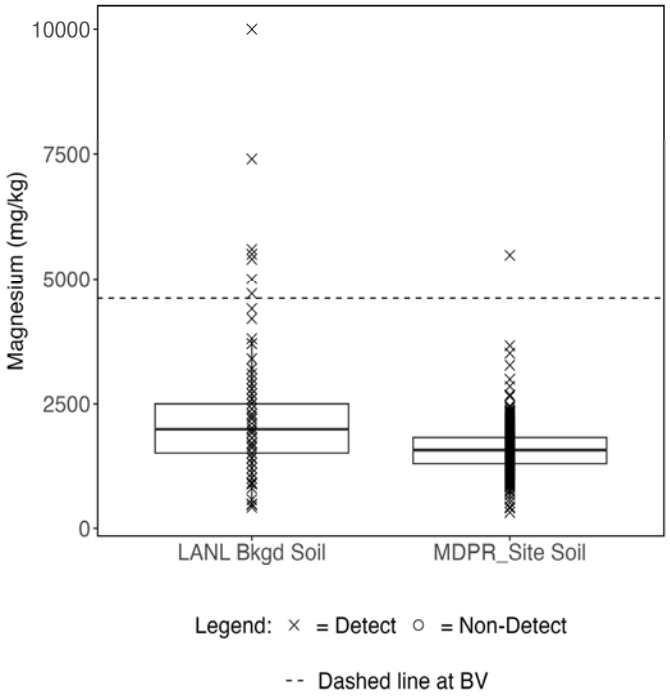


Figure D-80 Box plot for magnesium in soil at MDPR site

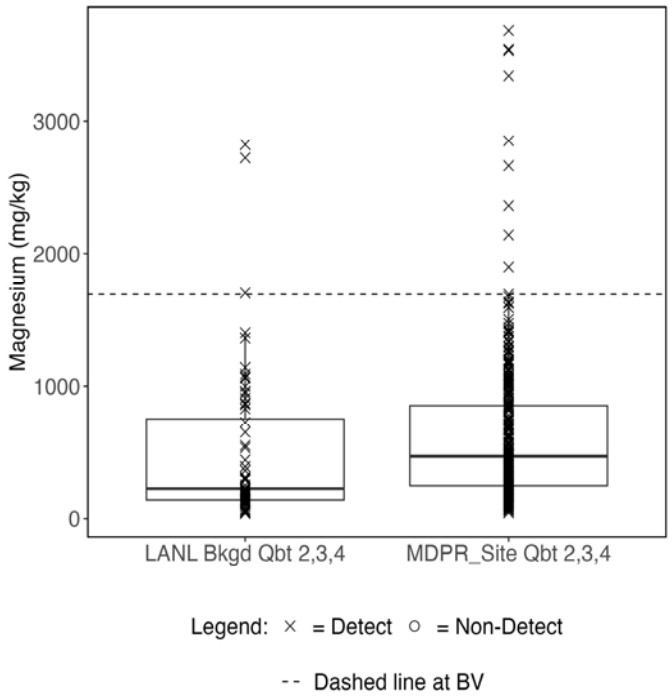


Figure D-81 Box plot for magnesium in Qbt 2,3,4 at MDPR site

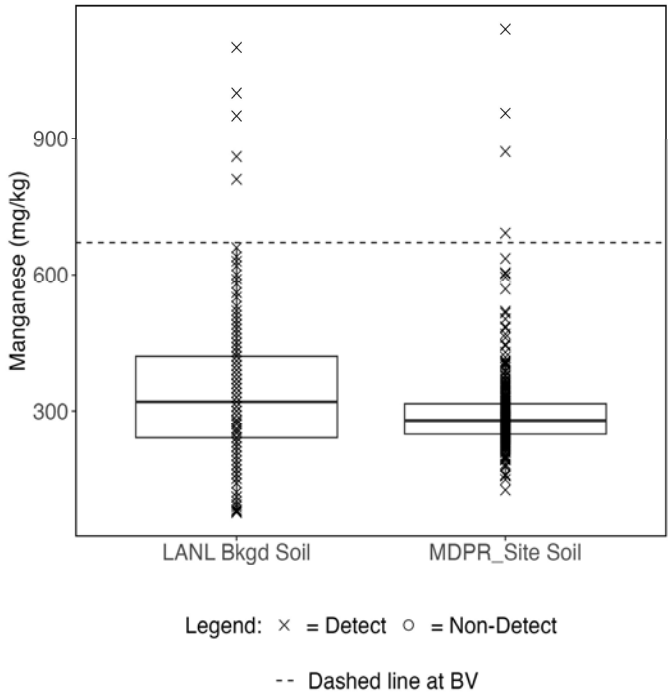


Figure D-82 Box plot for manganese in soil at MDPR site

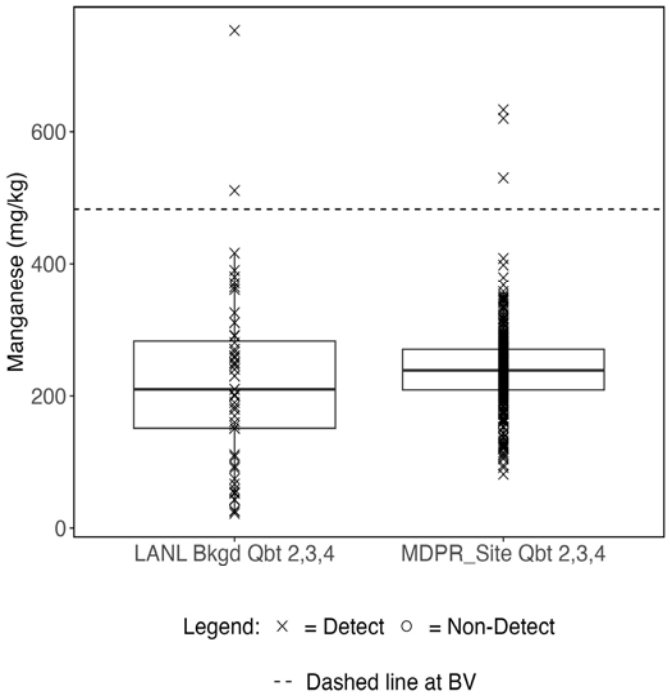


Figure D-83 Box plot for manganese in Qbt 2,3,4 at MDPR site

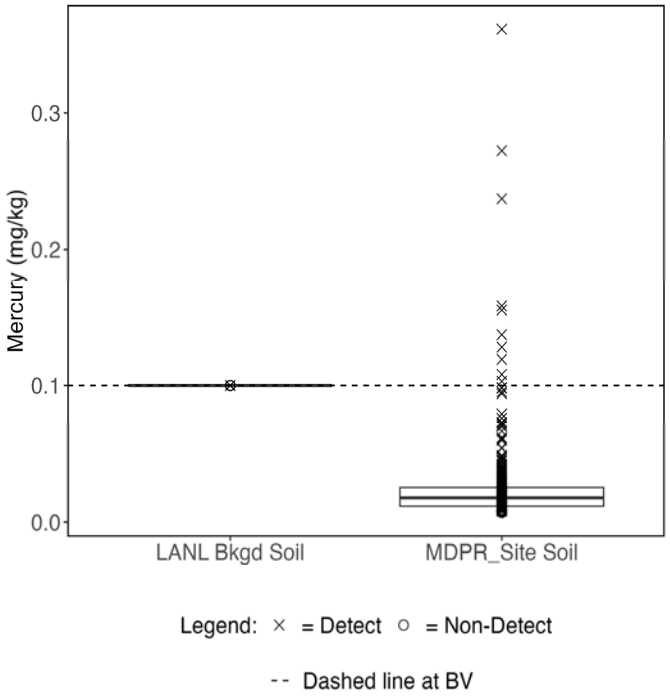


Figure D-84 Box plot for mercury in soil at MDPR site

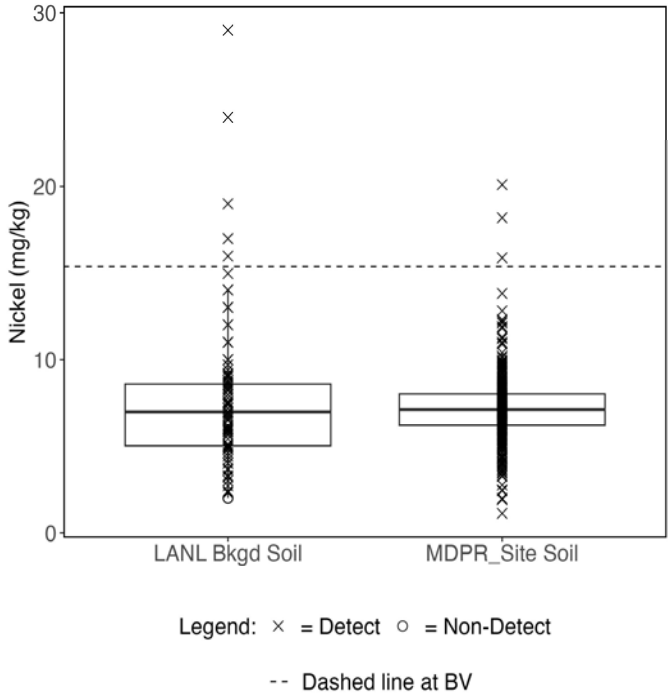


Figure D-85 Box plot for nickel in soil at MDPR site

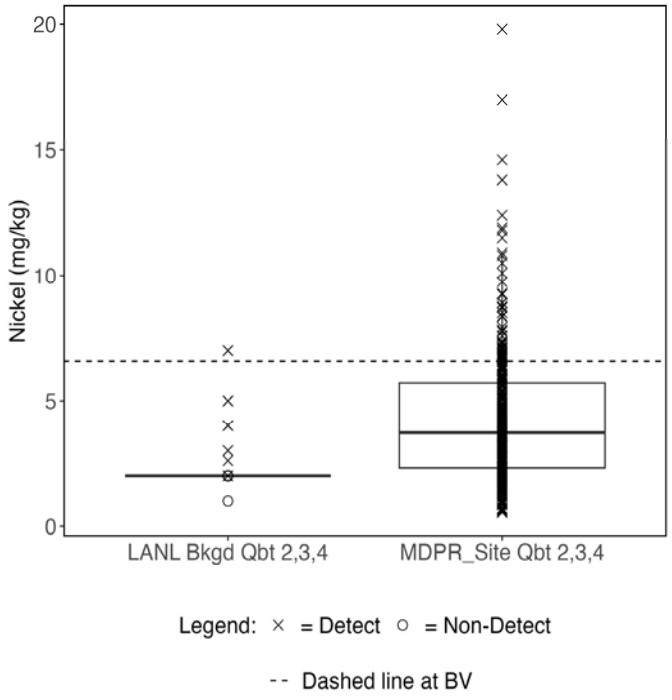


Figure D-86 Box plot for nickel in Qbt 2,3,4 at MDPR site

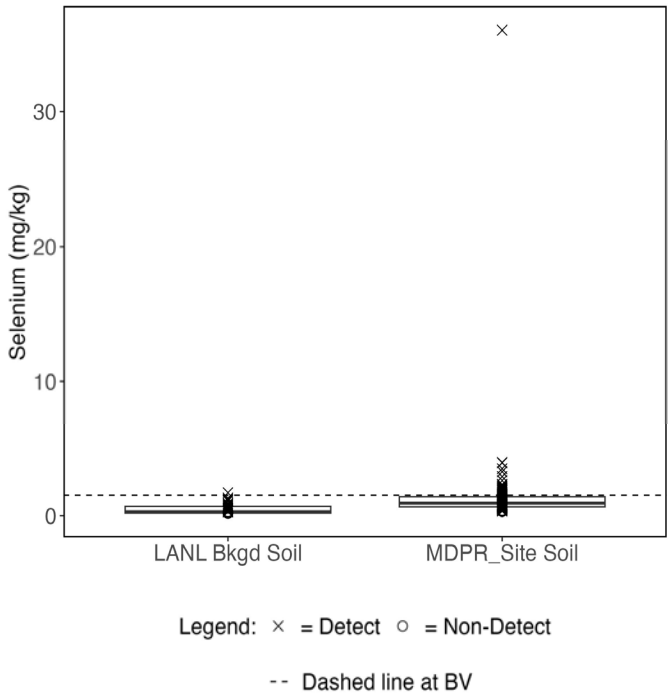


Figure D-87 Box plot for selenium in soil at MDPR site

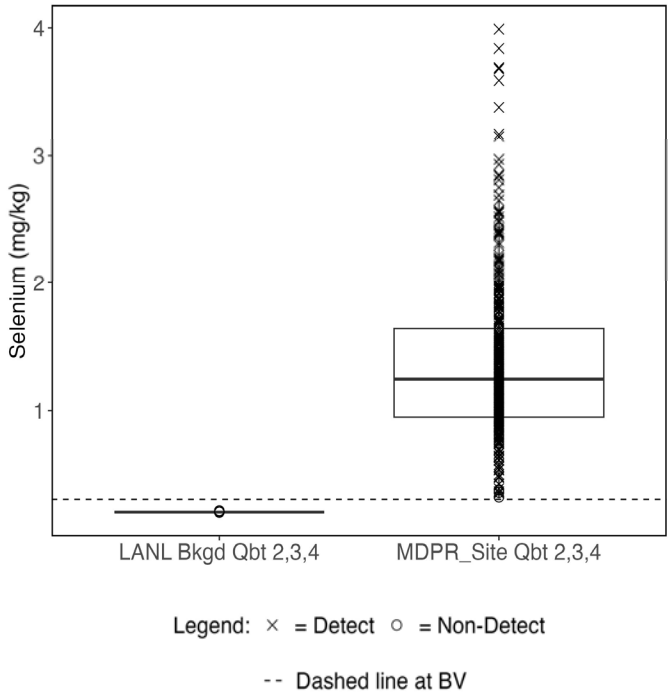


Figure D-88 Box plot for selenium in Qbt 2,3,4 at MDPR site

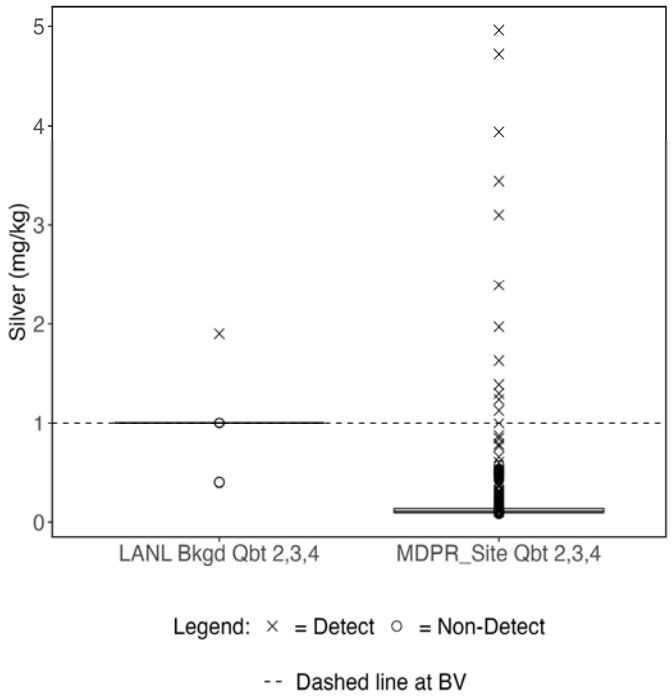


Figure D-89 Box plot for silver in Qbt 2,3,4 at MDPR site

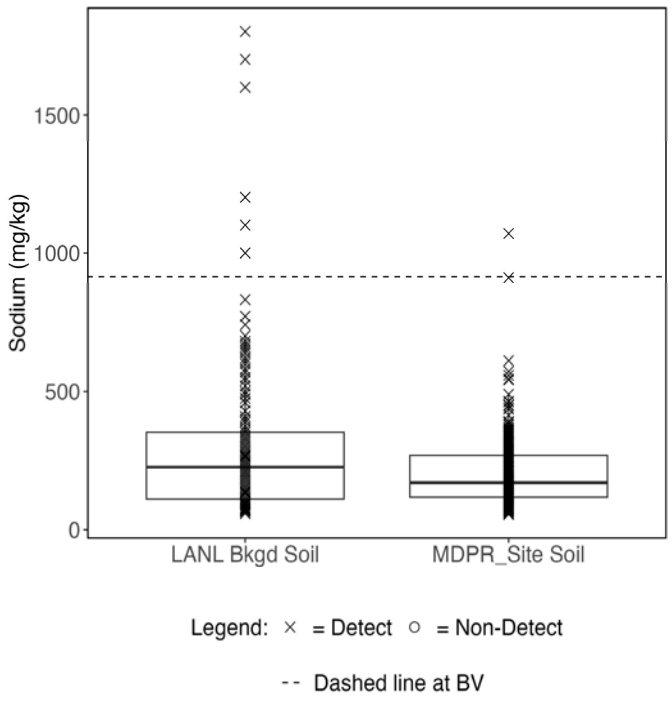


Figure D-90 Box plot for sodium in soil at MDPR site

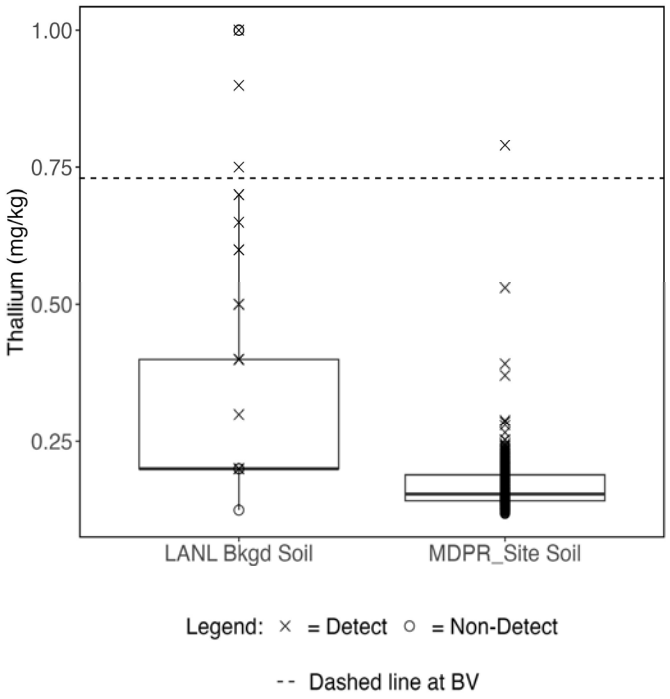


Figure D-91 Box plot for thallium in soil at MDPR site

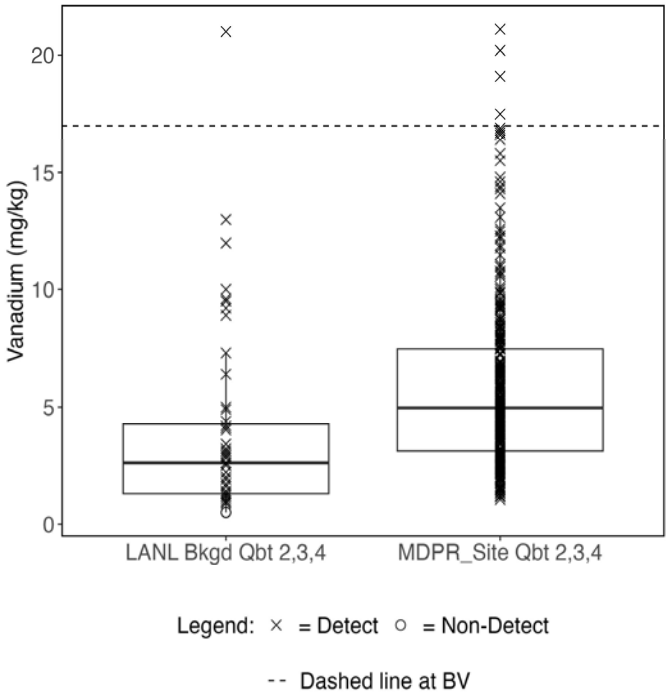


Figure D-92 Box plot for vanadium in Qbt 2,3,4 at MDPR site

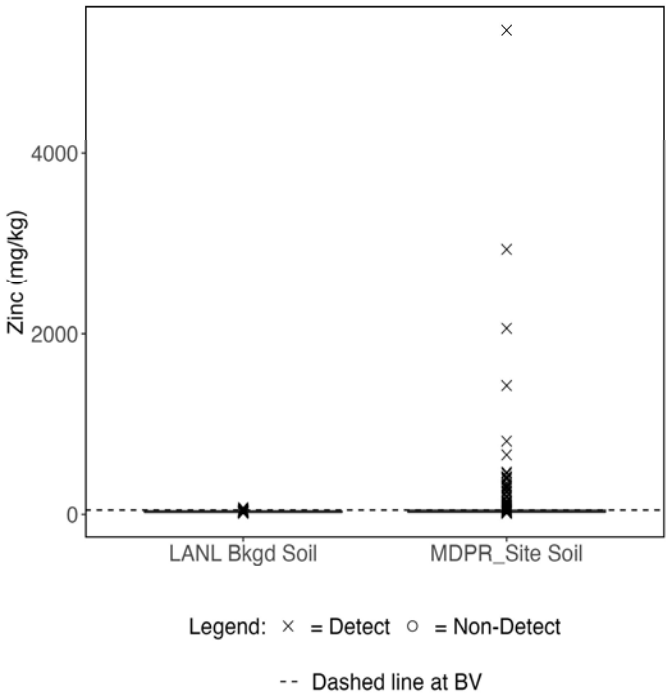


Figure D-9 Box plot for zinc in soil at MDPR site

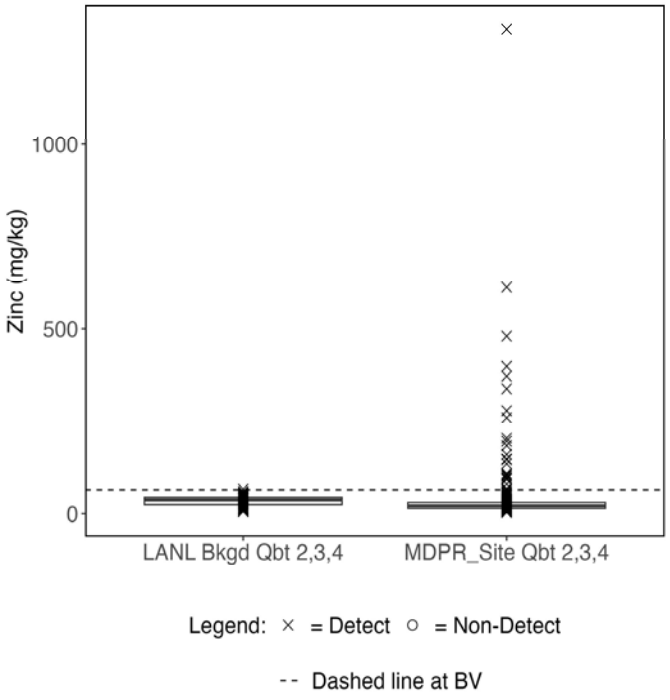


Figure D-94 Box plot for zinc in Qbt 2,3,4 at MDPR site

Table D-1
Results for Statistical Tests for Inorganic Chemicals in Soil at Tract A-8-a

Analyte	Gehan Test p-Value	Quantile Test p-Value	Slippage Test p-Value	COPC*?
Aluminum	<0.001	0.65	1	No
Barium	1	1	1	No
Beryllium	1	1	1	No
Calcium	<0.001	<0.001	0.044	Yes
Chromium	0.011	0.48	1	No
Cobalt	1	1	0.18	No
Copper	<0.001	0.016	0.35	Yes
Iron	0.58	1	1	No
Lead	0.58	1	1	No
Magnesium	1	1	1	No
Nickel	<0.001	0.4	1	No
Selenium	<0.001	<0.001	<0.001	Yes
Sodium	<0.001	0.91	1	No
Zinc	0.46	0.77	0.13	No

* COPC = Chemical of potential concern.

Table D-2
Results for Statistical Tests for Inorganic Chemicals in Qbt 2,3,4 at Tract A-8-a

Analyte	Gehan Test p-Value	Quantile Test p-Value	Slippage Test p-Value	COPC[a]?
Aluminum	<0.001	<0.001	<0.001	Yes
Arsenic	<0.001	<0.001	1	Yes
Barium	<0.001	<0.001	<0.001	Yes
Beryllium	0.81	0.93	0.34	No
Calcium	<0.001	<0.001	<0.001	Yes
Chromium	<0.001	<0.001	0.0012	Yes
Cobalt	0.62	0.32	0.39	No
Copper	<0.001	<0.001	0.0022	Yes
Iron	<0.001	0.61	1	No
Lead	0.98	0.96	1	No
Magnesium	<0.001	0.088	0.2	No
Nickel	n/a[b]	<0.001	<0.001	Yes
Vanadium	<0.001	0.3	0.59	No
Zinc	1	1	0.59	No

[a] COPC = Chemical of potential concern.

[b] n/a = Not applicable.

Table D-3
Results for Statistical Tests for Inorganic Chemicals in Soil at Tract A-16-a

Analyte	Gehan Test p-Value	Quantile Test p-Value	Slippage Test p-Value	COPC[a]?
Barium	1	1	1	No
Cadmium	n/a[b]	1	1	No
Calcium	<0.001	<0.001	0.069	Yes
Chromium	1	1	1	No
Cobalt	1	1	0.65	No
Copper	<0.001	<0.001	<0.001	Yes
Iron	1	1	1	No
Lead	0.0071	<0.001	<0.001	Yes
Manganese	1	1	0.59	No
Nickel	0.25	1	1	No
Selenium	<0.001	0.0012	0.089	Yes
Thallium	1	1	1	No
Zinc	<0.001	<0.001	<0.001	Yes

[a] COPC = Chemical of potential concern.

[b] n/a = Not applicable.

Table D-4
Results for Statistical Tests for Inorganic Chemicals in Qbt 2,3,4 at Tract A-16-a

Analyte	Gehan Test p-Value	Quantile Test p-Value	Slippage Test p-Value	COPC[a]?
Aluminum	<0.001	<0.001	<0.001	Yes
Arsenic	<0.001	<0.001	0.27	Yes
Barium	<0.001	<0.001	<0.001	Yes
Beryllium	1	1	1	No
Cadmium	1	1	0.95	No
Calcium	<0.001	<0.001	<0.001	Yes
Chromium	<0.001	<0.001	0.53	Yes
Cobalt	0.78	0.32	0.69	No
Copper	<0.001	<0.001	<0.001	Yes
Lead	0.39	0.075	<0.001	No
Magnesium	<0.001	0.48	0.65	No
Manganese	0.025	0.95	1	No
Nickel	n/a[b]	<0.001	0.0052	Yes
Vanadium	<0.001	0.35	1	No
Zinc	1	1	0.003	No

[a] COPC = Chemical of potential concern.

[b] n/a = Not applicable.

Table D-5
Results for Statistical Tests for Inorganic Chemicals in Soil at MDPR Site

Analyte	Gehan Test p-Value	Quantile Test p-Value	Slippage Test p-Value	COPC[a]?
Aluminum	0.0055	0.6	1	No
Antimony	n/a[b]	n/a	0.034	Yes
Barium	1	1	1	No
Beryllium	1	1	1	No
Cadmium	n/a	1	1	No
Calcium	<0.001	<0.001	0.036	Yes
Chromium	0.93	1	1	No
Cobalt	1	1	0.38	No
Copper	<0.001	<0.001	<0.001	Yes
Iron	1	1	1	No
Lead	0.035	0.21	<0.001	Yes
Magnesium	1	1	1	No
Manganese	1	1	0.66	No
Mercury	n/a	1	0.33	No
Nickel	0.041	1	1	No
Selenium	<0.001	0.0012	0.015	Yes
Sodium	1	1	1	No
Thallium	1	1	1	No
Zinc	<0.001	<0.001	<0.001	Yes

[a] COPC = Chemical of potential concern.

[b] n/a = Not applicable.

Table D-6
Results for Statistical Tests for Inorganic Chemicals in Qbt 2,3,4 at MDPR Site

Analyte	Gehan Test p-Value	Quantile Test p-Value	Slippage Test p-Value	COPC[a]?
Aluminum	<0.001	<0.001	<0.001	Yes
Antimony	n/a[b]	n/a	<0.001	Yes
Arsenic	<0.001	<0.001	0.37	Yes
Barium	<0.001	<0.001	<0.001	Yes
Beryllium	1	1	0.72	No
Cadmium	1	1	0.96	No
Calcium	<0.001	<0.001	<0.001	Yes
Chromium	<0.001	<0.001	0.082	Yes
Cobalt	0.75	0.33	0.59	No
Copper	<0.001	<0.001	<0.001	Yes
Iron	<0.001	0.82	1	No

Table D-6 (continued)

Analyte	Gehan Test p-Value	Quantile Test p-Value	Slippage Test p-Value	COPC[a]?
Lead	0.66	0.25	0.0039	Yes
Magnesium	<0.001	0.23	0.44	No
Manganese	0.036	0.95	1	No
Nickel	n/a	<0.001	<0.001	Yes
Silver	n/a	n/a	0.32	Yes
Vanadium	<0.001	0.35	0.85	No
Zinc	1	1	0.01	No

[a] COPC = Chemical of potential concern.

[b] n/a = Not applicable.

Appendix E

Management of Investigation-Derived Waste

E-1.0 INTRODUCTION

This appendix contains the waste management records for investigation-derived waste (IDW) generated during the implementation of the New Mexico Environment Department– (NMED-) approved "Solid Waste Management Unit Assessment Work Plan for Middle DP Road Site, Revision 1" (N3B 2021, 701344; NMED 2021, 701368); the Middle DP Road (MDPR) Site is adjacent to Technical Area 21 of Los Alamos National Laboratory (LANL or the Laboratory).

All IDW generated during the field investigation was managed in accordance with Newport News Nuclear BWXT-Los Alamos, LLC (N3B) procedure N3B-P409-0, "N3B Waste Management." This procedure incorporates the requirements of applicable U.S. Environmental Protection Agency and NMED regulations, U.S. Department of Energy orders, and N3B implementation requirements.

Consistent with N3B procedures, N3B prepared a waste characterization strategy form (WCSF) to address characterization approaches, on-site management, and final disposition options for wastes (N3B 2022, 702216). The WCSF is included in this appendix as Attachment E-1.

The selection of waste containers was based on appropriate U.S. Department of Transportation requirements, waste types, and estimated volumes of IDW to be generated. Immediately following containerization, each waste container was individually labeled with a unique identification number and with information regarding waste classification, contents, radioactivity, other potential constituents of concern (e.g., asbestos), waste generator, and date generated.

Wastes were staged in clearly marked and appropriately constructed registered staging areas. Container and storage requirements were detailed in the WCSF and approved before waste was generated. Investigation activities were conducted in a manner that minimized the generation of waste.

E-2.0 WASTE STREAMS

The IDW streams that were generated and managed during the investigation of the MDPR site are described below and summarized in Table E-2.0-1.

Waste Stream #1 – Contact Investigation-Derived Waste: This waste stream consists of solid waste generated during investigation and removal activities that was in contact with contaminated environmental media and equipment. This includes, but is not limited to, personal protective equipment (e.g., gloves), plastic sheeting (e.g., tarps and liners), plastic and glass sample bottles, disposable sampling supplies, (e.g., filters, tubing, and plastic bags), and dry decontamination wastes (e.g., paper items).

Regulatory Status: Debris was intermingled with soil and was determined to be mixed low-level radioactive (hazardous) waste. Tarps were determined to be industrial.

Waste Stream #2 – Debris: Debris specific to this project included glass shards, glassware, metal objects/piping, paper, wiring, plastics, concrete rubble, containers, containers with unknown liquids, etc. All debris that was determined by the subject matter expert (SME) to be historical Laboratory-related was containerized for disposal.

Regulatory Status: Debris was intermingled with soil and was determined to be either low-level radioactive or mixed low-level radioactive (hazardous) waste.

Waste Stream #3 – Environmental Media: Soil, tuff, and some vegetation, including organic debris, were excavated and determined to be either low-level radioactive or mixed low-level radioactive, hazardous waste per N3B-P121, "Radiation Protection."

Regulatory Status: The environmental media was determined to be low-level radioactive, mixed low-level radioactive, nonhazardous, or hazardous waste.

E-3.0 REFERENCES

The following reference list includes documents cited in this appendix. Parenthetical information following each reference provides the author(s), publication date, and ERID, ESHID, or EMID. ERIDs were assigned by the Laboratory's Associate Directorate for Environmental Management (IDs through 599999); ESHIDs were assigned by the Laboratory's Associate Directorate for Environment, Safety, and Health (IDs 600000 through 699999); and EMIDs are assigned by N3B (IDs 700000 and above).

BGI (Banda Group International), August 23, 2023. "Extent Sampling Work Plan for Middle DP Road Site, Revision 16," White Rock, New Mexico. (BGI 2023, 702948)

N3B (Newport News Nuclear BWXT-Los Alamos, LLC), March 2021. "Solid Waste Management Unit Assessment Work Plan for Middle DP Road Site, Revision 1," Newport News Nuclear BWXT-Los Alamos, LLC, document EM2021-0095, Los Alamos, New Mexico. (N3B 2021, 701344)

N3B (Newport News Nuclear BWXT-Los Alamos, LLC), July 25, 2022. "Waste Characterization Strategy Form (WCSF) for Middle DP Road, Revision 4," Newport News Nuclear BWXT-Los Alamos, LLC, document EM2022-0481, Los Alamos, New Mexico. (N3B 2022, 702216)

NMED (New Mexico Environment Department), April 5, 2021. "Approval, Solid Waste Manangement [sic] Unit Assessment Work Plan for Middle DP Road Site, Revision 1," New Mexico Environment Department letter to A. Duran (EM-LA) from K. Pierard (NMED-HWB), Santa Fe, New Mexico. (NMED 2021, 701368)

Table E-2.0-1
Summary of MDPR Waste Generation and Management

Waste Stream	Waste Type	Volume (yd^3)	Characterization Method	On-Site Management	Disposition
MDPR site waste	Low-level radioactive waste	5618	WCSF or N3B SME determination	20-yd^3 roll-off or 1.4-yd^3 B-12 box	Waste Control Specialists, Andrews County, TX
MDPR site waste	Mixed low-level radioactive waste	299	WCSF or N3B SME determination	20-yd^3 roll-off or 1.4-yd^3 B-12 box	Energy Solutions, Clive, UT
Debris	Industrial	18	N3B SME determination	20-yd^3 roll-off	Waste Management, Rio Rancho, NM

Attachment E-1

Waste Characterization Strategy Form

Waste Characterization Strategy Form

Project Title:	WCSF: Middle DP Road, Revision 4
Solid Waste Management Unit or Area of Concern #	Tract areas A-8-a and A-16-a near DP Road
Activity Type:	Field screening, characterization, and visual observations
Project Manager:	Duane Parsons
Waste Management Coordinator:	Estrella Lopez
Waste Generator:	Duane Parsons
Completed by:	Evangelos Gletsos
Date:	July 25, 2022

The SUBCONTRACTOR shall implement the requirements under this CONTRACTOR-prepared Waste Characterization Strategy Form (WCSF).

Description of Activity:

In coordination with the U.S Department of Energy (DOE) Environmental Management Los Alamos Field Office, Newport News Nuclear BWXT-Los Alamos, LLC (N3B) has developed a preliminary screening plan/solid waste management unit (SWMU) assessment work plan that describes the investigation, remediation, and waste disposition in support of (1) making a potential SWMU or area of concern (AOC) determination under the 2016 Compliance Order on Consent (Consent Order) for the Middle DP Road Site and (2) characterizing and dispositioning soil piles that were created from sewer line infrastructure installation support activities performed by the County of Los Alamos' utility contractor and by the DOE National Nuclear Security Administration Los Alamos Field Office's management and operations contractor, Triad National Security, LLC (Triad), and investigating and remediating land tracts A-8-a and A-16-a. An "Extent Sampling Work Plan (ESWP) for Middle DP Road Site," has also been developed by the subcontractor, Banda Group International (BGI 2022) to provide for additional confirmatory sampling, excavation of chemically or radiologically impacted environmental media, and backfilling of excavations and site restoration.

The following activities are planned:

- Potholing
- Radiological field screening
- Visual observations
- Routine inspections and monitoring
- Site preparation including vegetation control
- Spoils pile sampling and management
- Geophysical measurements
- Soil/media sampling
- Soil/media remediation
- Site cleanup and restoration

All wastes will be managed in accordance with N3B procedures N3B-P409-0, Revision 2, "N3B Waste Management" (N3B 2022a) and "Waste Characterization Strategy Form" (N3B 2021a) and approved work packages. Project execution will be in concurrence with the "Project Execution Plan for Middle DP Road" (N3B 2020a).

This waste characterization strategy form (WCSF) will be implemented before any waste-generating activity is undertaken. An amendment to this WCSF will be prepared and submitted for review and approval if any of the waste streams change in description or characterization approach or unanticipated waste streams are generated. The generation of no-path-forward waste must be approved by DOE before waste generation.

In order to remain in compliance with DOE Order 474.2, "Nuclear Material Control and Accountability," certain directions need to be followed. Safeguards and Security will work with the Triad Nuclear Material Control and Accountability Group to (1) take possession of the item(s), or (2) N3B will stand up an area in Technical Area 21 (TA-21) called the material balance area. Those items will be held until safeguards can be terminated. Once safeguards are terminated, the items can be moved into TA-54.

The activities described in this WCSF will be conducted in a manner that minimizes the generation of waste. Waste streams will be recycled/reused, as appropriate. All hazardous waste disposal and storage requirements must be met once field work begins (DOE Order 435.1 and Resource Conservation and Recovery Act [RCRA]). Any U.S. Environmental Protection Agency (EPA) hazardous waste that is generated will be shipped to TA-54 on a uniform hazardous waste manifest. All other wastes will be shipped on a bill of lading by a certified shipper.

Relevant Site History and Description:

Site Location

The Middle DP Road area is made of land tract areas A-16-a, A-8-a, and A-8-b and is part of the DP Road-1 South Tract lying entirely to the south of DP Road. The DP Road-1 South Tract is located along DP Road between the western boundary of TA-21 and the major commercial districts of the Los Alamos townsite. Access onto the site is from DP Road. Both commercial and Los Alamos National Laboratory (LANL or the Laboratory) properties lie immediately north of the Middle DP Road area. In the 1960s, following the end of LANL's use of the subparcel, the western part of the property was used for a residential trailer park and playground area. From 2010 through 2012, this area was also used as a staging area for radioactive waste containers from Material Disposal Area B remediation activities. Currently, a portion of this area is being used as a laydown area for a housing developer (Bluffs Housing, LLC). Both commercial and LANL properties lie immediately north of the Middle DP Road area. LANL properties include a storage facility and machine shop building located in Tract A-11 that was previously conveyed to Los Alamos County. Los Alamos Canyon abuts Middle DP Road on the south side and was previously conveyed to the Los Alamos School Board. Air monitoring stations, radiation monitoring stations, and wastewater discharge outfalls associated with LANL's federal, state, or local permits are located near (but not on) the DP Road-1 South Tract.

Historical Information

Before Laboratory occupancy (pre-1943), there was little development in the Los Alamos area. In 1918, Detroit businessman Ashley Pond purchased 800 acres from three homesteaders to begin the Los Alamos Ranch School for Boys. The Ranch School (south of Ashley Pond and west of the subject

property)—at the center of what is now the Los Alamos townsite—was the only development in the area before Laboratory occupancy.

The Laboratory operations that began on DP Mesa after World War II included warehousing, utility shop work, and a materials testing laboratory. The SWMUs and AOCs located on the Middle DP Road area are all associated with those historical Laboratory activities. In the past, Laboratory fueling facilities were located on subparcel A-9, the vacant land north of DP Road directly across from Tract A-8-a. In the 1960s, following the end of the Laboratory's use of the subparcel, the western part of the property was used for a residential trailer park and playground area.

The Middle DP Road Site originated as a localized area of what appears to be buried radiologically contaminated debris and soils from Laboratory operations dating back to the 1940s. Additional buried debris has been identified in other locations from the original discovery in February 2020 so the extent of contamination is not known, but appears larger than the original site referred to as the Middle DP Road Site.

Characterization Strategy

The characterization for waste generated for the identified activities in this WCSF will be based upon direct sampling of the waste containers or their aliquot drums per the Standing Order (N3B 2022b), sampling data collected during the prior contractor support campaigns, historical site sampling data, and associated radiological and chemical data. Because of the lack of acceptable knowledge (AK) for the material of interest, all hazardous material and waste type determinations must be made using appropriate analytical results. AK may be used to determine noninvestigative waste streams.

Sampling performed on the wastes generated during this campaign will coincide with The "Middle DP Road Project Execution Plan" (N3B 2020a) or general sampling activities. Sample size, volume, and weight may need to be changed based on radiological activity.

N3B will identify and determine the physical boundaries of the Middle DP Road site. If contamination is found at the physical boundary of the Middle DP Road site, the investigation will continue with expanded boundaries until there is no contamination above residential levels. If no contamination is found at the boundary, the investigation will stop at the boundary.

Required sampling and documentation will be performed in accordance with the EPA "Draft Technical Guidance about Waste Sampling under the Resource Conservation Recovery Act (RCRA)," which can be found online at: https://www.epa.gov/hw-sw846/draft-technical-guidance-about-waste-sampling-under-resource-conservation-and-recovery-act; and EPA publication "Test Methods for Evaluating Solid Waste: Physical Chemical Methods SW-846," which can be found at: https://www.epa.gov/hw-sw846.

Sampling personnel must record sampling information in accordance with EPA's "RCRA Waste Sampling Draft Technical Guidance," Section 7.2.3, Documentation of Field Activities (EPA 2002). Sampling personnel must also record field conditions, problems encountered, local sources of contamination (e.g., operating generators or vehicles), the personnel involved, equipment and supplies used, waste generated, and field observations.

The selection of waste containers is based on U.S. Department of Transportation (DOT) requirements, waste types, estimated volumes of waste to be generated, transportation, and the disposal facility waste acceptance criteria. N3B (the contractor) has determined that a variety of approved DOT waste

containers, provided by N3B, will be used based on the waste material being packaged for disposal. N3B will be responsible for providing pallets, a certified scale, and certified DOT containers. N3B will be responsible for establishing staging/storage areas, conducting required staging/storage area inspections, loading for transportation for disposal, and coordinating final disposal of all wastes.

The Subcontractor shall visually inspect and document waste packages before filling for any holes, tears, or other damage to the package that could affect the integrity of the package before filling them. If any waste package is determined to be unacceptable, promptly notify the immediate line manager. All N3B employees and subcontractors are expected to recognize nonconforming items controls (e.g., tags, segregation areas and legible markings) and understand that nonconforming items are not to be installed, used, or operated unless released for use in accordance with N3B-P330-6, "Nonconformance Reporting," (N3B 2021b). Immediately following containerization, the Subcontractor shall ensure each waste container is individually labeled with a unique container identification number for tracking and inventory purposes. N3B Waste Management personnel will be responsible for ensuring waste containers are labeled with the appropriate information regarding waste classification, contents, date generated, and responsible generator. The responsible waste generator is the individual responsible for the management of the waste container. The Subcontractor shall place waste containers in a Contractor-designated staging/storage area. Containerized waste (bags if utilized) will be stored on pallets (to be provided by the Contractor). The Subcontractor shall provide a daily waste inventory to the Contractor.

N3B shall furnish qualified personnel, equipment, materials, and facilities to remove, package, label, and transport to the staging area all waste generated under this activity. N3B will ensure that all N3B requirements, DOE orders, and state and federal regulations are met.

The Waste Disposition Group will ensure the following tasks are performed:

- The waste container information will be uploaded into the Waste Compliance and Tracking System (WCATS) in a timely manner.
- Waste containers shall be weighed and placed in an N3B-designated staging/storage area.
- Waste storage area postings, regulated storage duration, and inspection requirements will be based on the waste type and its regulatory classification.

Immediately following containerization, each waste container will be individually labeled with a unique container identification number and with information regarding waste classification, contents, date generated, and responsible generator.

N3B will work with a subcontractor and N3B craft services to perform potholing at the Middle DP Road site. Potholing and cleanup will take place in areas within the Middle DP Road site until tuff is encountered.

Expected Waste Streams

Waste Stream #1 – Contact Investigation-Derived Waste: This waste stream is composed of solid waste generated during investigation and removal activities and has come into contact with contaminated environmental media and equipment. This includes, but is not limited to, personal protective equipment (PPE) (e.g., gloves), plastic sheeting (e.g., tarps, liners), plastic and glass sample bottles, disposable sampling supplies, (e.g., filters, tubing, plastic bags), and dry decontamination wastes, (e.g., paper items). An estimated less than 40 yd^3 of contact investigation-derived waste (IDW) will be generated.

Anticipated Regulatory Status: Industrial, Radioactive Low-Level, Mixed Low-Level, Hazardous

Characterization Approach: Contact IDW will be managed based upon the regulatory classification of the waste with which it came into contact. For example, PPE will be characterized based on the soil analysis.

Storage and Disposal Method: Contact IDW may be containerized in N3B-provided drums, B-12s/B-25s, rolloff bins, supersacks, or placed into the same N3B-provided containers as the media with which it is contaminated. Or contact IDW may be stored separately from the environmental media until the waste determination is made. When the waste determination is made, the contact waste may be combined with the media for disposal if appropriate. The waste profile form will document the decision to combine the waste streams. These wastes will be stored in secure, designated waste staging areas. Wastes will be treated and/or disposed of in authorized facilities.

Waste #2 – Municipal Solid Waste: This waste stream primarily consists of noncontact trash including, but not limited to, paper, cardboard, wood, plastic, food and beverage containers, empty solution containers, and other noncontact trash. This waste stream may also include vegetation from sites with no radioactive contamination. An estimated less than 2 yd^3 of municipal solid waste (MSW) will be generated.

Anticipated Regulatory Status: MSW

Characterization Approach: MSW will be characterized based on AK of the waste materials and the methods of generation or safety data sheets.

Management and Disposal Method: MSW will be segregated from all other waste streams. The wastes are anticipated to be stored in plastic trash bags or other appropriate containers and disposed of at the Los Alamos County Eco Station or other authorized solid waste facility.

Waste #3 – Environmental Media: Soil and vegetation, including trees and bushes, are expected to remain on-site for reuse. Soil and vegetation that is less than background, per N3B-P121, "Radiation Protection" (N3B 2022c), will be left on-site at Tracts A-8-a and A-16-a. Any contaminated soil, sediment, and tuff will be excavated to remove media that exceeds project objectives. Man-made debris may be encountered during soil removal and if possible, will be segregated from the soil and managed appropriately based upon characterization of the soil. The small amounts of man-made debris that may be present in the excavated material waste stream must be reported in the off-site waste stream profile.

Borehole sample results used to characterize the excavation area may dictate soils going directly into waste containers versus spoil piles. If additional analysis is necessary, then containers would be sampled using a hand auger to pull a sample from the top, middle, and bottom of a container, and placed in a sample bowl. This soil mixture would then be put into the sample containers provided by the Sample Management Office.

Man-made soil piles will be sampled by collecting one sample for every 50 yd^3 of soil in the pile. A composite will consist of at least five grab samples into each composite sample. Technicians will randomly select depths and areas to collect composites. They will record the approximate locations of samples collected on a map depicting the pile (GPS [global positioning system] the pile). They will then note on the chain-of-custody form the number of grab samples taken that made up the composite sample. Technicians will then send the composite sample to an off-site laboratory for analysis where

soils will be compared with residential soil screening levels (SSLs)/screening action levels (SALs) for inorganic and organic constituents. This composite sample will also be compared with LANL dose-based SALs for radiological constituents and RCRA toxicity characteristic leaching procedure (TCLP) values to ensure the uncontainerized soils are not waste. Contaminated media above background will be sampled within 10 days or less of generation and a 21-day turnaround time will be requested for analysis so that a waste determination can be made within 45 days of generation.

For excavations, soil at above background will be containerized. A minimum of one composite sample will be collected from each 20-yd^3 container or their aliquot drums per the Standing Order (N3B 2022b), for each container of material excavated, and will be submitted for laboratory analyses per the WCSF. Containerized environmental media will be sampled within 10 days or less of generation and a 21-day turnaround time will be requested for analysis so that a waste determination can be made within 45 days of generation. The environmental media include the soils excavated, excess sampling material, overburden, and excavation spoils.

For borehole advancement environmental media (soils/tuff), the characterization approach requires the waste to be characterized using data acquired from the associated analyzed sample intervals associated with the borehole. The sample interval shall be characterized as stated in the Banda Group International Extent Sampling Work Plan (BGI 2022). If the metals analysis (usually reported in mg/kg totals) indicates that the waste could potentially be RCRA regulated, the project manager will make the decision to either characterize using totals data, or run TCLP for further verification.

Containerized environmental media will be sampled within 10 days or less of generation, and a 21-day turnaround time will be requested for analysis so that a waste determination can be made within 45 days of generation. The environmental media include the soils excavated, excess sampling material, overburden, and borehole advancement spoils.

Containerized waste will be stored in a secure, designated registered Radioactive Waste Storage area and/or satelite accumulation area or central accumulation area (CAA) pending analytical results. If AK from the approved ESWP indicates the environmental media could potentially be RCRA hazardous waste, the container will be placed in a CAA pending analysis.Any generated RCRA waste, hazardous waste, or mixed low-level waste (MLLW) will not remain in storage in excess of 90 days from the date placed in storage awaiting transportation, processing, or final disposal. If a container/drum contains waste generated on different days, use the earliest date waste was added as the accumulation start date. The analytical methods for each contaminant are provided in the waste characterization table. An estimated 3,700 yd^3 total of environmental media will be generated. This volume amount reflects approximately 200 yd^3 more waste to be generated from work executing the ESWP.

Anticipated Regulatory Status: Radioactive Low-Level, Mixed Low-Level, Nonhazardous, Hazardous

Characterization Approach: Soil samples will be analyzed for the following radionuclides: americium-241, isotopic plutonium, isotopic thorium, isotopic uranium, strontium-90, tritium, technicium-99, and target analyte list metals. If totals metal analysis results in a potentially RCRA Characteristic regulated waste, then TCLP may be requested to be run by the laboratory. Additional samples may also be specified based on elevated field-screening results, soil staining, and/or increasing result trends. Any vegetation associated with the contaminated soil will be characterized using the same analytical results. In addition to the radiological sampling, the environmental media will be sampled for inorganic and organic constituents, dioxins/furans, and RCRA constituents per the work plan.

Storage and Disposal Method: Excavated media will be containerized at the point of generation and stored in secure designated waste staging areas. The containers will be appropriate for the quantity of wastes generated. Media will be managed in a registered radioactive storage or staging area MLLW until the analytical results allow for a change in characterization and it can be shipped for disposal. Excavated environmental media will be reused, treated, and/or disposed of in authorized facilities appropriate for the waste regulatory classification.

Waste #4 – Debris: Debris specific to this project may be glassware, metal objects, plastics, concrete, etc. Debris less than background will be left on-site. Any contaminated debris will be containerized. This waste stream may also include soil. Waste profiles will be based on the amount of debris versus soil in a waste container. The analytical methods for each contaminant are provided in the waste characterization table. The containerized waste will be sampled within 10 days or less of generation and a 21-day turnaround time will be requested for analysis so that a waste determination can be made within 45 days of generation. An estimated 30 yd^3 by volume of debris will be generated.

During the excavation phase, the characterization approach specified in "Solid Waste Management Unit Assessment Work Plan for Middle DP Road Site" (N3B 2020b) will be followed. Table 14-2 of N3B-P121, "Radiation Protection" (N3B 2022c), applies to surface contamination of items and would be applicable to the debris. This includes using direct sampling, AK when possible, and supplemental sampling. The laboratory analyses stated in the WCSF will be followed, although the analysis turnaround time may be shortened.

Anticipated Regulatory Status: Radioactive Low-Level, Industrial, Mixed Low-Level, Hazardous, Toxic Substances Control Act (TSCA)

Characterization Approach: Characterization of the debris will be based on one or any combination of the following methods: direct sampling, generation, the extent of contamination, and analysis of the material contacted (e.g., excavated soil).

Storage and Disposal Method: Debris will be packaged and stored in secure, designated waste staging areas pending transport for disposal. Excavated debris will be treated and/or disposed of in authorized facilities appropriate for the waste regulatory classification. Industrial debris may be consolidated and left on-site.

Waste #5 – Petroleum-Contaminated Soils (potential): This waste stream is composed of soils contaminated because of the accidental release of commercial products such as hydraulic fluid, motor oil, unleaded gasoline, or diesel fuel (e.g., from the rupture of hydraulic or fuel hoses, or spills during maintenance, etc.). The waste stream may also include adsorbent padding, paper towels, spill pillows, or other adsorbent material used to contain the released material and added to the containerized petroleum-contaminated soil (PCS) waste for storage and disposal. The amount of potential PCS is expected to be less than 1 yd^3.

Anticipated Regulatory Status: New Mexico Special Waste (NMSW), Hazardous, Radioactive Low-Level, Mixed Radioactive Low-Level, TSCA

Characterization Approach: PCS will be characterized based upon either AK or direct waste sampling. If the material spilled is known and the spill occurs on known material (historical site sample data, clean base course), AK can be used to characterize the waste, which will be deemed and managed as hazardous. If the spill is of an unknown material/origin or occurs in an area with no historical sampling

data; characterization will be based upon the analytical results from direct sampling either performed in place (same day as spill/containerization) or from the containerized waste within 10 days of generation. If the generator chooses to deem and manage the waste as NMSW, then the PCS must be tested, at a minimum, for benzene, toluene, xylene, ethylbenzene, and total petroleum hydrocarbon concentration.

Storage and Disposal Method: PCS will be containerized at the point of generation on the same day that the spill occurred. The start date will be the date the container is completely full or the date on which no additional PCS will be added to the container. If AK for the site indicates that the soil could be contaminated with hazardous materials, the PCS will be stored in a clearly marked and constructed waste accumulation area appropriate to the anticipated waste type. If managing the container as NMSW, then the container must be sampled and labeled as "pending sample analysis" until analytical results are received. Waste accumulation area postings, regulated storage duration, and inspection requirements will be based upon the waste classification. PCS will be characterized and disposed of per the corresponding treatment, storage, and disposal facility waste acceptance criteria.

Waste #6 – Containerized Solids/Liquids: This waste stream consists of containerized solids and liquids, which may or may not have a legible and intact label. The containers will more than likely be clear or amber glass or metal jars. The amount of potential containerized solids/liquids is expected to be less than 1 yd^3.

Anticipated Regulatory Status: Radioactive Low-Level, Mixed Low-Level, Hazardous, Nonhazardous

Characterization Approach: Characterization of the containerized solids and liquids will be based on one or any combination of the following methods: direct sampling, AK, or analysis of the material contacted (e.g., excavated soil). There is a lot of historical knowledge/AK that may be relied on based on relevant data from surrounding sites (i.e., other entities of the Manhattan Project and related studies).

Storage and Disposal Method: Before handling containers with solids or liquids, a "higher hazard field analysis" will be performed. This analysis includes radiological readings, physical condition of the containers (e.g., pressurization and/or crystallization, especially around the lid area; and any items that look to be air/water reactive [solids stored in/under liquids like sodium]). If field hazard analyses indicate any of these described conditions, or other potential safety concerns arise during field hazard analyses; the container will be left in a safe condition, and the appropriate personnel will be contacted for further notifications. If field hazard analyses indicate it is safe to handle the container, the container will be transferred to the appropriate storage container at the point of generation, labeled, and initially managed in a secure, designated waste area. AK will be used to determine the appropriate waste area. If insufficient AK is available, the waste will be initially managed as hazardous and radiologically contaminated until historical or analytical data are available for characterization. If historical or analytical data change the waste classification, the waste will be stored in an area appropriate for the type of waste.

Waste Stream #7 – Stormwater: This waste stream is composed of liquid waste from dewatering excavations that have accumulated stormwater.

Anticipated Regulatory Status: Industrial, Radioactive Low-Level, Mixed Low-Level, Hazardous

Characterization Approach: Characterization by direct sampling of the water will be completed by collecting a minimum of one composite sample for each ≤2000 gal. of water generated. If multiple containers are used, then the sample shall consist of a composite from all containers utilized. Samples

will be collected by methods (e.g. peristaltic pump, coliwasa sampler, etc.) to ensure a representative sample is collected by sampling the entire containerized water column of the container. A composite may also be collected by taking grab samples during dewatering of the excavation to be consolidated into a separate container for sampling.

Samples will be analyzed for the following constituents: americium-241, isotopic plutonium, isotopic thorium, isotopic uranium, strontium-90, tritium, technicium-99, gamma spectroscopy, total metals, volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), cyanide, polychlorinated biphenyls (PCBs), Dioxins/Furans, and potential of hydrogen (pH).

Storage and Disposal Method: Containerized waste will be stored in a secure, designated registered Radioactive Waste Storage area and satellite accumulation area or CAA pending analytical results. Any generated hazardous waste, or MLLW will not remain in storage in excess of 90 days from the date generated. If a container/drum contains waste generated on different days, use the earliest date waste was added as the accumulation start date.

Containers will be appropriate for the quantity of wastes generated. Media will be treated and/or disposed of in authorized facilities appropriate for the waste regulatory classification.

Waste Characterization Table

Waste Description	Waste #1 Contact IDW	Waste #2 MSW	Waste #3 Environmental Media	Waste #4 Debris	Waste #5 PCS	Waste #6 Containerized Solids/Liquids	Waste #7 Stormwater
Estimated Volume	40 yd^3	2 yd^3	3,700 yd^3	30 yd^3	1 yd^3	1 yd^3	2000 gal.
Packaging	Approved Containers	Approved Containers	Approved Containers	Approved Containers	Approved Containers	Approved Containers	Approved Containers
Regulatory Classification							
Radioactive Waste	X		X	X	X	X	X
MSW		X					
Hazardous Waste	X		X	X	X	X	X
Mixed (hazardous and radioactive) Waste	X		X	X	X	X	X
TSCA/PCB-Contaminated Waste				X			
NMSW					X		
Industrial Waste	X		X	X		X	X
Characterization Method							
AK: Existing Data/Documentation					X	X	
AK: Site Characterization	X	X				X	
Direct Sampling of Waste			X	X	X (as needed)	X	X
Analytical Testing							
VOCs (SW-846:8260D)			X	X	X (as needed)	X (as needed)	X
SVOCs (SW-846:8270E)			X	X	X (as needed)	X (as needed)	X
Organic Pesticides (SW-846:8081B)							
Organic Herbicides (SW-846:8151A)							
PCBs (SW-846:8082A)			X	X	X (as needed)		X
Total Metals (SW-846:6010D/7471B or SW-846:6020B)			X			X (as needed)	X
Total Cyanide (SW-846:9012B)			X			X (as needed)	X
HE Constituents (SW-846:8330/8321A)			X				
Beryllium (SW-846:6020B)			X	X (as needed)			
TPH-GRO[a] (SW-846:8015-M)			X (as needed)	X (as needed)	X (as needed)	X (as needed)	

Waste Characterization Table

Waste Description	Waste #1 Contact IDW	Waste #2 MSW	Waste #3 Environmental Media	Waste #4 Debris	Waste #5 PCS	Waste #6 Containerized Solids/Liquids	Waste #7 Stormwater
TPH-DRO[b] (SW-846:8015-M)					X (as needed)	X (as needed)	
TCLP Metals (SW-846:1311/6020B)			X	X	X (as needed)	X (as needed)	
Moisture (ASTM:D2216)			X				
TCLP Pest. & Herb. (SW-846:1311/8081B/1311/8151A)							
Gross Alpha (alpha counting) (EPA 900.0)							
Gross Beta (beta counting) (EPA 900.0)							
Tritium (liquid scintillation) (EPA 906.0)			X	X			X
Gamma spectroscopy (EPA 901.1)			X			X (as needed)	X
Isotopic Plutonium (HASL-300)			X	X		X (as needed)	X
Americium-241 (HASL-300)			X	X		X (as needed)	X
Strontium-90 (EPA 905.0)			X			X (as needed)	X
Isotopic Thorium (HASL-300)			X			X (as needed)	X
Isotopic Uranium (HASL-300)			X	X		X (as needed)	X
Perchlorates (SW-846:6850)			X	X		X (as needed)	
Nitrates/Nitrites (SW-846:9056A-soil or EPA 353.2-water)			X	X		X (as needed)	
Technetium-99 (HASL-300)			X			X (as needed)	X
Fluoride, Chloride, Sulfate (EPA 300.0)						X (as needed)	
TTO[c] (SW-846:8260D and SW-846:8270E)	**Request VOCs and SVOCs above**						
TSS[d] and TDS[e] (EPA 160.1 and 160.2)							
COD[f] (EPA 410.4)							
pH (SW-846: 9040C)			X			X (as needed)	X
Microtox or BOD[g]							
Dioxins/Furans (SW-846:8290A soil or EPA 1613B for water).			X				
Asbestos (NIOSH 9002 bulk asbestos)			X (as needed)	X (as needed)			

Waste Characterization Table

Waste Description	Waste #1 Contact IDW	Waste #2 MSW	Waste #3 Environmental Media	Waste #4 Debris	Waste #5 PCS	Waste #6 Containerized Solids/Liquids	Waste #7 Stormwater
NMSW (benzene, toluene, xylene, ethylbenzene, and total petroleum hydrocarbon concentration)					X (as needed)		
Waste Stream Profile	TBD[h]	TBD	TBD	TBD	TBD	TBD	TBD

[a] TPH-GRO = Total petroleum hydrocarbons-gasoline range organics.

[b] TPH-DRO = Total petroleum hydrocarbons-diesel range organics.

[c] TTO is the total of VOC and SVOC contaminants. SW-846:8260D (VOCs) and SW-846:8270E (SVOCs).

[d] TSS = Total suspended solids.

[e] TDS = Total dissolved solids.

[f] COD = Chemical oxygen demand.

[g] If Microtox analysis is not available, request biological oxygen demand (BOD).

[h] TBD =To be determined.

References:

BGI (Banda Group International) March 2022. "Extent Sampling Work Plan (ESWP),"BGI document number BGI-ESWP-2022, Revision 0. (BGI 2022)

N3B (Newport News Nuclear BWXT-Los Alamos, LLC) October 2020. "Project Execution Plan for Middle DP Road." (N3B 2020a)

N3B (Newport News Nuclear BWXT-Los Alamos, LLC) December 2020. "Solid Waste Management Unit Assessment Work Plan for Middle DP Road Site," N3B document number EM2020-0498. (N3B 2020b)

N3B (Newport News Nuclear BWXT-Los Alamos, LLC) April 2021. "Waste Characterization Strategy Form," N3B document number N3B-AP-TRU-2150, R.0 (effective date April 16, 2021). (N3B 2021a)

N3B (Newport News Nuclear BWXT-Los Alamos, LLC), June 2021. "Nonconformance Reporting," Newport News Nuclear BWXT-Los Alamos, LLC, document N3B-P330-6, Los Alamos, New Mexico. (N3B 2021b)

N3B (Newport News Nuclear BWXT-Los Alamos, LLC) March 2022. "N3B Waste Management," N3B document number N3B-P409-0, Revision 2 (effective date March 10, 2022). (N3B 2022a)

N3B (Newport News Nuclear BWXT-Los Alamos, LLC) March 2022. "Environmental Remediation Soil/Media Aliquot Sampling" N3B document number N3B-SO-ER-0025, Revision 2 (effective date March 17, 2022). (N3B 2022b)

N3B (Newport News Nuclear BWXT-Los Alamos, LLC) March 2022. "Radiation Protection," N3B document number N3B-P121, Revision 2 (effective date March 18, 2022). (N3B 2022c)

Signatures	Date
Project Manager (Print name and then sign below.) Duane Parsons Duane A. Parsons Digitally signed by Duane A. Parsons Date: 2022.07.20 07:22:10 -06'00'	
Waste Generator (Print name and then sign below.) Duane Parsons Duane A. Parsons Digitally signed by Duane A. Parsons Date: 2022.07.20 07:24:49 -06'00'	
Waste Management Coordinator (Print name and then sign below.) Estrella Lopez Estrella D. Lopez Digitally signed by Estrella D. Lopez Date: 2022.07.20 16:23:31 -06'00'	
N3B RCRA Representative (Print name and then sign below.) Christian Maupin Christian Maupin Digitally signed by Christian Maupin Date: 2022.07.20 17:54:03 -06'00'	
Waste Acceptance Representative (Print name and then sign below.) Ovide Morin Ovide Morin Digitally signed by Ovide Morin Date: 2022.07.21 07:09:10 -06'00'	
Sample Management Office (Print name and then sign below.) John P. Garrett John P. Garrett Digitally signed by John P. Garrett Date: 2022.07.21 07:50:01 -06'00'	
Waste Certification Program Representative (Print name and then sign below.) Vivian Valencia Vivian Valencia Digitally signed by Vivian Valencia Date: 2022.07.25 11:58:47 -06'00'	

Appendix F

Risk Assessments

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Attachment F-1 Dioxin and Furan Toxicity Equivalency Factor Calculations
Attachment F-2 ProUCL Files
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F-1.0 INTRODUCTION

This appendix presents the results of the human health and ecological risk-screening evaluations conducted in support of the environmental characterization of the combined land conveyance and transfer tracts A-8-a and A-16-a, designated as the Middle DP Road (MDPR) site, located along DP Road between the western boundary of Technical Area 21 (TA-21) and the major commercial district of the Los Alamos townsite. The evaluation of potential risk at the MDPR site is based on decision-level data from a 2021–2023 investigation. The human health and ecological risk-screening evaluations were conducted on each tract (A-8-a and A-16-a) and on the MDPR site as a whole using a comprehensive data set.

F-2.0 BACKGROUND

Brief descriptions of tracts A-8-a and A-16-a and the MDPR site assessed for potential risk and dose are presented below.

F-2.1 Site Descriptions and Operational History

F-2.1.1 Middle DP Road Site

The assessment boundary for the MDPR site was determined based on historical document reviews and site investigations conducted previously in the area. The boundary follows the western edge of tract A-8-b, which is the former location of a residential trailer park and playground area in the 1960s. No 2016 Compliance Order on Consent investigation activities were proposed for tract A-8-b because the location of the trailer park is known, and there is no evidence to indicate the trailer park was built on top of a former disposal area. The boundaries to the north and east were determined by the areas remediated in the western portion of Material Disposal Area B in 2010 and 2011. The boundary to the south includes the area used as a construction laydown area in the 1940s and extends to the U.S. Department of Energy (DOE) property boundary. The MDPR site boundary encompasses the area referred to in the 1945 memo by Dow that described a pit located southeast of the coal storage yard (Dow 1945, 006713). The total area addressed in the MDPR solid waste management unit (SWMU) assessment consists of two tracts, tract A-8-a, consisting of 1.3 acres, and tract A-16-a, consisting of 1.8 acres, for a total of approximately 3 acres. Both commercial and Los Alamos National Laboratory (LANL or the Laboratory) properties lie immediately north of the MDPR site area.

F-2.2 Investigation Sampling

The final data set used to identify chemicals of potential concern (COPCs) for the MDPR site and used in this appendix to evaluate the potential risks to human health and the environment are the qualified analytical results from the 2021–2023 investigation. Only data determined to be of decision-level quality following the data quality assessment (Appendix D) and samples from locations not excavated from the site are included in the final data set evaluated in this appendix.

F-2.3 Determination of COPCs

Section 5.0 of the SWMU assessment report (SAR) summarizes the COPC selection process. Only COPCs detected above background (inorganic chemicals and naturally occurring radionuclides) with detection limits (DLs) greater than background values (BVs) (inorganic chemicals) and detected (organic chemicals, inorganic chemicals with no BVs, and fallout radionuclides) were retained. The industrial and

recreational scenario used data for samples collected at 0–1 ft below ground surface (bgs). The ecological screening used data for samples collected at 0–6 ft bgs. The residential and construction worker scenarios used data for samples collected at 0–10 ft bgs. However, sampling depths often overlapped because of multiple investigations. Therefore, samples with a starting depth of less than the lower bound of the interval were included in the risk-screening assessments for a given scenario, as appropriate.

Tables F-2.3-1 to F-2.3-9 summarize the COPCs evaluated for potential risk for the MDPR site. COPCs were identified for tract A-8-a and tract A-16-a as well as for the MDPR site as a whole using the entire post-excavation data set. Some of the COPCs identified in this report may not be evaluated for potential risk under one or more scenarios because samples were not collected within the specified depth intervals associated with a given scenario.

F-3.0 CONCEPTUAL SITE MODEL

The primary mechanisms of release related to historical contaminant sources are summarized in of the approved “Solid Waste Management Unit Assessment Work Plan for Middle DP Road Site, Revision 1” (N3B 2021, 701344; NMED 2021, 701368). Releases from sites within the MDPR site may have occurred as a result of air emissions, surface releases, subsurface leaks, or effluent discharges.

F-3.1 Receptors and Exposure Pathways

The primary exposure pathway for human receptors is surface soil and subsurface soil/tuff that may be brought to the surface through intrusive activities. Migration of contamination to groundwater through the vadose zone is unlikely, given the depth to groundwater (approximately 1000 ft). Human receptors may be exposed through direct contact with soil or suspended particulates by ingestion, inhalation, dermal contact, and external irradiation pathways. Direct contact exposure pathways from subsurface contamination to human receptors are complete for the resident and the construction worker, where appropriate. The exposure pathways are the same as those for surface soil. Sources, exposure pathways, and receptors are shown in the conceptual site model (Figure F-3.1-1).

New Mexico Environment Department (NMED) guidance (NMED 2022, 702484) requires that sites larger than 2 acres be evaluated to determine if beef ingestion is a plausible and complete exposure pathway. Tract A-8-a of the MDPR site is 1.3 acres and tract A-16-a is 1.8 acres. While each tract is less than 2 acres, the total acreage is approximately 3 acres. However, the anticipated future use does not include grazing. The site is located in town, surrounded by residential and commercial properties with insufficient forage and water available to support grazing. Current county zoning maps depict the MDPR site as federal land use. However, tracts A-8-a and A-16-a have been conveyed to Los Alamos County. Adjacent undeveloped and recently developed land is zoned as multi-use, which does not include grazing. Land use across DP Road is zoned as public land use and heavy commercial, neither of which includes grazing. Therefore, further evaluation of the beef ingestion pathway is not necessary.

Multi-use zoning of undeveloped and recently developed property includes residential, recreational, and commercial/industrial use. Construction activities were being conducted at the MDPR site when debris was discovered, and assessment activities were initiated; it is anticipated that additional construction activities will be conducted at the MDPR site. Land use across DP Road consists of public land used for local government and the school district, designed to support community needs and the public health, safety, and welfare, and heavy commercial, which is intended to accommodate all commercial uses, including high-traffic uses.

The nearby developed sites provide minimal or no potential habitat for ecological receptors. Weathering of tuff is the only viable natural process that may result in the exposure of receptors to COPCs in tuff. However, because of the slow rate of weathering expected for tuff, exposure to COPCs in tuff is negligible, although it is included in the assessments. Exposure pathways to subsurface contamination below 6 ft bgs (ecological) or 10 ft bgs (human health) are not complete unless contaminated soil or tuff has been excavated and brought to the surface.

Potential habitat is currently present at the MDPR site; therefore, exposure pathways are complete to surface soil and tuff for ecological receptors. The potential pathways are root uptake by plants, inhalation of vapors (burrowing animals only), inhalation of dust, dermal contact, incidental ingestion of soil, external irradiation, and food web transport. Pathways from subsurface releases may be complete for plants. Surface water exposure was not evaluated because of the lack of surface water features. Sources, exposure pathways, and receptors are presented in the conceptual site model (Figure F-3.1-1).

F-3.2 Environmental Fate and Transport

The evaluation of environmental fate addresses the chemical processes affecting the persistence of chemicals in the environment, and the evaluation of transport addresses the physical processes affecting mobility along a migration pathway. Migration into soil and tuff depends on precipitation or snowmelt, soil moisture content, depth of soil, soil hydraulic properties, and properties of the COPCs. Migration into and through tuff also depends on the unsaturated flow properties of the tuff and the presence of joints and fractures.

The most important factor with respect to the potential for COPCs to migrate to groundwater is the presence of saturated conditions. Downward migration in the vadose zone is also limited by a lack of hydrostatic pressure as well as the lack of a source for the continued release of contamination. Without sufficient moisture and a source, little or no potential migration of materials through the vadose zone to groundwater occurs.

Contamination at depth is addressed in the discussion of nature and extent in the SAR. Results from the deepest samples collected at most sites showed either no detected concentrations of COPCs or low- to trace-level concentrations of only a few inorganic, organic, and/or radionuclide COPCs in tuff. The limited extent of contamination is related to the absence of the key factors that facilitate migration, as discussed previously. Given how long the contamination has been present in the subsurface, the physical and chemical properties of the COPCs, and the lack of saturated conditions, the potential for contaminant migration to groundwater is very low.

NMED guidance (NMED 2022, 702484) contains screening levels that consider the potential for contaminants in soil to result in groundwater contamination. These screening levels consider equilibrium partitioning of contaminants among solid, aqueous, and vapor phases and account for dilution and attenuation in groundwater through the use of dilution attenuation factors (DAFs). These DAF soil screening levels (SSLs) may be used to identify chemical concentrations in soil that have the potential to contaminate groundwater (EPA 1996, 059902). Screening contaminant concentrations in soil against these DAF SSLs does not, however, provide an indication of the potential for contaminants to migrate to groundwater. The assumptions used in the development of these DAF SSLs include an assumption of uniform contaminant concentrations from the contaminant source to the water table (i.e., it is assumed that migration to groundwater has already occurred). Furthermore, this assumption is unfounded for cases such as these MDPR tracts, where sampling has shown that contamination is vertically bounded near the surface, and the distance from the surface to the water table is considerable. For these reasons, screening of contaminant concentrations in soil against the DAF SSLs was not performed.

The relevant release and transport processes of the COPCs are a function of chemical-specific properties that include the relationship between the physical form of the constituents and the nature of the constituent transport processes in the environment. Specific properties include the degree of saturation and the potential for ion exchange (barium and other inorganic chemicals) or sorption and the potential for natural bioremediation. The transport of volatile organic compounds (VOCs) occurs primarily in the vapor phase by diffusion or advection in subsurface air.

Current potential transport mechanisms that may lead to exposure include the following:

- dissolution and/or particulate transport of surface contaminants during precipitation and runoff events,
- airborne transport of contaminated surface soil,
- continued dissolution and advective/dispersive transport of chemical contaminants contained in subsurface soil and tuff as a result of past operations,
- disturbance of contaminants in shallow soil and subsurface tuff by Laboratory operations, and
- disturbance and uptake of contaminants in shallow soil by plants and animals.

Contaminant distributions at the sites indicate that after the initial deposition of contaminants from operational activities and historical remediation efforts, elevated levels of COPCs tend to remain concentrated in the vicinity of the original release points. The primary potential release and transport mechanisms identified for the MDPR site include direct discharge; precipitation, sorption, and mechanical transport; dissolution and advective transport in water; and volatilization, diffusion, and dispersion. Less significant transport mechanisms include wind entrainment and, given the asphalt pavement covering most sites, dispersal of surface soil and uptake of contaminants from soil and water by biota.

Gas or vapor-phase contaminants such as VOCs are likely to volatilize to the atmosphere from near-surface soil and sediment and/or migrate by diffusion through air-filled pores in the vadose zone. Migration of vapor-phase contaminants from tuff into ambient air may occur by diffusion or advection driven by barometric pressure changes.

F-3.2.1 Inorganic Chemicals

In general, and particularly in a semiarid climate, inorganic chemicals are not highly soluble or mobile in the environment, although there are exceptions. The physical and chemical factors that determine the distribution of inorganic COPCs within the soil and tuff at the MDPR site are the soil-water partition coefficient (K_d) of the inorganic chemicals, the pH of the soil, soil characteristics (such as sand or clay content), and the redox potential (Eh). The interaction of these factors is complex, but the K_d values provide a general assessment of the potential for migration through the subsurface; chemicals with higher K_d values are less likely to be mobile than those with lower ones. Chemicals with K_d values greater than 40 are very unlikely to migrate through soil towards the water table (Kincaid et al. 1998, 093270). Table F-3.2-1 presents the K_d values and water solubility for the inorganic COPCs for the MDPR site. Based on this criterion, the following inorganic COPCs have a low potential to mobilize and migrate through soil and the vadose zone: aluminum, antimony, barium, chromium, lead, mercury, nickel, and zinc. The K_d values for arsenic, copper, cyanide (total), nitrate/nitrite, perchlorate, selenium, and silver are less than 40 and may indicate a greater potential to mobilize and migrate through soil and the vadose zone beneath the sites.

It is important to note that other factors besides the K_d values (e.g., speciation in soil, oxidation-reduction potential, pH, and soil mineralogy) also play significant roles in the likelihood that inorganic chemicals will migrate. The COPCs with K_d values less than 40 are discussed further below. Nutrients necessary for life, such as calcium, are not discussed. Information about the fate and transport properties of inorganic chemicals was obtained from individual chemical profiles published by the Agency for Toxic Substances and Disease Registry (ATSDR) (1997, 056531), available at https://www.atsdr.cdc.gov/toxprofiledocs/index.html.

Arsenic may undergo a variety of reactions, including oxidation-reduction reactions, ligand exchange, precipitation, and biotransformation. Arsenic forms insoluble complexes with iron, aluminum, and magnesium oxides found in soil, and in this form, arsenic is relatively immobile. However, under low pH and reducing conditions, arsenic can become soluble and may potentially leach into groundwater or result in runoff of arsenic into surface waters. Arsenic is expected to have low mobility under the environmental conditions (neutral to slightly alkaline soil pH and oxidizing near-surface conditions) present at the MDPR site.

Copper movement in soil is determined by physical and chemical interactions with the soil components. Most copper deposited in soil will be strongly adsorbed and remains in the upper few centimeters of soil. Copper will adsorb to organic matter, carbonate minerals, clay minerals, or hydrous iron, and manganese oxides. In most temperate soil, pH, organic matter, and ionic strength of the soil solutions are the key factors affecting adsorption. Soil in the area is neutral to slightly alkaline, so the leaching of copper is not a concern at the MDPR site. Copper binds to soil much more strongly than other divalent cations, and the distribution of copper in the soil solution is less affected by pH than other metals. Copper is expected to be bound to the soil and move in the system by way of transport of soil particles by water as opposed to movement as dissolved species.

Cyanide tends to adsorb onto various natural media, including clay and sediment. However, sorption is insignificant relative to the potential for cyanide to volatilize and/or biodegrade. On soil surfaces, volatilization of hydrogen cyanide is a significant mechanism for cyanide loss. Cyanide at low concentrations in subsurface soil is likely to biodegrade under both aerobic and anaerobic conditions. Cyanide is present at the MDPR site in trace to low levels and is not expected to be mobile.

Nitrate and nitrite are inorganic water-soluble salts with the potential for rapid migration through soils to surface water and groundwater. Sorption of anions such as nitrate is insignificant in most soils. Leaching of excess soil nitrate into bodies of water is therefore an important consideration. Drainage characteristics of soils are strongly related to nitrate levels in shallow wells near agricultural areas. Other factors affecting leaching potential include the texture of the soil, pH, precipitation rates, tillage, and the types of crops or vegetation that may be planted in the soils. Nitrate has the potential to move into various environmental compartments and is subject to abiotic and biotic degradation processes. Transformation and degradation processes include denitrification to atmospheric nitrogen and plant uptake. Levels of nitrate and nitrite in soil vary considerably as a function of soil properties, temperature, precipitation rates, nitrogen loadings, farming practices (tillage, crops planted), and seasonal changes. In well-drained aerobic soils, the conversion of ammonia into nitrate (nitrification) increases the soil-nitrate content. In anaerobic soils with high organic matter, such as waterlogged soils or wetlands, denitrification decreases the levels of nitrate and nitrite in soils. Acidic soils tend to have lower levels of nitrate since the nitrification process ceases at pH levels below 4.5. Nitrate is expected to have moderate mobility under the environmental conditions (neutral to slightly alkaline soil pH and oxidizing near-surface conditions) present at the MDPR site.

Perchlorate is somewhat soluble in water and may migrate with water molecules in saturated soil. As noted above, the subsurface material beneath the sites has low moisture content, which inhibits the mobility of nitrate and perchlorate as well as most other inorganic chemicals.

Selenium is not often found in the environment in its elemental form but is usually combined with sulfide minerals or with silver, copper, lead, and nickel minerals. In soil, pH and Eh are determining factors in the transport and partitioning of selenium. In soil with a pH of greater than 7.5, selenates, which have high solubility and a low tendency to adsorb onto soil particles, are the major selenium species and are very mobile. The soil pH at the MDPR site is neutral to slightly alkaline, indicating that selenium is not likely to migrate.

Silver is released to air and water via natural processes, such as the weathering of rock and the erosion of soil. Silver sorbs onto soil and sediment and tends to form complexes with inorganic chemicals and humic substances in soil. Organic matter complexes with silver and reduces its mobility. Silver compounds tend to leach from well-drained soil so that it may potentially migrate into the subsurface. Site conditions are neutral to slightly alkaline and silver is not expected to be mobile.

F-3.2.2 Organic Chemicals

Table F-3.2-2 presents the physical and chemical properties (organic carbon-water partition coefficient [K_{oc}], logarithm to the base 10 octanol/water partition coefficient [log K_{ow}], and solubility) of the organic COPCs identified for the MDPR site. The physical and chemical properties of organic chemicals are important when evaluating their fate and transport. The following physiochemical property information illustrates some aspects of the fate and transport of organic COPCs at the MDPR site. The information is summarized from NMED guidance (NMED 2022, 702484) and the Oak Ridge National Laboratory Risk Assessment Information System (May 2023, https://rais.ornl.gov/).

Water solubility may be the most important chemical characteristic used to assess mobility of organic chemicals. The higher the water solubility of a chemical, the more likely it is to be mobile and the less likely it is to accumulate, bioaccumulate, volatilize, or persist in the environment. A highly soluble chemical (water solubility greater than 1000 mg/L) is prone to biodegradation and metabolism that may detoxify the parent chemical. Several organic COPCs at the MDPR site have water solubility greater than 1000 mg/L, including acetone; acetonitrile; benzene; benzoic acid; benzyl alcohol; 2-butanone; chloroform; diethyl ether; diethylphthalate; 1,4-dioxane; methylene chloride;4-nitrophenol; and trichloroethene.

The lower the water solubility of a chemical, especially below 10 mg/L, the more likely it will be immobilized by adsorption. Chemicals with lower water solubility are more likely to accumulate or bioaccumulate and persist in the environment, are slightly prone to biodegradation, and are metabolized in plants and animals. The organic COPCs identified as having water solubility less than 10 mg/L are acenaphthene; anthracene; Aroclor-1254; Aroclor-1260; benzo(a)anthracene; benzo(a)pyrene; benzo(b)fluoranthene; benzo(g,h,i)perylene; benzo(k)fluoranthene; bis(2-ethylhexyl)phthalate; butylbenzylphthalate; carbazole; chrysene; di-n-octylphthalate; dibenz(a,h)anthracene; dibenzofuran; fluoranthene; fluorene; indeno(1,2,3-cd)pyrene; phenanthrene; pyrene; and 2,3,7,8-tetrachlorodibenzodioxin (TCDD) toxic equivalent quotient (TEQ).

Vapor pressure is a chemical characteristic used to evaluate the tendency of organic chemicals to volatilize. Chemicals with vapor pressure greater than 0.01 mmHg are likely to volatilize, and concentrations at the site are therefore reduced over time. Vapors of these chemicals are more likely to travel toward the atmosphere and not migrate towards groundwater. Acetone; acetonitrile; benzene; benzyl alcohol; 2-butanone; chloroform; 2-chloronaphthalene; diethyl ether; 1,4-dioxane; 4-isopropyltoluene; methylene chloride; 1-methylnaphthalene; 2-methylnaphthalene; naphthalene; toluene; trichloroethene; 1,2,4-trimethylbenzene; 1,2-xylene; and 1,3-xylene+1,4-xylene have vapor pressures greater than 0.01 mmHg.

Chemicals with vapor pressures less than 0.000001 mmHg are less likely to volatilize and therefore tend to remain immobile. Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, bis(2-ethylhexyl)phthalate, carbazole, chrysene, di-n-octylphthalate, dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene, RDX (hexahydro-1,3,5-trinitro-1,3,5-triazine), and TCDD TEQ have vapor pressures less than 0.000001 mmHg.

The K_{ow} is an indicator of an organic chemical's potential to bioaccumulate or bioconcentrate in the fatty tissues of living organisms. The unitless K_{ow} value is an indicator of water solubility, mobility, sorption, and bioaccumulation. The higher the K_{ow} above 1000 (log K_{ow} of 3), the greater the affinity the chemical has for bioaccumulation/bioconcentration in the food chain, the greater the potential for sorption in the soil, and the lower the mobility (Ney 1995, 058210). The COPCs at the MDPR site that have a K_{ow} greater than 1000 include acenaphthene; acenaphthylene; anthracene; Aroclor-1254; Aroclor-1260; benzo(a)anthracene; benzo(a)pyrene; benzo(b)fluoranthene; benzo(g,h,i)perylene; benzo(k)fluoranthene; bis(2-ethylhexyl)phthalate; butylbenzylphthalate; carbazole; 2-chloronapthalene; chrysene; di-n-butylphthalate; di-n-octylphthalate; dinbenz(a,h)anthracene; dibenzofuran; fluoranthene; fluorene; indeno(1,2,3-c,d)pyrene; 4-isopropyltoluene; 1-methylnapthalene; 2-methylnaphthalene; naphthalene; phenanthrene; pyrene; TCDD TEQ; 1,2-xylene; and 1,3-xylene+1,4-xylene.

A K_{ow} of less than 500 (log K_{ow} of 2.7) indicates high water solubility, mobility, little to no affinity for bioaccumulation, and degradability by microbes, plants, and animals. The COPCs at the MDPR site that have a K_{ow} less than 500 are acetone; acetonitrile; benzene; benzoic acid; benzyl alcohol; 2-butanone; chloroform; diethyl ether; diethylphthalate; dimethylphthalate; 1,4-dioxane; methylene chloride; 4-nitrophenol; RDX; toluene; and tricholorethene.

The K_{oc} measures the tendency of a chemical to adsorb to organic carbon in soil. K_{oc} values above 500 cm^3/g indicate a strong tendency to adsorb to soil, leading to low mobility (NMED 2019, 700550). Most organic COPCs have K_{oc} values above 500 cm^3/g, indicating a very low potential to migrate toward groundwater. Aroclors, polycyclic aromatic hydrocarbons (PAHs), and phthalates are the least mobile and the most likely to bioaccumulate. The organic COPCs with K_{oc} values less than 500 cm^3/g include acetone; acetonitrile; benzene; benzoic acid; benzyl alcohol; 2-butanone; chloroform; diethyl ether; diethylphthalate; dimethylphthalate; 1,4-dioxane; methylene chloride; 4-nitrophenol; RDX; toluene; trichloroethene; 1,2-xylene; and 1,3-xylene+1,4-xylene. These are more soluble and volatile and are more likely to travel toward the atmosphere and not migrate toward groundwater. Because the organic COPCs were detected at low concentrations and extent is defined, they are not likely to migrate to groundwater.

F-3.2.3 Radionuclides

Radionuclides are generally not highly soluble or mobile in the environment, particularly in the semiarid climate of the Laboratory. The physical and chemical factors that determine the distribution of radionuclides within soil and tuff are the K_d, the pH of the soil and other soil characteristics (e.g., sand or clay content), and the Eh. The interaction of these factors is complex, but K_d values provide a general assessment of the potential for migration through the subsurface; chemicals with higher K_d values are less likely to be mobile than those with lower values. Radionuclides with K_d values greater than 40 are very unlikely to migrate through soil towards the water table (Kincaid et al. 1998, 093270).

Table F-3.2-3 gives physical and chemical properties of the radionuclide COPCs identified at the MDPR site. Based on K_d values, cobalt-60 has a very low potential to migrate towards groundwater at the sites within the MDPR site. The K_d values for americium-241, cesium-137, plutonium-238, plutonium-239/240, strontium-90, thorium-228, thorium-230, uranium-234, uranium-235/236, and uranium-238 are less than 40 and indicate a potential to migrate towards groundwater.

Americium is a synthetic chemical element. Americium has no naturally occurring or stable isotopes. Two important isotopes of americium are americium-241 and americium-243. Both isotopes have the same chemical behavior in the environment. Americium particles are released to the air and travel far from the point of release. Americium tends to attach strongly to surfaces and tends to accumulate in soil and sediment without significant leaching.

Cesium is a naturally occurring element found combined with other elements in rocks, soil, and dust in low amounts. Naturally occurring cesium is not radioactive and is referred to as stable cesium. There is only one stable form of cesium naturally present in the environment, cesium-133. Nuclear explosions or the breakdown of uranium in fuel elements can produce two radioactive forms of cesium: cesium-134 and cesium-137. Cesium particles are released to the air and travel far from the point of release. Cesium is very soluble in moist soils and water.

Plutonium is a silvery-white radioactive metal. Most plutonium is found combined with other substances. Trace amounts of plutonium occur naturally, but large amounts have been produced in nuclear reactors. The most common plutonium isotopes are plutonium-238 and plutonium-239. Plutonium can be transported in the atmosphere and deposited on soils and water. Plutonium adheres to soil and sediment particles.

Strontium released to the environment occurred as a result of anthropogenic activity. The environmental fate of the radioactive forms of strontium is expected to be similar to those of the nonradioactive form. When released to the atmosphere, radioactive strontium exists in the particulate-phase and is removed by wet and dry deposition. Strontium exists in the particulate phase in the atmosphere and is removed from air by wet and dry deposition. The transport and partitioning of particulate matter in the atmosphere is largely dependent upon the physical properties of the matter such and size and density. Strontium has moderate mobility in soils and sediments and adsorbs moderately to metal oxides and clays. The rate of strontium-90 soil adsorption exists as a function of aqueous sodium and potassium ion concentrations; a significant decrease in strontium-90 adsorption in soil is observed when dissolved levels of sodium and potassium increased. The rate of movement varies with soil type; low content of clay and humus, a high content of electrolytes, and rapid movement of water increase mobility of strontium (National Center for Biotechnology Information.

Thorium is a naturally occurring radioactive substance found in small amounts in rocks, soil, and water. There are four naturally occurring forms of thorium. As thorium breaks down, it releases small amounts of radiation. In most soils, thorium will attach strongly to the soil, which prevents it from moving into the groundwater. Thorium can move through the air and settle onto the ground or in water. The amount of thorium found in water is generally very low. Any thorium that is in water will usually be found in the sediment at the bottom.

No K_d is available for tritium, but tritium's initial behavior in the environment is determined by the source. If it is released as a gas or vapor to the atmosphere, substantial dispersion can be expected, and the rapidity of deposition is dependent on climatic factors. If tritium is released in liquid form, it is diluted in surface water and is subject to physical dispersion, percolation, and evaporation (Whicker and Schultz 1982, 058209, p. 147). Tritium activities in the subsurface at the area of elevated radioactivity are low (generally <1 pCi/g), indicating the area of elevated radioactivity is not a significant source of tritium, although this radionuclide is relatively mobile. Because tritium migrates in association with moisture, the low moisture content of the subsurface limits the potential for tritium to migrate to groundwater.

Uranium is a natural and commonly occurring radioactive element that is present in nearly all rock and soil. The mobility of uranium in soil and its vertical transport to groundwater depend on properties of the soil such as pH, Eh, concentration of complexing anions, porosity of the soil, soil-particle size, and

sorption properties as well as the amount of water available. In general, the actinide nuclides form comparatively insoluble compounds in the environment and therefore are not considered biologically mobile. The actinides are transported in ecosystems mainly by physical and sometimes chemical processes. They tend to attach, sometimes strongly, to surfaces and tend to accumulate in soil and sediment, which ultimately serve as strong reservoirs. Subsequent movement is largely associated with geological processes such as erosion and sometimes leaching.

F-3.3 Exposure Point Concentration Calculations

The exposure point concentrations (EPCs) represent upper-bound concentrations of COPCs. For comparison with risk-screening levels, the upper confidence limit (UCL) of the arithmetic mean was calculated when possible and used as the EPC. The UCLs were calculated using all available decision-level data within the depth range of interest. For some analytes, if an appropriate UCL of the mean could not be calculated, or if the UCL exceeded the maximum concentration, the maximum detected concentration of the COPC was used as the EPC (maximum DLs may be used as the EPCs for some inorganic COPCs). The summary statistics, including the EPC for each COPC for the human health and the ecological risk-screening assessments and the distribution used for the calculation, are presented in Tables F-2.3-1 to F-2.3-9.

The EPCs for the dioxin and furan congeners are the sums of the detected congeners weighted by the toxic equivalency factors (NMED 2022, 702484); the sum is expressed as the TCDD-equivalent concentration (TCDD TEQ). The toxic equivalency factors and the results of the toxic equivalency factor calculations for each site where dioxins/furans are COPCs are presented in Attachment F-1, and the TCDD-TEQ (95% UCLs or maximum concentrations) are presented in the tables in section F-4.2.

The UCLs of the mean concentrations were calculated using the U.S. Environmental Protection Agency (EPA) ProUCL 5.2.00 software (EPA 2022, 702275), which is based on EPA guidance (EPA 2002, 085640). The ProUCL program calculates 95%, 97.5%, and 99% UCLs and recommends a distribution and UCL. The 95% UCL for the recommended calculation method was used as the EPC. The ProUCL software performs distributional tests on the data set for each COPC and calculates the most appropriate UCL based on the distribution of the data set. Environmental data may have a normal, lognormal, or gamma distribution but are often nonparametric (no definable shape to the distribution). The ProUCL documentation strongly recommends against using the maximum detected concentration for the EPC. The maximum detected concentration was used to represent the EPC for COPCs when there were too few detections to calculate a UCL and for essential nutrients as required by NMED guidance (NMED 2022, 702484).

Negative concentrations are often reported for low-concentration radionuclide data due to the background subtraction process that is standard practice in laboratory analysis. In reality, concentrations are not truly negative, rather, they are zero concentrations or concentrations so low that they are indistinguishable from laboratory blanks used to quantify background concentrations for background subtraction. The ProUCL program treats negative values as if they are reliably quantified data, and they are retained as negative values in the data set. For datasets where the proportion of negative values is high, ProUCL may recommend a negative UCL. A negative concentration is not a reasonable estimate for the EPC; therefore, the maximum concentration is typically substituted. This is a conservative and reasonable approach for the small data sets encountered on Aggregate Area projects. However, the MDPR site and associated tracts have large data sets that are not well represented by the maximum concententration. In addition, the maximum concentration does not represent the average exposure of receptors at the site.

Therefore, in order to achieve a reasonable EPC in cases where ProUCL recommends a negative value, the negative concentration estimates will be substituted with zero as the estimated concentration for these samples because they are not truly negative. This recommendation is based on Section 1.14.1 of the ProUCL User Guide (EPA 2022, 702275), which cautions users to seek expert advice of qualified statisticians for "complex data sets" including negative values." ProUCL can then be used on the imputed data to calculate reasonable EPCs. The zero value will result in a slight overestimation of the risk, which ensures protectiveness but will still be much less than the concentrations that would drive risk. In this case, zero was substituted for all negative concentration estimates as the minimum nonnegative quantified result for the analytes. Input and output data files for ProUCL calculations are provided on CD as Attachment F-2.

F-4.0 HUMAN HEALTH RISK-SCREENING EVALUATIONS

A human health risk-screening assessment was conducted for tract A-8-a, tract A-16-a, and the combined MDPR site. The three areas were screened for construction worker and residential scenarios using data from samples from 0 to 10 ft bgs. The areas were also screened for the industrial and recreational scenarios using data from samples from 0 to 1 ft bgs. The human health risk-screening assessment compared either the 95% UCL of the mean concentration or the maximum detected concentration of each COPC with SSLs for chemicals and screening action levels (SALs) for radionuclides.

F-4.1 Human Health SSLs and SALs

Human health risk-screening assessments were conducted using SSLs for the industrial, recreational, construction worker, and residential scenarios obtained from NMED guidance (NMED 2022, 702484). The NMED SSLs are based on a target hazard quotient (HQ) of 1 and a target cancer risk of 1×10^{-5} (NMED 2022, 702484). If SSLs were not available from NMED guidance, the EPA regional screening tables (https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables) were used. However, EPA regional screening levels do not include construction worker values, so if NMED does not have a construction worker SSL, then a construction worker SSL must be calculated using the toxicity data from the EPA regional screening table and the parameters and equations from the NMED guidance (NMED 2022, 702484). Calculations for construction worker SSLs are documented in Attachment F-3. The EPA regional screening levels for carcinogens were multiplied by 10 to adjust from a 10^{-6} cancer risk level to the NMED target cancer risk level of 10^{-5}. Recreational SSLs were obtained from Laboratory guidance (N3B 2020, 701072). Surrogate chemicals were also used for some COPCs without an SSL based on structural similarity or because the COPC is a breakdown product (NMED 2003, 081172). Exposure parameters used to calculate the industrial, recreational, construction worker, and residential SSLs are presented in Table F-4.1-1.

Lead was evaluated separately using an alternative method following NMED soil-screening guidance. See section F-4.4.1 for more information (NMED 2022, 702484).

Radionuclide SALs were used for comparison with radionuclide COPC EPCs and were derived using the "Derivation and Use of Radionuclide Screening Action Levels, Revision 4" method (LANL 2015, 600929). The SALs are based on a 25-millirem per year (mrem/yr) dose. Exposure parameters used to calculate the SALs are presented in Tables F-4.1-2 to F-4.1-4.

F-4.2 Results of Human Health Screening Evaluation

The EPC of each COPC was compared with the SSLs for the industrial, recreational, construction worker, and residential scenarios, as appropriate. For carcinogenic chemicals, the EPCs were divided by the SSL and multiplied by 1×10^{-5}. The sum of the carcinogenic risks was compared with the NMED target cancer risk level of 1×10^{-5}. For noncarcinogenic chemicals, an HQ was generated for each COPC by dividing the EPC by the SSL. The HQs were summed to generate a hazard index (HI). The HI was compared with the NMED target HI of 1. Lead concentrations were compared with values computed from an alternative evaluation method. See section F-4.4.1 for more information. Total doses for each exposure scenario were estimated using SALs. In the process described in section F-3.3 for negative EPCs for radionuclides, the following sections report two sets of dose results. The first result is based on the EPC where the negative results were replaced with zero, and the second result is based on an EPC equal to the maximum concentration. This negative value replacement process is referred to in the following sections as the zero-substitution process. The radionuclide EPCs were divided by the SAL and multiplied by 25 mrem/yr. The results are presented in Tables F-4.2-1 to F-4.2-48 and are described below for each of the three areas evaluated.

F-4.2.1 Tract A-8-a

Industrial Scenario

The results of the risk-screening assessment for the industrial scenario are presented in Tables F-4.2-1, F-4.2-2, F-4.2-3, and F-4.2-4. The total excess cancer risk for the industrial scenario is 3×10^{-7}, which is less than the NMED target risk level of 1×10^{-5} (NMED 2022, 702484). The industrial HI is 0.002, which is less than the NMED target HI of 1 (NMED 2022, 702484). Radionuclide EPCs were less than SALs, and the total estimated dose using the zero-substitution process for negative values is 0.000972 mrem/yr. While there were negative values reported, no negative UCLs were calculated for this data set, so only the maximum or single detected concentration for tritium was needed to calculate the unsubstituted EPC, which resulted in a slightly lower dose of 0.000897 mrem/yr.

Recreational Scenario

The results of the risk-screening assessment for the recreational scenario are presented in Tables F-4.2-5, F-4.2-6, F-4.2-7, and F-4.2-8. The total excess cancer risk for the recreational scenario is 3×10^{-7}, which is less than the NMED target risk level of 1×10^{-5} (NMED 2022, 702484). The recreational HI is 0.006, which is less than the NMED target HI of 1 (NMED 2022, 702484). Radionuclide EPCs were less than SALs, and the total estimated dose using the zero-substitution process is 0.000867 mrem/yr. The unsubstituted EPC resulted in a dose of 0.000798 mrem/yr.

Construction Worker Scenario

The results of the risk-screening assessment for the construction worker scenario are presented in Tables F-4.2-9, F-4.2-10, F-4.2-11, and F-4.2-12. The total excess cancer risk for the construction worker scenario is 4×10^{-7}, which is less than the NMED target risk level of 1×10^{-5} (NMED 2022, 702484). The construction worker HI is 0.5, which is less than the NMED target HI of 1 (NMED 2022, 702484). Radionuclide EPCs were less than SALs, and the total estimated dose using the zero-substitution process is 2.81 mrem/yr. The unsubstituted EPC also resulted in a dose of 2.81 mrem/yr.

Residential Scenario

The results of the risk-screening assessment for the residential scenario are presented in Tables F-4.2-13, F-4.2-14, F-4.2-15, and F-4.2-16. The total excess cancer risk for the residential scenario is 7×10^{-6}, which is less than the NMED target risk level of 1×10^{-5} (NMED 2022, 702484). The residential HI is 0.5, which is less than the NMED target HI of 1 (NMED 2022, 702484). Radionuclide EPCs were less than SALs, and the total estimated dose using the zero-substitution process is 10.24 mrem/yr. The unsubstituted EPC resulted in a dose of 10.57 mrem/yr.

Lead

Lead was not a COPC for the industrial, recreational, construction worker, and residential scenarios for tract A-8-a.

F-4.2.2 Tract A-16-a

Industrial Scenario

The results of the risk-screening assessment for the industrial scenario are presented in Tables F-4.2-17, F-4.2-18, F-4.2-19, and F-4.2-20. The total excess cancer risk for the industrial scenario is 1×10^{-7}, which is less than the NMED target risk level of 1×10^{-5} (NMED 2022, 702484). The industrial HI is 0.008, which is less than the NMED target HI of 1 (NMED 2022, 702484). Radionuclide EPCs were less than SALs, and the total estimated dose using the zero-substitution process is 6.50 mrem/yr. The unsubstituted EPC resulted in a dose of 6.52 mrem/yr.

Recreational Scenario

The results of the risk-screening assessment for the recreational scenario are presented in Tables F-4.2-21, F-4.2-22, F-4.2-23, and F-4.2-24. The total excess cancer risk for the recreational scenario is 1×10^{-7}, which is less than the NMED target risk level of 1×10^{-5} (NMED 2022, 702484). The recreational HI is 0.02, which is less than the NMED target HI of 1 (NMED 2022, 702484). Radionuclide EPCs were less than SALs, and the total estimated dose using the zero-substitution process is 6.46 mrem/yr. The unsubstituted EPC resulted in a dose of 6.47 mrem/yr.

Construction Worker Scenario

The results of the risk-screening assessment for the construction worker scenario are presented in Tables F-4.2-25, F-4.2-26, F-4.2-27, and F-4.2-28. The total excess cancer risk for the construction worker scenario is 3×10^{-7}, which is less than the NMED target risk level of 1×10^{-5} (NMED 2022, 702484). The construction worker HI is 0.4, which is less than the NMED target HI of 1 (NMED 2022, 702484). Radionuclide EPCs were less than SALs, and the total estimated dose using the zero-substitution process is 10.13 mrem/yr. The unsubstituted EPC resulted in a dose of 13.30 mrem/yr.

Residential Scenario

The results of the risk-screening assessment for the residential scenario are presented in Tables F-4.2-29, F-4.2-30, F-4.2-31, and F-4.2-32. The total excess cancer risk for the residential scenario is 5×10^{-6}, which is less than the NMED target risk level of 1×10^{-5} (NMED 2022, 702484). The residential HI is 0.4, which is less than the NMED target HI of 1 (NMED 2022, 702484). Radionuclide EPCs were less than SALs, and the total estimated dose using the zero-substitution process is 18.34 mrem/yr. The

unsubstituted EPC resulted in a dose of 29.99 mrem/yr and is based upon the use of maximum detected concentrations for cesium-137, plutonium-238, plutonium-239/240, and strontium-90 (0.277 pCi/g, 0.079 pCi/g, 24.1 pCi/g, and 2.2 pCi/g, respectively). Using the maximum detected concentrations is an unreasonable overestimation of the dose because the maximum concentrations do not represent the average exposure to receptors due to the large area of the site. Furthermore, these maximum concentrations are less than their respective SALs, which indicates that the dose based on these maximum concentrations is an overestimation.

Lead

Lead was a COPC for the industrial, construction worker, recreational, and residential scenarios and is evaluated in section F-4.4-1.

F-4.2.3 Middle DP Road Site

Industrial Scenario

The results of the risk-screening assessment for the industrial scenario are presented in Tables F-4.2-33, F-4.2-34, F-4.2-35, and F-4.2-36. The total excess cancer risk for the industrial scenario is 2×10^{-7}, which is less than the NMED target risk level of 1×10^{-5} (NMED 2022, 702484). The industrial HI is 0.007, which is less than the NMED target HI of 1 (NMED 2022, 702484). Radionuclide EPCs were less than SALs, and the total estimated dose using the zero-substitution process is 6.49 mrem/yr. The unsubstituted EPC resulted in a dose of 6.52 mrem/yr.

Recreational Scenario

The results of the risk-screening assessment for the recreational scenario are presented in Tables F-4.2-37, F-4.2-38, F-4.2-39, and F-4.2-40. The total excess cancer risk for the recreational scenario is 1×10^{-7}, which is less than the NMED target risk level of 1×10^{-5} (NMED 2022, 702484). The recreational HI is 0.02, which is less than the NMED target HI of 1 (NMED 2022, 702484). Radionuclide EPCs were less than SALs, and the total estimated dose using the zero-substitution process is 6.46 mrem/yr. The unsubstituted EPC resulted in a dose of 6.50 mrem/yr.

Construction Worker Scenario

The results of the risk-screening assessment for the construction worker scenario are presented in Tables F-4.2-41, F-4.2-42, F-4.2-43, and F-4.2-44. The total excess cancer risk for the construction worker scenario is 3×10^{-7}, which is less than the NMED target risk level of 1×10^{-5} (NMED 2022, 702484). The construction worker HI is 0.4, which is less than the NMED target HI of 1 (NMED 2022, 702484). Radionuclide EPCs were less than SALs, and the total estimated dose using the zero-substitution process is 10.15 mrem/yr. The unsubstituted EPC resulted in a dose of 13.33 mrem/yr.

Residential Scenario

The results of the risk-screening assessment for the residential scenario are presented in Tables F-4.2-45, F-4.2-46, F-4.2-47, and F-4.2-48. The total excess cancer risk for the residential scenario is 5×10^{-6}, which is less than the NMED target risk level of 1×10^{-5} (NMED 2022, 702484). The residential HI is 0.4, which is less than the NMED target HI of 1 (NMED 2022, 702484). Radionuclide EPCs were less than SALs, and the total estimated dose using the zero-substitution process is 18.36 mrem/yr. The unsubstituted EPC resulted in a dose of 30.05 mrem/yr and is based upon the use of

maximum detected concentrations for cesium-137, plutonium-238, plutonium-239/240, and strontium-90 (0.277 pCi/g, 0.079 pCi/g, 24.1 pCi/g, and 2.2 pCi/g, respectively). Using the maximum detected concentrations is an unreasonable overestimation of the dose because the maximum concentrations do not represent the average exposure to receptors due to the large area of the site. Furthermore, these maximum concentrations are less than their respective SALs, which indicates that the dose based on these maximum concentrations is an overestimation.

Lead

Lead was a COPC for the industrial, construction worker, and residential scenarios and is evaluated in section F-4.4-1.

F-4.3 Vapor-Intrusion Pathway

NMED soil-screening guidance requires an evaluation of the vapor-intrusion pathway (NMED 2022, 702484). Residential receptors and commercial/industrial workers could be exposed to VOCs vaporized from subsurface media (soil gas and/or groundwater) through pore spaces in the vadose zone and building foundations (or slabs) into indoor air. For each site investigated, one of the following three designations was made for the vapor-intrusion pathway: (1) incomplete pathway and no action required, (2) potentially complete pathway and qualitative evaluation required, or (3) complete pathway and quantitative evaluation required. A summary of the vapor-intrusion pathway designation for each site is included in Table F-4.3-1. Because only bulk soil data are available for these sites, NMED vapor-intrusion screening levels are not applicable for the evaluation.

Incomplete Pathway: No Action Required

The vapor-intrusion pathway is designated as “incomplete” and will not be evaluated further if one of the following conditions is met:

- There are no buildings located near the site, and buildings are reasonably expected to be absent in the future.
- Volatile and toxic compounds are not detected, meaning all the results were 100% nondetections.
- The site has no history of containing volatile and toxic compounds, and VOC sampling was not conducted during the investigation.

Potentially Complete Pathway; Qualitative Evaluation

The vapor-intrusion pathway is designated as “potentially complete” if each of the following conditions is met:

- Detections of volatile and toxic compounds are minimally detected (e.g., once or twice) in site media (soil, tuff).
- There are no suspected sources for volatile and toxic compounds.
- Concentrations are decreasing with depth.

A qualitative evaluation of the vapor-intrusion pathway will be used for the sites meeting the above criteria. Unless pore-gas sampling was specified in the approved work plan for the site, the qualitative evaluation will be made using bulk soil data rather than pore-gas data. The qualitative evaluation will include all site-specific COPCs that are volatile and toxic (i.e., all COPCs having a Henry’s Law constant

of 1×10^{-5} atm-m^3/mol or greater, a molecular weight of approximately 200 g/mol or less and known to pose a potential cancer risk or noncancer hazard through the inhalation pathway). Nondetected organic compounds are not considered COPCs and will not be evaluated.

Complete Pathway; Quantitative Evaluation

The vapor-intrusion pathway is designated as "complete" for a specific building or collection of buildings when the following five conditions are met:

- A subsurface source of vapor-forming chemicals is present underneath or near the buildings (e.g., VOCs are found at significant levels within 10 ft of the base of the foundation).
- Vapors form and have a route along which to migrate (be transported) toward the buildings.
- The buildings are susceptible to soil gas entry, which means openings exist for the vapors to enter the buildings and driving 'forces' (e.g., air pressure differences between the building and the subsurface environment) exist to draw the vapors from the subsurface through the openings into the buildings.
- One or more vapor-forming chemicals composing the subsurface vapor sources are present in the indoor environment.
- The buildings are occupied by one or more individuals when the vapor-forming chemicals are present indoors.

Building development is planned for the MDPR site, and volatile organic COPCS or VOCs were detected; therefore, the potential for the vapor-intrusion pathway is discussed for the site.

F-4.3.1 Tract A-8-a

Several compounds meeting the criteria for volatility and toxicity were detected at this site. The VOCs, acetone, acetonitrile, benzene, 2-butanone, toluene, and 1,2,4-trimethylbenzene were each detected in 1 to 2 out of 186 samples. Dioxane[1,4-] was detected in 1 of 186 VOC samples and none of the 6 semivolatile organic compound (SVOC) samples. These compounds are minimally detected (e.g., once or twice) in site media based upon NMED guidance (NMED 2022, 702484). Methylene chloride was detected at estimated (J-qualified) concentrations below the respective report DLs in 12 of 186 samples, ranging from 0.00185 mg/kg to 0.241 mg/kg. Only 6 estimated concentrations were in samples collected from depths below 5 ft bgs at concentrations ranging from 0.00188 mg/kg to 0.241 mg/kg.

Two SVOCs [benzo(a)anthracene and naphthalene] that meet the criteria for volatility and toxicity were detected at this site. Benzo(a)anthracene, with a molecular weight of 228.3 g/mol and a Henry's Law Constant of 1.5×10^{-5} atm-m^3/mol, is right on the threshold of NMED's volatility criteria and was detected in 40 of 186 samples. Fourteen detections were in samples collected below 5 ft bgs at concentrations ranging from 0.00282 mg/kg to 0.029 mg/kg. Naphthalene was detected in 22 of 28 SVOC samples and none of 158 VOC samples. Nine detections were in samples collected below 5 ft bgs at concentrations ranging from 0.00203 mg/kg to 0.101 mg/kg.

Aroclor-1254, Aroclor-1260, and 2,3,7,8-tetrachlorodibenzofuran were detected at this site. The molecular weights of these three compounds are 326.44 g/mol, 395.33 g/mol, and 305.98 g/mol, respectively. Therefore, these three compounds do not meet the criteria for volatility and toxicity and do not present a vapor-intrusion risk.

Multiple Lines of Evidence Evaluation: The site description does not include any activities associated with solvent usage (or other VOC analytes) or disposal at this site; therefore, no known source of VOCs exists at this site. No structures currently exist at the site; however, it is anticipated that structures may exist on-site in the future. All VOCs, with the exception of methylene chloride, meet the definition of minimal detection with only one or two detections each. Methylene chloride and the SVOCs, benzo(a)anthracene and naphthalene, were detected in some soil samples collected below 5 ft bgs. Soil gas samples are not recommended within 5 ft of ground surface because of the influence of ambient air (https://www.epa.gov/vaporintrusion/technical-guide-assessing-and-mitigating-vapor-intrusion-pathway-subsurface-vapor). In addition, if buildings, including slab-on-grade structures, are constructed at the site in the future, excavation for the purpose of leveling and installing footers would likely remove any impacted soil from the top 5 ft beneath the footprint of the building. Therefore, concentrations in the top 5 ft of soil are not considered a subsurface source for future structures.

Table F-4.3-2 depicts the concentrations of methylene chloride, benzo(a)anthracene, and naphthalene detected below 5 ft bgs along with the range of report DLs for each compound. Most detections are below or within the range of report DLs. While bulk soil concentrations are not directly comparable with indoor air vapor-intrusion screening level (VISLs), it is clear that none of the concentrations detected at this site would provide the mass required to exceed the most conservative residential indoor air VISLs for any length of time. Adequate data exist to perform a statistical analysis on the detected and nondetected concentrations of benzo(a)anthracene, and the detected concentrations are not significantly higher than the nondetected concentrations. These calculations, along with the following lines of evidence, are provided in Attachment F-4.

To provide additional lines of evidence, the maximum and 95% UCL bulk soil concentrations of the three analytes were converted to soil gas concentrations and compared with residential soil gas VISLs. As shown in Table F-4.3.3, all calculated soil gas concentrations are well below the residential soil gas VISLs. This calculation demonstrates that benzo(a)anthracene sorbs tightly to soil and has a low vapor pressure, and potential vapor intrusion risks from benzo(a)anthracene are overestimated.

Some VOCs were detected, and buildings may be constructed on-site in the future. Therefore, the future vapor-intrusion pathway is potentially complete based upon NMED guidance (NMED 2022, 702484). However, multiple lines of evidence indicate that no further evaluation is necessary.

F-4.3.2 Tract A-16-a

Several compounds meeting the criteria for volatility and toxicity were detected at this site. The VOCs, trichloroethene and 1,2,4-trimethylbenzene, were each detected in 1 to 2 out of 514 samples. Acetonitrile; 1,4-dioxane; and 1,2-xylene were detected in only 1 to 2 out of 262 samples collected below 5 ft bgs. As stated previously, concentrations in the top 5 ft of soil are not considered a subsurface source for future structures. These compounds are minimally detected (e.g., once or twice) in site media based upon NMED guidance (NMED 2022, 702484). Butanone[2-] was detected in 3 of 514 samples but none below 5 ft bgs.

Acetone was detected in 4 of 514 samples, ranging from 0.00255 mg/kg to 4.14 mg/kg. All 4 detections were in samples collected from depths below 5 ft bgs. Benzene was detected in 20 of 514 samples, ranging from 0.000356 mg/kg to 0.00625 mg/kg. Ten detections were in samples collected from depths below 5 ft bgs within the same concentration range. Chloroform was detected in 12 of 514 samples, ranging from 0.000613 mg/kg to 0.55 mg/kg. Only 3 detections were in samples collected from depths below 5 ft bgs at concentrations ranging from 0.000613 mg/kg to 0.00799 mg/kg. Methylene chloride was detected in 88 of 514 samples, ranging from 0.00172 mg/kg to 0.719 mg/kg. Forty detections were in

samples collected from depths below 5 ft bgs at concentrations ranging from 0.00173 mg/kg to 0.0161 mg/kg. Toluene was detected in 48 of 514 samples, ranging from 0.000368 mg/kg to 0.000926 mg/kg. Twenty-three detections were in samples collected from depths below 5 ft bgs at concentrations ranging from 0.000373 mg/kg to 0.00609 mg/kg. Xylene [1,3]+xylene[1,4] was detected in 6 of 514 samples, ranging from 0.000932 mg/kg to 0.0012 mg/kg. Only 4 detections were in samples collected from depths below 5 ft bgs at concentrations ranging from 0.000942 mg/kg to 0.0012 mg/kg.

Two SVOCs [benzo(a)anthracene and naphthalene] that meet the criteria for volatility and toxicity were detected at this site. Benzo(a)anthracene, with a molecular weight of 228.3 g/mol and a Henry's Law Constant of 1.5×10^{-5} atm-m^3/mol, is on the threshold of NMED's volatility criteria and was detected in 160 of 514 samples at concentrations ranging from 0.00108 mg/kg to 1.07 mg/kg. Forty-seven detections were in samples collected below 5 ft bgs at concentrations ranging from 0.00166 mg/kg to 0.107 mg/kg. Naphthalene was detected in 292 of 515 samples analyzed for organic compounds at concentrations ranging from 0.000366 mg/kg to 0.871 mg/kg. One hundred twenty-two detections were in samples collected below 5 ft bgs at concentrations ranging from 0.000366 mg/kg to 0.188 mg/kg.

Aroclor-1254, Aroclor-1260, and 2,3,7,8-tetrachlorodibenzofuran were detected at this site. The molecular weights of these three compounds are 326.44 g/mol, 395.33 g/mol, and 305.98 g/mol, respectively. Therefore, these three compounds do not meet the criteria for volatility and toxicity and do not present a vapor-intrusion risk.

Multiple Lines of Evidence Evaluation: The site description does not include any activities associated with solvent usage (or other VOC analytes) or disposal at this site; therefore, no known source of VOCs exists at this site. No structures currently exist at the site; however, it is anticipated that structures may exist on-site in the future. Several VOCs and the SVOCs benzo(a)anthracene and naphthalene were detected in some soil samples collected below 5 ft bgs.

Table F-4.3-4 depicts the concentrations of acetone; benzene; chloroform; methylene chloride; toluene; 1,3-xylene+1,4-xylene; benzo(a)anthracene; and naphthalene detected below 5 ft bgs along with the range of report DLs for each compound. Most detections are below or within the range of report DLs. While bulk soil concentrations are not directly comparable with indoor air VISLs, it is clear that none of the concentrations detected at this site would provide the mass required to exceed the most conservative residential indoor air VISLs for any length of time. The following lines of evidence are provided in Attachment F-4.

To provide additional lines of evidence, the maximum bulk soil concentrations of the eight analytes were converted to soil gas concentrations and compared with residential soil gas VISLs. Five analytes had even detections below 5 ft bgs to calculate UCL bulk soil concentrations, which were also converted to soil gas concentrations as a more reasonable comparison with the VISLs. As shown in Table F-4.3.5, all calculated soil gas concentrations are well below the residential soil gas VISLs. This calculation demonstrates that benzo(a)anthracene sorbs tightly to soil and has a low vapor pressure, and potential vapor intrusion risks from benzo(a)anthracene are overestimated.

Some VOCs were detected, and buildings may be constructed on-site in the future. Therefore, the future vapor-intrusion pathway is potentially complete based upon NMED guidance (NMED 2022, 702484). However, multiple lines of evidence indicate that no further evaluation is necessary.

F-4.3.3 Middle DP Road Site

Vapor-intrusion analyses of tracts A-8-a and A-16-a are protective of the full MDPR site, so analysis is not required because combining the data sets for additional analysis will not change the overall vapor-intrusion analysis. In addition, given the location of the tract A-8-a and tract A-16-a samples, the nearby structures, and the sanitary lift station, the combination of the two data sets does not represent a likely construction footprint for a future structure. The separate vapor-intrusion analysis is more likely to represent the concentrations that may exist beneath future structures.

F-4.4 Other COPCs

F-4.4.1 Lead

NMED has an alternate evaluation for lead. The EPA-recommended levels for lead, which are based on blood-lead modeling, were applied for the residential and industrial/construction worker scenarios. The screening values for these scenarios were based on back-calculations to determine a soil concentration that would not result in an estimated blood-lead concentration greater than 10 µg/dL (400 mg/kg for residential adult and 800 mg/kg for industrial/construction worker).

Because derivation of the lead-screening values is based on a biokinetic model that considers multiple sources of exposure, the lead-screening values are fundamentally different from the SSLs for other metals. Therefore, lead is evaluated separately from other noncarcinogenic COPCs and not included in the HI for noncarcinogens. (Lead is included in the HI calculation for ecological screening.) Lead was not a COPC for tract A-8-a. Soil lead levels were below screening values for all receptor scenarios in tract A-16-a and MDPR site. The lead HQ is 0.03 for the industrial scenario, 0.02 for the recreational scenario, 0.02 for the construction worker scenario, and 0.04 for the residential scenario for tract A-16-a. The lead HQ is 0.02 for the industrial scenario, 0.02 for the recreational scenario, 0.02 for the construction worker scenario, and 0.04 for the residential scenario for the MDPR site. The results are presented in Table F-4.4.1.

F-4.4.2 Essential Nutrients

NMED guidance (NMED 2022, 702484) has SSLs for evaluation of essential nutrients. The maximum concentrations of calcium were compared with the appropriate NMED SSLs for tracts A-8-a and A-16-a and the MDPR site for the industrial, construction worker, and residential scenarios. A recreational screening level is not available for calcium. The results of the comparisons found calcium to be substantially less than the SSLs presented in Table F-4.4-2. Further evaluation of calcium at these sites is therefore not necessary.

F-4.5 Uncertainty Analysis

F-4.5.1 Data Evaluation and COPC Identification Process

A primary uncertainty associated with the COPC identification process is the possibility that a chemical may be inappropriately identified as a COPC when it is actually not a COPC, or that a chemical may not be identified as a COPC when it actually should be identified as a COPC. Inorganic chemicals are appropriately identified as COPCs because only the chemicals detected or that have DLs above background are retained for further analysis. There are no established BVs for organic chemicals, and all detected organic chemicals are identified as COPCs and retained for further analysis. Other uncertainties may include errors in sampling, laboratory analysis, and data analysis. However, because concentrations

used in the risk-screening evaluations include those detected below the estimated quantitation limits and nondetections above BVs, data evaluation uncertainties are expected to have little effect on the risk-screening results.

F-4.5.2 Exposure Evaluation

The current and reasonably foreseeable future land use is unrestricted. An individual may be subject to exposures in a different manner than the exposure assumptions used to derive the SSLs. Individuals might not be on-site at present or in the future for that frequency and duration. The construction worker assumptions for the SSLs are that the potentially exposed individual is outside on-site for 8 hr/day, 250 days/yr, for 1 yr (NMED 2022, 702484). The industrial assumptions for the SSLs are that the potentially exposed individual is outside on-site for 8 hr/day, 225 days/yr, for 25 yr (NMED 2022, 702484). The residential SSLs are based on exposure of 24 hr/day, 350 days/yr, for 30 yr (NMED 2022, 702484). The recreational SSLs are based on exposure of 1 hr/day, 200 days/yr, for 6 yr (N3B 2020, 701072). As a result, the construction worker, industrial, recreational, and residential scenarios evaluated at these sites may overestimate the exposure and risk.

A number of assumptions were made relative to exposure pathways, including input parameters, completeness of a given pathway, the contaminated media to which an individual may be exposed, and intake rates for different routes of exposure. In the absence of site-specific data, the exposure assumptions used were consistent with default values (NMED 2022, 702484). When several upper-bound values (as are found in NMED guidance [NMED 2022, 702484]) are combined to estimate exposure for any one pathway, the resulting risk estimate can exceed the 99th percentile and therefore can exceed the range of risk that may be reasonably expected. Also, the assumption that residual concentrations of chemicals in the tuff are available and result in exposure in the same manner as if they were in soil overestimates the potential exposure and risk to receptors.

Uncertainty was introduced in the concentration aggregation of data for estimating the EPCs at a site. Risk from a single location or area with relatively high COPC concentrations may be underestimated by using a representative sitewide value. The use of a UCL is intended to provide a protective upper-bound (i.e., conservative) COPC concentration and is assumed to be representative of the average exposure to a COPC across the entire site. Potential risk and exposure from a single location or area with relatively high COPC concentrations may be overestimated if a representative sitewide value is used. The use of the maximum detected concentration for the EPC overestimates the exposure to contamination because receptors are not consistently exposed to the maximum detected concentration across the site. In addition, the maximum DL was used as the EPC for some inorganic COPCs with elevated DLs above BVs.

Tract A-8-a

Human health risk screening shows no unacceptable chemical cancer risk, noncarcinogenic hazard, or radiological dose for the industrial, recreational, construction worker, or residential scenarios.

Calcium was identified as a COPC, but there is no unacceptable risk from calcium.

Tract A-16-a

Human health risk screening shows no unacceptable chemical cancer risk, noncarcinogenic hazard, or radiological dose for the industrial, recreational, construction worker, or residential scenarios.

Lead was identified as a COPC, but there is no unacceptable risk from lead.

Calcium was identified as a COPC, but there is no unacceptable risk from calcium.

Middle DP Road Site

Human health risk screening shows no unacceptable chemical cancer risk, noncarcinogenic hazard, or radiological dose for the industrial, recreational, construction worker, or residential scenarios.

Lead was identified as a COPC, but there is no unacceptable risk from lead.

Calcium was identified as a COPC, but there is no unacceptable risk from calcium.

F-4.5.3 Toxicity Evaluation

The primary uncertainty associated with the SSLs is related to the derivation of toxicity values used in their calculation. Toxicity values (reference doses [RfDs] and slope factors [SFs]) were used to derive the SSLs used in this risk-screening evaluation (NMED 2022, 702484). Uncertainties were identified in five areas with respect to the toxicity values: (1) extrapolation from other animals to humans, (2) variability among individuals in the human population, (3) the derivation of RfDs and SFs, (4) the chemical form of the COPC, and (5) the use of surrogate chemicals.

Extrapolation from Animals to Humans: The SFs and RfDs are often determined by extrapolation from animal data to humans. This may result in uncertainties in toxicity values because differences exist in chemical absorption, metabolism, excretion, and toxic responses between animals and humans. Differences in body weight, surface area, and pharmacokinetic relationships between animals and humans are taken into account to address these uncertainties in the dose-response relationship. However, conservatism is usually incorporated into each of these steps, resulting in the overestimation of potential risk.

Variability in the Human Population: For noncarcinogenic effects, the degree of variability in human physical characteristics is important both in determining the risks that can be expected at low exposures and in defining the no observed adverse effect level (NOAEL). The NOAEL uncertainty factor approach incorporates a 10-fold factor to reflect individual variability within the human population that can contribute to uncertainty in the risk evaluation. This factor of 10 is generally considered to result in a conservative estimate of risk from noncarcinogenic COPCs.

Derivation of RfDs and SFs: The RfDs and SFs for different chemicals are derived from experiments conducted by different laboratories that may have different accuracy and precision that could lead to an over- or underestimation of the risk. The uncertainty associated with the toxicity factors for noncarcinogens is measured by the uncertainty factor, the modifying factor, and the confidence level. For carcinogens, the weight-of-evidence classification indicates the likelihood that a contaminant is a human carcinogen. Toxicity values with high uncertainties may change as new information is evaluated.

Chemical Form of the COPC: COPCs may be bound to the environment matrix and not available for absorption into the human body. However, the COPCs are assumed to be bioavailable. This assumption can lead to an overestimation of the total risk.

Use of Surrogate Chemicals: The use of surrogates for chemicals that do not have EPA-approved or provisional toxicity values also contributes to uncertainty in the risk assessment. Surrogates were used to provide SSLs for acenaphthylene, benzo(g,h,i)perylene, carbazole, 4-isopropyltoluene, and

1,3-xylene+1,4-xylene based on structural similarity. The overall impact of surrogates on the risk assessment is minimal because these COPCs were generally detected at low concentrations and most were infrequently detected.

F-4.5.4 Additive Approach

For noncarcinogens, the effects of exposure to multiple chemicals are generally unknown. Possible interactions could be synergistic or antagonistic, resulting in either an overestimation or underestimation of the potential risk. In addition, RfDs used in the risk calculations typically are not based on the same endpoints with respect to severity, effects, or target organs. Therefore, the potential for noncarcinogenic effects may be overestimated for individual COPCs that act by different mechanisms or by different modes of action but are addressed additively.

F-4.6 Interpretation of Human Health Risk-Screening Results

F-4.6.1 Tract A-8-a

Industrial Scenario

The total excess chemical cancer risk for the industrial scenario is 3×10^{-7}, which is less than the NMED target risk level of 1×10^{-5}. The industrial HI is 0.002, which is less than the NMED target HI of 1. Radionuclide EPCs were less than SALs, and the total estimated dose is 0.000972 mrem/yr. The total dose for the industrial scenario is equivalent to a total risk of 9×10^{-9}, based on conversion from dose using RESRAD Version 7.0 (Attachment F-5).

Recreational Scenario

The total excess chemical cancer risk for the recreational scenario is 3×10^{-7}, which is less than the NMED target risk level of 1×10^{-5}. The recreational HI is 0.006, which is less than the NMED target HI of 1. Radionuclide EPCs were less than SALs, and the total estimated dose is 0.000867 mrem/yr. The total radiological dose for the recreational scenario is equivalent to a total risk of 3×10^{-9} based on conversion from dose using RESRAD Version 7.0 (Attachment F-5).

Construction Worker Scenario

The total excess chemical cancer risk for the construction worker scenario is 4×10^{-7}, which is less than the NMED target risk level of 1×10^{-5}. The construction worker HI is 0.5, which is less than the NMED target HI of 1. Radionuclide EPCs were less than SALs, and the total estimated dose is 2.813 mrem/yr. The total dose for the construction worker scenario is equivalent to a total risk of 2×10^{-6}, based on conversion from dose using RESRAD, Version 7.0 (Attachment F-5).

Residential Scenario

The total excess chemical cancer risk for the residential scenario is 7×10^{-6}, which is less than the NMED target risk level of 1×10^{-5}. The residential HI is 0.5, which is less than the NMED target HI of 1. Radionuclide EPCs were less than SALs, and the total estimated dose is 10.24 mrem/yr. The total radiological dose for the residential scenario is equivalent to a total risk of 3×10^{-5}, based on conversion from dose using RESRAD, Version 7.0 (Attachment F-5).

Vapor Intrusion

Some VOCs were detected, and buildings may be constructed on-site in the future. Therefore, the future vapor-intrusion pathway is potentially complete based upon NMED guidance (NMED 2022, 702484). However, multiple lines of evidence indicate that no further evaluation is necessary.

F-4.6.2 Tract A-16-a

Industrial Scenario

The total excess chemical cancer risk for the industrial scenario is 1×10^{-7}, which is less than the NMED target risk level of 1×10^{-5}. The industrial HI is 0.008, which is less than the NMED target HI of 1. Radionuclide EPCs were less than SALs, and the total estimated dose is 6.5 mrem/yr. The total dose for the industrial scenario is equivalent to a total risk 2×10^{-5}, based on conversion from dose using RESRAD Version 7.0, (Attachment F-5).

Recreational Scenario

The total excess chemical cancer risk for the recreational scenario is 1×10^{-7}, which is less than the NMED target risk level of 1×10^{-5}. The recreational HI is 0.02, which is less than the NMED target HI of 1. Radionuclide EPCs were less than SALs, and the total estimated dose is 6.46 mrem/yr. The total radiological dose for the recreational scenario is equivalent to a total risk of 3×10^{-6}, based on conversion from dose using RESRAD, Version 7.0 (Attachment F-5).

Construction Worker Scenario

The total excess chemical cancer risk for the construction worker scenario is 3×10^{-7}, which is less than the NMED target risk level of 1×10^{-5}. The construction worker HI is 0.4, which is less than the NMED target HI of 1. Radionuclide EPCs were less than SALs, and the total estimated dose is 10.13 mrem/yr. The total dose for the construction worker scenario is equivalent to a total risk of 4×10^{-6}, based on conversion from dose using RESRAD, Version 7.0 (Attachment F-5).

Residential Scenario

The total excess chemical cancer risk for the residential scenario is 5×10^{-6}, which is less than the NMED target risk level of 1×10^{-5}. The residential HI is 0.4, which is less than the NMED target HI of 1. Radionuclide EPCs were less than SALs, and the total estimated dose is 18.34 mrem/yr. The total radiological dose for the residential scenario is equivalent to a total risk of 1×10^{-4}, based on conversion from dose using RESRAD, Version 7.0 (Attachment F-5).

Lead

Lead was identified as a COPC for the industrial, recreational, construction worker, and residential scenarios. The back-calculated SSL from NMED for lead was used for the industrial, recreational, construction worker, and residential scenarios (NMED 2022, 702484). The industrial lead HQ was 0.03, the recreational lead HQ was 0.02, the construction worker lead HQ was 0.02, and the residential lead HQ was 0.04.

Vapor Intrusion

Some VOCs were detected, and buildings may be constructed on-site in the future. Therefore, the future vapor-intrusion pathway is potentially complete based upon NMED guidance (NMED 2022, 702484). However, multiple lines of evidence indicate that no further evaluation is necessary.

F-4.6.3 Middle DP Road Site

Industrial Scenario

The total excess chemical cancer risk for the industrial scenario is 2×10^{-7}, which is less than the NMED target risk level of 1×10^{-5}. The industrial HI is 0.007, which is less than the NMED target HI of 1. Radionuclide EPCs were less than SALs, and the total estimated dose is 6.49 mrem/yr. The total dose for the industrial scenario is equivalent to a total risk of 2×10^{-5}, based on conversion from dose using RESRAD, Version 7.0 (Attachment F-5).

Recreational Scenario

The total excess chemical cancer risk for the recreational scenario is 1×10^{-7}, which is less than the NMED target risk level of 1×10^{-5}. The recreational HI is 0.02, which is less than the NMED target HI of 1. Radionuclide EPCs were less than SALs, and the total estimated dose is 6.46 mrem/yr. The total radiological dose for the recreational scenario is equivalent to a total risk of 3×10^{-6}, based on conversion from dose using RESRAD, Version 7.0 (Attachment F-5).

Construction Worker Scenario

The total excess chemical cancer risk for the construction worker scenario is 3×10^{-7}, which is less than the NMED target risk level of 1×10^{-5}. The construction worker HI is 0.4, which is less than the NMED target HI of 1. Radionuclide EPCs were less than SALs, and the total estimated dose is 10.15 mrem/yr. The total dose for the construction worker scenario is equivalent to a total cancer risk of 4×10^{-6}, based on conversion from dose using RESRAD Version 7.0 (Attachment F-5).

Residential Scenario

The total excess chemical cancer risk for the residential scenario is 5×10^{-6}, which is less than the NMED target risk level of 1×10^{-5}. The residential HI is 0.4, which is less than the NMED target HI of 1. Radionuclide EPCs were less than SALs, and the total estimated dose is 18.36 mrem/yr. The total radiological dose for the residential scenario is equivalent to a total risk of 1×10^{-4}, based on conversion from dose using RESRAD, Version 7.0 (Attachment F-5).

Lead

Lead was identified as a COPC for the industrial, recreational, construction worker, and residential scenarios. The back-calculated SSL from NMED for lead was used for the industrial, recreational, construction worker, and residential scenarios (NMED 2022, 702484). The industrial lead HQ was 0.02, the recreational lead HQ was 0.02, the construction worker lead HQ was 0.02, and the residential lead HQ was 0.04.

Vapor Intrusion

Some VOCs were detected, and buildings may be constructed on-site in the future. Therefore, the future vapor-intrusion pathway is potentially complete based upon NMED guidance (NMED 2022, 702484). However, multiple lines of evidence indicate that no further evaluation is necessary.

F-5.0 ECOLOGICAL RISK-SCREENING EVALUATIONS

The approach for conducting ecological evaluations is described in the "Screening Level Ecological Risk Assessment Methods, Revision 5.1" (LANL 2018, 602965). The evaluation consists of four parts: a scoping evaluation, a screening evaluation, an uncertainty analysis, and an interpretation of the results.

F-5.1 Scoping Evaluation

The scoping evaluation establishes the breadth and focus of the screening evaluation. The ecological scoping checklist (Attachment F-6) is a useful tool for organizing existing ecological information. The information was used to determine whether ecological receptors might be affected, identify the types of receptors that might be present, and develop the ecological conceptual site model for the MDPR site (Attachment F-6). The quality of the habitat on tracts A-8-a, A-16-a, and MDPR site is not suitable for ecological receptors; however, these tracts are intended for development. The area around the MDPR site is developed and provides minimal potential habitat for ecological receptors.

The scoping evaluation indicated that terrestrial receptors were appropriate for evaluating the concentrations of COPCs in soil and tuff. Exposure is assessed across a site to a depth of 0 to 6 ft bgs. Aquatic receptors were not evaluated because no aquatic communities and no aquatic habitat or perennial source of water exist at any of the sites. The depth of the regional aquifer (greater than 1000 ft bgs) and the semiarid climate limit transport to groundwater. The potential exposure pathways for terrestrial receptors in soil and tuff are root uptake, inhalation, soil ingestion, dermal contact, and food web transport (Attachment F-6). The weathering of tuff is the only viable natural process that may result in the exposure of receptors to contaminants in tuff. Because of the slow rate of weathering expected for tuff, exposure in tuff is negligible, although it is included in the assessment. Plant exposure in tuff is largely limited to fractures near the surface, which does not produce sufficient biomass to support an herbivore population. Consequently, the contaminants in tuff are unavailable to receptors.

The potential risk was evaluated in the risk-screening assessments for the following ecological receptors representing several trophic levels:

- generic plant
- soil-dwelling invertebrate (represented by the earthworm)
- the deer mouse (mammalian omnivore)
- the montane shrew (mammalian insectivore)
- mountain cottontail (mammalian herbivore)
- gray fox (mammalian carnivore)
- American robin (avian insectivore, avian omnivore, and avian herbivore)
- American kestrel (avian insectivore and avian carnivore)

The rationale for using these receptors is presented in “Screening Level Ecological Risk Assessment Methods, Revision 5.1” (LANL 2018, 602965). No T&E species nesting habitat is present at the MDPR site. However, the area is within the foraging range of the Mexican spotted owl (Attachment F-6).

F-5.2 Assessment Endpoints

An assessment endpoint is an explicit expression of the environmental value to be protected. The endpoints are ecologically relevant and help sustain the natural structure, function, and biodiversity of an ecosystem or its components (EPA 1998, 062809). In a screening-level ecological evaluation, receptors represent the populations and/or communities, and assessment endpoints are any adverse effects on the chosen ecological receptors. The purpose of the ecological evaluation is to protect populations and communities of biota rather than individual organisms, except for listed or candidate T&E species and treaty-protected species, when individuals must be protected (EPA 1999, 070086). Populations of protected species tend to be small, and the loss of an individual adversely affects the species as a whole (EPA 1997, 059370).

In accordance with this guidance, the Laboratory developed generic assessment endpoints (LANL 1999, 064137) to ensure that values at all levels of ecological organization are considered in the ecological screening process. These general assessment endpoints can be measured using impacts on reproduction, growth, and survival to represent categories of effects that may adversely impact populations. In addition, specific receptor species were chosen to represent each functional group. The receptor species were chosen because of their presence at the site, their sensitivity to the COPCs, and their potential for exposure to those COPCs. These categories of effects and the chosen receptor species were used to select the types of effects seen in toxicity studies considered in the development of the toxicity reference values (TRVs). Toxicity studies used in the development of TRVs included only studies in which the adverse effect evaluated affected reproduction, survival, and/or growth.

The selection of receptors and assessment endpoints is designed to be protective of both the representative species used as screening receptors and the other species within their feeding guilds and the overall food web for the terrestrial and aquatic ecosystems. Focusing the assessment endpoints on the general characteristics of species that affect populations (rather than the biochemical and behavioral changes that may affect only the studied species) also ensures the applicability to the ecosystem of concern.

F-5.3 Ecological Risk Screening Evaluation

The ecological screening evaluation identifies chemicals of potential ecological concern (COPECs) and is based on the comparison of EPCs (95% UCLs, maximum detected concentrations, or maximum detection limits) with ecological screening levels (ESLs). The EPCs used in the assessments for tract A-8-a, A-16-a, and MDPR site are presented in Tables F-2.3-3, F-2.3-6, and F-2.3-9, respectively.

The ESLs were obtained from the ECORISK Database, Version 4.3 (N3B 2022, 702057) and are presented in Table F-5.3-1. The ESLs are based on similar species of the test population derived from a variety of toxicity studies and converted to a NOAEL. Lowest observed adverse-effect level– (LOAEL-) based-ESLs are used in the uncertainty analysis for the ecological screening. Information relevant to the calculation of NOAEL-based ESLs and LOAEL-based ESLs, including concentration equations, dose equations, bioconcentration factors, transfer factors, and TRVs, are presented in the ECORISK Database, Version 4.3 (N3B 2022, 702057).

The screening evaluation begins with calculating an HQ by dividing the EPC by the minimum ESL for a given COPC. HQs greater than 0.3 in the minimum ESL table are used to identify COPECs requiring additional evaluation (N3B 2022, 702057). Once COPECs are identified, the next step is performed to determine receptors potentially at risk by calculating ratio of the COPEC-specific EPC to receptor-specific NOAEL-based ESLs (receptor HQ). Individual NOAEL-based HQs for a receptor are then summed to derive an HI for each ecological receptor. An HI greater than 1 indicates that further assessment is needed for that receptor. Consistent with COPEC identification, the HQ values greater than 0.3 are highlighted in the receptor HQ-HI tables. All COPECs are further evaluated for all receptors in uncertainty analysis section F-5.4.5 using population area use factor– (PAUF-) adjusted NOAEL-based ESLs. Only wildlife have population adjustments because home range (HR) information is available for these receptors. To clarify which receptors require additional evaluation, the HQs greater than 0.1 and the HIs greater than 1 are highlighted in the PAUF-adjusted HI tables. COPCs without NOAEL-based ESLs are retained as COPECs and discussed further in section F-5.4.8. The HQ and HI analysis is a conservative indication of potential adverse effects and is designed to minimize the potential of overlooking possible COPECs at the site.

F-5.3.1 Tract A-8-a

The results of the minimum ESL comparisons are presented in Table F-5.3-2. Arsenic, mercury, selenium, Aroclor-1254, bis(2-ethylhexyl)phthalate, di-n-butylphthalate, and TCDD TEQ were retained as COPECs because the HQs was greater than 0.3.

Nitrate, nitrite, 4-nitrophenol, 1,2,4-trimethylbenzene, and 1-methylnaphthalene do not have ESLs, are retained as COPECs, and are discussed in the uncertainty section (section F-5.4). Calcium is only evaluated for human health risk.

HQs and HIs for these COPEC and receptor combinations are presented in Table F-5.3-3. The HI analysis indicates that the American kestrel (intermediate carnivore), American robin (all feeding guilds), montane shrew, deer mouse, and generic plant have HIs greater than 1. The COPECs and receptors are discussed in the uncertainty section (section F-5.4).

F-5.3.2 Tract A-16-a

The results of the minimum ESL comparisons are presented in Table F-5.3-4. Arsenic, barium, chromium, copper, cyanide (total), lead, mercury, nickel, selenium, zinc, Aroclor-1254, bis(2-ethylhexyl)phthalate, di-n-butylphthalate, and TCDD TEQ were retained as COPECs because their HQs were greater than 0.3.

Acetonitrile; aluminum; 2-chloronaphthalene; 1,4-dioxane; 4-isopropyltoluene; 1-methylnaphthalene; nitrate; nitrite; 1,2,4-trimethylbenzene; and 1,2-xylene do not have ESLs, are retained as COPECs, and are discussed in the uncertainty section (section F-5.4). Calcium is only evaluated for human health risk.

HQs and HIs for these COPEC and receptor combinations are presented in Table F-5.3-5. The HI analysis indicates that the American kestrel (intermediate carnivore), American robin (all feeding guilds), montane shrew, deer mouse, earthworm, and generic plant have HIs greater than 1. The COPECs and receptors are discussed in the uncertainty section (section F-5.4).

F-5.3.3 Middle DP Road Site

The results of the minimum ESL comparisons are presented in Table F-5.3-6. Arsenic, barium, chromium, copper, cyanide (total), lead, mercury, nickel, selenium, zinc, bis(2-ethylhexyl)phthalate, di-n-butylphthalate, and TCDD TEQ were retained as COPECs because their HQs were greater than 0.3.

Acetonitrile, aluminum, 2-chloronaphthalene, 1,4-dioxane, 4-isopropyltoluene, 1-methylnaphthalene, nitrate, nitrite, 4-nitrophenol, 1,2,4-trimethylbenzene, and 1,2-xylene do not have ESLs, are retained as COPECs, and are discussed in the uncertainty section (section F-5.4). Calcium is only evaluated for human health risk.

HQs and HIs for these COPEC and receptor combinations are presented in Table F-5.3-7. The HI analysis indicates that the American kestrel (intermediate carnivore), American robin (all feeding guilds), montane shrew, deer mouse, earthworm, and generic plant have HIs greater than 1. The COPECs and receptors are discussed in the uncertainty section (section F-5.4).

F-5.4 Uncertainty Analysis

The uncertainty analysis describes the key sources of uncertainty related to the screening evaluations. This analysis can result in either adding or removing chemicals from the list of COPECs for sites. The following narrative contains a qualitative uncertainty analysis of the issues relevant to evaluating the potential ecological risk at tracts A-8-a and A-16-a and the MDPR site.

F-5.4.1 Chemical Form

The assumptions used in the ESL derivations were conservative and not necessarily representative of actual conditions. These assumptions include maximum chemical bioavailability, maximum receptor ingestion rates, minimum bodyweight, and additive effects of multiple COPECs. Most of these factors tend to result in conservative estimates of the ESLs, which may lead to an overestimation of the potential risk. The assumption of additive effects for multiple COPECs may result in an over- or underestimation of the potential risk to receptors.

The chemical form of the individual COPECs was not determined as part of the investigation, largely a limitation on analytical quantitation of individual chemical species. Toxicological data are typically based on the most toxic and bioavailable chemical species not likely found in the environment. The inorganic, organic, and radionuclide COPECs are generally not 100% bioavailable to receptors in the natural environment because of the adsorption of chemical constituents to matrix surfaces (e.g., soil) or rapid oxidation or reduction changes that render harmful chemical forms unavailable to biotic processes. The ESLs were calculated to ensure a conservative indication of potential risk (LANL 2018, 602965), and the values were biased toward overestimating the potential risk to receptors.

F-5.4.2 Exposure Assumptions

The EPCs used in the calculations of HQs were the 95% UCL, the maximum detected concentration, or the maximum detection limit to a depth of 6.0 ft, thereby conservatively estimating the exposure to each COPEC. As a result, the exposure of individuals within a population was evaluated using this specific concentration, which was assumed constant throughout the exposure area. The sampling also focused on areas of known contamination, and receptors were assumed to ingest 100% of their food and spend 100% of their time at the site. The assumptions made regarding exposure for terrestrial receptors result in an overestimation of the potential exposure and risk because COPECs varied across the site and were infrequently detected.

F-5.4.3 Toxicity Values

The HQs were calculated using ESLs, which are based on NOAELs as threshold effect levels. Actual risk for a given COPEC/receptor combination occurs at a higher level, somewhere between the NOAEL-based threshold and the threshold based on the LOAEL. The use of NOAELs leads to an overestimation of potential risk to ecological receptors. ESLs are based on laboratory studies requiring extrapolation to wildlife receptors. Laboratory studies are typically based on “artificial” and maintained populations with genetically similar individuals and are limited to single chemical exposures in isolated and controlled conditions using a single exposure pathway. Wild species are concomitantly exposed to a variety of chemical and environmental stressors, potentially rendering them more susceptible to chemical stress. On the other hand, wild populations are likely more genetically diverse than Laboratory populations, making wild populations, as a whole, less sensitive to chemical exposure than Laboratory populations. The uncertainties associated with the ESLs may result in an under- or overestimation of potential risk. In addition, ESLs are based on the use of ecological receptor model parameters that produce the most conservative estimate for the ESL. In order to bound the risk with a central tendency comparison value, a comparison to LANL ecological preliminary remediation goals (Eco-PRGs) is included in the site discussions (section F-5.4.7). The Eco-PRGs are reported in the ECORISK Database Release 4.3 (N3B 2022, 702057) and the methodology for their development is outlined in “Development of Ecological Preliminary Remediation Goals for Los Alamos National Laboratory, Revision 1.1” (LANL 2018, 602891).

F-5.4.4 Area Use Factors

In addition to the direct comparison of the EPC with the ESLs, area use factors (AUFs) are used to account for the amount of time a receptor is likely to spend within the contaminated areas based on the size of the receptor’s HR. The AUF for individual organisms is calculated by dividing the size of the site by the HR for that receptor. Because T&E species must be assessed on an individual basis (EPA 1999, 070086), the AUF is used for the Mexican spotted owl. The HR for the Mexican spotted owl is 366 ha (EPA 1993, 059384). The site areas and AUFs for each site are presented in Table F-5.4-1.

The American kestrel (top carnivore) is used as the surrogate receptor for the Mexican spotted owl. None of the NOAEL-based HIs for the kestrel (top carnivore) were greater than 1. Therefore, there are no potential adverse impacts to the Mexican spotted owl at any of the sites.

F-5.4.5 Population Area Use Factors

Following the initial screening evaluation in section F-5.3, COPECs are further evaluated using PAUFs, which are described below, to ensure that exposure to multiple COPECs at a site will not lead to potential adverse impacts on a given receptor population. The PAUFs calculated for the NOAEL-based ESLs may also be used to adjust the LOAEL-based ESLs.

EPA guidance is to manage the ecological risk to populations rather than to individuals, with the exception of T&E species (EPA 1999, 070086). One approach to address the potential effects on populations at the MDPR sites is to estimate the spatial extent of the area inhabited by the local population that overlaps with the contaminated area. The population area for a receptor is based on the individual receptor HR and its dispersal distance. Bowman et al. (2002, 073475) estimate that the median dispersal distance for mammals is 7 times the linear dimension of the HR (i.e., the square root of the HR area). If only the dispersal distances for the mammals with HRs within the range of the screening receptors are used (Bowman et al. 2002, 073475), the median dispersal distance becomes 3.6 times the square root of the HR (R^2=0.91). If it is assumed that the receptors can disperse the same distance in any

direction, the population area is circular, and the dispersal distance is the radius of the circle. Therefore, the population area can be derived by $\pi(3.6\sqrt{HR})^2$ or approximately 40HR.

The PAUFs are calculated by dividing the site area by the population area of each receptor. The HQs are adjusted by multiplying by the PAUFs. HIs are recalculated using the PAUF-adjusted HQs. If the PAUF is above 1, the HQs are not adjusted for that receptor. The HQs for the generic plant and earthworm are not adjusted by PAUFs because these receptors do not have HRs. The adjusted HQs are summed for each receptor to calculate the adjusted HIs.

The HRs for the robin, deer mouse, shrew, mountain cottontail, and gray fox were determined using the data in EPA's wildlife exposure factors handbook (EPA 1993, 059384). The HRs were either for specific environments or averages of different environments presented in the respective exposure parameter/population dynamic tables (EPA 1993, 059384). LANL's "Screening-Level Ecological Risk Assessments Methods, Revision 5.1" (LANL 2018, 602965, Table 3.3-1) presents how the EPA data were used to derive the HRs for each receptor. The HRs were used to calculate the population areas for each receptor as described in the previous paragraph.

If the PAUF-adjusted HI for any receptor is greater than 1, then those receptors and any associated COPECs with HQs greater than 0.1 are further evaluated using a LOAEL-based ESL analysis and PAUF-adjusted LOAEL-based ESL analysis described in section F-5.4.6.

F-5.4.5.1 Tract A-8-a

The area of tract A-8-a is approximately 0.03251 ha. The PAUFs are estimated by dividing the site area by the population area of each receptor population (Table F-5.4-2). The HQs and HIs are recalculated using the PAUFs. The HIs for the generic plant and earthworm are not adjusted by PAUFs because these receptors do not have HRs.

The PAUF-adjusted HI analysis using NOAEL-based ESLs yielded HIs less than or equal to 1 for all receptors (Table F-5.4-3). The generic plant had an unadjusted NOAEL-based HI of 3 (Table F-5.4-3).

F-5.4.5.2 Tract A-16-a

The area of tract A-16-a is approximately 0.211986 ha. The PAUFs are estimated by dividing the site area by the population area of each receptor population (Table F-5.4-4). The HQs and HIs are recalculated using the PAUFs. The HIs for the generic plant and earthworm are not adjusted by PAUFs because these receptors do not have HRs.

The PAUF-adjusted HI analysis using NOAEL-based ESLs yielded HIs less than or equal to 1 for all receptors (Table F-5.4-5). The earthworm had an unadjusted NOAEL-based HI of 4 and the generic plant had an unadjusted NOAEL-based HI of 7 (Table F-5.4-5).

F-5.4.5.3 Middle DP Road Site

The area of the MDPR site is approximately 0.358906 ha. The PAUFs are estimated by dividing the site area by the population area of each receptor population (Table F-5.4-6). The HQs and HIs are recalculated using the PAUFs. The HIs for the generic plant and earthworm are not adjusted by PAUFs because these receptors do not have HRs.

The PAUF-adjusted HI analysis using NOAEL-based ESLs yielded HIs less than or equal to 1 for all receptors (Table F-5.4-7). The earthworm had an unadjusted NOAEL-based HI of 4 and the generic plant had an unadjusted NOAEL-based HI of 6 (Table F-5.4-7).

F-5.4.6 LOAEL Analysis

A LOAEL-based ESL HQ-HI analysis was performed if the HQ-HI analysis using PAUF-adjusted NOAEL-based ESLs (section F-5.4.5) resulted in a receptor with an HI greater than 1 and a COPEC for the respective receptor had an HQ greater than 0.1. The LOAEL-based ESLs were used to address the HIs and reduce the associated uncertainty and conservativeness of the NOAEL ESLs used in the initial screening evaluations in section F-5.3. The LOAEL-based ESLs were calculated based on toxicity information in the ECORISK Database, Version 4.3 (N3B 2022, 702057) and are presented in Table F-5.4-8. First, LOAEL-based ESL receptor HQ-HI calculations were completed. Any HI values greater than 1 and any HQ values greater than 0.1 are highlighted in the HI analysis using LOAEL-based ESL tables. If one or more wildlife receptors are identified in the HI analysis using LOAEL-based ESL tables, then a final step involving population-adjusted HI values is completed. The results of the PAUF-adjusted LOAEL-based ESL HQ-HI analysis are presented in the adjusted HI analysis using LOAEL-based ESL tables, and HI values greater than 1 or any HQ values greater than 0.1 are highlighted. The PAUFs used for the LOAEL analyses are the same as those described in section F-5.4.5.

F-5.4.7 Site Discussions

F-5.4.7.1 Tract A-8-a

The HI using NOAEL-based ESLs for tract A-8-a is greater than 1 for the generic plant with arsenic and selenium being the primary COPECs (Table F-5.4-3). Ecological risk screening based on the LOAEL HI shows no unacceptable risk to any relevant ecological receptors (Table F-5.4-9). Some VOCs were detected in soil; however, concentrations were well below ESLs for burrowing mammals represented by the Botta's pocket gopher.

F-5.4.7.2 Tract A-16-a

The HI using NOAEL-based ESLs for tract A-16-a is greater than 1 for the earthworm and generic plant, with arsenic, barium, copper, lead, mercury, nickel, selenium, and zinc being the primary COPECs (Table F-5.4-5). The HI analysis using LOAEL-based ESLs shows no unacceptable risk to any relevant ecological receptors (Table F-5.4-10). Some VOCs were detected in soil; however, concentrations were well below ESLs for burrowing mammals represented by the Botta's pocket gopher.

F-5.4.7.3 Middle DP Road Site

The HI NOAEL-based ESLs for the MDPR site is greater than 1 for earthworm and generic plant, with arsenic, barium, copper, lead, mercury, nickel, selenium, and zinc being the primary COPECs (Table F-5.4-7). The HI analysis using LOAEL-based ESLs shows no unacceptable risk to any relevant ecological receptors (Table F-5.4-11). Some VOCs were detected in soil; however, concentrations were well below ESLs for burrowing mammals represented by the Botta's pocket gopher.

F-5.4.8 Chemicals without ESLs

Several COPECs do not have ESLs for any receptor in Version 4.3 of the ECORISK Database (N3B 2022, 702057). In an effort to address this uncertainty and to provide a quantitative assessment of potential ecological risk, several online toxicity database searches were conducted to determine if any relevant toxicity information is available. The online searches included EPA Ecotox Database, EPA Office of Pesticide Programs Aquatic Life Benchmarks, U.S. Army Corps of Engineers/EPA Environmental Residue-Effects, California Cal/Ecotox Database, Pesticide Action Network Pesticide Database, U.S. Army Wildlife Toxicity Assessment Program, U.S. Department of Agriculture Integrated Pesticide Management Database, American Bird Conservancy Pesticide Toxicity Database, and Oak Ridge National Laboratory Risk Assessment Information System. Some COPECs without ESLs do not have chemical-specific toxicity data or surrogate chemicals to be used in the screening assessments and cannot be assessed quantitatively for potential ecological risk.

Toxicity data are not available for acetonitrile; aluminum; calcium; 2-chloronaphthalene; 1,4-dioxane; 4-isopropyltoluene; 1-methylnaphthalene; nitrate; nitrite; 4-nitrophenol; 1,2,4-trimethylbenzene; and 1,2-xylene. For nitrate, no surrogate or other toxicity information is available. For acetonitrile; 2-chloronaphthalene; 4-isopropyltoluene; 1-methylnaphthalene; 4-nitrophenol; 1,2,4-trimethylbenzene; and 1,2-xylene surrogates based on structural similarity were used to evaluate the potential toxicity.

Acetonitrile was identified as a COPC from 0.0 to 6.0 ft bgs at tract A-16-a and MDPR site and was detected in one sample at a concentration of 0.0108 mg/kg. The minimum ESL for cyanide (total) [0.098 mg/kg for the American robin (insectivore)] is used to screen acetonitrile based upon its structural similarity. The single detected concentration yields an HQ of 0.11. Because the HQ is less than 0.3 based upon a single detection, acetonitrile is eliminated as a COPEC.

Aluminum was identified as a COPC from 0.0 to 6.0 ft bgs at tract A-16-a and MDPR site with a maximum concentration of 25,500 mg/kg. The NMED residential SSL for aluminum is 78,000 mg/kg, indicating that potential toxicity is low. EPA recommends that aluminum be identified as a COPC only at sites where the soil pH is less than 5.5, and the soil pH at LANL is greater than 5.5; therefore, aluminum is eliminated as a COPEC (https://www.epa.gov/sites/default/files/2015-09/documents/eco-ssl_aluminum.pdf).

Calcium was identified as a COPC from 0.0 to 6.0 ft bgs at tract A-8-a, tract A-16-a, and MDPR site with a maximum concentration of 19,400 mg/kg. As presented in Table F-4.4-2, concentrations of calcium are substantially less than the NMED essential nutrient SSLs. Calcium is only evaluated for human health risk and is eliminated as a COPEC.

Chloronaphthalene[2-] was identified as a COPC from 0.0 to 6.0 ft bgs at tract A-16-a and MDPR site and was detected in five samples with a maximum concentration of 0.00489 mg/kg. The minimum ESL for naphthalene (1 mg/kg for the generic plant) is used to screen the 2-chloronaphthalene concentration and yields a maximum HQ of 0.00489. Because the maximum HQ is less than 0.3, 2-chloronaphthalene is eliminated as a COPEC.

Dioxane[1,4-] was identified as a COPC from 0.0 to 6.0 ft bgs at tract A-16-a and MDPR site and was detected in three samples with a maximum concentration of 0.42 mg/kg. The NMED residential SSL for 1,4-dioxane is 53.3 mg/kg, indicating that potential toxicity is low. Because 1,4-dioxane was only detected in three samples at low concentrations and the potential toxicity is low, 1,4-dioxane is eliminated as a COPEC.

Isopropyltoluene[4-] was identified as a COPC from 0.0 to 6.0 ft bgs at tract A-16-a and MDPR site and was detected in four samples with a maximum detection of 0.00222 mg/kg. Because neither 4-isopropyltoluene nor isopropylbenzene (human health surrogate) have ESLs, toluene is used as a surrogate based upon structural similarity. The minimum ESL for toluene (23 mg/kg for the shrew) is used to screen 4-isopropyltoluene and results in a maximum HQ of 0.0001. Because the maximum HQ is less than 0.3, 4-isopropyltoluene is eliminated as a COPEC.

Methylnaphthalene[1-] was identified as a COPC from 0.0 to 6.0 ft bgs at tract A-16-a and MDPR site and was detected with a maximum concentration of 0.784 mg/kg. Based on its structural similarity, 2-methylnaphthalene is used as a surrogate. The minimum ESL for 2-methylnaphthalene (16 mg/kg for shrew) is used to screen 1-methylnaphthalene and yields a maximum HQ of 0.049. Because the maximum HQ is less than 0.3, 1-methylnaphthalene is eliminated as a COPEC.

Nitrate was identified as a COPC from 0.0 to 6.0 ft bgs at tract A-8-a, tract A-16-a, and MDPR site, with a maximum concentration of 35.3 mg/kg. The NMED residential SSL for nitrate is 125,000 mg/kg, indicating that potential toxicity is very low. Because nitrate is infrequently detected at elevated concentrations and the potential toxicity is low, nitrate is eliminated as a COPEC.

Nitrite was identified as a COPC from 0.0 to 6.0 ft bgs at tract A-8-a, tract A-16-a, and MDPR site with a maximum concentration of 2.42 mg/kg. The NMED residential SSL for nitrite is 7820 mg/kg, indicating that potential toxicity is very low. Because nitrite is infrequently detected at elevated concentrations and the potential toxicity is low, nitrite is eliminated as a COPEC.

Nitrophenol[4-] was identified as a COPC from 0.0 to 6.0 ft bgs at tract A-8-a and MDPR site and was detected in one sample with a maximum concentration of 0.158 mg/kg. The minimum ESL for phenol (0.79 mg/kg for the American robin [herbivore]) is used to screen 4-nitrophenol based upon its structural similarity. The single detected concentration yields an HQ of 0.2. Because the HQ is less than 0.3 based upon a single detection, 4-nitrophenol is eliminated as a COPEC.

Trimethylbenzene[1,2,4-] was identified as a COPC from 0.0 to 6.0 ft bgs at tract A-8-a, tract A-16-a, and MDPR site and was detected in two samples with a maximum concentration of 0.00564 mg/kg. The minimum ESL for benzene (24 mg/kg for the deer mouse) is used to screen 1,2,4-trimethylbenzene and yields a maximum HQ of 0.000235. Because the maximum HQ is less than 0.3, 1,2,4-trimethylbenzene is eliminated as a COPEC.

Xylene[1,2-] was identified as a COPC from 0.0 to 6.0 ft bgs at tract A-16-a and MDPR site and was detected in 3 samples with a maximum concentration of 0.000445 mg/kg. The minimum ESL for total xylene (1.4 mg/kg for the shrew) is used to screen 1,2-xylene and yields a maximum HQ of 0.0003. Because the maximum HQ is less than 0.3, 1,2-xylene is eliminated as a COPEC.

F-5.5 Interpretation of Ecological Risk-Screening Results

F-5.5.1 Receptor Lines of Evidence

Based on the ecological risk-screening assessments, several COPECs (including COPECs without an ESL) were identified for tracts A-8-a and A-16-a and the MDPR site. Receptors were evaluated using several lines of evidence: minimum ESL comparisons, HI analyses, potential effects to populations (individuals for T&E species), LOAEL analyses, and the relationship of detected concentrations and detection limits to background concentrations.

Generic plant

The following lines of evidence support the conclusion that no potential ecological risk to the generic plant exists.

- Initial screening using the minimum ESLs eliminated a number of COPECs because the HQs for all of the receptors, including the generic plant, were less than 0.3.
- The HI analyses using the NOAEL-based ESLs yielded HIs greater than 1 for the generic plant at both tracts and the MDPR site.
- The HI analyses using the LOAEL-based ESLs yielded HIs less than 1 for both tracts and the MDPR site.

Earthworm (Invertebrate)

The following lines of evidence support the conclusion that no potential ecological risk to the earthworm exists.

- Initial screening using the minimum ESLs eliminated a number of COPECs because the HQs for all of the receptors, including the earthworm, were less than 0.3.
- The HI analyses using the NOAEL-based ESLs yielded HIs greater than 1 for the earthworm at tract A-16-a and the MDPR site.
- The HI analyses using the LOAEL-based ESLs yielded HIs less than or equivalent to 1 for tract A-16-a and the MDPR site.

F-5.5.2 COPECs with No ESLs

COPECs without ESLs were eliminated based on comparisons with surrogate ESLs or human health SSLs. The analysis of COPECs without ESLs supports the conclusion that no potential ecological risk to receptors exists at tract A-8-a, tract A-16-a, and the MDPR site.

F-5.5.3 Summary

Based on evaluations of the minimum ESLs, HI analyses, potential effects to populations (individuals for T&E species), LOAEL analyses, multiple lines of evidence, and COPECs without ESLs, no potential ecological risks to the Mexican spotted owl, earthworm, generic plant, American robin, American kestrel, deer mouse, montane shrew, mountain cottontail, or gray fox exist for tract A-8-a, tract A-16-a, and the MDPR site.

F-6.0 CONCLUSIONS

F-6.1 Human Health Risk

For the industrial, recreational, construction worker, and residential scenarios, tracts A-8-a and A-16-a and the MDPR site had total excess cancer risks less than the NMED target risk of 1×10^{-5}, HIs less than the target of 1, and estimated doses below the target of 25 mrem/yr.

Lead was identified as a COPC at tract A-16-a and the MDPR site. Protective soil concentrations for the industrial, recreational, construction worker, and residential scenarios were not exceeded.

Volatile organic COPCS or VOCs were detected, and buildings may be constructed; therefore, the vapor-intrusion pathway is potentially complete for this site. However, no further action is recommended based on multiple lines of evidence.

The radionuclide EPCs were less than SALs, and the total estimated dose is less than 25 mrem/yr for the industrial, recreational, construction worker, and residential scenarios at all areas.

The total doses were equivalent to total excess radiological risks of 9×10^{-9} to 1×10^{-6} for the industrial scenario, 3×10^{-9} to 2×10^{-7} for the recreational scenario, 2×10^{-6} to 6×10^{-6} for the construction worker scenario, and from 3×10^{-5} to 4×10^{-5} for the residential scenario, based on conversion from dose using RESRAD Version 7.0.

The MDPR Site is accessible to the public and has been released by DOE. Therefore, an ALARA (as low as reasonably achievable) evaluation for radiological exposure to the public has been performed by DOE under DOE Order 458.1

F-6.2 Ecological Risk

Based on evaluations of the minimum ESLs, HI analyses, LOAEL analyses, and COPECs without ESLs, no potential ecological risks to the Mexican spotted owl, gray fox, American kestrel, American robin, mountain cottontail, montane shrew, deer mouse, earthworm, or generic plant exist at the MDPR Site.

F-7.0 REFERENCES

The following reference list includes documents cited in this appendix. Parenthetical information following each reference provides the author(s), publication date, and ERID, ESHID, or EMID. ERIDs were assigned by the Laboratory's Associate Directorate for Environmental Management (IDs through 599999); ESHIDs were assigned by the Laboratory's Associate Directorate for Environment, Safety, and Health (IDs 600000 through 699999); and EMIDs are assigned by N3B (IDs 700000 and above).

ATSDR (Agency for Toxic Substances and Disease Registry), 1997. ATSDR's Toxicology Profiles on CD-ROM. (ATSDR 1997, 056531)

Bowman, J., J.A.G. Jaeger, and L. Fahrig, 2002. "Dispersal Distance of Mammals is Proportional to Home Range Size," *Ecology,* Vol. 83, No. 7, pp. 2049-2055. (Bowman et al. 2002, 073475)

Dow, D., July 5, 1945. "New Disposal Pit for CM Division," Los Alamos Scientific Laboratory memorandum to G.R. Tyler from D. Dow, Los Alamos, New Mexico. (Dow 1945, 006713)

EPA (U.S. Environmental Protection Agency), December 1993. "Wildlife Exposure Factors Handbook," Vol. I of II, EPA/600/R-93/187a, Office of Research and Development, Washington, D.C. (EPA 1993, 059384)

EPA (U.S. Environmental Protection Agency), May 1996. "Soil Screening Guidance: Technical Background Document," EPA/540/R-95/128, Office of Solid Waste and Emergency Response, Washington, D.C. (EPA 1996, 059902)

EPA (U.S. Environmental Protection Agency), June 5, 1997. "Ecological Risk Assessment Guidance for Superfund: Process for Designing and Conducting Ecological Risk Assessments, Interim Final," Office of Emergency and Remedial Response, Washington, D.C. (EPA 1997, 059370)

EPA (U.S. Environmental Protection Agency), April 1998. "Guidelines for Ecological Risk Assessment," EPA/630/R-95/002F, Risk Assessment Forum, Washington, D.C. (EPA 1998, 062809)

EPA (U.S. Environmental Protection Agency), October 7, 1999. "Issuance of Final Guidance: Ecological Risk Assessment and Risk Management Principles for Superfund Sites," OSWER Directive No. 9285.7-28 P, Office of Solid Waste and Emergency Response, Washington, D.C. (EPA 1999, 070086)

EPA (U.S. Environmental Protection Agency), December 2002. "Calculating Upper Confidence Limits for Exposure Point Concentrations at Hazardous Waste Sites," OSWER Directive No. 9285.6-10, Office of Emergency and Remedial Response, Washington, D.C. (EPA 2002, 085640)

EPA (U.S. Environmental Protection Agency), September 2011. "Exposure Factors Handbook: 2011 Edition," EPA/600/R-09/052F, Office of Research and Development, Washington, D.C. (EPA 2011, 208374)

EPA (U.S. Environmental Protection Agency), June 2022. "ProUCL Version 5.2.0 User Guide," Statistical Software for Environmental Applications for Data Sets with and without Nondetect Observations, EPA/600/B-22/087, Office of Research and Development, Washington, D.C. (EPA 2022, 702275)

Kincaid, C.T., M.P. Bergeron, C.R. Cole, M.D. Freshley, N. Hassig, V.G. Johnson, D.I. Kaplan, R.J. Serne, G.P. Steile, D.L. Strenge, P.D. Thorne, L.W. Vail, G.A. Whyatt, and S.K. Wurstner, March 1998. "Composite Analysis for Low-Level Waste Disposal in the 200 Area Plateau of the Hanford Site," Pacific Northwest Laboratory report PNNL-11800, Richland, Washington. (Kincaid et al. 1998, 093270)

LANL (Los Alamos National Laboratory), June 1999. "General Assessment Endpoints for Ecological Risk Assessment at Los Alamos National Laboratory," report prepared for Los Alamos National Laboratory, Los Alamos, New Mexico. (LANL 1999, 064137)

LANL (Los Alamos National Laboratory), October 2012. "Technical Approach for Calculating Recreational Soil Screening Levels for Chemicals, Revision 3," Los Alamos National Laboratory document LA-UR-12-25447, Los Alamos, New Mexico. (LANL 2012, 228733)

LANL (Los Alamos National Laboratory), September 2015. "Derivation and Use of Radionuclide Screening Action Levels, Revision 4," Los Alamos National Laboratory document LA-UR-15-24859, Los Alamos, New Mexico. (LANL 2015, 600929)

LANL (Los Alamos National Laboratory), April 2018. "Screening-Level Ecological Risk Assessment Methods, Revision 5.1," Los Alamos National Laboratory document LA-UR-18-22418, Los Alamos, New Mexico. (LANL 2018, 602965)

LANL (Los Alamos National Laboratory), February 2018. "Development of Ecological Preliminary Remediation Goals for Los Alamos National Laboratory, Revision 1.1," Los Alamos National Laboratory document LA-UR-18-20670, Los Alamos, New Mexico. (LANL 2018, 602891)

N3B (Newport News Nuclear BWXT-Los Alamos, LLC), October 2020. "Technical Approach for Calculating Recreational Soil Screening Levels for Chemicals, Revision 6," Newport News Nuclear BWXT-Los Alamos, LLC, document EM2020-0401, Los Alamos, New Mexico. (N3B 2020, 701072)

N3B (Newport News Nuclear BWXT-Los Alamos, LLC), March 2021. "Solid Waste Management Unit Assessment Work Plan for Middle DP Road Site, Revision 1," Newport News Nuclear BWXT-Los Alamos, LLC, document EM2021-0095, Los Alamos, New Mexico. (N3B 2021, 701344)

N3B (Newport News Nuclear BWXT-Los Alamos, LLC), September 2022. "ECORISK Database (Release 4.3)," on CD, Newport News Nuclear BWXT-Los Alamos, LLC, document EM2022-0358, Los Alamos, New Mexico. (N3B 2022, 702057)

Ney, R.E., 1995. Excerpted pages from *Fate and Transport of Organic Chemicals in the Environment: A Practical Guide*, 2nd Ed., Government Institutes, Inc., Rockville, Maryland. (Ney 1995, 058210)

NMED (New Mexico Environment Department), November 24, 2003. "LANL's Risk Reduction and Environmental Stewardship (RRES) Remediation Services Project Use of Surrogate Chemicals in Risk Assessments," New Mexico Environment Department letter to D. Gregory (DOE-LASO) and G.P. Nanos (LANL Director) from J.E. Kieling (NMED-HWB), Santa Fe, New Mexico. (NMED 2003, 081172)

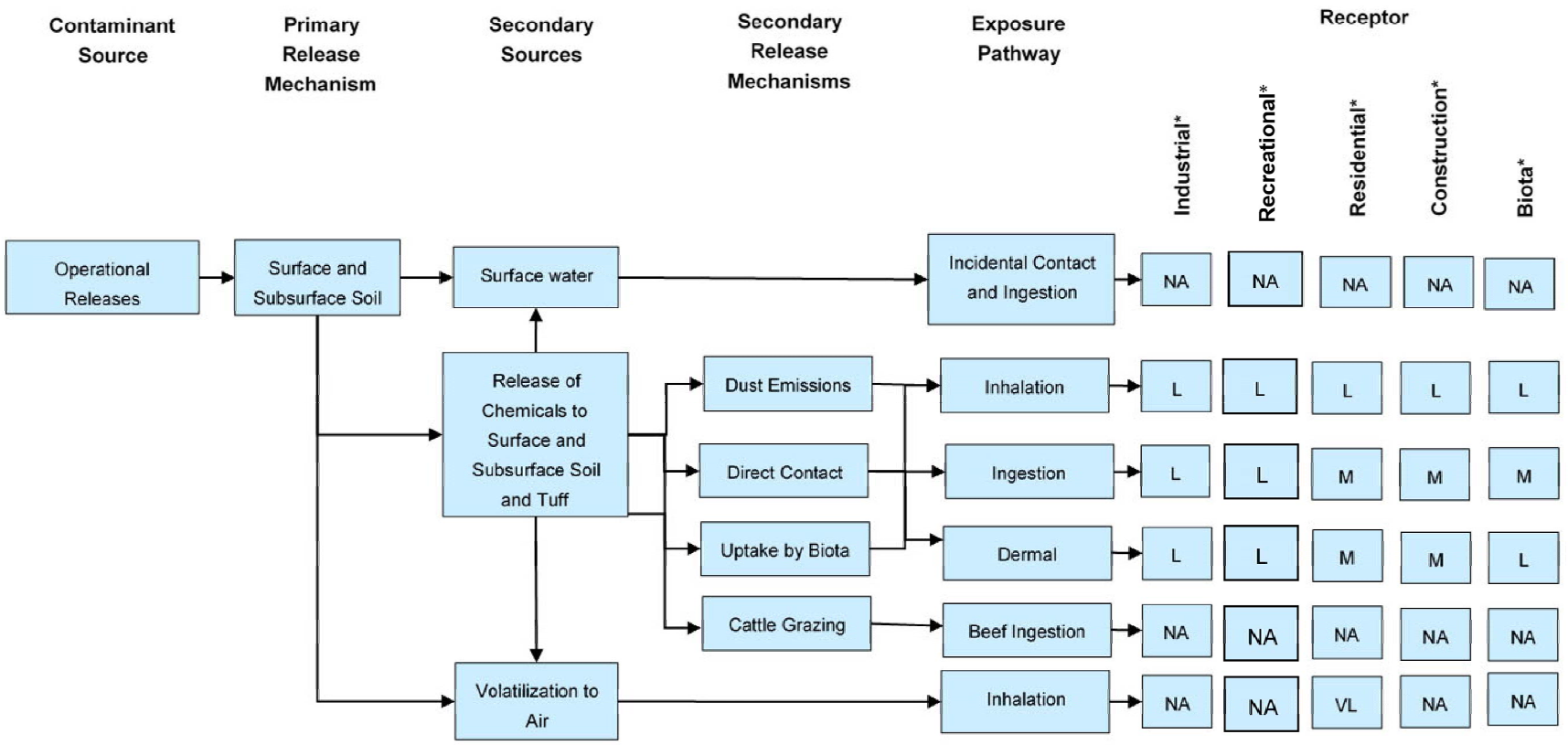
NMED (New Mexico Environment Department), March 2015. "Risk Assessment Guidance for Site Investigations and Remediation," Hazardous Waste Bureau and Ground Water Quality Bureau, Santa Fe, New Mexico. (NMED 2015, 600575)

NMED (New Mexico Environment Department), June 19, 2019. "Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Soil Screening Guidance for Human Health Risk Assessments," February 2019 (Revision 2, 6/19/19), Hazardous Waste Bureau and Ground Water Quality Bureau, Santa Fe, New Mexico. (NMED 2019, 700550)

NMED (New Mexico Environment Department), April 5, 2021. "Approval, Solid Waste Manangement [sic] Unit Assessment Work Plan for Middle DP Road Site, Revision 1," New Mexico Environment Department letter to A. Duran (EM-LA) from K. Pierard (NMED-HWB), Santa Fe, New Mexico. (NMED 2021, 701368)

NMED (New Mexico Environment Department), November 2022. "Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Soil Screening Guidance for Human Health Risk Assessments," Hazardous Waste Bureau and Ground Water Quality Bureau, Santa Fe, New Mexico. (NMED 2022, 702484)

Whicker, F., and V. Schultz, 1982. Excerpted pages from *Radioecology: Nuclear Energy and the Environment*, Vol. 1, CRC Press, Boca Raton, Florida. (Whicker and Schultz 1982, 058209)



* Very Low (VL), Low (L), and Moderate (M) designations indicate the pathway is a potentially complete pathway and is evaluated in the risk assessments.
Not Applicable (NA) indicates the pathway is incomplete and is not evaluated in the risk assessments.

Figure F-3.1-1 Conceptual site model for the MDPR site

Table F-2.3-1
EPCs at Tract A-8-a for the Industrial and Recreational Scenarios

COPC	Number of Analyses	Number of Detects	Minimum Concentration	Maximum Concentration	Distribution	EPC	EPC Method
Inorganic Chemicals (mg/kg)							
Antimony	35	6	0.294(U)	1.87(U)	Normal	0.401	95% KM (t)
Calcium[a]	35	35	2070	17,300	n/a[b]	17,300	Maximum Detected Concentration
Mercury	35	33	0.00744(U)	0.155	Nonparametric	0.026	95% KM (t)
Nitrate	35	35	0.981	16.1	Normal	9.328	95% Student's-t
Nitrite	35	1	0.3(U)	0.771	n/a	0.771	Maximum Detected Concentration
Perchlorate	35	28	0.000445	0.00317	Normal	0.00128	95% KM (t)
Selenium	35	35	0.406	2.6	Normal	1.211	95% Student's-t
Organic Chemicals (mg/kg)							
Acenaphthene	35	1	0.00116(U)	1.03(U)	n/a	0.036	Maximum Detected Concentration
Anthracene	35	4	0.00211	1.03(U)	n/a	0.122	Maximum Detected Concentration
Aroclor-1260	4	4	0.0191	0.141	n/a	0.141	Maximum Detected Concentration
Benzene	35	2	0.000314(U)	0.00128	n/a	0.00128	Maximum Detected Concentration
Benzo(a)anthracene	35	18	0.0108(U)	1.03(U)	Lognormal	0.0836	95% BCA Bootstrap
Benzo(a)pyrene	35	21	0.00808	1.03(U)	Lognormal	0.0736	95% BCA Bootstrap
Benzo(b)fluoranthene	35	26	0.0108(U)	1.03(U)	Lognormal	0.108	95% BCA Bootstrap
Benzo(g,h,i)perylene	35	16	0.00527	1.03(U)	Gamma	0.0355	95% Gamma Adjusted KM
Benzo(k)fluoranthene	35	6	0.00116(U)	1.03(U)	Gamma	0.0403	95% Gamma Adjusted KM
Bis(2-ethylhexyl)phthalate	35	2	0.0108(U)	1.03(U)	n/a	0.16	Maximum Detected Concentration
Chrysene	35	25	0.00843	1.03(U)	Gamma	0.0918	95% Gamma Adjusted KM
Di-n-butylphthalate	35	3	0.0126	1.03(U)	n/a	0.175	Maximum Detected Concentration
Fluoranthene	35	27	0.0108(U)	1.22	Lognormal	0.207	95% BCA Bootstrap
Indeno(1,2,3-cd)pyrene	35	10	0.00492	1.03(U)	Normal	0.0267	95% KM (t)
Methylene chloride	35	3	0.00157(U)	0.00392(U)	n/a	0.00306	Maximum Detected Concentration

Table F-2.3-1 (continued)

COPC	Number of Analyses	Number of Detects	Minimum Concentration	Maximum Concentration	Distribution	EPC	EPC Method
1-Methylnaphthalene	35	6	0.00562	1.03(U)	Gamma	0.0218	95% Gamma Adjusted KM
2-Methylnaphthalene	35	8	0.00584(U)	1.03(U)	Gamma	0.028	95% Gamma Adjusted KM
Naphthalene	35	6	0.000314(U)	0.0975	Lognormal	0.0143	95% BCA Bootstrap
Phenanthrene	35	18	0.00738	1.03(U)	Lognormal	0.134	95% BCA Bootstrap
Pyrene	35	27	0.0108(U)	1.03(U)	Lognormal	0.18	95% BCA Bootstrap
TCDD TEQ	4	4	1.74955e-07	8.561e-07	n/a	8.56E-07	Maximum Detected Concentration
Toluene	35	2	0.000314(U)	0.00243	n/a	0.00243	Maximum Detected Concentration
1,2,4-Trimethylbenzene	35	1	0.000314(U)	0.000253	n/a	0.000523	Maximum Detected Concentration
Radionuclides (pCi/g)							
Plutonium-239/240	35	13	0(U)	0.151	Normal	0.0438	95% KM (t)
Tritium	35	1	0(U)	127(UJ)	n/a	5.69	Maximum Detected Concentration

Note: Data qualifiers are defined in Appendix A.

[a] Essential nutrients use the maximum detected concentration as the EPC even if there are enough samples to compute a UCL.

[b] n/a = Not applicable.

Table F-2.3-2
EPCs at Tract A-8-a for the Residential and Construction Worker Scenarios

COPC	Number of Analyses	Number of Detects	Minimum Concentration	Maximum Concentration	Distribution	EPC	EPC Method
Inorganic Chemicals (mg/kg)							
Aluminum	108	108	1630	39,200	Nonparametric	13,584	95% Student's-t
Antimony	108	14	0.293(U)	1.87(U)	Normal	0.381	95% KM (t)
Arsenic	108	108	1.57	4.6	Gamma	2.832	95% Approximate Gamma
Barium	108	108	19.8	377	Nonparametric	112.4	95% Student's-t
Calcium[a]	108	108	420	17,300	n/a[b]	17,300	Maximum Detected Concentration
Chromium	108	108	2.15	21.7	Nonparametric	10.04	95% Student's-t
Copper	108	108	1.98	17	Normal	7.462	95% Student's-t
Mercury	108	93	1.23e-05	0.361	Nonparametric	0.0293	95% KM (t)
Nickel	108	108	3.46	20.1	Lognormal	8.277	95% H-UCL
Nitrate	108	106	0.294(U)	16.1	Nonparametric	5.754	95% KM (t)
Nitrite	108	1	0.294(U)	0.771	n/a	0.771	Maximum Detected Concentration
Perchlorate	108	96	0.000445	0.0261	Nonparametric	0.00461	95% KM (t)
Selenium	108	108	0.406	3.9	Lognormal	1.424	95% H-UCL
Organic Chemicals (mg/kg)							
Acenaphthene	108	2	0.0011(U)	1.03(U)	n/a	0.036	Maximum Detected Concentration
Acetone	108	1	0.00157(U)	0.201(U)	n/a	0.00238	Maximum Detected Concentration
Anthracene	108	7	0.0011(U)	1.03(U)	Normal	0.00666	95% KM (t)
Aroclor-1254	13	3	0.00116(U)	0.0536	n/a	0.0536	Maximum Detected Concentration
Aroclor-1260	13	12	0.00132	0.141	Normal	0.0573	95% KM (t)
Benzene	108	2	0.000314(U)	0.0402(U)	n/a	0.00128	Maximum Detected Concentration
Benzo(a)anthracene	108	35	0.0011(U)	1.03(U)	Lognormal	0.0322	95% BCA Bootstrap
Benzo(a)pyrene	108	39	0.0011(U)	1.03(U)	Lognormal	0.0292	95% BCA Bootstrap
Benzo(b)fluoranthene	108	52	0.0011(U)	1.03(U)	Gamma	0.0446	95% Approximate Gamma
Benzo(g,h,i)perylene	108	30	0.0011(U)	1.03(U)	Gamma	0.014	95% Approximate Gamma

Table F-2.3-2 (continued)

COPC	Number of Analyses	Number of Detects	Minimum Concentration	Maximum Concentration	Distribution	EPC	EPC Method
Benzo(k)fluoranthene	108	13	0.0011(U)	1.03(U)	Gamma	0.0134	95% Approximate Gamma
Bis(2-ethylhexyl)phthalate	108	10	0.00998(U)	1.03(U)	Normal	0.0292	95% KM (t)
2-Butanone	108	1	0.00157(U)	0.201(U)	n/a	0.00176	Maximum Detected Concentration
Butylbenzylphthalate	108	2	0.00998(U)	3.63	n/a	3.63	Maximum Detected Concentration
Chrysene	108	42	0.0011(U)	1.03(U)	Lognormal	0.036	95% BCA Bootstrap
Dbenz(a,h)anthracene	108	1	0.0011(U)	1.03(U)	n/a	0.00323	Maximum Detected Concentration
Di-n-butylphthalate	108	15	0.0103(U)	1.92	Lognormal	0.086	95% BCA Bootstrap
Fluoranthene	108	54	0.0011(U)	1.22	Lognormal	0.0768	95% BCA Bootstrap
Fluorene	108	2	0.0011(U)	1.03(U)	n/a	0.0277	Maximum Detected Concentration
Indeno(1,2,3-cd)pyrene	108	17	0.0011(U)	1.03(U)	Normal	0.00926	95% KM (t)
Methylene chloride	108	10	0.00157(U)	0.241	Nonparametric	0.00774	95% KM (t)
1-Methylnaphthalene	108	19	0.0011(U)	1.03(U)	Gamma	0.026	95% Approximate Gamma
2-Methylnaphthalene	108	23	0.0011(U)	1.03(U)	Lognormal	0.0297	95% BCA Bootstrap
Naphthalene	108	19	0.000314(U)	0.324	Lognormal	0.0205	95% BCA Bootstrap
4-Nitrophenol	108	1	0.0998(U)	10.3(U)	n/a	0.158	Maximum Detected Concentration
Phenanthrene	108	43	0.0011(U)	1.03(U)	Lognormal	0.0517	95% BCA Bootstrap
Pyrene	108	53	0.0011(U)	1.03(U)	Lognormal	0.0703	95% BCA Bootstrap
TCDD TEQ	12	12	1.719e-08	8.561e-07	Normal	4.42E-07	95% Student's-t
Toluene	108	2	0.000314(U)	0.0402(U)	n/a	0.00243	Maximum Detected Concentration
1,2,4-Trimethylbenzene	108	1	0.000314(U)	0.0402(U)	n/a	0.000523	Maximum Detected Concentration

Table F-2.3-2 (continued)

COPC	Number of Analyses	Number of Detects	Minimum Concentration	Maximum Concentration	Distribution	EPC	EPC Method
Radionuclides (pCi/g)							
Plutonium-239/240	108	25	0(U)	1.11	Nonparametric	0.0457	95% KM (t)
Strontium-90	108	2	0(U)	9.4(UJ)	n/a	0.625	Maximum Detected Concentration
Thorium-228	108	108	0.801	2.45	Normal	1.598	95% Student's-t
Tritium	108	1	0(U)	127(UJ)	n/a	5.69	Maximum Detected Concentration
Uranium-234	108	108	0.665	12	Nonparametric	1.456	95% Student's-t
Uranium-235/236	108	38	0(U)	0.75	Nonparametric	0.0638	95% KM (t)
Uranium-238	108	107	0.68	12.2	Nonparametric	1.532	95% KM (t)

Note: Data qualifiers are defined in Appendix A.

[a] Essential nutrients use the maximum detected concentration as the EPC even if there are enough samples to compute a UCL.

[b] n/a = Not applicable.

Table F-2.3-3
EPCs at Tract A-8-a for Ecological Risk

COPC	Number of Analyses	Number of Detects	Minimum Concentration	Maximum Concentration	Distribution	EPC	EPC Method
Inorganic Chemicals (mg/kg)							
Antimony	70	10	0.294(U)	1.87(U)	Normal	0.383	95% KM (t)
Arsenic	70	70	1.61	4.56	Gamma	2.828	95% Approximate Gamma
Calcium[a]	70	70	1330	17,300	n/a[b]	17,300	Maximum Detected Concentration
Mercury	70	60	0.00744(U)	0.155	Nonparametric	0.026	95% KM (t)
Nitrate	70	69	0.328(U)	16.1	Normal	7.328	95% KM (t)
Nitrite	70	1	0.3(U)	0.771	n/a	0.771	Maximum Detected Concentration
Perchlorate	70	63	0.000445	0.0261	Nonparametric	0.00429	95% KM (t)
Selenium	70	70	0.406	2.6	Nonparametric	1.245	95% Student's-t

Table F-2.3-3 (continued)

COPC	Number of Analyses	Number of Detects	Minimum Concentration	Maximum Concentration	Distribution	EPC	EPC Method
Organic Chemicals (mg/kg)							
Acenaphthene	70	2	0.00115(U)	1.03(U)	n/a	0.036	Maximum Detected Concentration
Anthracene	70	6	0.00115(U)	1.03(U)	Normal	0.00998	95% KM (t)
Aroclor-1254	8	2	0.00596(U)	0.0536	n/a	0.0536	Maximum Detected Concentration
Aroclor-1260	8	7	0.00614(U)	0.141	Normal	0.0835	95% KM (t)
Benzene	70	2	0.000314(U)	0.037(U)	n/a	0.00128	Maximum Detected Concentration
Benzo(a)anthracene	70	26	0.00115(U)	1.03(U)	Lognormal	0.0456	95% BCA Bootstrap
Benzo(a)pyrene	70	29	0.00115(U)	1.03(U)	Gamma	0.0421	95% KM Approximate Gamma
Benzo(b)fluoranthene	70	38	0.00115(U)	1.03(U)	Gamma	0.0636	95% KM Approximate Gamma
Benzo(g,h,i)perylene	70	21	0.00115(U)	1.03(U)	Gamma	0.0194	95% KM Approximate Gamma
Benzo(k)fluoranthene	70	9	0.00115(U)	1.03(U)	Normal	0.016	95% KM (t)
Bis(2-ethylhexyl)phthalate	70	4	0.0104(U)	1.03(U)	n/a	0.381	Maximum Detected Concentration
Butylbenzylphthalate	70	2	0.0104(U)	3.63	n/a	3.63	Maximum Detected Concentration
Chrysene	70	33	0.00115(U)	1.03(U)	Lognormal	0.0535	95% BCA Bootstrap
Di-n-butylphthalate	70	6	0.0104(U)	1.03(U)	Normal	0.0337	95% KM (t)
Fluoranthene	70	38	0.00115(U)	1.22	Lognormal	0.114	95% BCA Bootstrap
Fluorene	70	1	0.00115(U)	1.03(U)	n/a	0.0277	Maximum Detected Concentration
Indeno(1,2,3-cd)pyrene	70	12	0.00115(U)	1.03(U)	Normal	0.0132	95% KM (t)
Methylene chloride	70	6	0.00157(U)	0.185(U)	Normal	0.00181	95% KM (t)
1-Methylnaphthalene	70	12	0.00115(U)	1.03(U)	Gamma	0.0383	95% KM Approximate Gamma
2-Methylnaphthalene	70	16	0.00115(U)	1.03(U)	Lognormal	0.0428	95% BCA Bootstrap
Naphthalene	70	13	0.000314(U)	0.324	Gamma	0.0354	95% KM Approximate Gamma
4-Nitrophenol	70	1	0.104(U)	10.3(U)	n/a	0.158	Maximum Detected Concentration
Phenanthrene	70	30	0.00115(U)	1.03(U)	Lognormal	0.0781	95% BCA Bootstrap
Pyrene	70	39	0.00115(U)	1.03(U)	Lognormal	0.101	95% BCA Bootstrap
TCDD TEQ	8	8	1.079e-07	8.561e-07	Normal	5.74E-07	95% Student's-t
Toluene	70	2	0.000314(U)	0.037(U)	n/a	0.00243	Maximum Detected Concentration
1,2,4-Trimethylbenzene	70	1	0.000314(U)	0.037(U)	n/a	0.000523	Maximum Detected Concentration

Table F-2.3-3 (continued)

COPC	Number of Analyses	Number of Detects	Minimum Concentration	Maximum Concentration	Distribution	EPC	EPC Method
Radionuclides (pCi/g)							
Plutonium-239/240	70	18	0(U)	0.245(UJ)	Nonparametric	0.0274	95% KM (t)
Strontium-90	70	1	0(U)	3.42(U)	n/a	0.625	Maximum Detected Concentration
Thorium-228	70	70	0.92	2.29	Normal	1.539	95% Student's-t
Tritium	70	1	0(U)	127(UJ)	n/a	5.69	Maximum Detected Concentration
Uranium-234	70	70	0.677	3.9	Nonparametric	1.092	95% Student's-t
Uranium-235/236	70	23	0(U)	0.24	Nonparametric	0.0405	95% KM (t)
Uranium-238	70	70	0.68	4.12	Nonparametric	1.157	95% Student's-t

Note: Data qualifiers are defined in Appendix A.

[a] Essential nutrients use the maximum detected concentration as the EPC even if there are enough samples to compute a UCL.

[b] n/a = Not applicable.

Table F-2.3-4
EPCs at A-16-a for the Industrial and Recreational Scenarios

COPC	Number of Analyses	Number of Detects	Minimum Concentration	Maximum Concentration	Distribution	EPC	EPC Method
Inorganic Chemicals (mg/kg)							
Antimony	120	15	0.294(U)	1.87(U)	Normal	0.362	95% KM (t)
Calcium[a]	120	120	610	15,000	n/a[b]	15,000	Maximum Detected Concentration
Copper	120	120	2.42	2510	Nonparametric	127.6	95% Student's-t
Cyanide (Total)	120	5	0.0529(U)	0.786(U)	Normal	0.059	95% KM (t)
Lead	120	120	3.35	109	Nonparametric	19.97	95% Student's-t
Mercury	120	92	0.00705(U)	0.272	Nonparametric	0.0304	95% KM (t)
Nickel	120	120	1.91	18.2	Nonparametric	6.9	95% Student's-t
Nitrate	120	119	0.374(U)	20.4	Lognormal	4.422	95% BCA Bootstrap
Nitrite	120	2	0.302(U)	0.653	n/a	0.653	Maximum Detected Concentration

Table F-2.3-4 (continued)

COPC	Number of Analyses	Number of Detects	Minimum Concentration	Maximum Concentration	Distribution	EPC	EPC Method
Perchlorate	120	68	0.000419(U)	0.029	Nonparametric	0.00308	95% KM (t)
Selenium	120	115	0.323(U)	36	Nonparametric	1.735	95% KM (t)
Silver	120	49	0.0889(U)	3.37	Gamma	0.407	95% KM Approximate Gamma
Zinc	120	120	11.6	466	Nonparametric	92.57	95% Student's-t
Organic Chemicals (mg/kg)							
Acenaphthene	120	10	0.00111(U)	1.06(U)	Nonparametric	0.0037	95% KM (t)
Acenaphthylene	120	1	0.00108(U)	1.06(U)	n/a	0.019	Maximum Detected Concentration
Anthracene	120	19	0.00111(U)	1.06(U)	Gamma	0.00638	95% KM Approximate Gamma
Aroclor-1254	36	2	0.00113(U)	0.0275	n/a	0.0275	Maximum Detected Concentration
Aroclor-1260	36	12	0.00113(U)	0.0805	Normal	0.0139	95% KM (t)
Benzene	120	2	0.000317(U)	0.0526(U)	n/a	0.000585	Maximum Detected Concentration
Benzo(a)anthracene	120	69	0.00116(UJ)	1.06(U)	Nonparametric	0.0254	95% KM (t)
Benzo(a)pyrene	120	61	0.00116(UJ)	1.06(U)	Gamma	0.0182	95% KM Approximate Gamma
Benzo(b)fluoranthene	120	79	0.00124(U)	1.06(U)	Gamma	0.0315	95% KM Approximate Gamma
Benzo(g,h,i)perylene	120	62	0.00116(U)	1.06(U)	Gamma	0.014	95% KM Approximate Gamma
Benzo(k)fluoranthene	120	28	0.00111(U)	1.06(U)	Gamma	0.00749	95% KM Approximate Gamma
Benzoic Acid	120	3	0.158(U)	34.2(U)	n/a	0.474	Maximum Detected Concentration
Bis(2-ethylhexyl)phthalate	120	6	0.00948(U)	2.05(U)	Normal	0.0226	95% KM (t)
2-Butanone	120	2	0.00149(U)	0.263(U)	n/a	0.256	Maximum Detected Concentration
Butylbenzylphthalate	120	2	0.00948(U)	2.05(U)	n/a	0.149	Maximum Detected Concentration
Carbazole	120	2	0.00948(U)	2.05(U)	n/a	0.196	Maximum Detected Concentration
Chloroform	120	5	0.000298(U)	0.55	Normal	0.0197	95% KM (t)
2-Chloronaphthalene	120	4	0.00108(U)	1.06(U)	n/a	0.00489	Maximum Detected concentration
Chrysene	120	77	0.00125(U)	1.06(U)	Gamma	0.0305	95% KM Approximate Gamma
Di-n-butylphthalate	120	14	0.00948(U)	2.05(U)	Normal	0.0366	95% KM (t)
Dibenz(a,h)anthracene	120	10	0.00108(U)	1.06(U)	Normal	0.0024	95% KM (t)

Table F-2.3-4 (continued)

COPC	Number of Analyses	Number of Detects	Minimum Concentration	Maximum Concentration	Distribution	EPC	EPC Method
Dibenzofuran	120	1	0.0948(U)	20.5(U)	n/a	0.125	Maximum Detected Concentration
Dimethyl phthalate	120	1	0.00948(U)	2.05(U)	n/a	0.0193	Maximum Detected Concentration
1,4-Dioxane	120	1	0.0149(U)	1.05(U)	n/a	0.42	Maximum Detected Concentration
Fluoranthene	120	76	0.00119(U)	1.11	Lognormal	0.0696	95% BCA Bootstrap
Fluorene	120	4	0.00111(U)	1.06(U)	n/a	0.0346	Maximum Detected Concentration
Indeno(1,2,3-cd)pyrene	120	38	0.00108(U)	1.06(U)	Lognormal	0.00793	95% BCA Bootstrap
4-Isopropyltoluene	120	4	0.000298(U)	0.0526(U)	n/a	0.00222	Maximum Detected Concentration
Methylene chloride	120	22	0.00149(U)	0.719	Nonparametric	0.024	95% KM (t)
1-Methylnaphthalene	120	83	0.00119(UJ)	1.06(U)	Gamma	0.0861	95% KM Approximate Gamma
2-Methylnaphthalene	120	89	0.00119(UJ)	1.06(U)	Gamma	0.115	95% KM Approximate Gamma
Naphthalene	120	79	0.000317(U)	0.677	Gamma	0.0721	95% KM Approximate Gamma
Phenanthrene	120	83	0.00119(UJ)	1.06(U)	Gamma	0.0561	95% KM Approximate Gamma
Pyrene	120	79	0.00125(U)	1.06(U)	Lognormal	0.0439	95% BCA Bootstrap
RDX	36	2	0.12(U)	0.445	n/a	0.445	Maximum Detected Concentration
TCDD TEQ	36	36	2.5946E-08	1.41069E-06	Gamma	5.39E-07	95% Adjusted Gamma
Toluene	120	9	0.000317(U)	0.0526(U)	Nonparametric	0.0003536	95% KM (t)
1,2-Xylene	120	1	0.000317(U)	0.0526(U)	n/a	0.000322	Maximum Detected Concentration
Radionuclides (pCi/g)							
Americium-241	120	0	0(U)	0.0652(U)	n/a	0.0652	Maximum Detection Limit
Plutonium-238	120	4	0(U)	3.03(U)	n/a	0.079	Maximum Detected Concentration
Plutonium-239/240	120	109	0(UJ)	24.1	Nonparametric	1.34	95% KM (t)
Strontium-90	120	5	0(U)	2.31(UJ)	Normal	0.0691	95% KM (t)
Thorium-230	120	119	0.699	3.81	Nonparametric	1.283	95% KM (t)
Uranium-234	120	118	0(U)	2.67	Nonparametric	1.092	95% KM (t)
Uranium-238	120	118	0(U)	3.05	Nonparametric	1.144	95% KM (t)

Note: Data qualifiers are defined in Appendix A.

[a] Essential nutrients use the maximum detected concentration as the EPC even if there are enough samples to compute a UCL.

[b] n/a = Not applicable.

Table F-2.3-5
EPCs at Tract A-16-a for the Residential and Construction Worker Scenarios

COPC	Number of Analyses	Number of Detects	Minimum Concentration	Maximum Concentration	Distribution	EPC	EPC Method
Inorganic Chemicals (mg/kg)							
Aluminum	416	416	317	25,500	Nonparametric	9381	95% Student's-t
Antimony	416	42	0.292(U)	19.7	Nonparametric	0.478	95% KM (t)
Arsenic	416	416	0.754	7.88	Nonparametric	2.311	95% Student's-t
Barium	416	416	3.4	305	Nonparametric	85.76	95% Student's-t
Calcium[a]	416	416	158	19,400	n/a[b]	19,400	Maximum Detected Concentration
Chromium	416	416	0.438	26.2	Normal	6.572	95% Student's-t
Copper	416	415	0.395	3070	Nonparametric	92.79	95% KM (t)
Cyanide (Total)	416	17	0.0497(U)	1	Nonparametric	0.0636	95% KM (t)
Lead	416	416	1.33	237	Nonparametric	17.03	95% Student's-t
Mercury	416	311	0.00705(U)	0.998	Nonparametric	0.0286	95% KM (t)
Nickel	416	416	0.637	18.2	Nonparametric	5.934	95% Student's-t
Nitrate	416	326	0.297(U)	35.3	Nonparametric	3.557	95% KM (t)
Nitrite	416	8	0.297(U)	2.42	Lognormal	0.0464	95% BCA Bootstrap
Perchlorate	416	242	0.000419(U)	0.121	Nonparametric	0.00299	95% KM (t)
Selenium	416	400	0.317(U)	36	Lognormal	1.473	95% BCA Bootstrap
Silver	416	141	0.0885(U)	12.5	Nonparametric	0.503	95% KM (t)
Zinc	416	416	3.19	5360	Nonparametric	118.4	95% Student's-t
Organic Chemicals (mg/kg)							
Acenaphthene	416	20	0.0011(U)	1.07(U)	Nonparametric	0.00432	95% KM (t)
Acenaphthylene	416	9	0.00108(U)	1.07(U)	Normal	0.00169	95% KM (t)
Acetone	416	3	0.00101(U)	0.263(U)	n/a	0.011	Maximum Detected Concentration
Acetonitrile	416	1	0.00507(U)	1.32(U)	n/a	0.0108	Maximum Detected Concentration
Anthracene	416	43	0.0011(U)	1.07(U)	Nonparametric	0.00715	95% KM (t)
Aroclor-1254	108	3	0.00112(U)	0.0275	n/a	0.0275	Maximum Detected Concentration
Aroclor-1260	108	36	0.00112(U)	0.423	Nonparametric	0.0173	95% KM (t)

Table F-2.3-5 (continued)

COPC	Number of Analyses	Number of Detects	Minimum Concentration	Maximum Concentration	Distribution	EPC	EPC Method
Benzene	416	20	0.000203(U)	0.0526(U)	Lognormal	0.000123	95% BCA Bootstrap
Benzo(a)anthracene	416	138	0.0011(U)	1.07(U)	Nonparametric	0.0153	95% KM (t)
Benzo(a)pyrene	416	115	0.0011(U)	1.07(U)	Lognormal	0.0126	95% BCA Bootstrap
Benzo(b)fluoranthene	416	157	0.0011(U)	1.07(U)	Lognormal	0.0196	95% BCA Bootstrap
Benzo(g,h,i)perylene	416	117	0.0011(U)	1.07(U)	Nonparametric	0.00875	95% KM (t)
Benzo(k)fluoranthene	416	54	0.0011(U)	1.07(U)	Nonparametric	0.00563	95% KM (t)
Benzoic acid	416	14	0.158(U)	34.2(U)	Nonparametric	0.198	95% KM (t)
Benzyl alcohol	416	18	0.0948(U)	20.5(U)	Gamma	0.119	95% KM Approximate Gamma
Bis(2-ethylhexyl)phthalate	416	13	0.00948(U)	2.05(U)	Nonparametric	0.0135	95% KM (t)
2-Butanone	416	3	0.00101(U)	0.316(U)	n/a	0.258	Maximum Detected Concentration
Butylbenzylphthalate	416	19	0.00948(U)	2.05(U)	Gamma	0.0129	95% KM Approximate Gamma
Carbazole	416	10	0.00948(U)	2.05(U)	Normal	0.0133	95% KM (t)
Chloroform	416	12	0.000203(U)	0.55	Nonparametric	0.00718	95% KM (t)
2-Chloronaphthalene	416	5	0.00108(U)	1.07(U)	Normal	0.00118	95% KM (t)
Chrysene	416	174	0.0011(U)	1.07(U)	Nonparametric	0.0182	95% KM (t)
Di-n-butylphthalate	416	55	0.00948(U)	2.05(U)	Gamma	0.0277	95% KM Approximate Gamma
Di-n-octylphthalate	416	3	0.00948(U)	2.05(U)	n/a	0.158	Maximum Detected Concentration
Dibenz(a,h)anthracene	416	19	0.00108(U)	1.07(U)	Lognormal	0.00139	95% BCA Bootstrap
Dibenzofuran	416	2	0.0948(U)	20.5(U)	n/a	0.193	Maximum Detected Concentration
Diethyl Ether	416	2	0.203(U)	52.6(U)	n/a	36.9	Maximum Detected Concentration
Diethylphthalate	416	4	0.00948(U)	2.05(U)	n/a	0.0231	Maximum Detected Concentration
Dimethyl phthalate	416	1	0.00948(U)	2.05(U)	n/a	0.0193	Maximum Detected Concentration
1,4-Dioxane	416	3	0.0101(U)	1.1(U)	n/a	0.42	Maximum Detected Concentration
Fluoranthene	416	169	0.0011(U)	1.84	Nonparametric	0.0357	95% KM (t)
Fluorene	416	11	0.0011(U)	1.07(U)	Gamma	0.00452	95% KM Approximate Gamma
Indeno(1,2,3-cd)pyrene	416	62	0.00108(U)	1.07(U)	Nonparametric	0.00635	95% KM (t)

Table F-2.3-5 (continued)

COPC	Number of Analyses	Number of Detects	Minimum Concentration	Maximum Concentration	Distribution	EPC	EPC Method
4-Isopropyltoluene	416	5	0.000203(U)	0.0526(U)	Normal	0.0002309	95% KM (t)
Methylene chloride	416	74	0.00146(U)	0.719	Nonparametric	0.01	95% KM (t)
1-Methylnaphthalene	416	257	0.0011(U)	1.07(U)	Nonparametric	0.0505	95% KM (t)
2-Methylnaphthalene	416	278	0.00111(U)	1.07(U)	Nonparametric	0.0677	95% KM (t)
Naphthalene	416	250	0.000312(U)	0.871	Nonparametric	0.0452	95% KM (t)
Phenanthrene	416	238	0.00111(U)	1.76	Nonparametric	0.0436	95% KM (t)
Pyrene	416	178	0.0011(U)	1.36	Nonparametric	0.0284	95% KM (t)
RDX	108	3	0.12(U)	0.628	n/a	0.628	Maximum Detected Concentration
TCDD TEQ	108	103	0 (U)	5.76702e-06	Nonparametric	4.97E-07	95% KM (t)
Toluene	416	41	0.000203(U)	0.0526(U)	Nonparametric	0.000351	95% KM (t)
Trichloroethene	416	2	0.000203(U)	0.0526(U)	n/a	0.000389	Maximum Detected Concentration
1,2,4-Trimethylbenzene	416	1	0.000203(U)	0.0526(U)	n/a	0.000564	Maximum Detected Concentration
1,2-Xylene	416	4	0.000203(U)	0.0526(U)	Normal	0.000445	Maximum Detected Concentration
1,3-Xylene+1,4-Xylene	416	5	0.000406(U)	0.105(U)	Normal	0.00041869	95% KM (t)
Radionuclides (pCi/g)							
Americium-241	416	1	0(UJ)	1.92(UJ)	n/a	0.0287	Maximum Detected Concentration
Cesium-137	416	18	0(U)	0.335(U)	Nonparametric	0.00723	95% KM (t)
Cobalt-60	416	1	0(U)	0.251	n/a	0.251	Maximum Detected Concentration
Plutonium-238	416	8	0(UJ)	4.82(UJ)	Normal	0.00133	95% KM (t)
Plutonium-239/240	416	235	0(U)	24.1	Nonparametric	0.524	95% KM (t)
Strontium-90	416	14	0(U)	8.89(UJ)	Nonparametric	0.029	95% KM (t)
Thorium-228	416	415	0.356(UJ)	2.33	Normal	1.636	95% KM (t)
Thorium-230	416	414	0.597	3.81	Gamma	1.288	95% KM Approximate Gamma
Uranium-234	416	409	0(UJ)	22.2	Nonparametric	1.295	95% KM (t)
Uranium-235/236	416	119	0(U)	1.39	Nonparametric	0.0438	95% KM (t)
Uranium-238	416	408	0(U)	22.3	Nonparametric	1.325	95% KM (t)

Note: Data qualifiers are defined in Appendix A.

[a] Essential nutrients use the maximum detected concentration as the EPC even if there are enough samples to compute a UCL.

[b] n/a = Not applicable.

Table F-2.3-6
EPCs at Tract A-16-a for Ecological Risk

COPC	Number of Analyses	Number of Detects	Minimum Concentration	Maximum Concentration	Distribution	EPC	EPC Method
Inorganic Chemicals (mg/kg)							
Aluminum	268	268	317	25,500	Gamma	11,288	95% Approximate Gamma
Antimony	268	33	0.292(U)	3.78	Nonparametric	0.393	95% KM (t)
Arsenic	268	268	0.776	7.88	Nonparametric	2.491	95% Student's-t
Barium	268	268	3.4	305	Normal	104.6	95% Student's-t
Calcium[a]	268	268	158	19,400	n/a[b]	19,400	Maximum Detected Concentration
Chromium	268	268	0.7	26.2	Nonparametric	7.545	95% Student's-t
Copper	268	268	0.395	2510	Nonparametric	106	95% Student's-t
Cyanide (Total)	268	16	0.0497(U)	1	Nonparametric	0.0709	95% KM (t)
Lead	268	268	1.47	237	Nonparametric	21.22	95% Student's-t
Mercury	268	215	0.00705(U)	0.272	Nonparametric	0.027	95% KM (t)
Nickel	268	268	0.715	18.2	Nonparametric	6.715	95% Student's-t
Nitrate	268	230	0.316(U)	35.3	Nonparametric	4.22	95% KM (t)
Nitrite	268	8	0.302(U)	2.42	Lognormal	0.0698	95% BCA Bootstrap
Perchlorate	268	157	0.000419(U)	0.029	Nonparametric	0.0022	95% KM (t)
Selenium	268	255	0.323(U)	36	Lognormal	1.55	95% BCA Bootstrap
Silver	268	104	0.0885(U)	12.5	Nonparametric	0.619	95% KM (t)
Zinc	268	268	3.19	5360	Nonparametric	154.3	95% Student's-t

Table F-2.3-6 (continued)

COPC	Number of Analyses	Number of Detects	Minimum Concentration	Maximum Concentration	Distribution	EPC	EPC Method
Organic Chemicals (mg/kg)							
Acenaphthene	268	16	0.00111(U)	1.07(U)	Nonparametric	0.00587	95% KM (t)
Acenaphthylene	268	8	0.00108(U)	1.07(U)	Normal	0.00206	95% KM (t)
Acetone	268	1	0.00101(U)	0.263(U)	n/a	0.011	Maximum Detected Concentration
Acetonitrile	268	1	0.00507(U)	1.32(U)	n/a	0.0108	Maximum Detected Concentration
Anthracene	268	36	0.00111(U)	1.07(U)	Nonparametric	0.0104	95% KM (t)
Aroclor-1254	79	3	0.00113(U)	0.0275	n/a	0.0275	Maximum Detected Concentration
Aroclor-1260	79	24	0.00113(U)	0.423	Gamma	0.03	95% KM Approximate Gamma
Benzene	268	10	0.000203(U)	0.0526(U)	Lognormal	9.93E-05	95% BCA Bootstrap
Benzo(a)anthracene	268	115	0.00112(U)	1.07(U)	Nonparametric	0.0226	95% KM (t)
Benzo(a)pyrene	268	98	0.00112(U)	1.07(U)	Lognormal	0.0184	95% BCA Bootstrap
Benzo(b)fluoranthene	268	130	0.00112(U)	1.07(U)	Nonparametric	0.028	95% KM (t)
Benzo(g,h,i)perylene	268	100	0.00112(U)	1.07(U)	Nonparametric	0.0128	95% KM (t)
Benzo(k)fluoranthene	268	44	0.00111(U)	1.07(U)	Nonparametric	0.00796	95% KM (t)
Benzoic acid	268	9	0.158(U)	34.2(U)	Normal	0.189	95% KM (t)
Benzyl alcohol	268	3	0.0948(U)	20.5(U)	n/a	0.233	Maximum Detected Concentration
Bis(2-ethylhexyl)phthalate	268	8	0.00948(U)	2.05(U)	Normal	0.0155	95% KM (t)
2-Butanone	268	3	0.00101(U)	0.316(U)	n/a	0.258	Maximum Detected Concentration
Butylbenzylphthalate	268	3	0.00948(U)	2.05(U)	n/a	0.149	Maximum Detected Concentration
Carbazole	268	7	0.00948(U)	2.05(U)	Normal	0.0155	95% KM (t)
Chloroform	268	10	0.000203(U)	0.55	Nonparametric	0.0111	95% KM (t)
2-Chloronaphthalene	268	5	0.00108(U)	1.07(U)	Normal	0.00126	95% KM (t)
Chrysene	268	139	0.00112(U)	1.07(U)	Nonparametric	0.0265	95% KM (t)
Di-n-butylphthalate	268	31	0.00948(U)	2.05(U)	Normal	0.0318	95% KM (t)
Di-n-octylphthalate	268	1	0.00948(U)	2.05(U)	n/a	0.0164	Maximum Detected Concentration
Dibenz(a,h)anthracene	268	17	0.00108(U)	1.07(U)	Lognormal	0.00223	95% BCA Bootstrap

Table F-2.3-6 (continued)

COPC	Number of Analyses	Number of Detects	Minimum Concentration	Maximum Concentration	Distribution	EPC	EPC Method
Organic Chemicals (mg/kg)							
Dibenzofuran	268	2	0.0948(U)	20.5(U)	n/a	0.193	Maximum Detected Concentration
Diethylphthalate	268	2	0.00948(U)	2.05(U)	n/a	0.021	Maximum Detected Concentration
Dimethyl phthalate	268	1	0.00948(U)	2.05(U)	n/a	0.0193	Maximum Detected Concentration
1,4-Dioxane	268	3	0.0101(U)	1.1(U)	n/a	0.42	Maximum Detected Concentration
Fluoranthene	268	132	0.00112(U)	1.84	Nonparametric	0.0528	95% KM (t)
Fluorene	268	11	0.00111(U)	1.07(U)	Gamma	0.00668	95% KM Approximate Gamma
Indeno(1,2,3-cd)pyrene	268	55	0.00108(U)	1.07(U)	Nonparametric	0.00926	95% KM (t)
4-Isopropyltoluene	268	5	0.000203(U)	0.0526(U)	n/a	0.00222	Maximum Detected Concentration
Methylene chloride	268	51	0.00146(U)	0.719	Nonparametric	0.0145	95% KM (t)
1-Methylnaphthalene	268	185	0.00113(UJ)	1.07(U)	Gamma	0.07	95% KM Approximate Gamma
2-Methylnaphthalene	268	197	0.00113(UJ)	1.07(U)	Nonparametric	0.0916	95% KM (t)
Naphthalene	268	180	0.000312(U)	0.871	Nonparametric	0.0618	95% KM (t)
Phenanthrene	268	173	0.00113(UJ)	1.76	Nonparametric	0.0628	95% KM (t)
Pyrene	268	140	0.00112(U)	1.36	Lognormal	0.0465	95% BCA Bootstrap
RDX	79	3	0.12(U)	0.628	n/a	0.628	Maximum Detected Concentration
TCDD TEQ	79	76	0 (U)	5.76702e-06	Nonparametric	6.55E-07	95% KM (t)
Toluene	268	26	0.000203(U)	0.0526(U)	Nonparametric	0.000333	95% KM (t)
Trichloroethene	268	1	0.000203(U)	0.0526(U)	n/a	0.000384	Maximum Detected Concentration
1,2,4-Trimethylbenzene	268	1	0.000203(U)	0.0526(U)	n/a	0.000564	Maximum Detected Concentration
1,2-Xylene	268	3	0.000203(U)	0.0526(U)	n/a	0.000445	Maximum Detected Concentration
1,3-Xylene+1,4-Xylene	268	2	0.000406(U)	0.105(U)	n/a	0.00106	Maximum Detected Concentration
Radionuclides (pCi/g)							
Americium-241	268	1	0(U)	1.06(UJ)	n/a	0.0287	Maximum Detected Concentration
Cesium-137	268	18	0(U)	0.277	Nonparametric	0.0112	95% KM (t)
Cobalt-60	268	1	0(U)	0.251	n/a	0.251	Maximum Detected Concentration

Table F-2.3-6 (continued)

COPC	Number of Analyses	Number of Detects	Minimum Concentration	Maximum Concentration	Distribution	EPC	EPC Method
Organic Chemicals (mg/kg)							
Plutonium-238	268	8	0(U)	4.37(UJ)	Normal	0.00205	95% KM (t)
Plutonium-239/240	268	184	0(U)	24.1	Nonparametric	0.72	95% KM (t)
Strontium-90	268	10	0(U)	8.89(UJ)	Nonparametric	0.0385	95% KM (t)
Thorium-228	268	267	0.356(UJ)	2.32	Normal	1.578	95% KM (t)
Thorium-230	268	266	0.699	3.81	Lognormal	1.338	95% BCA Bootstrap
Uranium-234	268	264	0(U)	22.2	Nonparametric	1.384	95% KM (t)
Uranium-235/236	268	87	0(U)	1.39	Nonparametric	0.0522	95% KM (t)
Uranium-238	268	263	0(U)	22.3	Nonparametric	1.413	95% KM (t)

Note: Data qualifiers are defined in Appendix A.

[a] Essential nutrients use the maximum detected concentration as the EPC even if there are enough samples to compute a UCL.

[b] n/a = Not applicable.

Table F-2.3-7
EPCs at MDPR Site for the Industrial and Recreational Scenarios

COPC	Number of Analyses	Number of Detects	Minimum Concentration	Maximum Concentration	Distribution	EPC	EPC Method
Inorganic Chemicals (mg/kg)							
Antimony	155	21	0.294(U)	1.87(U)	Normal	0.363	95% KM (t)
Calcium[a]	155	155	610	17,300	n/a[b]	17,300	Maximum Detected Concentration
Copper	155	155	2.42	2510	Nonparametric	100.5	95% Student's-t
Cyanide (Total)	155	6	0.0464(U)	0.786(U)	Normal	0.052	95% KM (t)
Lead	155	155	3.35	109	Nonparametric	18.43	95% Student's-t
Mercury	155	125	0.00705(U)	0.272	Nonparametric	0.0281	95% KM (t)
Nickel	155	155	1.91	18.2	Nonparametric	6.929	95% Student's-t

Table F-2.3-7 (continued)

COPC	Number of Analyses	Number of Detects	Minimum Concentration	Maximum Concentration	Distribution	EPC	EPC Method
Nitrate	155	154	0.374(U)	20.4	Nonparametric	5.37	95% KM (t)
Nitrite	155	3	0.3(U)	0.771	n/a	0.771	Maximum Detected Concentration
Perchlorate	155	96	0.000419(U)	0.029	Nonparametric	0.00263	95% KM (t)
Selenium	155	150	0.323(U)	36	Lognormal	1.932	95% BCA Bootstrap
Silver	155	63	0.0889(U)	3.37	Lognormal	0.342	95% BCA Bootstrap
Zinc	155	155	11.6	466	Nonparametric	78.99	95% Student's-t
Organic Chemicals (mg/kg)							
Acenaphthene	155	11	0.00111(U)	1.06(U)	Nonparametric	0.00361	95% KM (t)
Acenaphthylene	155	1	0.00108(U)	1.06(U)	n/a	0.019	Maximum Detected Concentration
Anthracene	155	23	0.00111(U)	1.06(U)	Gamma	0.00777	95% KM Approximate Gamma
Aroclor-1254	40	2	0.00113(U)	0.0275	n/a	0.0275	Maximum Detected Concentration
Aroclor-1260	40	16	0.00113(U)	0.141	Gamma	0.0284	95% Gamma Adjusted KM
Benzene	155	4	0.000314(U)	0.0526(U)	n/a	0.00128	Maximum Detected Concentration
Benzo(a)anthracene	155	87	0.00116(UJ)	1.06(U)	Nonparametric	0.0317	95% KM (t)
Benzo(a)pyrene	155	82	0.00116(UJ)	1.06(U)	Lognormal	0.0276	95% BCA Bootstrap
Benzo(b)fluoranthene	155	105	0.00124(U)	1.06(U)	Lognormal	0.0439	95% BCA Bootstrap
Benzo(g,h,i)perylene	155	78	0.00116(U)	1.06(U)	Gamma	0.0169	95% KM Approximate Gamma
Benzo(k)fluoranthene	155	34	0.00111(U)	1.06(U)	Lognormal	0.011	95% BCA Bootstrap
Benzoic Acid	155	3	0.158(U)	34.2(U)	n/a	0.474	Maximum Detected Concentration
Bis(2-ethylhexyl)phthalate	155	8	0.00948(U)	2.05(U)	Normal	0.0223	95% KM (t)
2-Butanone	155	2	0.00149(U)	0.263(U)	n/a	0.256	Maximum Detected Concentration
Butylbenzylphthalate	155	2	0.00948(U)	2.05(U)	n/a	0.149	Maximum Detected Concentration
Carbazole	155	2	0.00948(U)	2.05(U)	n/a	0.196	Maximum Detected Concentration
Chloroform	155	5	0.000298(U)	0.55	Normal	0.0153	95% KM (t)
2-Chloronaphthalene	155	4	0.00108(U)	1.06(U)	n/a	0.00489	Maximum Detected Concentration
Chrysene	155	102	0.00125(U)	1.06(U)	Lognormal	0.0386	95% BCA Bootstrap

Table F-2.3-7 (continued)

COPC	Number of Analyses	Number of Detects	Minimum Concentration	Maximum Concentration	Distribution	EPC	EPC Method
Di-n-butylphthalate	155	17	0.00948(U)	2.05(U)	Normal	0.0348	95% KM (t)
Dibenz(a,h)anthracene	155	10	0.00108(U)	1.06(U)	Normal	0.00227	95% KM (t)
Dibenzofuran	155	1	0.0948(U)	20.5(U)	n/a	0.125	Maximum Detected Concentration
Dimethyl phthalate	155	1	0.00948(U)	2.05(U)	n/a	0.0193	Maximum Detected Concentration
1,4-Dioxane	155	1	0.0149(U)	1.05(U)	n/a	0.42	Maximum Detected Concentration
Fluoranthene	155	103	0.00119(UJ)	1.22	Lognormal	0.085	95% BCA Bootstrap
Fluorene	155	4	0.00111(U)	1.06(U)	n/a	0.0346	Maximum Detected Concentration
Indeno(1,2,3-cd)pyrene	155	48	0.00108(U)	1.06(U)	Gamma	0.0112	95% KM Approximate Gamma
4-Isopropyltoluene	155	3	0.000298(U)	0.0526(U)	n/a	0.00222	Maximum Detected Concentration
Methylene chloride	155	25	0.00149(U)	0.719	Nonparametric	0.0189	95% KM (t)
1-Methylnaphthalene	155	89	0.00119(UJ)	1.06(U)	Gamma	0.0708	95% KM Approximate Gamma
2-Methylnaphthalene	155	97	0.00119(UJ)	1.06(U)	Gamma	0.0944	95% KM Approximate Gamma
Naphthalene	155	85	0.000314(U)	0.677	Gamma	0.0574	95% KM Approximate Gamma
Phenanthrene	155	101	0.00119(UJ)	1.06(U)	Lognormal	0.0656	95% BCA Bootstrap
Pyrene	155	106	0.00125(U)	1.06(U)	Lognormal	0.0659	95% BCA Bootstrap
RDX	40	2	0.12(U)	0.445	n/a	0.445	Maximum Detected Concentration
TCDD TEQ	40	40	2.5946e-08	1.41069e-06	Gamma	5.44E-07	95% Adjusted Gamma
Toluene	155	11	0.000314(U)	0.0526(U)	Nonparametric	0.000379	95% KM (t)
1,2,4-Trimethylbenzene	155	1	0.000298(U)	0.0526(U)	n/a	0.000523	Maximum Detected Concentration
1,2-Xylene	155	1	0.000314(U)	0.0526(U)	n/a	0.000322	Maximum Detected Concentration

Table F-2.3-7 (continued)

COPC	Number of Analyses	Number of Detects	Minimum Concentration	Maximum Concentration	Distribution	EPC	EPC Method
Radionuclides (pCi/g)							
Americium-241	155	0	0 (U)	0.0652(U)	n/a	0.0652	Maximum detection limit
Plutonium-238	155	4	0 (U)	3.03(UJ)	n/a	0.079	Maximum Detected Concentration
Plutonium-239/240	155	122	0 (U)	24.1	Nonparametric	1.047	95% KM (t)
Strontium-90	155	5	0 (U)	2.31(UJ)	Normal	0.0535	95% KM (t)
Thorium-230	155	154	0.699	3.81	Nonparametric	1.284	95% KM (t)
Tritium	155	1	0 (U)	127(UJ)	n/a	5.69	Maximum Detected Concentration
Uranium-234	155	153	0 (U)	2.67	Nonparametric	1.056	95% KM (t)
Uranium-238	155	153	0 (U)	3.05	Nonparametric	1.108	95% KM (t)

Note: Data qualifiers are defined in Appendix A.

[a] Essential nutrients use the maximum detected concentration as the EPC even if there are enough samples to compute a UCL.

[b] n/a = Not applicable.

Table F-2.3-8
EPCs at MDPR Site for the Residential and Construction Worker Scenarios

COPC	Number of Analyses	Number of Detects	Minimum Concentration	Maximum Concentration	Distribution	EPC	EPC Method
Inorganic Chemicals (mg/kg)							
Aluminum	524	524	317	39,200	Nonparametric	10,136	95% Student's-t
Antimony	524	56	0.292(U)	19.7	Nonparametric	0.451	95% KM (t)
Arsenic	524	524	0.754	7.88	Nonparametric	2.402	95% Student's-t
Barium	524	524	3.4	377	Nonparametric	90.14	95% Student's-t
Calcium[a]	524	524	158	19,400	n/a[b]	19,400	Maximum Detected Concentration
Chromium	524	524	0.438	26.2	Nonparametric	7.228	95% Student's-t
Copper	524	523	0.395	3070	Nonparametric	75.2	95% KM (t)
Cyanide (Total)	524	23	0.0464(U)	1	Nonparametric	0.0588	95% KM (t)

Table F-2.3-8 (continued)

COPC	Number of Analyses	Number of Detects	Minimum Concentration	Maximum Concentration	Distribution	EPC	EPC Method
Lead	524	524	1.33	237	Nonparametric	15.94	95% Student's-t
Mercury	524	404	1.23e-05	0.998	Nonparametric	0.0265	95% KM (t)
Nickel	524	524	0.637	20.1	Nonparametric	6.371	95% Student's-t
Nitrate	524	432	0.294(U)	35.3	Nonparametric	3.911	95% KM (t)
Nitrite	524	9	0.294(U)	2.42	Gamma	0.311	95% KM Approximate Gamma
Perchlorate	524	338	0.000419(U)	0.121	Nonparametric	0.00319	95% KM (t)
Selenium	524	508	0.317(U)	36	Lognormal	1.434	95% BCA Bootstrap
Silver	524	178	0.0885(U)	12.5	Nonparametric	0.443	95% KM (t)
Zinc	524	524	3.19	5360	Nonparametric Normal	100.8	95% Student's-t
Organic Chemicals (mg/kg)							
Acenaphthene	524	22	0.0011(U)	1.07(U)	Nonparametric	0.00383	95% KM (t)
Acenaphthylene	524	9	0.00108(U)	1.07(U)	Normal	0.00158	95% KM (t)
Acetone	524	4	0.00101(U)	0.263(U)	n/a	0.011	Maximum Detected Concentration
Acetonitrile	524	1	0.00507(U)	1.32(U)	n/a	0.0108	Maximum Detected Concentration
Anthracene	524	50	0.0011(U)	1.07(U)	Lognormal	0.00593	95% BCA Bootstrap
Aroclor-1254	121	6	0.00112(U)	0.0536	Normal	0.00316	95% KM (t)
Aroclor-1260	121	48	0.00112(U)	0.423	Nonparametric	0.0199	95% KM (t)
Benzene	524	22	0.000203(U)	0.0526(U)	Gamma	0.0002768	95% KM Approximate Gamma
Benzo(a)anthracene	524	173	0.0011(U)	1.07(U)	Nonparametric	0.0161	95% KM (t)
Benzo(a)pyrene	524	154	0.0011(U)	1.07(U)	Lognormal	0.0138	95% BCA Bootstrap
Benzo(b)fluoranthene	524	209	0.0011(U)	1.07(U)	Lognormal	0.0222	95% BCA Bootstrap
Benzo(g,h,i)perylene	524	147	0.0011(U)	1.07(U)	Nonparametric	0.00911	95% KM (t)
Benzo(k)fluoranthene	524	67	0.0011(U)	1.07(U)	Nonparametric	0.00609	95% KM (t)
Benzoic acid	524	14	0.158(U)	34.2(U)	Nonparametric	0.192	95% KM (t)
Benzyl alcohol	524	18	0.0948(U)	20.5(U)	Gamma	0.115	95% KM Approximate Gamma
Bis(2-ethylhexyl)phthalate	524	23	0.00948(U)	2.05(U)	Nonparametric	0.0153	95% KM (t)

Table F-2.3-8 (continued)

COPC	Number of Analyses	Number of Detects	Minimum Concentration	Maximum Concentration	Distribution	EPC	EPC Method
2-Butanone	524	4	0.00101(U)	0.316(U)	n/a	0.258	Maximum Detected Concentration
Butylbenzylphthalate	524	21	0.00948(U)	3.63	Nonparametric	0.0311	95% KM (t)
Carbazole	524	10	0.00948(U)	2.05(U)	Normal	0.0126	95% KM (t)
Chloroform	524	12	0.000203(U)	0.55	Nonparametric	0.00574	95% KM (t)
2-Chloronaphthalene	524	5	0.00108(U)	1.07(U)	Normal	0.00117	95% KM (t)
Chrysene	524	216	0.0011(U)	1.07(U)	Nonparametric	0.02	95% KM (t)
Di-n-butylphthalate	524	70	0.00948(U)	2.05(U)	Gamma	0.0351	95% KM Approximate Gamma
Di-n-octylphthalate	524	3	0.00948(U)	2.05(U)	n/a	0.158	Maximum Detected Concentration
Dibenz(a,h)anthracene	524	20	0.00108(U)	1.07(U)	Lognormal	0.00111	95% BCA Bootstrap
Dibenzofuran	524	2	0.0948(U)	20.5(U)	n/a	0.193	Maximum Detected Concentration
Diethyl Ether	524	2	0.203(U)	52.6(U)	n/a	36.9	Maximum Detected Concentration
Diethylphthalate	524	4	0.00948(U)	2.05(U)	n/a	0.0231	Maximum Detected Concentration
Dimethyl phthalate	524	1	0.00948(U)	2.05(U)	n/a	0.0193	Maximum Detected Concentration
1,4-Dioxane	524	3	0.0101(U)	1.1(U)	n/a	0.42	Maximum Detected Concentration
Fluoranthene	524	223	0.0011(U)	1.84	Nonparametric	0.0388	95% KM (t)
Fluorene	524	13	0.0011(U)	1.07(U)	Nonparametric	0.00343	95% KM (t)
Indeno(1,2,3-cd)pyrene	524	79	0.00108(U)	1.07(U)	Nonparametric	0.0064	95% KM (t)
4-Isopropyltoluene	524	5	0.000203(U)	0.0526(U)	Normal	0.000225	95% KM (t)
Methylene chloride	524	84	0.00146(U)	0.719	Nonparametric	0.00884	95% KM (t)
1-Methylnaphthalene	524	276	0.0011(U)	1.07(U)	Nonparametric	0.0435	95% KM (t)
2-Methylnaphthalene	524	301	0.0011(U)	1.07(U)	Nonparametric	0.058	95% KM (t)
Naphthalene	524	269	0.000312(U)	0.871	Nonparametric	0.0384	95% KM (t)
4-Nitrophenol	524	1	0.0948(U)	20.5(U)	n/a	0.158	Maximum Detected Concentration
Phenanthrene	524	281	0.0011(U)	1.76	Nonparametric	0.0417	95% KM (t)
Pyrene	524	231	0.0011(U)	1.36	Lognormal	0.0335	95% BCA Bootstrap
RDX	121	3	0.12(U)	0.628	n/a	0.628	Maximum Detected Concentration

Table F-2.3-8 (continued)

COPC	Number of Analyses	Number of Detects	Minimum Concentration	Maximum Concentration	Distribution	EPC	EPC Method
TCDD TEQ	120	115	0 (U)	5.76702e-06	Nonparametric	4.778E-07	95% KM (t)
Toluene	524	43	0.000203(U)	0.0526(U)	Nonparametric	0.00032838	95% KM (t)
Trichloroethene	524	2	0.000203(U)	0.0526(U)	n/a	0.000389	Maximum Detected Concentration
1,2,4-Trimethylbenzene	524	2	0.000203(U)	0.0526(U)	n/a	0.000564	Maximum Detected Concentration
1,2-Xylene	524	4	0.000203(U)	0.0526(U)	n/a	0.000445	Maximum Detected Concentration
1,3-Xylene+1,4-Xylene	524	5	0.000406(U)	0.105(U)	Normal	0.0004161	95% KM (t)
Radionuclides (pCi/g)							
Americium-241	524	1	0 (U)	1.92(UJ)	n/a	0.0287	Maximum Detected Concentration
Cesium-137	524	19	0 (U)	0.335(U)	Nonparametric	0.00597	95% KM (t)
Cobalt-60	524	1	0 (U)	0.251	n/a	0.251	Maximum Detected Concentration
Plutonium-238	524	8	0 (U)	4.82(UJ)	Normal	0.00105	95% KM (t)
Plutonium-239/240	524	260	0 (U)	24.1	Nonparametric	0.422	95% KM (t)
Strontium-90	524	16	0 (U)	9.4(UJ)	Nonparametric	0.0253	95% KM (t)
Thorium-228	524	523	0.356(UJ)	2.45	Normal	1.621	95% KM (t)
Thorium-230	524	522	0.597	3.81	Lognormal	1.3	95% BCA Bootstrap
Tritium	524	1	0 (U)	127(UJ)	n/a	5.69	Maximum Detected Concentration
Uranium-234	524	517	0 (U)	22.2	Nonparametric	1.292	95% KM (t)
Uranium-235/236	524	157	0 (U)	1.39	Nonparametric	0.0455	95% KM (t)
Uranium-238	524	515	0 (U)	22.3	Nonparametric	1.331	95% KM (t)

Note: Data qualifiers are defined in Appendix A.

[a] Essential nutrients use the maximum detected concentration as the EPC even if there are enough samples to compute a UCL.

[b] n/a = Not applicable.

Table F-2.3-9
EPCs at MDPR Site for Ecological Risk

COPC	Number of Analyses	Number of Detects	Minimum Concentration	Maximum Concentration	Distribution	EPC	EPC Method
Inorganic Chemicals (mg/kg)							
Aluminum	338	338	317	25,500	Nonparametric	11,493	95% Student's-t
Antimony	338	43	0.292(U)	3.78	Nonparametric	0.384	95% KM (t)
Arsenic	338	338	0.776	7.88	Nonparametric	2.54	95% Student's-t
Barium	338	338	3.4	305	Normal	105	95% Student's-t
Calcium[a]	338	338	158	19,400	n/a[b]	19,400	Maximum Detected Concentration
Chromium	338	338	0.7	26.2	Nonparametric	7.919	95% Student's-t
Copper	338	338	0.395	2510	Nonparametric	85.63	95% Student's-t
Cyanide (Total)	338	21	0.0464(U)	1	Nonparametric	0.0648	95% KM (t)
Lead	338	338	1.47	237	Nonparametric	19.49	95% Student's-t
Mercury	338	275	0.00705(U)	0.272	Nonparametric	0.0259	95% KM (t)
Nickel	338	338	0.715	18.2	Nonparametric	6.889	95% Student's-t
Nitrate	338	299	0.316(U)	35.3	Nonparametric	4.748	95% KM (t)
Nitrite	338	9	0.3(U)	2.42	Gamma	0.327	95% KM Approximate Gamma
Perchlorate	338	220	0.000419(U)	0.029	Nonparametric	0.00249	95% KM (t)
Selenium	338	325	0.323(U)	36	Nonparametric	1.3	95% KM (t)
Silver	338	132	0.0885(U)	12.5	Nonparametric	0.54	95% KM (t)
Zinc	338	338	3.19	5360	Nonparametric	128.8	95% Student's-t
Organic Chemicals (mg/kg)							
Acenaphthene	338	18	0.00111(U)	1.07(U)	Nonparametric	0.00516	95% KM (t)
Acenaphthylene	338	8	0.00108(U)	1.07(U)	Normal	0.0019	95% KM (t)
Acetone	338	1	0.00101(U)	0.263(U)	n/a	0.011	Maximum Detected Concentration
Acetonitrile	338	1	0.00507(U)	1.32(U)	n/a	0.0108	Maximum Detected Concentration
Anthracene	338	42	0.00111(U)	1.07(U)	Lognormal	0.00918	95% BCA Bootstrap
Aroclor-1254	87	5	0.00113(U)	0.0536	Normal	0.00397	95% KM (t)
Aroclor-1260	87	31	0.00113(U)	0.423	Gamma	0.0308	95% KM Approximate Gamma

Table F-2.3-9 (continued)

COPC	Number of Analyses	Number of Detects	Minimum Concentration	Maximum Concentration	Distribution	EPC	EPC Method
Benzene	338	12	0.000203(U)	0.0526(U)	Gamma	0.000261	95% KM Approximate Gamma
Benzo(a)anthracene	338	141	0.00112(U)	1.07(U)	Nonparametric	0.0236	95% KM (t)
Benzo(a)pyrene	338	127	0.00112(U)	1.07(U)	Lognormal	0.0202	95% BCA Bootstrap
Benzo(b)fluoranthene	338	168	0.00112(U)	1.07(U)	Nonparametric	0.0319	95% KM (t)
Benzo(g,h,i)perylene	338	121	0.00112(U)	1.07(U)	Nonparametric	0.013	95% KM (t)
Benzo(k)fluoranthene	338	53	0.00111(U)	1.07(U)	Lognormal	0.00786	95% BCA Bootstrap
Benzoic acid	338	9	0.158(U)	34.2(U)	Normal	0.187	95% KM (t)
Benzyl alcohol	338	3	0.0948(U)	20.5(U)	n/a	0.233	Maximum Detected Concentration
Bis(2-ethylhexyl)phthalate	338	12	0.00948(U)	2.05(U)	Normal	0.017	95% KM (t)
2-Butanone	338	3	0.00101(U)	0.316(U)	n/a	0.258	Maximum Detected Concentration
Butylbenzylphthalate	338	5	0.00948(U)	3.63	Gamma	0.0572	95% KM Approximate Gamma
Carbazole	338	7	0.00948(U)	2.05(U)	Normal	0.0145	95% KM (t)
Chloroform	338	10	0.000203(U)	0.55	Nonparametric	0.00883	95% KM (t)
2-Chloronaphthalene	338	5	0.00108(U)	1.07(U)	Normal	0.00124	95% KM (t)
Chrysene	338	172	0.00112(U)	1.07(U)	Nonparametric	0.029	95% KM (t)
Di-n-butylphthalate	338	37	0.00948(U)	2.05(U)	Normal	0.0301	95% KM (t)
Di-n-octylphthalate	338	1	0.00948(U)	2.05(U)	n/a	0.0164	Maximum Detected Concentration
Dibenz(a,h)anthracene	338	17	0.00108(U)	1.07(U)	Lognormal	0.00173	95% BCA Bootstrap
Dibenzofuran	338	2	0.0948(U)	20.5(U)	n/a	0.193	Maximum Detected Concentration
Diethylphthalate	338	2	0.00948(U)	2.05(U)	n/a	0.021	Maximum Detected Concentration
Dimethyl phthalate	338	1	0.00948(U)	2.05(U)	n/a	0.0193	Maximum Detected Concentration
1,4-Dioxane	338	3	0.0101(U)	1.1(U)	n/a	0.42	Maximum Detected Concentration
Fluoranthene	338	170	0.00112(U)	1.84	Lognormal	0.0597	95% BCA Bootstrap
Fluorene	338	12	0.00111(U)	1.07(U)	Gamma	0.00553	95% KM Approximate Gamma
Indeno(1,2,3-cd)pyrene	338	67	0.00108(U)	1.07(U)	Nonparametric	0.00919	95% KM (t)
4-Isopropyltoluene	338	4	0.000203(U)	0.0526(U)	n/a	0.00222	Maximum Detected Concentration
Methylene chloride	338	57	0.00146(U)	0.719	Nonparametric	0.0118	95% KM (t)
1-Methylnaphthalene	338	197	0.00113(UJ)	1.07(U)	Nonparametric	0.0593	95% KM (t)

Table F-2.3-9 (continued)

COPC	Number of Analyses	Number of Detects	Minimum Concentration	Maximum Concentration	Distribution	EPC	EPC Method
2-Methylnaphthalene	338	213	0.00113(UJ)	1.07(U)	Nonparametric	0.0785	95% KM (t)
Naphthalene	338	193	0.000312(U)	0.871	Nonparametric	0.0524	95% KM (t)
4-Nitrophenol	338	1	0.0948(U)	20.5(U)	n/a	0.158	Maximum Detected Concentration
Phenanthrene	338	203	0.00113(UJ)	1.76	Nonparametric	0.0601	95% KM (t)
Pyrene	338	179	0.00112(U)	1.36	Lognormal	0.0491	95% BCA Bootstrap
RDX	87	3	0.12(U)	0.628	n/a	0.628	Maximum Detected Concentration
TCDD TEQ	87	84	0 (U)	5.76702e-06	Gamma	6.815E-07	95% KM Approximate Gamma
Toluene	338	28	0.000203(U)	0.0526(U)	Nonparametric	0.000318	95% KM (t)
Trichloroethene	338	1	0.000203(U)	0.0526(U)	n/a	0.000384	Maximum Detected Concentration
1,2,4-Trimethylbenzene	338	2	0.000203(U)	0.0526(U)	n/a	0.000564	Maximum Detected Concentration
1,2-Xylene	338	3	0.000203(U)	0.0526(U)	n/a	0.000445	Maximum Detected Concentration
1,3-Xylene+1,4-Xylene	338	2	0.000406(U)	0.105(U)	n/a	0.00106	Maximum Detected Concentration
Radionuclides (pCi/g)							
Americium-241	338	1	0 (U)	1.06(UJ)	n/a	0.0287	Maximum Detected Concentration
Cesium-137	338	19	0 (U)	0.277	Nonparametric	0.00923	95% KM (t)
Cobalt-60	338	1	0 (U)	0.251	n/a	0.251	Maximum Detected Concentration
Plutonium-238	338	8	0 (U)	4.37(UJ)	Normal	0.00162	95% KM (t)
Plutonium-239/240	338	202	0 (U)	24.1	Nonparametric	0.576	95% KM (t)
Strontium-90	338	11	0 (U)	8.89(UJ)	Nonparametric	0.0329	95% KM (t)
Thorium-228	338	337	0.356(UJ)	2.32	Normal	1.561	95% KM (t)
Thorium-230	338	336	0.699	3.81	Lognormal	1.344	95% BCA Bootstrap
Tritium	338	1	0 (U)	127(UJ)	n/a	5.69	Maximum Detected Concentration
Uranium-234	338	334	0 (U)	22.2	Nonparametric	1.308	95% KM (t)
Uranium-235/236	338	110	0 (U)	1.39	Nonparametric	0.048	95% KM (t)
Uranium-238	338	333	0 (U)	22.3	Nonparametric	1.344	95% KM (t)

Note: Data qualifiers are defined in Appendix A.

[a] Essential nutrients use the maximum detected concentration as the EPC even if there are enough samples to compute a UCL.

[b] n/a = Not applicable.

Table F-3.2-1
Physical and Chemical Properties of Inorganic COPCs for the MDPR Site

COPC	K_d[a] (cm^3/g)	Water Solubility[a] (g/L)
Aluminum	15,000	Insoluble
Antimony	45	Insoluble
Arsenic	29	Insoluble
Barium	41	Insoluble
Calcium	na[b]	Soluble
Chromium, total	1,800,000	Insoluble
Copper	35	Insoluble
Cyanide (Total)	0.00426	1000
Lead	900	Insoluble
Mercury	52	Insoluble
Nickel	65	Insoluble
Nitrate/Nitrite	0.5	Soluble
Perchlorate	0.25	245[c]
Selenium	5	Insoluble
Silver	8.3	Insoluble
Zinc	62	Insoluble

[a] Information from NMED (2022, 702484, Appendix B).

[b] na = Not available.

[c] EPA regional screening levels chemical-specific parameters table, https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables, May 2023.

Table F-3.2-2
Physical and Chemical Properties of Organic COPCs for the MDPR Site

COPC	Water Solubility[a] (mg/L)	Organic Carbon Coefficient K_{oc}[a] (cm^3/g)	Log Octanol-Water Partition Coefficient K_{ow}[b]	Vapor Pressure (mm Hg at 25°C)[b]
Acenaphthene	3.90E+00	5.03E+03	3.92E+00	2.15E-03
Acenaphthylene	1.61E+01[b]	5.03E+03[b]	3.94E+00	6.68E-03
Acetone	1.00E+06	2.36E+00	-2.40E-01	2.31E+02
Acetonitrile	7.45E+04	8.51E+00	-3.40E-01	8.88E+01
Anthracene	4.34E-02	1.64E+04	4.45E+00	6.53E-06
Aroclor-1254	3.40E-03	1.31E+05	6.50E+00	7.71E-05
Aroclor-1260	1.14E-02	3.50E+05	7.55E+00	4.05E-05
Benzene	1.79E+03	1.46E+02	2.13E+00	9.48E+01
Benzo(a)anthracene	9.40E-03	1.77E+05	5.76E+00	2.10E-07

Table F-3.2-2 (continued)

COPC	Water Solubility[a] (mg/L)	Organic Carbon Coefficient K_{oc}[a] (cm^3/g)	Log Octanol-Water Partition Coefficient K_{ow}[b]	Vapor Pressure (mm Hg at 25°C)[b]
Benzo(a)pyrene	1.62E-03	5.87E+05	6.13E+00	5.49E-09
Benzo(b)fluoranthene	1.50E-03	5.99E+05	5.78E+00	5.00E-07
Benzo(g,h,i)perylene	2.60E-04[b]	2.68E+06[b]	6.63E+00	1.00E-10
Benzo(k)fluoranthene	8.00E-04	5.87E+05	6.11E+00	9.65E-10
Benzoic acid	3.40E+03[b]	6.00E-01[b]	1.87E+00	7.00E-04
Benzyl alcohol	4.29E+04[b]	2.15E+01[b]	1.10E+00	9.40E-02
Bis(2-ethylhexyl)phthalate	2.70E-01	1.20E+05	7.60E+00	1.42E-07
2-Butanone	2.23E+05	4.51E+00	2.90E-01	9.10E+01
Butylbenzylphthalate	2.69E+00[b]	7.16E+03[b]	4.73E+00	8.25E-06
Carbazole	1.80E+00[b]	9.16E+03[b]	3.72E+00	7.50E-07
Chloroform	7.95E+03	3.18E+01	1.97E+00	1.97E+02
2-Chloronaphthalene	1.17E+01	2.48E+03	3.90E+00	1.22E-02
Chrysene	2.00E-03	1.81E+05	5.81E+00	6.23E-09
Di-n-butylphthalate	1.12E+01	1.16E+03	4.50E+00	2.01E-05
Di-n-octylphthalate	2.20E-02[b]	1.41E+05[b]	8.10E+00	1.00E-07
Dibenz(a,h)anthracene	1.03E-03	1.91E+06	6.75E+00	9.55E-10
Dibenzofuran	3.10E+00[b]	9.16E+03[b]	4.12E+00	2.48E-03
Diethyl ether	6.04E+04	9.70E+00	8.90E-01	5.38E+02
Diethylphthalate	1.08E+03	1.05E+02	2.42E+00	2.10E-03
Dimethylphthalate	1.50E+01	7.90E+01	1.06E+00	3.08E-03
1,4-Dioxane	1.00E+06	2.63E+00	-2.70E-01	3.81E+01
Fluoranthene	2.60E-01	5.55E+04	5.16E+00	9.22E-06
Fluorene	1.69E+00	9.16E+03	4.18E+00	6.00E-04
Indeno(1,2,3-cd)pyrene	1.90E-04	1.95E+06	6.70E+00	1.25E-10
4-Isopropyltoluene	2.34E+01	1.12E+03	4.10E+00	1.46E+00
Methylene chloride	1.30E+04	2.17E+01	1.25E+00	4.35E+02
1-Methylnaphthalene	2.60E+01	2.50E+03	3.87E+00	6.70E-02
2-Methylnaphthalene	2.50E+01	2.50E+03	3.86E+00	5.50E-02
Naphthalene	3.10E+01	1.54E+03	3.30E+00	8.50E-02
4-Nitrophenol	1.16E+04[b]	2.91E+02[b]	1.91E+00	9.79E-05
Phenanthrene	1.15E+00	1.67E+04	4.46E+00	1.12E-04
Pyrene	1.35E-01	5.43E+04	4.88E+00	4.50E-06
RDX	5.97E+01	8.91E+01	8.70E-01[c]	1.00E-09[c]
TCDD TEQ[d]	2.00E-04	2.49E+05	6.80E+00	1.50E-09
Toluene	5.26E+02	2.34E+02	2.73E+00	2.84E+01
Trichloroethene	1.28E+03	6.07E+01	2.42E+00	6.90E+01

Table F-3.2-2 (continued)

COPC	Water Solubility[a] (mg/L)	Organic Carbon Coefficient K_{oc}[a] (cm^3/g)	Log Octanol-Water Partition Coefficient K_{ow}[b]	Vapor Pressure (mm Hg at 25°C)[b]
1,2,4-Trimethylbenzene	5.70E+01[b]	6.14E+02[b]	3.63E+00	2.10E+00
1,2-Xylene	1.06E+02	3.83E+02	3.12E+00	6.61E+00
1,3+1,4-Xylene[e]	1.33E+02	3.78E+02	3.18E+00	8.57E+00

[a] Information from NMED (2022, 702484), Appendix B.

[b] Information from https://rais.ornl.gov/cgi-bin/tools/TOX_search.

[c] Information from the Agency for Toxic Substances and Disease Registry Toxicological Profile, https://www.atsdr.cdc.gov/ToxProfiles/tp78-c4.pdf, September 2023.

[d] Values for 2,3,7,8-TCDD.

[e] Average of 1,3-xylene and 1,4-xylene.

Table F-3.2-3
Physical and Chemical Properties of
Radionuclide COPCs for the MDPR Site

COPC	Soil-Water Partition Coefficient, K_d[a] (cm^3/kg)
Americium-241	4.0
Cesium-137	10
Cobalt-60	480
Plutonium-238	5.0
Plutonium-239/240	5.0
Strontium-90	1.0
Thorium-228	20
Thorium-230	20
Tritium	na[b]
Uranium-234	0.4
Uranium-235/236	0.4
Uranium-238	0.4

[a] Information from https://rais.ornl.gov/cgi-bin/tools/TOX_search.

[b] na = Not available.

Table F-4.1-1
Exposure Parameters Used to Calculate
Chemical SSLs for the Industrial, Recreational, Construction Worker, and Residential Scenarios

Parameters	Industrial Values[a]	Recreational Values[b]	Construction Worker Values[a]	Residential Values[a]
Target HQ	1	1	1	1
Target cancer risk	10^{-5}	10^{-5}	10^{-5}	10^{-5}
Averaging time (carcinogen/mutagen)	70 yr × 365 days	70 yr × 365 days	70 yr × 365 days	70 yr × 365 days
Averaging time (noncarcinogen)	Exposure duration × 365 days	Exposure duration × 365 days	Exposure duration × 365 days	Exposure duration × 365 days
Skin absorption factor	SVOC = 0.1	SVOC = 0.1	SVOC = 0.1	SVOC = 0.1
	Chemical-specific	Chemical-specific	Chemical-specific	Chemical-specific
Adherence factor–child	n/a[c]	n/a	n/a	0.2 mg/cm^2
Body weight–child	n/a	31 kg (6-12 yr of age)	n/a	15 kg (0–6 yr of age)
Cancer slope factor–oral (chemical-specific)	(mg/kg-day)$^{-1}$	(mg/kg-day)$^{-1}$	(mg/kg-day)$^{-1}$	(mg/kg-day)$^{-1}$
Inhalation unit risk (chemical-specific)	(µg/m^3)	(µg/m^3)	(µg/m^3)	(µg/m^3)
Exposure frequency	225 days/yr	200 days/yr	250 days/yr	350 days/yr
Exposure time	8 hr/day	1 hr/day	8 hr/day	24 hr/day
Exposure duration–child	n/a	6 yr[d]	n/a	6 yr[d]
Age-adjusted ingestion factor for carcinogens	n/a	25 mg-yr/kg-day	n/a	36,750 mg/kg
Age-adjusted ingestion factor for mutagens	n/a	63 mg-yr/kg-day	n/a	166,833 mg/kg
Soil ingestion rate–child	n/a	91 mg/day [200 mg/day x (1 hr/2.2 hr)]	n/a	200 mg/day
Particulate emission factor	6.61×10^9 m^3/kg	6.61×10^9 m^3/kg	2.1×10^6 m^3/kg	6.61×10^9 m^3/kg
Reference dose–oral (chemical-specific)	(mg/kg-day)	(mg/kg-day)	(mg/kg-day)	(mg/kg-day)
Reference dose–inhalation (chemical-specific)	(mg/kg-day)	(mg/kg-day)	(mg/kg-day)	(mg/kg-day)

Table F-4.1-1 (continued)

Parameters	Industrial Values[a]	Recreational Values[b]	Construction Worker Values[a]	Residential Values[a]
Exposed surface area–child	n/a	4030 cm^2/day	n/a	2690 cm^2/day
Age-adjusted skin contact factor for carcinogens	n/a	262 mg-yr/kg-day	n/a	112,266 mg/kg
Age-adjusted skin contact factor for mutagens	n/a	616 mg-yr/kg-day	n/a	475,599 mg/kg
Volatilization factor for soil (chemical-specific)	(m^3/kg)	(m^3/kg)	(m^3/kg)	(m^3/kg)
Body weight–adult	80 kg	80 kg	80 kg	80 kg
Exposure duration[e]	25 yr	26 yr	1 yr	30 yr[e,f]
Adherence factor–adult	0.12 mg/cm^2	0.07 mg/cm^2	0.3 mg/cm^2	0.07 mg/cm^2
Soil ingestion rate–adult	100 mg/day	30 mg/day	330 mg/day	100 mg/day
Exposed surface area–adult	3470 cm^2/day	6032 cm^2/day	3470 cm^2/day	6032 cm^2/day

[a] Parameter values from NMED (2022, 702484) unless otherwise noted.

[b] Information from “Technical Approach for Calculating Recreational Soil Screening Levels for Chemicals, Revision 6” (N3B 2020, 701072)

[c] n/a = Not applicable.

[d] The child exposure duration for mutagens is subdivided into 0–2 yr and 2–6 yr.

[e] Exposure duration for lifetime resident is 26 yr. For carcinogens, the exposures are combined for child (6 yr) and adult (20 yr).

[f] The adult exposure duration for mutagens is subdivided into 6–16 yr and 16–30 yr.

Table F-4.1-2
Parameter Values Used to Calculate Radionuclide SALs
for the Industrial and Construction Worker Scenarios

Parameters	Industrial, Adult	Construction Worker, Adult
Inhalation rate (m^3/yr)	7780[a]	7780[a]
Mass loading (g/m^3)	1.5×10^{-7} [b]	0.0004[c]
Outdoor time fraction	0.2053[d]	0.2282[e]
Indoor time fraction	0[f]	0
Soil ingestion (g/yr)	109.6[g]	362[h]

[a] Calculated as [21.3 m^3/day × 365.25 days/yr], where 21.3 m^3/day is the upper percentile daily inhalation rate of an adult from 21 to less than 61 yr old (EPA 2011, 208374, Table 6-1).

[b] Calculated as (1/6.6 × 10^9 m^3/kg) × 1000 g/kg, where 6.6 × 10^9 m^3/kg is the particulate emission factor (NMED 2022, 702484).

[c] Calculated as (1/2.1 × 10^6 m^3/kg) × 1000 g/kg, where 2.1 × 10^6 m^3/kg is the particulate emission factor (NMED 2022, 702484).

[d] Calculated as (8 hr/day × 225 days/yr)/8766 hr/yr, where 8 hr/day is an estimate of the average length of the work day and 225 days/yr is the exposure frequency (NMED 2022, 702484).

[e] Calculated as (8 hr/day × 250 days/yr)/8766 hr/yr, where 8 hr/day is an estimate of the average length of the work day and 250 days/yr is the exposure frequency (NMED 2022, 702484).

[f] The commercial/industrial worker is defined as someone who "spends most of the work day conducting maintenance or manual labor activities outdoors" (NMED 2022, 702484).

[g] The soil-ingestion rate compensates for the time-based occupancy factor applied by RESRAD in calculating exposure from the soil-ingestion pathway. Calculated as [0.1 g/day × 225 days/yr]/ [indoor + outdoor time fractions], where 0.1 g/day is the site-related daily adult soil-ingestion rate (NMED 2022, 702484).

[h] The soil-ingestion rate compensates for the time-based occupancy factor applied by RESRAD in calculating exposure from the soil ingestion pathway. Calculated as [0.33 g/day × 250 days/yr]/ [indoor + outdoor time fractions], where 0.33 g/day is the site-related daily soil ingestion rate for a construction worker (NMED 2022, 702484).

Table F-4.1-3
Parameter Values Used to Calculate Radionuclide SALs for the Residential Scenario

Parameters	Residential, Child	Residential, Adult
Inhalation rate (m^3/yr)	4712[a]	7780[b]
Mass loading (g/m^3)	1.5×10^{-7} [c]	1.5×10^{-7} [c]
Outdoor time fraction	0.0926[d]	0.0934[e]
Indoor-time fraction	0.8656[f]	0.8648[g]
Soil ingestion (g/yr)	73[h]	36.5[i]

[a] Calculated as 12.9 m^3/day × 365.25 days/yr, where 12.9 m^3/day is the mean upper percentile daily inhalation rate of a child (EPA 2011, 208374, Table 6-1).

[b] Calculated as 21.3 m^3/day × 365.25 days/yr, where 21.3 m^3/day is the mean upper percentile daily inhalation rate of an adult from 21 to less than 61 yr old (EPA 2011, 208374, Table 6-1).

[c] Calculated as (1/6.6×10^9 m^3/kg) × 1000 g/kg, where 6.6×10^9 m^3/kg is the particulate emission factor (NMED 2015, 600915).

[d] Calculated as (2.32 hr/day × 350 day/yr)/8766 hr/yr, where 2.32 hr/day (139 min) is the largest amount of time spent outdoors for child age groups between 1 to less than 3 mo and 3 to less than 6 yr (EPA 2011, 208374, Table 16-1) and is comparable with the adult time spent outdoors at a residence.

[e] Calculated as (2.34 hr/day × 350 days/yr)/8766 hr/yr, where 4.68 hr/day is the average total time spent outdoors for adults age 18 to less than 65 yr in all environments (EPA 2011, 208374, Table 16-1); 50% of this value (2.34 hr/day) was applied to time spent outdoors at a residence and is similar to mean time outdoors at a residence for this age group (EPA 2011, 208374, Table 16-22).

[f] Calculated as [(24 hr/day–2.32 hr/day) × 350 days/yr]/8766 hr/yr.

[g] Calculated as [(24 hr/day–2.34 hr/day) × 350 days/yr]/8766 hr/yr.

[h] The soil ingestion rate compensates for the time-based occupancy factor applied by RESRAD in calculating exposure from the soil ingestion pathway. Calculated as (0.2 g/day × 350 days/yr)/(indoor + outdoor time fractions), where 0.2 g/day is the upper percentile site-related daily child soil ingestion rate (NMED 2022, 702484; EPA 2011, 208374, Table 5-1).

[i] The soil ingestion rate compensates for the time-based occupancy factor applied by RESRAD in calculating exposure from the soil ingestion pathway. Calculated as (0.1 g/day × 350 days/yr)/(indoor + outdoor time fractions), where 0.1 g/day is the site-related daily adult soil ingestion rate (NMED 2022, 702484).

Table F-4.1-4
Parameter Values Used to Calculate Radionuclide SALs for the Recreational Scenario

Parameters	Residential, Child	Residential, Adult
Inhalation rate (m^3/yr)	15,250[a]	19,460[b]
Mass loading (g/m^3)	1.5×10^{-7}[c]	1.5×10^{-7}[c]
Outdoor time fraction	0.0228[d]	0.0228[d]
Indoor-time fraction	0	0
Soil ingestion (g/yr)	797[e]	244[f]

[a] Calculated as (0.029 m^3/min × 60 min/h × 24 h/d × 365.25 d/yr), where 0.029 m^3/min is the upper percentile child inhalation rate for moderate activity for 6 to less than 11 yr old (EPA 2011, 208374, Table 6-2).

[b] Calculated as (0.037 m^3/min × 60 min/h × 24 h/d × 365.25 d/yr), where 0.037 m3/min is the age-weighted upper percentile adult inhalation rate for moderate activity (12 to 35 yr) (EPA 2011, 208374, Table 6-2).

[c] Calculated as (1 / 6.61 × 109 m3/kg) × 1000 g/kg, where 6.61 × 109 m^3/kg is the particulate emission factor used for residential and industrial scenarios (NMED 2015, 600575).

[d] Calculated as (1 h/d × 200 d/yr)/8766 h/yr, where 1 h/d is the exposure time for a recreational adult or child and 200 d/yr is the exposure frequency (LANL 2012, 228733).

[e] The soil ingestion rate is defined to compensate for the time-based occupancy factor applied by RESRAD in calculating exposure from the soil ingestion pathway. 100% of daily soil ingestion is protectively assumed to occur during outdoor activity. Calculated as [(0.2 g/d / 2.2 h/d) × 1 h/d × 200 d/yr)]/[indoor + outdoor time fractions], where 2.2 h/d is the mean time spent outdoors per day for a 6 to less than 11 yr old child (EPA 2011, 208374, Table 16-1), and where 0.2 g/d is the upper bound child soil ingestion rate (EPA 2011, 208374, Table 5-1; NMED 2015, 600575).

[f] Calculated as [(0.1 g/d/3.6 h/d) × 1 h/d × 200 d/yr)]/[indoor + outdoor time fractions], where 3.6 h/d is the mean time spent outdoors per d for an adult (12 to 35 yr) (EPA 2011, 208374, Table 16-1) and where 0.1 g/d is the adult soil ingestion rate (NMED 2015, 600575).

Table F-4.2-1
Industrial Carcinogenic Screening Evaluation for Tract A-8-a

COPC	EPC (mg/kg)	Industrial SSL* (mg/kg)	Cancer Risk
Aroclor-1260	0.141	11.1	1.27E-07
Benzene	0.00128	87.2	1.47E-10
Benzo(a)anthracene	0.0836	32.3	2.59E-08
Benzo(a)pyrene	0.0736	23.6	3.12E-08
Benzo(b)fluoranthene	0.108	32.3	3.34E-08
Benzo(k)fluoranthene	0.0403	323	1.25E-09
Bis(2-ethylhexyl)phthalate	0.16	1830	8.74E-10
Chrysene	0.0918	3230	2.84E-10
Indeno(1,2,3-cd)pyrene	0.0267	32.3	8.27E-09
Methylene chloride	0.00306	14,400	2.12E-12
1-Methylnaphthalene	0.0218	813	2.68E-10
Naphthalene	0.0143	108	1.32E-09
TCDD TEQ	0.0000008561	0.000238	3.60E-08
		Total Excess Cancer Risk	**3E-07**

* SSLs from NMED (2022, 702484).

Table F-4.2-2
Industrial Noncarcinogenic
Screening Evaluation for Tract A-8-a

COPC	EPC (mg/kg)	Industrial SSL[a] (mg/kg)	HQ
Antimony	0.401	519	7.73E-04
Mercury	0.026	389	6.68E-05
Nitrate	9.328	2,080,000	4.48E-06
Nitrite	0.771	130,000	5.93E-06
Perchlorate	0.00128	908	1.41E-06
Selenium	1.211	6490	1.87E-04
Acenaphthene	0.036	50,500	7.13E-07
Anthracene	0.122	253,000	4.82E-07
Benzene	0.00128	729	1.76E-06
Benzo(a)pyrene	0.0736	251	2.93E-04
Benzo(g,h,i)perylene[b]	0.0355	25,300	1.40E-06
Bis(2-ethylhexyl)phthalate	0.16	18,300	8.74E-06
Di-n-butylphthalate	0.175	91,600	1.91E-06
Fluoranthene	0.207	33,700	6.14E-06
Methylene chloride	0.00306	5130	5.96E-07

Table F-4.2-2 (continued)

COPC	EPC (mg/kg)	Industrial SSL[a] (mg/kg)	HQ
1-Methylnaphthalene	0.0218	58,900	3.70E-07
2-Methylnaphthalene	0.028	3370	8.31E-06
Naphthalene	0.0143	843	1.70E-05
Phenanthrene	0.134	27,500	4.87E-06
Pyrene	0.18	25,300	7.11E-06
TCDD TEQ	0.0000008561	0.000808	1.06E-03
Toluene	0.00243	61,300	3.96E-08
1,2,4-Trimethylbenzene	0.000523	1800[c]	2.91E-07
Hazard Index			**0.002**

[a] SSLs from NMED (2022, 702484).

[b] Pyrene is used as a surrogate for benzo(g,h,i)perylene based on structural similarity (NMED 2022, 702484).

[c] EPA regional screening levels, https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables, May 2023.

Table F-4.2-3
Industrial Radionuclide Screening
Evaluation with Unsubstituted Data for Tract A-8-a

COPC	EPC (pCi/g)	Industrial SAL* (pCi/g)	Dose (mrem/yr)
Plutonium-239/240	0.0402	1200	8.38E-04
Tritium	5.69	2,400,000	5.93E-05
		Total Dose	**8.97E-04**

* SALs from LANL (2015, 600929).

Table F-4.2-4
Industrial Radionuclide Screening
Evaluation with Substituted Data for Tract A-8-a

COPC	EPC[a] (pCi/g)	Industrial SAL[b] (pCi/g)	Dose (mrem/yr)
Plutonium-239/240	0.0438	1200	9.13E-04
Tritium	5.69	2,400,000	5.93E-05
		Total Dose	**0.000972**

[a] See section F-3.3, Exposure Point Concentration Calculations.

[b] SALs from LANL (2015, 600929).

Table F-4.2-5
Recreational Carcinogenic
Screening Evaluation for Tract A-8-a

COPC	EPC (mg/kg)	Recreational SSL* (mg/kg)	Cancer Risk
Aroclor-1260	0.141	10.3	1.37E-07
Benzene	0.00128	430	2.98E-11
Benzo(a)anthracene	0.0836	89	9.39E-09
Benzo(a)pyrene	0.0736	8.9	8.27E-08
Benzo(b)fluoranthene	0.108	89	1.21E-08
Benzo(k)fluoranthene	0.0403	890	4.53E-10
Bis(2-ethylhexyl)phthalate	0.16	1800	8.89E-10
Chrysene	0.0918	8880	1.03E-10
Indeno(1,2,3-cd)pyrene	0.0267	8.88	3.00E-09
Methylene chloride	0.00306	9700	3.15E-12
1-Methylnaphthalene	0.0218	743	2.95E-10
Naphthalene	0.0143	1930	7.53E-11
TCDD TEQ	0.0000008561	0.000297	2.85E-08
		Total Excess Cancer Risk	**3E-07**

*SSLs from N3B (2020, 701072).

Table F-4.2-6
Recreational Noncarcinogenic
Screening Evaluation for Tract A-8-a

COPC	EPC (mg/kg)	Recreational SSL[a] (mg/kg)	HQ
Antimony	0.401	250	1.60E-03
Mercury	0.026	186	1.40E-04
Nitrate	9.328	991,000	9.41E-06
Nitrite	0.771	61,900	1.25E-05
Perchlorate	0.00128	434	2.95E-06
Selenium	1.211	3100	3.91E-04
Acenaphthene	0.036	17,300	2.08E-06
Anthracene	0.122	86,000	1.42E-06
Benzene	0.00128	1800	7.11E-07
Benzo(a)pyrene	0.0736	86	8.56E-04
Benzo(g,h,i)perylene[b]	0.0355	8630	4.11E-06
Bis(2-ethylhexyl)phthalate	0.16	6600	2.42E-05
Di-n-butylphthalate	0.175	32,800	5.34E-06

Table F-4.2-6 (continued)

COPC	EPC (mg/kg)	Recreational SSL[a] (mg/kg)	HQ
Fluoranthene	0.207	11,500	1.80E-05
Methylene chloride	0.00306	3610	8.48E-07
2-Methylnaphthalene	0.0218	20,100	1.08E-06
1-Methylnaphthalene	0.028	1150	2.43E-05
Naphthalene	0.0143	3220	4.44E-06
Phenanthrene	0.134	8630	1.55E-05
Pyrene	0.18	8630	2.09E-05
TCDD TEQ	0.0000008561	0.000342	2.50E-03
Toluene	0.00243	47600	5.11E-08
1,2,4-Trimethylbenzene	0.000523	5010	1.05E-07
		Hazard Index	**0.006**

[a] SSLs from N3B (2020, 701072).

[b] Pyrene is used as a surrogate for benzo(g,h,i)perylene based on structural similarity (NMED 2022, 702484).

Table F-4.2-7
Recreational Radionuclide Screening
Evaluation with Unsubstituted Data for Tract A-8-a

COPC	EPC (pCi/g)	Recreational SAL* (pCi/g)	Dose (mrem/yr)
Plutonium-239/240	0.0402	1300	7.73E-04
Tritium	5.69	5,700,000	2.50E-05
		Total Dose	**7.98E-04**

* SALs from LANL (2015, 600929).

Table F-4.2-8
Recreational Radionuclide Screening
Evaluation with Substituted Data for Tract A-8-a

COPC	EPC[a] (pCi/g)	Recreational SAL[b] (pCi/g)	Dose (mrem/yr)
Plutonium-239/240	0.0438	1300	8.42E-04
Tritium	5.69	5,700,000	2.50E-05
		Total Dose	**0.000867**

[a] See section F-3.3, Exposure Point Concentration Calculations.

[b] SALs from LANL (2015, 600929).

Table F-4.2-9
Construction Worker Carcinogenic
Screening Evaluation for Tract A-8-a

COPC	EPC (mg/kg)	Construction Worker SSL[a] (mg/kg)	Cancer Risk
Arsenic	2.832	216	1.31E-07
Chromium	10.04	468	2.15E-07
Nickel	8.277	25,000	3.31E-09
Aroclor-1254	0.0536	85.3	6.28E-09
Aroclor-1260	0.0573	85.3	6.72E-09
Benzene	0.00128	423	3.03E-11
Benzo(a)anthracene	0.0322	240	1.34E-09
Benzo(a)pyrene	0.0292	173	1.69E-09
Benzo(b)fluoranthene	0.0446	240	1.86E-09
Benzo(k)fluoranthene	0.0134	2310	5.80E-11
Bis(2-ethylhexyl)phthalate	0.0292	13,400	2.18E-11
Butyl benzyl phthalate	3.63	99,100[b]	3.66E-10
Chrysene	0.036	23,100	1.56E-11
Dibenz(a,h)anthracene	0.00323	24	1.35E-09
Indeno(1,2,3-cd)pyrene	0.00926	240	3.86E-10
Methylene chloride	0.00774	89,600	8.64E-13
1-Methylnaphthalene	0.026	6060	4.29E-11
Naphthalene	0.0205	633	3.24E-10
TCDD TEQ	0.0000004417	0.00172	2.57E-09
Total Excess Cancer Risk			**4E-07**

[a] SSLs from NMED (2022, 702484).

[b] Construction worker SSL calculated using toxicity value from EPA regional screening levels (https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables) and equation and parameters in NMED guidance (NMED 2022, 702484).

Table F-4.2-10
Construction Worker Noncarcinogenic Screening Evaluation for Tract A-8-a

COPC	EPC (mg/kg)	Construction Worker SSL[a] (mg/kg)	HQ
Aluminum	13,584	41,400	3.28E-01
Antimony	0.381	142	2.68E-03
Arsenic	2.832	41.2	6.87E-02
Barium	112.4	4390	2.56E-02
Chromium	10.04	134	7.49E-02
Copper	7.462	14,200	5.25E-04
Mercury	0.0293	77.1	3.80E-04
Nickel	8.277	753	1.10E-02
Nitrate	5.754	566,000	1.02E-05
Nitrite	0.771	35,400	2.18E-05
Perchlorate	0.00461	248	1.86E-05
Selenium	1.424	1750	8.14E-04
Acenaphthene	0.036	15,100	2.38E-06
Acetone	0.00238	242,000	9.83E-09
Anthracene	0.00666	75,300	8.84E-08
Aroclor-1254	0.0536	4.91	1.09E-02
Benzene	0.00128	142	9.01E-06
Benzo(a)pyrene	0.0292	15	1.95E-03
Benzo(g,h,i)perylene[c]	0.014	7530	1.86E-06
Bis(2-ethylhexyl)phthalate	0.0292	5380	5.43E-06
2-Butanone	0.00176	91,700	1.92E-08
Butyl benzyl phthalate	3.63	53,800[b]	6.75E-05
Di-n-butylphthalate	0.086	26,900	3.20E-06
Fluoranthene	0.0768	10,000	7.68E-06
Fluorene	0.0277	10,000	2.77E-06
Methylene chloride	0.00774	1210	6.40E-06
1-Methylnaphthalene	0.026	17,600	1.48E-06
2-Methylnaphthalene	0.0297	1000	2.97E-05
Naphthalene	0.0205	159	1.29E-04
Phenanthrene	0.0517	8070	6.41E-06
Pyrene[b]	0.0703	7530	9.34E-06
TCDD TEQ	0.0000004417	0.000226	1.95E-03
Toluene	0.00243	14,000	1.74E-07
1,2,4-Trimethylbenzene	0.000523	504[c]	1.04E-06
		Hazard Index	**0.5**

[a] SSLs from NMED (2022, 702484).

[b] Pyrene is used as a surrogate for benzo(g,h,i)perylene based on structural similarity (NMED 2022, 702484).

[c] Construction worker SSL calculated using toxicity value from EPA regional screening levels (https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables) and equation and parameters in NMED guidance (NMED 2022, 702484).

Table F-4.2-11
Construction Worker Radionuclide Screening
Evaluation with Unsubstituted Data for Tract A-8-a

COPC	EPC (pCi/g)	Construction Worker SAL* (pCi/g)	Dose (mrem/yr)
Plutonium-239/240	1.11	200	1.39E-01
Strontium-90	0.625	1400	1.12E-02
Thorium-228	1.598	15	2.66E+00
Tritium	5.69	1,600,000	8.89E-05
Uranium-234	1.456	1000	3.64E-02
Uranium-235/236	0.0387	130	7.44E-03
Uranium-238	1.532	470	8.15E-02
		Total Dose	**2.81E+00**

* SALs from LANL (2015, 600929).

Table F-4.2-12
Construction Worker Radionuclide Screening
Evaluation with Substituted Data for Tract A-8-a

COPC	EPC[a] (pCi/g)	Construction Worker SAL[b] (pCi/g)	Dose (mrem/yr)
Plutonium-239/240	0.0457	200	5.71E-03
Strontium-90	0.625	1400	1.12E-02
Thorium-228	1.598	15	2.66E+00
Tritium	5.69	1,600,000	8.89E-05
Uranium-234	1.456	1000	3.64E-02
Uranium-235/236	0.0638	130	1.23E-02
Uranium-238	1.532	470	8.15E-02
		Total Dose	**2.81**

[a] See section F-3.3, Exposure Point Concentration Calculations.

[b] SALs from LANL (2015, 600929).

Table F-4.2-13
Residential Carcinogenic Screening Evaluation for Tract A-8-a

COPC	EPC (mg/kg)	Residential SSL[a] (mg/kg)	Cancer Risk
Arsenic	2.832	7.07	4.01E-06
Chromium	10.04	96.6	1.02E-06
Nickel	8.277	595,000	1.39E-10
Aroclor-1254	0.0536	2.43	2.21E-07
Aroclor-1260	0.0573	2.43	2.36E-07
Benzene	0.00128	17.8	7.19E-10
Benzo(a)anthracene	0.0322	1.53	2.18E-07
Benzo(a)pyrene	0.0292	1.12	2.61E-07
Benzo(b)fluoranthene	0.0446	1.53	2.92E-07
Benzo(k)fluoranthene	0.0134	15.3	8.76E-09
Bis(2-ethylhexyl)phthalate	0.0292	380	7.86E-10
Butyl benzyl phthalate	3.63	2900[b]	1.25E-08
Chrysene	0.036	153	2.35E-09
Dibenz(a,h)anthracene	0.00323	0.153	2.11E-07
Indeno(1,2,3-cd)pyrene	0.00926	1.53	6.05E-08
Methylene chloride	0.00774	766	1.01E-10
1-Methylnaphthalene	0.026	172	1.51E-09
Naphthalene	0.0205	22.6	9.07E-09
TCDD TEQ	0.0000004417	0.000049	9.01E-08
		Total Excess Cancer Risk	**7E-06**

[a] SSLs from NMED (2022, 702484).

[b] EPA regional screening levels (https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables).

Table F-4.2-14
Residential Noncarcinogenic Screening Evaluation for Tract A-8-a

COPC	EPC (mg/kg)	Residential SSL[a] (mg/kg)	HQ
Aluminum	13,584	78,000	1.74E-01
Antimony	0.381	31.3	1.22E-02
Arsenic	2.832	13	2.18E-01
Barium	112.4	15,600	7.22E-03
Chromium	10.04	45,200	2.19E-04
Copper	7.462	3130	2.39E-03
Mercury	0.0293	23.5	1.25E-03
Nickel	8.277	1560	5.31E-03
Nitrate	5.754	125,000	4.63E-05

Table F-4.2-14 (continued)

COPC	EPC (mg/kg)	Residential SSL[a] (mg/kg)	HQ
Nitrite	0.771	7820	9.86E-05
Perchlorate	0.00461	54.8	8.41E-05
Selenium	1.421	391	3.63E-03
Acenaphthene	0.036	3480	1.03E-05
Acetone	0.00238	66,300	3.59E-08
Anthracene	0.00666	17,400	3.83E-07
Aroclor-1254	0.0536	1.14	4.70E-02
Benzene	0.00128	114	1.12E-05
Benzo(a)pyrene	0.0292	17.4	1.68E-03
Benzo(g,h,i)perylene[b]	0.014	1740	8.05E-06
Bis(2-ethylhexyl)phthalate	0.0292	1230	2.37E-05
2-Butanone	0.00176	37,400	4.71E-08
Butyl benzyl phthalate	3.63	13,000	2.79E-04
Di-n-butylphthalate	0.086	6160	1.40E-05
Fluoranthene	0.0768	2320	3.31E-05
Fluorene	0.0277	2320	1.19E-05
Methylene chloride	0.00774	409	1.89E-05
1-Methylnaphthalene	0.026	4060	6.40E-06
2-Methylnaphthalene	0.0297	232	1.28E-04
Naphthalene	0.0205	162	1.28E-04
Phenanthrene	0.0517	1850	2.76E-05
Pyrene[c]	0.0703	1740	3.96E-05
TCDD TEQ	0.0000004417	0.0000506	7.10E-03
Toluene	0.00243	5230	4.65E-07
1,2,4-Trimethylbenzene	0.000523	300[b]	1.74E-06
		Hazard Index	**0.5**

[a] SSLs from NMED (2022, 702484).

[b] EPA regional screening levels (https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables).

[c] Pyrene is used as a surrogate for benzo(g,h,i)perylene based on structural similarity (NMED 2022, 702484).

Table F-4.2-15
Residential Radionuclide Screening
Evaluation with Unsubstituted Data for Tract A-8-a

COPC	EPC (pCi/g)	Residential SAL* (pCi/g)	Dose (mrem/yr)
Plutonium-239/240	1.11	79	3.51E-01
Strontium-90	0.625	15	1.04E+00
Thorium-228	1.598	4.6	8.68E+00
Tritium	5.69	1700	8.37E-02
Uranium-234	1.456	290	1.26E-01
Uranium-235/236	0.0387	42	2.30E-02
Uranium-238	1.532	150	2.55E-01
		Total Dose	**10.57**

***** SALs from LANL (2015, 600929).

Table F-4.2-16
Residential Radionuclide Screening
Evaluation with Substituted Data for Tract A-8-a

COPC	EPC[a] (pCi/g)	Residential SAL[b] (pCi/g)	Dose (mrem/yr)
Plutonium-239/240	0.0457	79	1.45E-02
Strontium-90	0.625	15	1.04E+00
Thorium-228	1.598	4.6	8.68E+00
Tritium	5.69	1700	8.37E-02
Uranium-234	1.456	290	1.26E-01
Uranium-235/236	0.0638	42	3.80E-02
Uranium-238	1.532	150	2.55E-01
		Total Dose	**10.24**

[a] See section F-3.3, Exposure Point Concentration Calculations.

[b] SALs from LANL (2015, 600929).

Table F-4.2-17
Industrial Carcinogenic
Screening Evaluation for Tract A-16-a

COPC	EPC (mg/kg)	Industrial SSL* (mg/kg)	Cancer Risk
Nickel	6.9	2,890,000	2.39E-11
Aroclor-1254	0.0275	11	2.50E-08
Aroclor-1260	0.0139	11.1	1.25E-08
Benzene	0.000585	87.2	6.71E-11
Benzo(a)anthracene	0.0254	32.3	7.86E-09
Benzo(a)pyrene	0.0182	23.6	7.71E-09
Benzo(b)fluoranthene	0.0315	32.3	9.75E-09
Benzo(k)fluoranthene	0.00749	323	2.32E-10
Bis(2-ethylhexyl)phthalate	0.0226	1830	1.23E-10
Butyl benzyl phthalate	0.149	12,000	1.24E-10
Chloroform	0.0197	28.7	6.86E-09
Chrysene	0.0305	3230	9.44E-11
Dibenz(a,h)anthracene	0.0024	3.23	7.43E-09
1,4-Dioxane	0.42	257	1.63E-08
Indeno(1,2,3-cd)pyrene	0.00793	32.3	2.46E-09
Methylene chloride	0.024	14,400	1.67E-11
1-Methylnaphthalene	0.0861	813	1.06E-09
Naphthalene	0.0721	108	6.68E-09
RDX	0.445	428	1.04E-08
TCDD TEQ	0.0000005392	0.000238	2.27E-08
Total Excess Cancer Risk			**1E-07**

* SSLs from NMED (2022, 702484).

Table F-4.2-18
Industrial Noncarcinogenic
Screening Evaluation for Tract A-16-a

COPC	EPC (mg/kg)	Industrial SSL[a] (mg/kg)	HQ
Antimony	0.362	519	6.97E-04
Copper	127.6	51,900	2.46E-03
Cyanide (Total)	0.059	63.3	9.32E-04
Mercury	0.0304	389	7.81E-05
Nickel	6.9	25,700	2.68E-04
Nitrate	4.422	2,080,000	2.13E-06
Nitrite	0.653	130,000	5.02E-06
Perchlorate	0.00308	908	3.39E-06

Table F-4.2-18 (continued)

COPC	EPC (mg/kg)	Industrial SSL[a] (mg/kg)	HQ
Selenium	1.735	6490	2.67E-04
Silver	0.407	6490	6.27E-05
Zinc	92.57	389,000	2.38E-04
Acenaphthene	0.0037	50,500	7.33E-08
Acenaphthylene[b]	0.019	25,300	7.51E-07
Anthracene	0.00638	253,000	2.52E-08
Aroclor-1254	0.0275	16.4	1.68E-03
Benzene	0.000585	729	8.02E-07
Benzo(a)pyrene	0.0182	251	7.25E-05
Benzo(g,h,i)perylene[b]	0.014	25,300	5.53E-07
Benzoic Acid	0.474	3,300,000[c]	1.44E-07
Bis(2-ethylhexyl)phthalate	0.0226	18,300	1.23E-06
2-Butanone	0.256	411,000	6.23E-07
Butyl benzyl phthalate	0.149	160,000[c]	9.31E-07
Carbazole[d]	0.196	1200	1.63E-04
Chloroform	0.0197	2000	9.85E-06
2-Chloronaphthalene	0.00489	104,000	4.70E-08
Dibenzofuran	0.125	1200	1.04E-04
Dimethyl phthalate	0.0193	916,000	2.11E-08
Di-n-butylphthalate	0.0366	91,600	4.00E-07
1,4-Dioxane	0.42	27,500	1.53E-05
Fluoranthene	0.0696	33,700	2.07E-06
Fluorene	0.0346	33,700	1.03E-06
4-Isopropyltoluene[e]	0.00222	14,200	1.56E-07
Methylene chloride	0.024	5130	4.68E-06
1-Methylnaphthalene	0.0861	58,900	1.46E-06
2-Methylnaphthalene	0.115	3370	3.41E-05
Naphthalene	0.0721	843	8.55E-05
Phenanthrene	0.0561	27,500	2.04E-06
Pyrene	0.0439	25,300	1.74E-06
RDX	0.445	4890	9.10E-05
TCDD TEQ	0.0000005392	0.000808	6.67E-04
Toluene	0.0003536	61,300	5.77E-09
1,2-Xylene	0.000322	3940	8.17E-08
		Hazard Index	**0.008**

[a] SSLs from NMED (2022, 702484).

[b] Pyrene is used as a surrogate for benzo(g,h,i)perylene based on structural similarity (NMED 2022, 702484).

[c] EPA regional screening levels (https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables, May 2023).

[d] Dibenzofuran is used as a surrogate for carbazole based on structural similarity (regional screening level from EPA, https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables, May 2023).

[e] Isopropylbenzene is used as a surrogate for 4-isopropyltoluene based on structural similarity (NMED 2022, 702484).

Table F-4.2-19
Industrial Radionuclide Screening
Evaluation with Unsubstituted Data for Tract A-16-a

COPC	EPC (pCi/g)	Industrial SAL* (pCi/g)	Dose (mrem/yr)
Americium-241	0.0652	1000	1.63E-03
Plutonium-238	0.079	1300	1.52E-03
Plutonium-239/240	1.339	1200	2.79E-02
Strontium-90	2.2	2400	2.29E-02
Thorium-230	1.283	5	6.42E+00
Uranium-234	1.091	3100	8.80E-03
Uranium-238	1.141	710	4.02E-02
		Total Dose	**6.52**

* SALs from LANL (2015, 600929).

Table F-4.2-20
Industrial Radionuclide Screening
Evaluation with Substituted Data for Tract A-16-a

COPC	EPC[a] (pCi/g)	Industrial SAL[b] (pCi/g)	Dose (mrem/yr)
Americium-241	0.0652	1000	1.63E-03
Plutonium-238	0.079	1300	1.52E-03
Plutonium-239/240	1.34	1200	2.79E-02
Strontium-90	0.0691	2400	7.20E-04
Thorium-230	1.283	5	6.42E+00
Uranium-234	1.092	3100	8.81E-03
Uranium-238	1.144	710	4.03E-02
		Total Dose	**6.50**

[a] See section F-3.3, Exposure Point Concentration Calculations.

[b] SALs from LANL (2015, 600929).

Table F-4.2-21
Recreational Carcinogenic Screening Evaluation for Tract A-16-a

COPC	EPC (mg/kg)	Recreational SSL* (mg/kg)	Cancer Risk
Nickel	6.9	30,000,000	2.30E-12
Aroclor-1254	0.0275	10.3	2.67E-08
Aroclor-1260	0.0139	10.3	1.35E-08
Benzene	0.000585	430	1.36E-11
Benzo(a)anthracene	0.0254	89	2.85E-09
Benzo(a)pyrene	0.0182	8.9	2.04E-08
Benzo(b)fluoranthene	0.0315	89	3.54E-09
Benzo(k)fluoranthene	0.00749	890	8.42E-11
Bis(2-ethylhexyl)phthalate	0.0226	1800	1.26E-10
Butyl benzyl phthalate	0.149	13,100	1.14E-10
Chloroform	0.0197	204	9.85E-10
Chrysene	0.0305	8880	3.43E-11
Dibenz(a,h)anthracene	0.0024	8.88	2.70E-09
1,4-Dioxane	0.42	248	1.69E-08
Indeno(1,2,3-cd)pyrene	0.00793	88.8	8.90E-10
Methylene chloride	0.024	9700	2.47E-11
1-Methylnaphthalene	0.0861	743	1.16E-09
Naphthalene	0.0721	1930	3.74E-10
RDX	0.445	399	1.12E-08
TCDD TEQ	0.0000005392	-0.000297	1.82E-08
Total Excess Cancer Risk			**1E-07**

* SSLs from N3B (2020, 701072).

Table F-4.2-22
Recreational Noncarcinogenic Screening Evaluation for Tract A-16-a

COPC	EPC (mg/kg)	Recreational SSL[a] (mg/kg)	HQ
Antimony	0.362	250	1.45E-03
Copper	127.6	24800	5.15E-03
Cyanide (Total)	0.059	224	2.63E-04
Mercury	0.0304	186	1.63E-04
Nickel	6.9	12,400	5.56E-04
Nitrate	4.422	991,000	4.46E-06
Nitrite	0.653	61,900	1.05E-05
Perchlorate	0.00308	4304	7.10E-06
Selenium	1.735	3100	5.60E-04
Silver	0.407	3100	1.31E-04

Table F-4.2-22 (continued)

COPC	EPC (mg/kg)	Recreational SSL[a] (mg/kg)	HQ
Zinc	92.57	186000	4.98E-04
Acenaphthene	0.0037	17,300	2.14E-07
Anthracene	0.00638	86,000	7.42E-08
Aroclor-1254	0.0275	5.53	7.97E-03
Benzene	0.000585	1800	3.25E-07
Benzo(a)pyrene	0.0182	86	2.12E-04
Benzo(g,h,i)perylene[b]	0.014	8630	1.62E-06
Benzoic Acid	0.474	1,310,000	3.62E-07
Bis(2-ethylhexyl)phthalate	0.0226	6600	3.42E-06
2-Butanone	0.256	350,000	7.31E-07
Butyl benzyl phthalate	0.149	65,700	2.27E-06
Chloroform	0.0197	4700	4.19E-06
2-Chloronaphthalene	0.00489	49,500	9.88E-08
Carbazole[c]	0.196	489	4.01E-04
Dibenzofuran	0.125	489	2.56E-04
Dimethyl Phthalate	0.0193	328,000	5.88E-08
Di-n-butylphthalate	0.0366	32,800	1.12E-06
1,4-Dioxane	0.42	9850	4.26E-05
Fluoranthene	0.0696	11,500	6.05E-06
Fluorene	0.0346	11,500	3.01E-06
4-Isopropyltoluene[d]	0.00222	42,100	5.27E-08
Methylene chloride	0.024	3610	6.65E-06
1-Methylnaphthalene	0.0861	20,100	4.28E-06
2-Methylnaphthalene	0.115	1150	1.00E-04
Naphthalene	0.0721	3200	2.25E-05
Phenanthrene	0.0561	8630	6.50E-06
Pyrene	0.0439	8630	5.09E-06
RDX	0.445	2190	2.03E-04
TCDD TEQ	0.0000005392	0.000342	1.58E-03
Toluene	0.0003536	47,600	7.43E-09
1,2-Xylene	0.000322	26,000	1.24E-08
		Hazard Index	**0.02**

[a] SSLs from N3B (2020, 701072).

[b] Pyrene is used as a surrogate for benzo(g,h,i)perylene based on structural similarity (NMED 2022, 702484).

[c] Dibenzofuran is used as a surrogate for carbazole based on structural similarity (regional screening level from EPA, https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables May 2023).

[d] Isopropylbenzene is used as a surrogate for 4-isopropyltoluene based on structural similarity (NMED 2022, 702484).

Table F-4.2-23
Recreational Radionuclide Screening
Evaluation with Unsubstituted Data for Tract A-16-a

COPC	EPC (pCi/g)	Recreational SAL* (pCi/g)	Dose (mrem/yr)
Americium-241	0.0652	1500	1.09E-03
Plutonium-238	0.079	1400	1.41E-03
Plutonium-239/240	1.339	1300	2.57E-02
Strontium-90	2.2	4900	1.12E-02
Thorium-230	1.283	5	6.42E+00
Uranium-234	1.091	3900	6.99E-03
Uranium-238	1.141	2800	1.02E-02
		Total Dose	**6.47**

* SALs from LANL (2015, 600929).

Table F-4.2-24
Recreational Radionuclide Screening
Evaluation with Substituted Data for Tract A-16-a

COPC	EPC[a] (pCi/g)	Recreational SAL[b] (pCi/g)	Dose (mrem/yr)
Americium-241	0.0652	1500	1.09E-03
Plutonium-238	0.079	1400	1.41E-03
Plutonium-239/240	1.34	1300	2.58E-02
Strontium-90	0.0691	4900	3.53E-04
Thorium-230	1.283	5	6.42E+00
Uranium-234	1.092	3900	7.00E-03
Uranium-238	1.144	2800	1.02E-02
		Total Dose	**6.46**

[a] See section F-3.3, Exposure Point Concentration Calculations.

[b] SALs from LANL (2015, 600929).

Table F-4.2-25
Construction Worker Carcinogenic
Screening Evaluation for Tract A-16-a

COPC	EPC (mg/kg)	Construction Worker SSL[a] (mg/kg)	Cancer Risk
Arsenic	2.311	216	1.07E-07
Chromium	6.572	468	1.40E-07
Nickel	5.934	25,000	2.37E-09
Aroclor-1254	0.0275	85.3	3.22E-09
Aroclor-1260	0.0173	85.3	2.03E-09
Benzene	0.000123	423	2.91E-12
Benzo(a)anthracene	0.0153	240	6.37E-10
Benzo(a)pyrene	0.0126	173	7.28E-10
Benzo(b)fluoranthene	0.0196	240	8.17E-10
Benzo(k)fluoranthene	0.00563	2310	2.44E-11
Bis(2-ethylhexyl)phthalate	0.0135	13,400	1.01E-11
Butyl benzyl phthalate	0.0129	99,100[b]	1.30E-12
Chloroform	0.00718	134	5.36E-10
Chrysene	0.0182	23,100	7.88E-12
Dibenz(a,h)anthracene	0.00139	24	5.79E-10
1,4-Dioxane	0.42	1880	2.23E-09
Indeno(1,2,3-cd)pyrene	0.00635	240	2.65E-10
Methylene chloride	0.01	89,600	1.12E-12
1-Methylnaphthalene	0.0505	6060	8.33E-11
Naphthalene	0.0452	633	7.14E-10
RDX	0.628	2960	2.12E-09
TCDD TEQ	0.0000004966	0.00172	2.89E-09
Trichloroethene	0.000389	5370	7.24E-13
		Total Excess Cancer Risk	**3E-07**

[a] SSLs from NMED (2022, 702484).

[b] Construction worker SSL calculated using toxicity value from EPA regional screening levels (https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables) and equation and parameters in NMED guidance (NMED 2022, 702484).

Table F-4.2-26
Construction Worker Noncarcinogenic
Screening Evaluation for Tract A-16-a

COPC	EPC (mg/kg)	Construction Worker SSL[a] (mg/kg)	HQ
Aluminum	9381	41,400	2.27E-01
Antimony	0.478	142	3.37E-03
Arsenic	2.311	41.2	5.61E-02
Barium	85.76	4390	1.95E-02
Chromium	6.572	134	4.90E-02
Copper	92.79	14,200	6.53E-03
Cyanide (Total)	0.0636	12.1	5.26E-03
Mercury	0.0286	77.1	3.71E-04
Nickel	5.934	753	7.88E-03
Nitrate	3.557	566,000	6.28E-06
Nitrite	0.0464	35,400	1.31E-06
Perchlorate	0.00299	248	1.21E-05
Selenium	1.473	1750	8.42E-04
Silver	0.503	1770	2.84E-04
Zinc	118.4	106,000	1.12E-03
Acenaphthene	0.00432	15,100	2.86E-07
Acenaphthylene[b]	0.00169	7530	2.24E-07
Acetone	0.011	242,000	4.55E-08
Acetonitrile	0.0108	1850[c]	5.84E-06
Anthracene	0.00715	75,300	9.50E-08
Aroclor-1254	0.0275	4.91	5.60E-03
Benzene	0.000123	142	8.66E-07
Benzo(a)pyrene	0.0126	15	8.40E-04
Benzo(g,h,i)perylene[b]	0.00875	7530	1.16E-06
Benzoic acid	0.198	1,080,000[c]	1.83E-07
Benzyl alcohol	0.119	26,900[c]	4.42E-06
Bis(2-ethylhexyl)phthalate	0.0135	5380	2.51E-06
2-Butanone	0.258	91,700	2.81E-06
Butyl benzyl phthalate	0.0129	53,800[c]	2.40E-07
Carbazole[d]	0.0133	251[c]	5.30E-05
Chloroform	0.00718	391	1.84E-05
2-Chloronaphthalene	0.00118	28,300	4.17E-08
Dibenzofuran	0.193	354[c]	5.45E-04
Diethyl Ether	36.9	70,800	5.21E-04
Diethylphthalate	0.0231	215,000	1.07E-07

Table F-4.2-26 (continued)

COPC	EPC (mg/kg)	Construction Worker SSL[a] (mg/kg)	HQ
Dimethyl Phthalate	0.0193	269,000	7.17E-08
Di-n-butylphthalate	0.0277	26,900	1.03E-06
Di-n-octylphthalate	0.158	2690[c]	5.87E-05
1,4-Dioxane	0.42	7850	5.35E-05
Fluoranthene	0.0357	10,000	3.57E-06
Fluorene	0.00452	10,000	4.52E-07
4-Isopropyltoluene[e]	0.0002309	2740	8.43E-08
Methylene chloride	0.01	1210	8.26E-06
1-Methylnaphthalene	0.0505	17,600	2.87E-06
2-Methylnaphthalene	0.0677	1000	6.77E-05
Naphthalene	0.0452	159	2.84E-04
Phenanthrene	0.0436	8070	5.40E-06
Pyrene	0.0284	7530	3.77E-06
RDX	0.628	1350	4.65E-04
TCDD TEQ	0.0000004966	0.000226	2.20E-03
Toluene	0.0003513	14,000	2.51E-08
Trichloroethene	0.000389	6.9	5.64E-05
1,2,4-Trimethylbenzene	0.000564	504[c]	1.12E-06
1,2-Xylene	0.000445	736	6.05E-07
1,3-Xylene+1,4-Xylene	0.0004187	798	5.25E-07
		Hazard Index	**0.4**

[a] SSLs from NMED (2022, 702484).

[b] Pyrene is used as a surrogate for benzo(g,h,i)perylene based on structural similarity (NMED 2022, 702484).

[c] Construction worker SSL calculated using toxicity value from EPA regional screening levels (https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables) and equation and parameters in NMED guidance (NMED 2022, 702484).

[d] Dibenzofuran is used as a surrogate for carbazole based on structural similarity (regional screening level from EPA, (https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables May 2023).

[e] Isopropylbenzene is used as a surrogate for 4-isopropyltoluene based on structural similarity (NMED 2022, 702484).

Table F-4.2-27
Construction Worker Radionuclide Screening
Evaluation with Unsubstituted Data for Tract A-16-a

COPC	EPC (pCi/g)	Construction Worker SAL* (pCi/g)	Dose (mrem/yr)
Americium-241	0.0287	230	3.12E-03
Cesium-137	0.277	37	1.87E-01
Cobalt-60	0.251	8.1	7.75E-01
Plutonium-238	0.079	230	8.59E-03
Plutonium-239/240	24.1	200	3.01E+00
Strontium-90	2.2	1400	3.93E-02
Thorium-228	1.636	15	2.73E+00
Thorium-230	1.288	5	6.44E+00
Uranium-234	1.272	1000	3.18E-02
Uranium-235/236	0.0273	130	5.25E-03
Uranium-238	1.324	470	7.04E-02
		Total Dose	**13.30**

* SALs from LANL (2015, 600929).

Table F-4.2-28
Construction Worker Radionuclide Screening
Evaluation with Substituted Data for Tract A-16-a

COPC	EPC[a] (pCi/g)	Construction Worker SAL[b] (pCi/g)	Dose (mrem/yr)
Americium-241	0.0287	230	3.12E-03
Cesium-137	0.00723	37	4.89E-03
Cobalt-60	0.251	8.1	7.75E-01
Plutonium-238	0.00133	230	1.45E-04
Plutonium-239/240	0.524	200	6.55E-02
Strontium-90	0.029	1400	5.18E-04
Thorium-228	1.636	15	2.73E+00
Thorium-230	1.288	5	6.44E+00
Uranium-234	1.295	1000	3.24E-02
Uranium-235/236	0.0438	130	8.42E-03
Uranium-238	1.325	470	7.05E-02
		Total Dose	**10.13**

[a] See section F-3.3, Exposure Point Concentration Calculations.

[b] SALs from LANL (2015, 600929).

Table F-4.2-29
Residential Carcinogenic
Screening Evaluation for Tract A-16-a

COPC	EPC (mg/kg)	Residential SSL[a] (mg/kg)	Cancer Risk
Arsenic	2.311	7.07	3.27E-06
Chromium	6.572	96.6	6.80E-07
Nickel	5.934	595,000	9.97E-11
Aroclor-1254	0.0275	2.43	1.13E-07
Aroclor-1260	0.0173	2.43	7.12E-08
Benzene	0.000123	17.8	6.91E-11
Benzo(a)anthracene	0.0153	1.53	1.00E-07
Benzo(a)pyrene	0.0126	1.12	1.13E-07
Benzo(b)fluoranthene	0.0196	1.53	1.28E-07
Benzo(k)fluoranthene	0.00563	15.3	3.68E-09
Bis(2-ethylhexyl)phthalate	0.0135	390[b]	3.46E-10
Butyl benzyl phthalate	0.0129	2900[b]	4.45E-11
Chloroform	0.00718	5.9	1.22E-08
Chrysene	0.0182	153	1.19E-09
Dibenz(a,h)anthracene	0.00139	0.153	9.08E-08
1,4-Dioxane	0.42	53.3	7.88E-08
Indeno(1,2,3-cd)pyrene	0.00635	1.53	4.15E-08
Methylene chloride	0.01	766	1.31E-10
1-Methylnaphthalene	0.0505	172	2.94E-09
Naphthalene	0.0452	22.6	2.00E-08
RDX	0.628	83.1	7.56E-08
TCDD TEQ	0.0000004966	0.000049	1.01E-07
Trichloroethene	0.000389	15.5	2.51E-10
		Total Excess Cancer Risk	**5E-06**

[a] SSLs from NMED 2022, 702484.

[b] EPA regional screening levels (https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables).

Table F-4.2-30
Residential Noncarcinogenic
Screening Evaluation for Tract A-16-a

COPC	EPC (mg/kg)	Residential SSL[a] (mg/kg)	HQ
Aluminum	9381	78,000	1.20E-01
Antimony	0.478	31.3	1.53E-02
Arsenic	2.311	13	1.78E-01
Barium	85.76	15,600	5.50E-03
Chromium	6.572	45,200	1.45E-04
Copper	92.79	3130	2.96E-02
Cyanide (Total)	0.0636	11.2	5.68E-03
Mercury	0.0286	23.5	1.22E-03
Nickel	5.934	1560	3.80E-03
Nitrate	3.557	125,000	2.85E-05
Nitrite	0.0464	7820	5.93E-06
Perchlorate	0.00299	54.8	5.46E-05
Selenium	1.473	391	3.77E-03
Silver	0.503	391	1.29E-03
Zinc	118.4	23,500	5.04E-03
Acenaphthene	0.00432	3480	1.24E-06
Acenaphthylene[c]	0.00169	1740	9.71E-07
Acetone	0.011	66,300	1.66E-07
Acetonitrile	0.0108	810[b]	1.33E-05
Anthracene	0.00715	17,400	4.11E-07
Aroclor-1254	0.0275	1.14	2.41E-02
Benzene	0.000123	114	1.08E-06
Benzo(a)pyrene	0.0126	17.4	7.24E-04
Benzo(g,h,i)perylene[c]	0.00875	1740	5.03E-06
Benzoic acid	0.198	250,000[b]	7.92E-07
Benzyl alcohol	0.119	6300[b]	1.89E-05
Bis(2-ethylhexyl)phthalate	0.0135	1230	1.10E-05
2-Butanone	0.258	37,400	6.90E-06
Butyl benzyl phthalate	0.0129	13,000[b]	9.92E-07
Carbazole[d]	0.0133	78	1.71E-04
Chloroform	0.00718	306	2.35E-05
2-Chloronaphthalene	0.00118	6260	1.88E-07
Dibenzofuran	0.193	78	2.47E-03
Diethyl Ether	36.9	15,600	2.37E-03
Diethylphthalate	0.0231	49,300	4.69E-07
Dimethyl Phthalate	0.0193	61,600	3.13E-07

Table F-4.2-30 (continued)

COPC	EPC (mg/kg)	Residential SSL[a] (mg/kg)	HQ
Di-n-butylphthalate	0.0277	6160	4.50E-06
Di-n-octylphthalate	0.158	630	2.51E-04
1,4-Dioxane	0.42	1850	2.27E-04
Fluoranthene	0.0357	2320	1.54E-05
Fluorene	0.00452	2320	1.95E-06
4-Isopropyltoluene[e]	0.0002309	2360	9.78E-08
Methylene chloride	0.01	409	2.44E-05
1-Methylnaphthalene	0.0505	4060	1.24E-05
2-Methylnaphthalene	0.0677	232	2.92E-04
Naphthalene	0.0452	162	2.79E-04
Phenanthrene	0.0436	1850	2.36E-05
Pyrene	0.0284	1740	1.63E-05
RDX	0.628	301	2.09E-03
TCDD TEQ	0.0000004966	0.0000506	9.82E-03
Toluene	0.0003513	5230	6.72E-08
Trichloroethene	0.000389	6.77	5.75E-05
1,2,4-Trimethylbenzene[b]	0.000564	300	1.88E-06
1,2-Xylene	0.000445	805	5.53E-07
1,3-Xylene+1,4-Xylene	0.0004187	871	4.81E-07
		Hazard Index	**0.4**

[a] SSLs from NMED 2022, 702484.

[b] EPA regional screening levels (https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables).

[c] Pyrene is used as a surrogate for benzo(g,h,i)perylene based on structural similarity (NMED 2022, 702484).

[d] Dibenzofuran is used as a surrogate for carbazole based on structural similarity (regional screening level from EPA, (https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables May 2023).

[e] Isopropylbenzene is used as a surrogate for 4-isopropyltoluene based on structural similarity (NMED 2022, 702484).

Table F-4.2-31
Residential Radionuclide Screening
Evaluation with Unsubstituted Data for Tract A-16-a

COPC	EPC (pCi/g)	Residential SAL* (pCi/g)	Dose (mrem/yr)
Americium-241	0.0287	83	8.64E-03
Cesium-137	0.277	12	5.77E-01
Cobalt-60	0.251	2.6	2.41E+00
Plutonium-238	0.079	84	2.35E-02
Plutonium-239/240	24.1	79	7.63E+00
Strontium-90	2.2	15	3.67E+00
Thorium-228	1.636	4.6	8.89E+00
Thorium-230	1.288	5	6.44E+00
Uranium-234	1.272	290	1.10E-01
Uranium-235/236	0.0273	42	1.63E-02
Uranium-238	1.324	150	2.21E-01
		Total Dose	**29.99**

* SALs from LANL (2015, 600929).

Table F-4.2-32
Residential Radionuclide Screening
Evaluation with Substituted Data for Tract A-16-a

COPC	EPC[a] (pCi/g)	Residential SAL[b] (pCi/g)	Dose (mrem/yr)
Americium-241	0.0287	83	8.64E-03
Cesium-137	0.00723	12	1.51E-02
Cobalt-60	0.251	2.6	2.41E+00
Plutonium-238	0.00133	84	3.96E-04
Plutonium-239/240	0.524	79	1.66E-01
Strontium-90	0.029	15	4.83E-02
Thorium-228	1.636	4.6	8.89E+00
Thorium-230	1.288	5	6.44E+00
Uranium-234	1.295	290	1.12E-01
Uranium-235/236	0.0438	42	2.61E-02
Uranium-238	1.325	150	2.21E-01
		Total Dose	**18.34**

[a] See section F-3.3, Exposure Point Concentration Calculations.

[b] SALs from LANL (2015, 600929)

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Table F-4.2-33
Industrial Carcinogenic
Screening Evaluation for MDPR Site

COPC	EPC (mg/kg)	Industrial SSL[a] (mg/kg)	Cancer Risk
Nickel	6.929	2,890,000	2.40E-11
Aroclor-1254	0.0275	11	2.50E-08
Aroclor-1260	0.0284	11.1	2.56E-08
Benzene	0.00128	87.2	1.47E-10
Benzo(a)anthracene	0.0317	32.3	9.81E-09
Benzo(a)pyrene	0.0276	23.6	1.17E-08
Benzo(b)fluoranthene	0.0439	32.3	1.36E-08
Benzo(k)fluoranthene	0.011	323	3.41E-10
Bis(2-ethylhexyl)phthalate	0.0223	1830	1.22E-10
Butyl benzyl phthalate	0.149	12,000[b]	1.24E-10
Chloroform	0.0153	28.7	5.33E-09
Chrysene	0.0386	3230	1.20E-10
Dibenz(a,h)anthracene	0.00227	3.23	7.03E-09
1,4-Dioxane	0.42	257	1.63E-08
Indeno(1,2,3-cd)pyrene	0.0112	32.3	3.47E-09
Methylene chloride	0.0189	14,400	1.31E-11
1-Methylnaphthalene	0.0708	813	8.71E-10
Naphthalene	0.0574	108	5.31E-09
RDX	0.445	428	1.04E-08
TCDD TEQ	0.0000005436	0.000238	2.28E-08
Total Excess Cancer Risk			**2E-07**

[a] SSLs from NMED 2022, 702484.

[b] EPA regional screening level (https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables May 2023)

Table F-4.2-34
Industrial Noncarcinogenic
Screening Evaluation for MDPR Site

COPC	EPC (mg/kg)	Industrial SSL[a] (mg/kg)	HQ
Antimony	0.363	519	6.99E-04
Copper	100.5	51,900	1.94E-03
Cyanide (Total)	0.052	63.3	8.21E-04
Mercury	0.0281	389	7.22E-05
Nickel	6.929	25,700	2.70E-04
Nitrate	5.37	2,080,000	2.58E-06
Nitrite	0.771	130,000	5.93E-06

Table F-4.2-34 (continued)

COPC	EPC (mg/kg)	Industrial SSL[a] (mg/kg)	HQ
Perchlorate	0.00263	908	2.90E-06
Selenium	1.932	6490	2.98E-04
Silver	0.342	6490	5.27E-05
Zinc	78.99	389,000	2.03E-04
Acenaphthene	0.00361	50,500	7.15E-08
Acenaphthylene[b]	0.019	25,300	7.51E-07
Anthracene	0.00777	253,000	3.07E-08
Aroclor-1254	0.0275	16.4	1.68E-03
Benzene	0.00128	729	1.76E-06
Benzo(a)pyrene	0.0276	251	1.10E-04
Benzo(g,h,i)perylene[b]	0.0169	25,300	6.68E-07
Benzoic Acid	0.474	3,300,000[c]	1.44E-07
Bis(2-ethylhexyl)phthalate	0.0223	18,300	1.22E-06
2-Butanone	0.256	411,000	6.23E-07
Butyl benzyl phthalate	0.149	160,000[c]	9.31E-07
Carbazole[d]	0.196	1200	1.63E-04
Chloroform	0.0153	2000	7.65E-06
2-Chloronaphthalene	0.00489	104,000	4.70E-08
Dibenzofuran	0.125	1200[c]	1.04E-04
Dimethyl phthalate	0.0193	916,000	2.11E-08
Di-n-butylphthalate	0.0348	91,600	3.80E-07
1,4-Dioxane	0.42	27,500	1.53E-05
Fluoranthene	0.085	33,700	2.52E-06
Fluorene	0.0346	33,700	1.03E-06
4-Isopropyltoluene[e]	0.00222	14,200	1.56E-07
Methylene chloride	0.0189	5130	3.68E-06
1-Methylnaphthalene	0.0708	58,900	1.20E-06
2-Methylnaphthalene	0.0944	3370	2.80E-05
Naphthalene	0.0574	843	6.81E-05
Phenanthrene	0.0656	27,500	2.39E-06
Pyrene	0.0659	25,300	2.60E-06
RDX	0.445	4890	9.10E-05
TCDD TEQ	0.0000005436	0.000808	6.73E-04
Toluene	0.000379	61,300	6.18E-09

Table F-4.2-34 (continued)

COPC	EPC (mg/kg)	Industrial SSL[a] (mg/kg)	HQ
1,2,4-Trimethylbenzene	0.000523	1800[c]	2.91E-07
1,2-Xylene	0.000322	3940	8.17E-08
		Hazard Index	**0.007**

[a] SSLs from NMED (2022, 702484).

[b] Pyrene is used as a surrogate for acenaphthylene and benzo(g,h,i)perylene based on structural similarity (NMED 2022, 702484).

[c] EPA regional screening level, https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables May 2023

[d] Dibenzofuran is used as a surrogate for carbazole based on structural similarity (NMED 2022, 702484).

[e] Isopropylbenzene is used as a surrogate for 4-isopropyltoluene based on structural similarity (NMED 2022, 702484).

Table F-4.2-35
Industrial Radionuclide Screening Evaluation with Unsubstituted Data for MDPR Site

COPC	EPC (pCi/g)	Industrial SAL* (pCi/g)	Dose (mrem/yr)
Americium-241	0.0652	1000	1.63E-03
Plutonium-238	0.079	1300	1.52E-03
Plutonium-239/240	1.045	1200	2.18E-02
Strontium-90	2.2	2400	2.29E-02
Thorium-230	1.284	5	6.42E+00
Tritium	5.69	2,400,000	5.93E-05
Uranium-234	1.054	3100	8.50E-03
Uranium-238	1.106	710	3.89E-02
		Total Dose	**6.52**

* SALs from LANL (2015, 600929).

Table F-4.2-36
Industrial Radionuclide Screening Evaluation for with Substituted Data MDPR Site

COPC	EPC[a] (pCi/g)	Industrial SAL[b] (pCi/g)	Dose (mrem/yr)
Americium-241	0.0652	1000	1.63E-03
Plutonium-238	0.079	1300	1.52E-03
Plutonium-239/240	1.047	1200	2.18E-02
Strontium-90	0.0535	2400	5.57E-04
Thorium-230	1.284	5	6.42E+00
Tritium	5.69	2,400,000	5.93E-05
Uranium-234	1.056	3100	8.52E-03
Uranium-238	1.108	710	3.90E-02
		Total Dose	**6.49**

[a] See section F-3.3, Exposure Point Concentration Calculations.

[b] SALs from LANL (2015, 600929).

Table F-4.2-37
Recreational Carcinogenic
Screening Evaluation for MDPR Site

COPC	EPC (mg/kg)	Recreational SSL* (mg/kg)	Cancer Risk
Nickel	6.929	30,000,000	2.31E-12
Aroclor-1254	0.0275	10	2.75E-08
Aroclor-1260	0.0284	10	2.84E-08
Benzene	0.00128	430	2.98E-11
Benzo(a)anthracene	0.0317	89	3.56E-09
Benzo(a)pyrene	0.0276	8.9	3.10E-08
Benzo(b)fluoranthene	0.0439	89	4.93E-09
Benzo(k)fluoranthene	0.011	890	1.24E-10
Bis(2-ethylhexyl)phthalate	0.0223	1800	1.24E-10
Butyl benzyl phthalate	0.149	13,100	1.14E-10
Chloroform	0.0153	200	7.65E-10
Chrysene	0.0386	8900	4.34E-11
Dibenz(a,h)anthracene	0.00227	8.9	2.55E-09
1,4-Dioxane	0.42	250	1.68E-08
Indeno(1,2,3-cd)pyrene	0.0112	89	1.26E-09
Methylene chloride	0.0189	9700	1.95E-11
1-Methylnaphthalene	0.0708	740	9.57E-10
Naphthalene	0.0574	1900	3.02E-10
RDX	0.445	400	1.11E-08
TCDD TEQ	0.0000005436	0.0003	1.81E-08
Total Excess Cancer Risk			**1E-07**

* SSLs from N3B (2020, 701072).

Table F-4.2-38
Recreational Noncarcinogenic
Screening Evaluation for MDPR Site

COPC	EPC (mg/kg)	Recreational SSL[a] (mg/kg)	HQ
Antimony	0.363	250	1.45E-03
Copper	100.5	24800	4.05E-03
Cyanide (Total)	0.052	224	2.32E-04
Mercury	0.0281	186	1.51E-04
Nickel	6.929	12,400	5.59E-04
Nitrate	5.37	99,100	5.42E-06
Nitrite	0.771	61,900	1.25E-05
Perchlorate	0.00263	434	6.06E-06
Selenium	1.932	3100	6.23E-04
Silver	0.342	3100	1.10E-04

Table F-4.2-38 (continued)

COPC	EPC (mg/kg)	Recreational SSL[a] (mg/kg)	HQ
Zinc	78.99	186,000	4.25E-04
Acenaphthene	0.00361	17,300	2.09E-07
Anthracene	0.00777	86,000	9.03E-08
Aroclor-1254	0.0275	5.53	4.97E-03
Benzene	0.00128	1800	7.11E-07
Benzo(a)pyrene	0.0276	86	3.21E-04
Benzo(g,h,i)perylene[b]	0.0169	8630	1.96E-06
Benzoic acid	0.474	1,300,000	3.65E-07
Bis(2-ethylhexyl)phthalate	0.0223	6600	3.38E-06
2-Butanone	0.256	350,000	7.31E-07
Butyl benzyl phthalate	0.149	65,700	2.27E-06
Chloroform	0.0153	4700	3.26E-06
2-Chloronaphthalene	0.00489	49,500	9.88E-08
Carbazole[c]	0.196	489	4.01E-04
Dibenzofuran	0.125	489	2.56E-04
Dimethyl phthalate	0.0193	328,000	5.88E-08
Di-n-butylphthalate	0.0348	32,800	1.06E-06
1,4-Dioxane	0.42	9850	4.26E-05
Fluoranthene	0.085	11,500	7.39E-06
Fluorene	0.0346	11,500	3.01E-06
4-Isopropyltoluene[d]	0.00222	42,100	5.27E-08
Methylene chloride	0.0189	3610	5.24E-06
1-Methylnaphthalene	0.0708	20,100	3.52E-06
2-Methylnaphthalene	0.0944	1150	8.21E-05
Naphthalene	0.0574	3220	1.78E-05
Phenanthrene	0.0656	8630	7.60E-06
Pyrene	0.0659	86300	7.64E-06
RDX	0.445	2190	2.03E-04
TCDD TEQ	0.0000005436	0.000342	1.59E-03
Toluene	0.000379	476,000	7.90E-09
1,2,4-Trimethylbenzene	0.000523	5010	1.04E-07
1,2-Xylene	0.000322	26,000	1.24E-08
		Hazard Index	**0.02**

[a] SSLs from N3B (2020, 701072).

[b] Pyrene is used as a surrogate for benzo(g,h,i)perylene based on structural similarity (NMED 2022, 702484).

[c] Dibenzofuran is used as a surrogate carbazole based on structural similarity (NMED 2022, 702484).

[d] Isopropylbenzene is used as a surrogate for 4-isopropyltoluene based on structural similarity (NMED 2022, 702484).

Table F-4.2-39
Recreational Radionuclide Screening
Evaluation with Unsubstituted Data for MDPR Site

COPC	EPC (pCi/g)	Recreational SAL* (pCi/g)	Dose (mrem/yr)
Americium-241	0.0652	1500	1.09E-03
Plutonium-238	0.079	1400	1.41E-03
Plutonium-239/240	1.045	1300	2.01E-02
Strontium-90	2.2	4900	1.12E-02
Thorium-230	1.284	5	6.42E+00
Tritium	5.69	5,700,000	2.50E-05
Uranium-234	1.054	3900	6.76E-03
Uranium-238	1.106	2800	9.88E-03
		Total Dose	**6.50**

* SALs from LANL (2015, 600929).

Table F-4.2-40
Recreational Radionuclide Screening
Evaluation with Substituted Data for MDPR Site

COPC	EPC[a] (pCi/g)	Recreational SAL[b] (pCi/g)	Dose (mrem/yr)
Americium-241	0.0652	1500	1.09E-03
Plutonium-238	0.079	1400	1.41E-03
Plutonium-239/240	1.047	1300	2.01E-02
Strontium-90	0.0535	4900	2.73E-04
Thorium-230	1.284	5	6.42E+00
Tritium	5.69	5,700,000	2.50E-05
Uranium-234	1.056	3900	6.77E-03
Uranium-238	1.108	2800	9.89E-03
		Total Dose	**6.46**

[a] See section F-3.3, Exposure Point Concentration Calculations.

[b] SALs from LANL (2015, 600929).

Table F-4.2-41
Construction Worker Carcinogenic
Screening Evaluation for MDPR Site

COPC	EPC (mg/kg)	Construction Worker SSL[a,b] (mg/kg)	Cancer Risk
Arsenic	2.402	216	1.11E-07
Chromium	7.228	468	1.54E-07
Nickel	6.371	25,000	2.55E-09
Aroclor-1254	0.00316	85.3	3.70E-10
Aroclor-1260	0.0199	85.3	2.33E-09
Benzene	0.0002768	423	6.54E-12
Benzo(a)anthracene	0.0161	240	6.71E-10
Benzo(a)pyrene	0.0138	173	7.98E-10
Benzo(b)fluoranthene	0.0222	240	9.25E-10
Benzo(k)fluoranthene	0.00609	2310	2.64E-11
Bis(2-ethylhexyl)phthalate	0.0153	13,400	1.14E-11
Butyl benzyl phthalate	0.0311	99,100[b]	3.14E-12
Chloroform	0.00574	134	4.28E-10
Chrysene	0.02	23,100	8.66E-12
Dibenz(a,h)anthracene	0.00111	24	4.63E-10
1,4-Dioxane	0.42	1880	2.23E-09
Indeno(1,2,3-cd)pyrene	0.0064	240	2.67E-10
Methylene chloride	0.00884	89,600	9.87E-13
1-Methylnaphthalene	0.0435	6060	7.18E-11
Naphthalene	0.0384	633	6.07E-10
RDX	0.628	2960	2.12E-09
TCDD TEQ	0.0000004778	0.00172	2.78E-09
Trichloroethene	0.000389	5370	7.24E-13
		Total Excess Cancer Risk	**3E-07**

[a] SSLs from NMED 2022, 702484.

[b] Construction worker SSL calculated using toxicity value from EPA regional screening levels (https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables) and equation and parameters in NMED guidance (NMED 2022, 702484).

Table F-4.2-42
Construction Worker Noncarcinogenic Screening Evaluation for MDPR Site

COPC	EPC (mg/kg)	Construction Worker SSL[a] (mg/kg)	HQ
Aluminum	10,136	41,400	2.45E-01
Antimony	0.451	142	3.18E-03
Arsenic	2.402	41.2	5.83E-02
Barium	90.14	4390	2.05E-02
Chromium	7.228	134	5.39E-02
Copper	75.2	14,200	5.30E-03
Cyanide (Total)	0.0588	12.1	4.86E-03
Mercury	0.0265	77.1	3.44E-04
Nickel	6.371	753	8.46E-03
Nitrate	3.911	566,000	6.91E-06
Nitrite	0.311	35,400	8.79E-06
Perchlorate	0.00319	248	1.29E-05
Selenium	1.434	1750	8.19E-04
Silver	0.443	1770	2.50E-04
Zinc	100.8	106,000	9.51E-04
Acenaphthene	0.00383	15,100	2.54E-07
Acenaphthylene[b]	0.00158	7530	2.10E-07
Acetone	0.011	242,000	4.55E-08
Acetonitrile	0.0108	1850[c]	5.84E-06
Anthracene	0.00593	75,300	7.88E-08
Aroclor-1254	0.00316	4.91	6.44E-04
Benzene	0.0002768	142	1.95E-06
Benzo(a)pyrene	0.0138	15	9.20E-04
Benzo(g,h,i)perylene[b]	0.00911	7530	1.21E-06
Benzoic acid	0.192	1,080,000[c]	1.78E-07
Benzyl alcohol	0.115	26,900[c]	4.28E-06
Bis(2-ethylhexyl)phthalate	0.0153	5380	2.84E-06
2-Butanone	0.258	91,700	2.81E-06
Butyl benzyl phthalate	0.0311	53,800[c]	5.78E-07
Carbazole	0.0126	251[c]	5.02E-05
Chloroform	0.00574	391	1.47E-05
2-Chloronaphthalene	0.00117	28,300	4.13E-08
Dibenzofuran	0.193	354[c]	5.45E-04
Diethyl Ether	36.9	70,800	5.21E-04
Diethylphthalate	0.0231	215,000	1.07E-07
Dimethyl Phthalate	0.0193	269,000	7.17E-08

Table F-4.2-42 (continued)

COPC	EPC (mg/kg)	Construction Worker SSL[a] (mg/kg)	HQ
Di-n-butylphthalate	0.0351	26,900	1.30E-06
Di-n-octylphthalate	0.158	2690[c]	5.87E-05
1,4-Dioxane	0.42	7850	5.35E-05
Fluoranthene	0.0388	10,000	3.88E-06
Fluorene	0.00343	10,000	3.43E-07
4-Isopropyltoluene[d]	0.0002253	2740	8.22E-08
Methylene chloride	0.00884	1210	7.31E-06
1-Methylnaphthalene	0.0435	17,600	2.47E-06
2-Methylnaphthalene	0.058	1000	5.80E-05
Naphthalene	0.0384	159	2.42E-04
Phenanthrene	0.0417	8070	5.17E-06
Pyrene	0.0335	7530	4.45E-06
RDX	0.628	1350	4.65E-04
TCDD TEQ	0.0000004778	0.000226	2.11E-03
Toluene	0.0003284	14,000	2.35E-08
Trichloroethene	0.000389	6.9	5.64E-05
1,2,4-Trimethylbenzene	0.000564	504[c]	1.12E-06
1,2-Xylene	0.000445	736	6.05E-07
1,3-Xylene+1,4-Xylene[e]	0.0004161	798	5.21E-07
		Hazard Index	**0.4**

[a] SSLs from NMED (2022, 702484).

[b] Pyrene is used as a surrogate for acenaphthylene and benzo(g,h,i)perylene based on structural similarity (NMED 2022, 702484).

[c] Construction worker SSL calculated using toxicity value from EPA regional screening levels (https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables) and equation and parameters in NMED guidance (NMED 2022, 702484).

[d] Isopropylbenzene is used as a surrogate for 4-isopropyltoluene based on structural similarity (NMED 2022, 702484).

[e] Total xylenes is used as a surrogate for 1,3-xylene+1,4-xylene based on structural similarity (NMED 2022, 702484).

Table F-4.2-43
Construction Worker Radionuclide Screening Evaluation with Unsubstituted Data for Middle Delta Prime Road Site

COPC	EPC (pCi/g)	Construction Worker SAL* (pCi/g)	Dose (mrem/yr)
Americium-241	0.0287	230	3.12E-03
Cesium-137	0.277	37	1.87E-01
Cobalt-60	0.251	8.1	7.75E-01
Plutonium-238	0.079	230	8.59E-03
Plutonium-239/240	24.1	200	3.01E+00
Strontium-90	2.2	1400	3.93E-02
Thorium-228	1.621	15	2.70E+00
Thorium-230	1.3	5	6.50E+00
Tritium	5.69	1,600,000	8.89E-05
Uranium-234	1.274	1000	3.18E-02
Uranium-235/236	0.017	130	3.27E-03
Uranium-238	1.33	470	7.07E-02
		Total Dose	**13.33**

* SALs from LANL (2015, 600929).

Table F-4.2-44
Construction Worker Radionuclide Screening Evaluation with Substituted Data for MDPR Site

COPC	EPC[a] (pCi/g)	Construction Worker SAL[b] (pCi/g)	Dose (mrem/yr)
Americium-241	0.0287	230	3.12E-03
Cesium-137	0.00597	37	4.03E-03
Cobalt-60	0.251	8.1	7.75E-01
Plutonium-238	0.00105	230	1.14E-04
Plutonium-239/240	0.422	200	5.27E-02
Strontium-90	0.0253	1400	4.52E-04
Thorium-228	1.621	15	2.70E+00
Thorium-230	1.3	5	6.50E+00
Tritium	5.69	1,600,000	8.89E-05
Uranium-234	1.292	1000	3.23E-02
Uranium-235/236	0.0455	130	8.75E-03
Uranium-238	1.331	470	7.08E-02
		Total Dose	**10.15**

[a] See section F-3.3, Exposure Point Concentration Calculations.

[b] SALs from LANL (2015, 600929).

Table F-4.2-45
Residential Carcinogenic
Screening Evaluation for MDPR Site

COPC	EPC (mg/kg)	Residential SSL[a] (mg/kg)	Cancer Risk
Arsenic	2.402	7.07	3.40E-06
Chromium	7.228	96.6	7.48E-07
Nickel	6.371	595,000	1.07E-10
Aroclor-1254	0.00316	2.43	1.30E-08
Aroclor-1260	0.0199	2.43	8.19E-08
Benzene	0.0002768	17.8	1.56E-10
Benzo(a)anthracene	0.0161	1.53	1.05E-07
Benzo(a)pyrene	0.0138	1.12	1.23E-07
Benzo(b)fluoranthene	0.0222	1.53	1.45E-07
Benzo(k)fluoranthene	0.00609	15.3	3.98E-09
Bis(2-ethylhexyl)phthalate	0.0153	380	4.03E-10
Butyl benzyl phthalate	0.0311	2900[b]	1.07E-10
Chloroform	0.00574	5.9	9.73E-09
Chrysene	0.02	153	1.31E-09
Dibenz(a,h)anthracene	0.00111	0.153	7.25E-08
1,4-Dioxane	0.42	53.3	7.88E-08
Indeno(1,2,3-cd)pyrene	0.0064	1.53	4.18E-08
Methylene chloride	0.00884	766	1.15E-10
1-Methylnaphthalene	0.0435	172	2.53E-09
Naphthalene	0.0384	22.6	1.70E-08
RDX	0.628	83.1	7.56E-08
TCDD TEQ	0.0000004778	0.000049	9.75E-08
Trichloroethene	0.000389	15.5	2.51E-10
		Total Excess Cancer Risk	**5E-06**

[a] SSLs from NMED (2022, 702484).

[b] EPA regional screening levels (https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables).

Table F-4.2-46
Residential Noncarcinogenic
Screening Evaluation for MDPR Site

COPC	EPC (mg/kg)	Residential SSL[a] (mg/kg)	HQ
Aluminum	10,136	78,000	1.30E-01
Antimony	0.451	31.3	1.44E-02
Arsenic	2.402	13	1.85E-01
Barium	90.14	15,600	5.78E-03
Chromium	7.228	45,200	1.60E-04
Copper	75.2	3130	2.40E-02
Cyanide (Total)	0.0588	11.2	5.25E-03
Mercury	0.0265	23.5	1.13E-03
Nickel	6.371	1560	4.08E-03
Nitrate	3.911	125,000	3.13E-05
Nitrite	0.311	7820	3.98E-05
Perchlorate	0.00319	54.8	5.82E-05
Selenium	1.434	391	3.67E-03
Silver	0.443	391	1.13E-03
Zinc	100.8	23,500	4.29E-03
Acenaphthene	0.00383	3480	1.10E-06
Acenaphthylene[b]	0.00158	1740	9.08E-07
Acetone	0.011	66,300	1.66E-07
Acetonitrile	0.0108	810[c]	1.33E-05
Anthracene	0.00593	17,400	3.41E-07
Aroclor-1254	0.00316	1.14	2.77E-03
Benzene	0.0002768	114	2.43E-06
Benzo(a)pyrene	0.0138	17.4	7.93E-04
Benzo(g,h,i)perylene[b]	0.00911	1740	5.24E-06
Benzoic acid	0.192	250,000[c]	7.68E-07
Benzyl alcohol	0.115	6300[c]	1.83E-05
Bis(2-ethylhexyl)phthalate	0.0153	1230	1.24E-05
2-Butanone	0.258	37,400	6.90E-06
Butyl benzyl phthalate	0.0311	13,000[c]	2.39E-06
Carbazole[d]	0.0126	78	1.62E-04
Chloroform	0.00574	306	1.88E-05
2-Chloronaphthalene	0.00117	6260	1.87E-07
Dibenzofuran	0.193	78[c]	2.47E-03
Diethyl Ether	36.9	15,600	2.37E-03
Diethylphthalate	0.0231	49,300	4.69E-07

Table F-4.2-46 (contined)

COPC	EPC (mg/kg)	Residential SSL[a] (mg/kg)	HQ
Dimethyl Phthalate	0.0193	61,600	3.13E-07
Di-n-butylphthalate	0.0351	6160	5.70E-06
Di-n-octylphthalate	0.158	630[c]	2.51E-04
1,4-Dioxane	0.42	1850	2.27E-04
Fluoranthene	0.0388	2320	1.67E-05
Fluorene	0.00343	2320	1.48E-06
4-Isopropyltoluene[e]	0.0002253	2360	9.54E-08
Methylene chloride	0.00884	409	2.16E-05
1-Methylnaphthalene	0.0435	4060	1.07E-05
2-Methylnaphthalene	0.058	232	2.50E-04
Naphthalene	0.0384	162	2.37E-04
Phenanthrene	0.0417	1850	2.25E-05
Pyrene	0.0335	1740	1.93E-05
RDX	0.628	301	2.09E-03
TCDD TEQ	0.0000004778	0.0000506	9.44E-03
Toluene	0.0003284	5230	6.28E-08
Trichloroethene	0.000389	6.77	5.75E-05
1,2,4-Trimethylbenzene	0.000564	300[c]	1.88E-06
1,2-Xylene	0.000445	805	5.53E-07
1,3-Xylene+1,4-Xylene[f]	0.0004161	871	4.78E-07
		Hazard Index	**0.4**

[a] SSLs from NMED (2022, 702484).

[b] Pyrene is used as a surrogate for acenaphthylene and benzo(g,h,i)perylene based on structural similarity (NMED 2022, 702484).

[c] EPA regional screening levels (https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables).

[d] Dibenzofuran is used as a surrogate for carbazole. (regional screening level from EPA, https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables May 2023).

[e] Isopropylbenzene is used as a surrogate for 4-isopropyltoluene based on structural similarity (NMED 2022, 702484).

[f] Total xylenes is used as a surrogate for 1,3-xylene+1,4-xylene based on structural similarity (NMED 2022, 702484).

Table F-4.2-47
Residential Radionuclide Screening
Evaluation with Unsubstituted Data for MDPR Site

COPC	EPC (pCi/g)	Residential SAL* (pCi/g)	Dose (mrem/yr)
Americium-241	0.0287	83	8.64E-03
Cesium-137	0.277	12	5.77E-01
Cobalt-60	0.251	2.6	2.41E+00
Plutonium-238	0.079	84	2.35E-02
Plutonium-239/240	24.1	79	7.63E+00
Strontium-90	2.2	15	3.67E+00
Thorium-228	1.621	4.6	8.81E+00
Thorium-230	1.3	5	6.50E+00
Tritium	5.69	1700	8.37E-02
Uranium-234	1.274	290	1.10E-01
Uranium-235/236	0.017	42	1.01E-02
Uranium-238	1.33	150	2.22E-01
		Total Dose	**30.05**

* SALs from LANL (2015, 600929).

Table F-4.2-48
Residential Radionuclide Screening
Evaluation with Substituted Data for MDPR Site

COPC	EPC[a] (pCi/g)	Residential SAL[b] (pCi/g)	Dose (mrem/yr)
Americium-241	0.0287	83	8.64E-03
Cesium-137	0.00597	12	1.24E-02
Cobalt-60	0.251	2.6	2.41E+00
Plutonium-238	0.00105	84	3.12E-04
Plutonium-239/240	0.422	79	1.34E-01
Strontium-90	0.0253	15	4.22E-02
Thorium-228	1.621	4.6	8.81E+00
Thorium-230	1.3	5	6.50E+00
Tritium	5.69	1700	8.37E-02
Uranium-234	1.292	290	1.11E-01
Uranium-235/236	0.0455	42	2.71E-02
Uranium-238	1.331	150	2.22E-01
		Total Dose	**18.36**

[a] See section F-3.3, Exposure Point Concentration Calculations.

[b] SALs from LANL (2015, 600929).

Table F-4.3-1
Summary of Vapor Intrusion Pathway Designations

SWMU/AOC	Brief Description	Vapor Intrusion Pathway Designation	Comments
Tract A-8-a	Former disposal area	Potentially complete	Volatile and toxic compounds are minimally detected. There is (are) no suspected source(s) for volatile and toxic compounds.
Tract A-16-a	Former disposal area	Potentially complete	Detections of volatile and toxic compounds are minimally detected. There is (are) no suspected source(s) for volatile and toxic compounds
MDPR Site	Former disposal area	Not evaluated	Vapor intrusion analyses of tracts A-8-a and A-16-a individually are protective of the full MDPR site. The combination of the two data sets does not represent a likely construction footprint for a future structure.

Table F-4.3-2
Summary of Detected Volatile Organic Compounds, Range of Report Detection Limits and Concentrations in Samples Collected Below 5 ft at Tract A-8-a

Compound	Range of Report DLs (mg/kg)	Range of Estimated or Detected Concentrations (mg/kg)	Residential Indoor Air VISL (µg/m^3)
Methylene chloride	0.00491–0.604	0.00188–0.241	626
Benzo(a)anthracene	0.00329–0.729	0.002–0.029	0.0922
Naphthalene	0.00338–0.00362	0.00203–0.101	0.826

Table F-4.3-3
Summary of Calculated Soil Gas Concentrations for Samples Collected Below 5 ft at Tract A-8-a Compared with Soil Gas VISLs

Compound	Maximum Calculated Soil Gas Concentration (µg/m^3)	95% UCL Calculated Soil Gas Concentration (µg/m^3)	Residential Soil Gas VISL (µg/m^3)
Methylene chloride	145.06	8.61	20,900
Benzo(a)anthracene	0.0000537	0.0000331	3.07
Naphthalene	0.73	0.50	27.5

Note: VISL lines of evidence are included in Attachment F-4.

Table F-4.3-4
Summary of Detected Volatile Organic Compounds, Range of Report Detection Limits and Concentrations in Samples Collected Below 5 ft at Tract A-16-a

Compound	Range of Report Detection Limits (mg/kg)	Range of Estimated or Detected Concentrations (mg/kg)	Residential Indoor Air VISL (µg/m^3)
Acetone	0.00468–0.527	0.00255–4.14	32,300
Benzene	0.000935–0.105	0.000356–0.00625	3.6
Chloroform	0.000935–0.105	0.00613–0.00799	1.22
Methylene chloride	0.00468–0.527	0.00173–0.0161	626
Toluene	0.000935–0.105	0.000373–0.00609	5210
1,3-Xylene+1,4-xylene	0.00187–0.211	0.000942–0.0012	104
Benzo(a)anthracene	0.00328–0.709	0.00166–0.107	0.0922
Naphthalene	0.000972–0.353	0.000366–0.188	0.826

Table F-4.3-5
Summary of Calculated Soil Gas Concentrations for Samples Collected Below 5 ft at Tract A-16-a Compared with Soil Gas VISLs

Compound	Maximum Calculated Soil Gas Concentration (µg/m^3)	95% UCL Calculated Soil Gas Concentration (µg/m^3)	Residential Soil Gas VISL (µg/m^3)
Acetone	33.67	na*	1,080,000
Benzene	19.14	0.41	120
Chloroform	22.12	na	40.7
Methylene chloride	105.94	2.44	20,900
Toluene	17.20	0.39	174,000
1,3-Xylene+1,4-Xylene	26.26	na	3480
Benzo(a)anthracene	0.000394	0.0000196	3.07
Naphthalene	1.36	0.11	27.5

Note: VISL lines of evidence are included in Attachment F-4.
* na = Not applicable.

Table F-4.4-1
Lead Screening Assessment

Tract	Scenario	COPC	EPC (mg/kg)	Soil Screening Value[a] (mg/kg)	Ratio
Tract A-16-a	Industrial	Lead	19.7	800	0.03
Tract A-16-a	Recreational	Lead	19.7	1112[b]	0.02
Tract A-16-a	Construction Worker	Lead	17.03	800	0.02
Tract A-16-a	Residential	Lead	17.03	400	0.04
MDPR Site	Industrial	Lead	18.43	800	0.02
MDPR Site	Recreational	Lead	18.43	1112[b]	0.02
MDPR Site	Construction Worker	Lead	15.94	800	0.02
MDPR Site	Residential	Lead	15.94	400	0.04

[a] SSLs from NMED (2022, 702484).

[b] SSLs from N3B (2020, 701072).

Table F-4.4-2
Essential Nutrient Screening Assessment

SWMU/AOC	Scenario	COPC	Maximum Concentration (mg/kg)	SSL* (mg/kg)	Ratio
Tract A-8-a	Industrial	Calcium	17,300	32,400,000	5.34E-04
Tract A-8-a	Construction Worker	Calcium	17,300	8,850,000	1.95E-03
Tract A-8-a	Residential	Calcium	17,300	13,000,000	1.33E-03
Tract A-16-a	Industrial	Calcium	15,000	32,400,000	4.63E-04
Tract A-16-a	Construction Worker	Calcium	19,400	8,850,000	2.19E-03
Tract A-16-a	Residential	Calcium	19,400	13,000,000	1.49E-03
MDPR Site	Industrial	Calcium	17,300	32,400,000	5.34E-04
MDPR Site	Construction Worker	Calcium	19,400	8,850,000	2.19E-03
MDPR Site	Residential	Calcium	19,400	13,000,000	1.49E-03

* SSLs from NMED (2022, 702484).

Table F-5.3-1
Ecological Screening Levels for Terrestrial Receptors

COPEC	Gray Fox (mammalian (top carnivore)	American Kestrel (avian (top carnivore)	American Kestrel (avian (intermediate carnivore)	American Robin (avian herbivore)	American Robin (avian omnivore)	American Robin (avian insectivore)	Mountain Cottontail (mammalian herbivore)	Montane Shrew (mammalian insectivore)	Deer Mouse (mammalian omnivore)	Earthworm (soil-dwelling invertebrate)	Generic Plant (terrestrial autotroph-producer)
Inorganic Chemicals (mg/kg)											
Antimony	46[a]	na[b]	na	na	na	na	2.7	7.9	2.3	78	11
Arsenic	820	740	100	34	21	15	110	19	32	6.8	18
Barium	41,000	24,000	7500	720	770	820	2900	2100	1800	330	110
Chromium	1800	860	170	51	32	23	410	63	110	na	na
Copper	4000	1100	80	34	20	14	260	42	63	80	70
Cyanide (Total)	3300	0.59	0.36	0.1	0.099	0.098	790	330	330	na	na
Lead	3700	540	83	18	14	11	310	93	120	1700	120
Mercury	76	0.32	0.058	0.067	0.022	0.013	23	1.7	3	0.05	34
Nickel	1200	2000	110	120	35	20	270	10	20	280	38
Perchlorate	3.3	2	3.9	0.12	0.24	31	0.26	0.21	31	3.5	40
Selenium	92	74	3.7	0.98	0.83	0.71	2.2	0.7	0.82	4.1	0.52
Silver	4400	600	13	10	4.1	2.6	150	24	14	na	560
Zinc	9600	2600	220	330	83	47	1800	99	170	120	160

Table F-5.3-1 (continued)

COPEC	Gray Fox (mammalian (top carnivore)	American Kestrel (avian (top carnivore)	American Kestrel (avian (intermediate carnivore)	American Robin (avian herbivore)	American Robin (avian omnivore)	American Robin (avian insectivore)	Mountain Cottontail (mammalian herbivore)	Montane Shrew (mammalian insectivore)	Deer Mouse (mammalian omnivore)	Earthworm (soil-dwelling invertebrate)	Generic Plant (terrestrial autotroph-producer)
Organic Chemicals (mg/kg)											
Acenaphthene	29,000	na	na	na	na	na	530	130	160	na	0.25
Acenaphthylene	28,000	na	na	na	na	na	540	120	160	na	na
Acetone	7800	66,000	840	7.5	14	170	1.6	15	1.2	na	na
Anthracene	38,000	na	na	na	na	na	1200	210	300	na	6.8
Aroclor-1254	7.2	7.6	0.19	1.1	0.079	0.041	44	0.45	0.87	na	160
Aroclor-1260	15	400	4.2	37	1.7	0.88	1800	10	20	na	na
Benzene	18,000	na	na	na	na	na	38	24	49	na	na
Benzo(a)anthracene	110	28	6.4	0.73	0.8	0.88	6.1	4	3.4	na	18
Benzo(a)pyrene	3400	na	na	na	na	na	260	62	84	na	na
Benzo(b)fluoranthene	2400	na	na	na	na	na	130	44	51	na	18
Benzo(g,h,i)perylene	3600	na	na	na	na	na	470	25	46	na	na
Benzo(k)fluoranthene	4300	na	na	na	na	na	330	71	99	na	na
Benzoic acid	2000	na	na	na	na	na	4.6	1	1.3	na	na
Benzyl alcohol	110,000	na	na	na	na	na	190	270	120	na	na
Bis(2-ethylhexyl)phthalate	500	9.3	0.096	16	0.04	0.02	1900	0.6	1.1	na	na
2-Butanone	1,300,000	na	na	na	na	na	470	2700	350	na	na
Butyl benzyl phthalate	23,000	na	na	na	na	na	2400	90	160	na	na
Carbazole	13,000	na	na	na	na	na	140	79	110	na	na
Chloroform	8900	na	na	na	na	na	19	8.2	8	na	na

Table F-5.3-1 (continued)

COPEC	Gray Fox (mammalian (top carnivore)	American Kestrel (avian (top carnivore)	American Kestrel (avian (intermediate carnivore)	American Robin (avian herbivore)	American Robin (avian omnivore)	American Robin (avian insectivore)	Mountain Cottontail (mammalian herbivore)	Montane Shrew (mammalian insectivore)	Deer Mouse (mammalian omnivore)	Earthworm (soil-dwelling invertebrate)	Generic Plant (terrestrial autotroph-producer)
Chrysene	110	na	na	na	na	na	6.3	3.1	3.1	na	na
Dibenz(a,h)anthracene	850	na	na	na	na	na	84	22	14	na	na
Dibenzofuran	Na	na	na	na	na	na	na	na	na	na	6.1
Diethylphthalate	2,500,000	na	na	na	na	na	8800	3600	3600	na	100
Dimethyl phthalate	48,000	na	na	na	na	na	60	80	38	10	na
Di-n-butylphthalate	62,000	2	0.052	0.38	0.021	0.011	17,000	180	360	na	160
Di-n-octylphthalate	1300	na	na	na	na	na	8400	0.91	1.8	na	na
Fluoranthene	3900	na	na	na	na	na	270	22	38	10	na
Fluorene	50,000	na	na	na	na	na	1100	250	340	3.7	na
Indeno(1,2,3-cd)pyrene	4600	na	na	na	na	na	510	71	110	na	na
Methylene chloride	4300	na	na	na	na	na	3.8	9.2	2.6	na	1600
2-Methylnaphthalene	4900	na	na	na	na	na	110	24	16	na	na
Naphthalene	5800	2100	78	3.4	5.7	15	14	28	9.6	na	1
Phenanthrene	1900	na	na	na	na	na	62	11	15	5.5	na
Pyrene	3100	3000	160	68	44	33	110	23	31	10	na
RDX	7000	780	11	2.3	2.3	2.4	38	16	16	8.4	na
TCDD TEQ[c]	0.0001	na	na	na	na	na	0.00004	2.9E-07	5.8E-07	5	na
Toluene	12,000	na	na	na	na	na	66	23	25	na	200
Trichloroethene	42,000	na	na	na	na	na	190	42	54	na	na
m-Xylene + p-Xylene	750	13000	190	89	56	41	7.6	1.4	1.9	na	100

Table F-5.3-1 (continued)

COPEC	Gray Fox (mammalian (top carnivore)	American Kestrel (avian (top carnivore)	American Kestrel (avian (intermediate carnivore)	American Robin (avian herbivore)	American Robin (avian omnivore)	American Robin (avian insectivore)	Mountain Cottontail (mammalian herbivore)	Montane Shrew (mammalian insectivore)	Deer Mouse (mammalian omnivore)	Earthworm (soil-dwelling invertebrate)	Generic Plant (terrestrial autotroph-producer)
Radionuclides (pCi/g)											
Americium-241	26,000	58,000	47,000	4600	6100	10,000	15,000	34,000	33,000	190	500
Cesium-137	1500	3900	4300	1400	2600	4500	1400	2400	2300	2300	1500
Cobalt-60	760	1500	1500	1500	1500	1500	760	760	760	760	760
Plutonium-238	45,000	130,000	120,000	4300	5900	10,000	16,000	190,000	170,000	820	1800
Plutonium-239/240	51,000	150,000	140,000	4400	6100	10,000	17,000	330,000	280,000	870	1900
Strontium-90	800	2000	2500	340	790	2800	1100	1700	1600	1700	1100
Thorium-228	830	1600	1600	1100	1200	1300	770	830	820	43	140
Thorium-230	68,000	170,000	22,000	1200	1400	2200	9400	110,000	78,000	52	200
Tritium	220,000	550,000	610,000	300,000	440,000	600,000	250,000	340,000	330,000	48,000	36,000
Uranium-234	110,000	260,000	260,000	14,000	27,000	69,000	36,000	120,000	140,000	2200	440
Uranium-235/236	5200	10,000	10,000	6300	7900	9500	4700	5200	5200	1600	440
Uranium-238	2100	4200	4200	3300	3700	4000	2000	2100	2100	1100	400

[a] ESLs are based on NOAELs and were obtained from the ECORISK Database, Version 4.3 (N3B 2022, 702057).

[b] na = Not available.

[c] Based upon 2,3,7,8-tetrachlorodibenzodioxin.

Table F-5.3-2
Minimum ESL Comparison for Tract A-8-a

COPC	EPC	ESL	Receptor	HQ
Inorganic Chemicals (mg/kg)				
Antimony	0.383	2.3	Deer mouse	1.67E-01
Arsenic	2.828	6.8	Earthworm	**4.16E-01**
Mercury	0.026	0.013	American Robin (insectivore)	**2.00E+00**
Perchlorate	0.00429	0.12	American Robin (herbivore)	3.58E-02
Selenium	1.245	0.52	Generic Plant	**2.39E+00**
Organic Chemicals (mg/kg)				
Acenaphthene	0.036	0.25	Generic Plant	1.44E-01
Anthracene	0.00998	6.8	Generic Plant	1.47E-03
Aroclor-1254	0.0536	0.041	American Robin (insectivore)	**1.31E+00**
Aroclor-1260	0.0835	0.88	American Robin (insectivore)	9.49E-02
Benzene	0.00128	24	Deer mouse	5.33E-05
Benzo(a)anthracene	0.0456	0.73	American Robin (herbivore)	6.25E-02
Benzo(a)pyrene	0.0421	62	Shrew	6.79E-04
Benzo(b)fluoranthene	0.0636	18	Generic Plant	3.53E-03
Benzo(g,h,i)perylene	0.0194	25	Shrew	7.76E-04
Benzo(k)fluoranthene	0.016	71	Shrew	2.25E-04
Bis(2-ethylhexyl)phthalate	0.381	0.02	American Robin (insectivore)	**1.91E+01**
Butyl benzyl phthalate	3.63	90	Shrew	4.03E-02
Chrysene	0.0535	3.1	Shrew	1.73E-02
Di-n-butylphthalate	0.0337	0.011	American Robin (insectivore)	**3.06E+00**
Fluoranthene	0.114	10	Earthworm	1.14E-02
Fluorene	0.0277	3.7	Earthworm	7.49E-03
Indeno(1,2,3-cd)pyrene	0.0132	71	Shrew	1.86E-04
Methylene chloride	0.00181	2.6	Deer mouse	6.96E-04
2-Methylnaphthalene	0.0428	16	Shrew	2.67E-03
Naphthalene	0.0354	1	Generic Plant	3.54E-02
Phenanthrene	0.0781	5.5	Earthworm	1.42E-02
Pyrene	0.101	10	Earthworm	1.01E-02
TCDD TEQ	0.0000005739	0.00000029	Shrew	**1.98E+00**
Toluene	0.00243	23	Shrew	1.06E-04
Radionuclides (pCi/g)				
Plutonium-239/240	0.0274	870	Earthworm	3.15E-05
Strontium-90	0.625	340	American Robin (herbivore)	1.84E-03
Thorium-228	1.539	43	Earthworm	3.58E-02
Tritium	5.69	36,000	Generic Plant	1.58E-04
Uranium-234	1.092	440	Generic Plant	2.48E-03
Uranium-235/236	0.0405	440	Generic Plant	3.48E-05
Uranium-238	1.157	400	Generic Plant	2.89E-03

Note: Bolded values indicate HQs greater than 0.3.

Table F-5.3-3
HI Analysis Using NOAEL-Based ESLs for Tract A-8-a

COPEC	EPC (mg/kg)	Gray Fox (mammalian top carnivore)	American Kestrel (avian top carnivore)	American Kestrel (avian intermediate carnivore)	American Robin (avian herbivore)	American Robin (avian omnivore)	American Robin (avian insectivore)	Mountain Cottontail (mammalian herbivore)	Montane Shrew (mammalian insectivore)	Deer Mouse (mammalian omnivore)	Earthworm (soil dwelling invertebrate)	Generic Plant (terrestrial autotroph-producer)
Arsenic	2.828	3.45E-03	3.82E-03	2.83E-02	8.32E-02	1.35E-01	1.89E-01	2.57E-02	1.49E-01	8.84E-02	**4.16E-01**	1.57E-01
Mercury	0.026	3.42E-04	8.12E-02	**4.48E-01**	**3.88E-01**	**1.18E+00**	**2.00E+00**	1.13E-03	1.53E-02	8.67E-03	**5.20E-01**	7.65E-04
Selenium	1.245	1.35E-02	1.68E-02	**3.36E-01**	**1.27E+00**	**1.50E+00**	**1.75E+00**	**5.66E-01**	**1.78E+00**	**1.52E+00**	**3.04E-01**	**2.39E+00**
Aroclor-1254	0.0536	7.44E-03	7.05E-03	2.82E-01	4.87E-02	**6.78E-01**	**1.31E+00**	1.22E-03	1.19E-01	6.16E-02	na*	3.35E-04
Bis(2-ethylhexyl)phthalate	0.381	7.62E-04	4.10E-02	**3.97E+00**	2.38E-02	**9.53E+00**	**1.91E+01**	2.01E-04	**6.35E-01**	**3.46E-01**	na	na
Di-n-butylphthalate	0.0337	5.44E-07	1.68E-02	**6.48E-01**	8.87E-02	**1.60E+00**	**3.06E+00**	1.98E-06	1.87E-04	9.36E-05	na	2.11E-04
TCDD TEQ	0.0000005739	5.74E-03	na	na	na	na	na	1.31E-02	**1.98E+00**	**9.90E-01**	1.04E-07	na
HI		3E-02	2E-01	**6E+00**	**2E+00**	**1E+01**	**3E+01**	6E-01	**5E+00**	**3E+00**	1E+00	**3E+00**

Note: Bolded values indicate HQs greater than 0.3 or HI greater than 1.

* na = Not available.

Table F-5.3-4
Minimum ESL Comparison for Tract A-16-a

COPC	EPC	ESL	Receptor	HQ
Inorganic Chemicals (mg/kg)				
Antimony	0.393	2.3	Deer mouse	1.71E-01
Arsenic	2.491	6.8	Earthworm	**3.66E-01**
Barium	104.6	110	Generic Plant	**9.51E-01**
Chromium	7.545	23	American Robin (insectivore)	**3.28E-01**
Copper	106	14	American Robin (insectivore)	**7.57E+00**
Cyanide (Total)	0.0709	0.098	American Robin (insectivore)	**7.23E-01**
Lead	21.22	11	American Robin (insectivore)	**1.93E+00**
Mercury	0.027	0.013	American Robin (insectivore)	**2.08E+00**
Nickel	6.715	10	Shrew	**6.71E-01**
Perchlorate	0.0022	0.12	American Robin (herbivore)	1.83E-02
Selenium	1.55	0.52	Generic Plant	**2.98E+00**
Silver	0.619	2.6	American Robin (insectivore)	2.38E-01
Zinc	154.3	47	American Robin (insectivore)	**3.28E+00**
Organic Chemicals (mg/kg)				
Acenaphthene	0.00587	0.25	Generic Plant	2.35E-02
Acenaphthylene	0.00206	120	Shrew	1.72E-05
Acetone	0.011	1.2	Deer mouse	9.17E-03
Anthracene	0.0104	6.8	Generic Plant	1.53E-03
Aroclor-1254	0.0275	0.041	American Robin (insectivore)	6.71E-01
Aroclor-1260	0.03	0.88	American Robin (insectivore)	3.41E-02
Benzene	0.00009932	24	Deer mouse	4.14E-06
Benzo(a)anthracene	0.0226	0.73	American Robin (herbivore)	3.10E-02
Benzo(a)pyrene	0.0184	62	Shrew	2.97E-04
Benzo(b)fluoranthene	0.028	18	Generic Plant	1.56E-03
Benzo(g,h,i)perylene	0.0128	25	Shrew	5.12E-04
Benzo(k)fluoranthene	0.00796	71	Shrew	1.12E-04
Benzoic acid	0.189	1	Shrew	1.89E-01
Benzyl alcohol	0.233	120	Deer mouse	1.94E-03
Bis(2-ethylhexyl)phthalate	0.0155	0.02	American Robin (insectivore)	**7.75E-01**
2-Butanone	0.258	350	Deer mouse	7.37E-04
Butyl benzyl phthalate	0.149	90	Shrew	1.66E-03
Carbazole	0.0155	79	Deer mouse	1.96E-04
Chloroform	0.0111	8	Deer mouse	1.39E-03
Chrysene	0.0265	3.1	Shrew	8.55E-03
Dibenz(a,h)anthracene	0.00223	14	Shrew	1.59E-04
Dibenzofuran	0.193	6.1	Generic Plant	3.16E-02

Table F-5.3-4 (continued)

COPC	EPC	ESL	Receptor	HQ
Diethylphthalate	0.021	100	Generic Plant	2.10E-04
Dimethyl Phthalate	0.0193	10	Earthworm	1.93E-03
Di-n-butylphthalate	0.0318	0.011	American Robin (insectivore)	**2.89E+00**
Di-n-octylphthalate	0.0164	0.91	Shrew	1.80E-02
Fluoranthene	0.0528	10	Earthworm	5.28E-03
Fluorene	0.00668	3.7	Earthworm	1.81E-03
Indeno(1,2,3-cd)pyrene	0.00926	71	Shrew	1.30E-04
Methylene chloride	0.0145	2.6	Deer mouse	5.58E-03
2-Methylnaphthalene	0.0916	16	Shrew	5.72E-03
Naphthalene	0.0618	1	Generic Plant	6.18E-02
Phenanthrene	0.0628	5.5	Earthworm	1.14E-02
Pyrene	0.0465	10	Earthworm	4.65E-03
RDX	0.628	2.3	Robin (herbivore and omnivore)	2.73E-01
TCDD TEQ	0.0000006551	0.00000029	Shrew	**2.26E+00**
Toluene	0.0003334	23	Shrew	1.45E-05
Trichloroethene	0.000384	42	Shrew	9.14E-06
1,3-Xylene+1,4-Xylene	0.00106	1.4	Shrew	7.57E-04
Radionuclides (pCi/g)				
Americium-241	0.0287	190	Earthworm	1.51E-04
Cesium-137	0.0112	1400	American Robin (herbivore)	8.00E-06
Cobalt-60	0.251	760	Deer mouse	3.30E-04
Cobalt-60	0.251	760	Earthworm	3.30E-04
Cobalt-60	0.251	760	Generic Plant	3.30E-04
Cobalt-60	0.251	760	Fox	3.30E-04
Cobalt-60	0.251	760	Shrew	3.30E-04
Cobalt-60	0.251	760	Cottontail	3.30E-04
Plutonium-238	0.00205	820	Earthworm	2.50E-06
Plutonium-239/240	0.72	870	Earthworm	8.28E-04
Strontium-90	0.0385	340	American Robin (herbivore)	1.13E-04
Thorium-228	1.578	43	Earthworm	3.67E-02
Thorium-230	1.338	52	Earthworm	2.57E-02
Uranium-234	1.384	440	Generic Plant	3.15E-03
Uranium-235/236	0.0522	440	Generic Plant	1.19E-04
Uranium-238	1.413	400	Generic Plant	3.53E-03

Note: Bolded values indicate HQs greater than 0.3

Table F-5.3-5
HI Analysis Using NOAEL-Based ESLs for Tract A-16-a

COPEC	EPC (mg/kg)	Gray Fox (mammalian top carnivore)	American Kestrel (avian top carnivore)	American Kestrel (avian intermediate carnivore)	American Robin (avian herbivore)	American Robin (avian omnivore)	American Robin (avian insectivore)	Mountain Cottontail (mammalian herbivore)	Montane Shrew (mammalian insectivore)	Deer Mouse (mammalian omnivore)	Earthworm (soil dwelling invertebrate)	Generic Plant (terrestrial autotroph-producer)
Arsenic	2.491	3.04E-03	3.37E-03	2.49E-02	7.33E-02	1.19E-01	1.66E-01	2.26E-02	1.31E-01	7.78E-02	**3.66E-01**	1.38E-01
Barium	104.6	2.55E-03	4.36E-03	1.39E-02	1.45E-01	1.36E-01	1.28E-01	3.61E-02	4.98E-02	5.81E-02	**3.17E-01**	**9.51E-01**
Chromium	7.545	4.19E-03	8.77E-03	4.44E-02	1.48E-01	2.36E-01	**3.28E-01**	1.84E-02	1.20E-01	6.86E-02	na*	na
Copper	106	2.65E-02	9.64E-02	**1.32E+00**	**3.12E+00**	**5.30E+00**	**7.57E+00**	**4.08E-01**	**2.52E+00**	**1.68E+00**	**1.32E+00**	1.51E+00
Cyanide (Total)	0.0709	2.15E-05	1.20E-01	1.97E-01	**7.09E-01**	**7.16E-01**	**7.23E-01**	8.97E-05	2.15E-04	2.15E-04	na	na
Lead	21.22	5.74E-03	3.93E-02	2.56E-01	**1.18E+00**	**1.52E+00**	**1.93E+00**	6.85E-02	2.28E-01	1.77E-01	1.25E-02	1.77E-01
Mercury	0.027	3.55E-04	8.44E-02	**4.66E-01**	**4.03E-01**	**1.23E+00**	**2.08E+00**	1.17E-03	1.59E-02	9.00E-03	**5.40E-01**	7.94E-04
Nickel	6.715	5.60E-03	3.36E-03	6.10E-02	5.60E-02	1.92E-01	**3.36E-01**	2.49E-02	**6.71E-01**	**3.36E-01**	2.40E-02	1.77E-01
Selenium	1.55	1.68E-02	2.09E-02	**4.19E-01**	**1.58E+00**	**1.87E+00**	**2.18E+00**	**7.05E-01**	**2.21E+00**	**1.89E+00**	**3.78E-01**	**2.98E+00**
Zinc	154.3	1.61E-02	5.93E-02	**7.01E-01**	**4.68E-01**	**1.86E+00**	**3.28E+00**	8.57E-02	**1.56E+00**	**9.08E-01**	**1.29E+00**	**9.64E-01**
Aroclor-1254	0.0275	3.82E-03	3.62E-03	1.45E-01	2.50E-02	**3.48E-01**	**6.71E-01**	6.25E-04	6.11E-02	3.16E-02	na	1.72E-04
Bis(2-ethylhexyl)phthalate	0.0155	3.10E-05	1.67E-03	1.61E-01	9.69E-04	**3.88E-01**	**7.75E-01**	8.16E-06	2.58E-02	1.41E-02	na	na
Di-n-butylphthalate	0.0318	5.13E-07	1.59E-02	**6.12E-01**	8.37E-02	**1.51E+00**	**2.89E+00**	1.87E-06	1.77E-04	8.83E-05	na	1.99E-04
TCDD TEQ	0.0000006551	6.55E-03	na	na	na	na	na	1.64E-02	**2.26E+00**	**1.13E+00**	1.31E-07	na
HI		9E-02	5E-01	**4E+00**	**8E+00**	**2E+01**	**2E+01**	1E+00	**1E+01**	**6E+00**	**4E+00**	**7E+00**

Note: Bolded values indicate HQs greater than 0.3 or HI greater than 1.
*na = Not available.

Table F-5.3-6
Minimum ESL Comparison for MDPR Site

COPC	EPC	ESL	Receptor	HQ
Inorganic Chemicals (mg/kg)				
Antimony	0.384	2.3	Deer mouse	1.67E-01
Arsenic	2.54	6.8	Earthworm	**3.74E-01**
Barium	105	110	Generic Plant	**9.55E-01**
Chromium	7.919	23	American Robin (insectivore)	**3.44E-01**
Copper	85.63	14	American Robin (insectivore)	**6.12E+00**
Cyanide (Total)	0.0648	0.098	American Robin (insectivore)	**6.61E-01**
Lead	19.49	11	American Robin (insectivore)	**1.77E+00**
Mercury	0.0259	0.013	American Robin (insectivore)	**1.99E+00**
Nickel	6.889	10	Shrew	**6.89E-01**
Perchlorate	0.00249	0.12	American Robin (herbivore)	2.08E-02
Selenium	1.3	0.52	Generic Plant	**2.50E+00**
Silver	0.54	2.6	American Robin (insectivore)	2.08E-01
Zinc	128.8	47	American Robin (insectivore)	**2.74E+00**
Organic Chemicals (mg/kg)				
Acenaphthene	0.00516	0.25	Generic Plant	2.06E-02
Acenaphthylene	0.0019	120	Shrew	1.58E-05
Acetone	0.011	1.2	Deer mouse	9.17E-03
Anthracene	0.00918	6.8	Generic Plant	1.35E-03
Aroclor-1254	0.00397	0.041	American Robin (insectivore)	9.68E-02
Aroclor-1260	0.0308	0.88	American Robin (insectivore)	3.50E-02
Benzene	0.0002618	24	Deer mouse	1.09E-05
Benzo(a)anthracene	0.0236	0.73	American Robin (herbivore)	3.23E-02
Benzo(a)pyrene	0.0202	62	Shrew	3.26E-04
Benzo(b)fluoranthene	0.0319	18	Generic Plant	1.77E-03
Benzo(g,h,i)perylene	0.013	25	Shrew	5.20E-04
Benzo(k)fluoranthene	0.00786	71	Shrew	1.11E-04
Benzoic acid	0.187	1	Shrew	1.87E-01
Benzyl alcohol	0.233	120	Deer mouse	1.94E-03
Bis(2-ethylhexyl)phthalate	0.017	0.02	American Robin (insectivore)	**8.50E-01**
2-Butanone	0.258	350	Deer mouse	7.37E-04
Butyl benzyl phthalate	0.0572	90	Shrew	6.36E-04
Carbazole	0.0145	79	Deer mouse	1.84E-04
Chloroform	0.00883	8	Deer mouse	1.10E-03
Chrysene	0.029	3.1	Shrew	9.35E-03
Dibenz(a,h)anthracene	0.00173	14	Shrew	1.24E-04
Dibenzofuran	0.193	6.1	Generic Plant	3.16E-02
Diethylphthalate	0.021	100	Generic Plant	2.10E-04

Table F-5.3-6 (continued)

COPC	EPC	ESL	Receptor	HQ
Dimethyl Phthalate	0.0193	10	Earthworm	1.93E-03
Di-n-butylphthalate	0.0301	0.011	American Robin (insectivore)	**2.74E+00**
Di-n-octylphthalate	0.0164	0.91	Shrew	1.80E-02
Fluoranthene	0.0597	10	Earthworm	5.97E-03
Fluorene	0.00553	3.7	Earthworm	1.49E-03
Indeno(1,2,3-cd)pyrene	0.00919	71	Shrew	1.29E-04
Methylene chloride	0.0118	2.6	Deer mouse	4.54E-03
2-Methylnaphthalene	0.0785	16	Shrew	4.91E-03
Naphthalene	0.0524	1	Generic Plant	5.24E-02
Phenanthrene	0.0601	5.5	Earthworm	1.09E-02
Pyrene	0.0491	10	Earthworm	4.91E-03
RDX	0.628	2.3	Robin (herbivore and omnivore)	2.73E-01
TCDD TEQ	0.0000006815	0.00000029	Shrew	**2.35E+00**
Toluene	0.0003184	23	Shrew	1.38E-05
Trichloroethene	0.000384	42	Shrew	9.14E-06
1,3-Xylene+1,4-Xylene	0.00106	1.4	Shrew	7.57E-04
Radionuclides (pCi/g)				
Americium-241	0.0287	190	Earthworm	1.51E-04
Cesium-137	0.00923	1400	American Robin (herbivore)	6.59E-06
Cobalt-60	0.251	760	Deer mouse	3.30E-04
Cobalt-60	0.251	760	Earthworm	3.30E-04
Cobalt-60	0.251	760	Generic Plant	3.30E-04
Cobalt-60	0.251	760	Fox	3.30E-04
Cobalt-60	0.251	760	Shrew	3.30E-04
Cobalt-60	0.251	760	Cottontail	3.30E-04
Plutonium-238	0.00162	820	Earthworm	1.98E-06
Plutonium-239/240	0.576	870	Earthworm	6.62E-04
Strontium-90	0.0329	340	American Robin (herbivore)	9.68E-05
Thorium-228	1.561	43	Earthworm	3.63E-02
Thorium-230	1.344	52	Earthworm	2.58E-02
Tritium	5.69	36000	Generic Plant	1.58E-04
Uranium-234	1.308	440	Generic Plant	2.97E-03
Uranium-235/236	0.048	440	Generic Plant	1.09E-04
Uranium-238	1.344	400	Generic Plant	3.36E-03

Note: Bolded values indicate HQs greater than 0.3

Table F-5.3-7
HI Analysis Using NOAEL-Based ESLs for MDPR Site

COPEC	EPC (mg/kg)	Gray Fox (mammalian top carnivore)	American Kestrel (avian top carnivore)	American Kestrel (avian intermediate carnivore)	American Robin (avian herbivore)	American Robin (avian omnivore)	American Robin (avian insectivore)	Mountain Cottontail (mammalian herbivore)	Montane Shrew (mammalian insectivore)	Deer Mouse (mammalian omnivore)	Earthworm (soil dwelling invertebrate)	Generic Plant (terrestrial autotroph-producer)
Arsenic	2.54	3.10E-03	3.43E-03	2.54E-02	7.47E-02	1.21E-01	1.69E-01	2.31E-02	1.34E-01	7.94E-02	**3.74E-01**	1.41E-01
Barium	105	2.56E-03	4.38E-03	1.40E-02	1.46E-01	1.36E-01	1.28E-01	3.62E-02	5.00E-02	5.83E-02	**3.18E-01**	**9.55E-01**
Chromium	7.919	4.40E-03	9.21E-03	4.66E-02	1.55E-01	2.47E-01	**3.44E-01**	1.93E-02	1.26E-01	7.20E-02	na*	na
Copper	85.63	2.14E-02	7.78E-02	**1.07E+00**	**2.52E+00**	**4.28E+00**	**6.12E+00**	**3.29E-01**	**2.04E+00**	**1.36E+00**	**1.07E+00**	**1.22E+00**
Cyanide (Total)	0.0648	1.96E-05	1.10E-01	1.80E-01	**6.48E-01**	**6.55E-01**	**6.61E-01**	8.20E-05	1.96E-04	1.96E-04	na	na
Lead	19.49	5.27E-03	3.61E-02	2.35E-01	**1.08E+00**	**1.39E+00**	**1.77E+00**	6.29E-02	2.10E-01	1.62E-01	1.15E-02	1.62E-01
Mercury	0.0259	3.41E-04	8.09E-02	**4.47E-01**	**3.87E-01**	**1.18E+00**	**1.99E+00**	1.13E-03	1.52E-02	8.63E-03	**5.18E-01**	7.62E-04
Nickel	6.889	5.74E-03	3.44E-03	6.26E-02	5.74E-02	1.97E-01	**3.44E-01**	2.55E-02	**6.89E-01**	**3.44E-01**	2.46E-02	1.81E-01
Selenium	1.3	1.41E-02	1.76E-02	**3.51E-01**	**1.33E+00**	**1.57E+00**	**1.83E+00**	**5.91E-01**	**1.86E+00**	**1.59E+00**	**3.17E-01**	**2.50E+00**
Zinc	128.8	1.34E-02	4.95E-02	**5.85E-01**	**3.90E-01**	**1.55E+00**	**2.74E+00**	7.16E-02	**1.30E+00**	**7.58E-01**	**1.07E+00**	**8.05E-01**
Bis(2-ethylhexyl)phthalate	0.017	3.40E-05	1.83E-03	1.77E-01	1.06E-03	**4.25E-01**	**8.50E-01**	8.95E-06	2.83E-02	1.55E-02	na	na
Di-n-butylphthalate	0.0301	4.85E-07	1.50E-02	**5.79E-01**	7.92E-02	**1.43E+00**	**2.74E+00**	1.77E-06	1.67E-04	8.36E-05	na	1.88E-04
TCDD TEQ	0.0000006815	6.81E-03	na	na	na	na	na	1.70E-02	**2.35E+00**	**1.17E+00**	1.36E-07	na
HI		8E-02	4E-01	**4E+00**	**7E+00**	**1E+01**	**2E+01**	1E+00	**9E+00**	**6E+00**	**4E+00**	**6E+00**

Note: Bolded values indicate HQs greater than 0.3 or HI greater than 1.
*na = Not available.

Table F-5.4-1
Mexican Spotted Owl AUFs for MDPR Site

Site	Site Area (ha)	AUF*
Tract A-8-a	0.03251	0.00009
Tract A-16-a	0.211986	0.0006
MDPR	0.358906	0.0001

* AUF is calculated as the area of the site divided by the owl HR of 366 ha.

Table F-5.4-2
PAUFs for Ecological Receptors for Tract A-8-a

Receptor	HR (ha)[a]	Population Area (ha)	PAUF[b]
American Kestrel	106	4240	0.000008
American Robin	0.42	16.8	0.002
Montane Shrew	0.39	15.6	0.002
Deer Mouse	0.077	3	0.01

[a] Values from EPA (1993, 059384).

[b] PAUF is calculated as the area of the site (0.03251 ha) divided by the population area.

Table F-5.4-3
PAUF-Adjusted HI Analysis Using NOAEL-Based ESLs for Tract A-8-a

COPEC	EPC (mg/kg)	American Kestrel (avian intermediate carnivore)	American Robin (avian herbivore)	American Robin (avian omnivore)	American Robin (avian insectivore)	Montane Shrew (mammalian insectivore)	Deer Mouse (mammalian omnivore)	Generic Plant (terrestrial autotroph-producer)
Arsenic	2.828	2.17E-07	1.61E-04	2.61E-04	3.65E-04	3.10E-04	9.58E-04	1.57E-01
Mercury	0.026	3.44E-06	7.51E-04	2.29E-03	3.87E-03	3.19E-05	9.39E-05	7.65E-04
Selenium	1.245	2.58E-06	2.46E-03	2.90E-03	3.39E-03	3.71E-03	1.65E-02	**2.39E+00**
Aroclor-1254	0.0536	2.16E-06	9.43E-05	1.31E-03	2.53E-03	2.48E-04	6.68E-04	3.35E-04
Bis(2-ethylhexyl)phthalate	0.381	3.04E-05	4.61E-05	1.84E-02	3.69E-02	1.32E-03	3.75E-03	na*
Di-n-butylphthalate	0.0337	4.97E-06	1.72E-04	3.11E-03	5.93E-03	3.90E-07	1.01E-06	2.11E-04
TCDD TEQ	0.0000005739	na	na	na	na	4.12E-03	1.07E-02	na
HI		4E-05	4E-03	3E-02	5E-02	1E-02	3E-02	**3E+00**

Note: Bolded values indicate HQs greater than 0.1 or HI greater than 1.
*na = Not available.

Table F-5.4-5
PAUF-Adjusted HI Analysis Using NOAEL-Based ESLs for Tract A-16-a

COPEC	EPC (mg/kg)	American Kestrel (avian intermediate carnivore)	American Robin (avian herbivore)	American Robin (avian omnivore)	American Robin (avian insectivore)	Montane Shrew (mammalian insectivore)	Deer Mouse (mammalian omnivore)	Earthworm (soil dwelling invertebrate)	Generic Plant (terrestrial autotroph-producer)
Arsenic	2.491	1.25E-06	9.24E-04	1.50E-03	2.10E-03	1.78E-03	5.50E-03	**3.66E-01**	**1.38E-01**
Barium	104.6	6.97E-07	1.83E-03	1.71E-03	1.61E-03	6.77E-04	4.11E-03	**3.17E-01**	**9.51E-01**
Chromium	7.545	2.22E-06	1.87E-03	2.98E-03	4.14E-03	1.63E-03	4.85E-03	na*	na
Copper	106	6.62E-05	3.93E-02	6.69E-02	9.55E-02	3.43E-02	**1.19E-01**	**1.32E+00**	**1.51E+00**
Cyanide (Total)	0.0709	9.85E-06	8.95E-03	9.04E-03	9.13E-03	2.92E-06	1.52E-05	na	na
Lead	21.22	1.28E-05	1.49E-02	1.91E-02	2.43E-02	3.10E-03	1.25E-02	1.25E-02	**1.77E-01**
Mercury	0.027	2.33E-05	5.08E-03	1.55E-02	2.62E-02	2.16E-04	6.36E-04	**5.40E-01**	7.94E-04
Nickel	6.715	3.05E-06	7.06E-04	2.42E-03	4.24E-03	9.12E-03	2.37E-02	2.40E-02	**1.77E-01**
Selenium	1.55	2.09E-05	2.00E-02	2.36E-02	2.75E-02	3.01E-02	**1.34E-01**	**3.78E-01**	**2.98E+00**
Zinc	154.3	3.51E-05	5.90E-03	2.35E-02	4.14E-02	2.12E-02	6.41E-02	**1.29E+00**	**9.64E-01**
Aroclor-1254	0.0275	7.24E-06	3.15E-04	4.39E-03	8.46E-03	8.30E-04	2.23E-03	na	1.72E-04
Bis(2-ethylhexyl)phthalate	0.0155	8.07E-06	1.22E-05	4.89E-03	9.78E-03	3.51E-04	9.96E-04	na	na
Di-n-butylphthalate	0.0318	3.06E-05	1.06E-03	1.91E-02	3.65E-02	2.40E-06	6.24E-06	na	1.99E-04
TCDD TEQ	0.0000006551	na	na	na	na	3.07E-02	7.98E-02	1.31E-07	na
HI		2E-04	1E-01	2E-01	3E-01	1E-01	5E-01	**4E+00**	**7E+00**

Note: Bolded values indicate HQs greater than 0.1 or HI greater than 1.
*na = Not available.

Table F-5.4-6
PAUFs for Ecological Receptors for MDPR Site

Receptor	HR (ha)[a]	Population Area (ha)	PAUF[b]
American Kestrel	106	4240	0.000085
American Robin	0.42	16.8	0.021
Deer Mouse	0.077	3	0.12
Montane Shrew	0.39	15.6	0.023

[a] Values from EPA (1993, 059384).

[b] PAUF is calculated as the area of the site (0.358906 ha) divided by the population area.

Table F-5.4-7
PAUF-Adjusted HI Analysis Using NOAEL-Based ESLs for MDPR Site

COPEC	EPC (mg/kg)	American Kestrel (avian intermediate carnivore)	American Robin (avian herbivore)	American Robin (avian omnivore)	American Robin (avian insectivore)	Montane Shrew (mammalian insectivore)	Deer Mouse (mammalian omnivore)	Earthworm (soil dwelling invertebrate)	Generic Plant (terrestrial autotroph-producer)
Arsenic	2.54	2.15E-06	1.60E-03	2.58E-03	3.62E-03	3.08E-03	9.50E-03	**3.74E-01**	1.41E-01
Barium	105	1.19E-06	3.12E-03	2.91E-03	2.74E-03	1.15E-03	6.98E-03	**3.18E-01**	**9.55E-01**
Chromium	7.919	3.94E-06	3.32E-03	5.29E-03	7.36E-03	2.89E-03	8.61E-03	na*	na
Copper	85.63	9.06E-05	5.38E-02	9.15E-02	1.31E-01	4.69E-02	1.63E-01	**1.07E+00**	**1.22E+00**
Cyanide (Total)	0.0648	1.52E-05	1.38E-02	1.40E-02	1.41E-02	4.52E-06	2.35E-05	na	na
Lead	19.49	1.99E-05	2.31E-02	2.97E-02	3.79E-02	4.82E-03	1.94E-02	1.15E-02	1.62E-01
Mercury	0.0259	3.78E-05	8.26E-03	2.52E-02	4.26E-02	3.51E-04	1.03E-03	**5.18E-01**	7.62E-04
Nickel	6.889	5.30E-06	1.23E-03	4.20E-03	7.36E-03	1.58E-02	4.12E-02	2.46E-02	1.81E-01
Selenium	1.3	2.97E-05	2.83E-02	3.35E-02	3.91E-02	4.27E-02	1.90E-01	**3.17E-01**	**2.50E+00**
Zinc	128.8	4.96E-05	8.34E-03	3.32E-02	5.85E-02	2.99E-02	9.06E-02	**1.07E+00**	**8.05E-01**
Bis(2-ethylhexyl)phthalate	0.017	1.50E-05	2.27E-05	9.08E-03	1.82E-02	6.52E-04	1.85E-03	na	na
Di-n-butylphthalate	0.0301	4.90E-05	1.69E-03	3.06E-02	5.85E-02	3.85E-06	1.00E-05	na	1.88E-04
TCDD TEQ	0.0000006815	na	na	na	na	5.41E-02	1.41E-01	1.36E-07	na
HI		3E-04	1E-01	3E-01	4E-01	2E-01	7E-01	**4E+00**	**6E+00**

Note: Bolded values indicate HQs greater than 0.1 or HI greater than 1.
*na = Not available.

Table F-5.4-8
Summary of LOAEL-Based ESLs for Terrestrial Receptors

COPEC	Receptor	LOAEL-Based ESL* (mg/kg)
Arsenic	Earthworm	68
	Generic Plant	91
Barium	Earthworm	3200
	Generic Plant	260
Copper	Earthworm	530
	Generic Plant	490
Lead	Generic Plant	570
Mercury	Earthworm	0.5
Nickel	Generic Plant	270
Selenium	Earthworm	41
	Generic Plant	3
Zinc	Earthworm	930
	Generic Plant	810

*LOAEL-based ESLs from ECORISK Database, Version 4.3 (N3B 2022, 702057).

Table F-5.4-9
HI Analysis Using
LOAEL-Based ESLs for Tract A-8-a

COPEC	EPC (mg/kg)	Generic Plant
Arsenic	2.828	3.11E-02
Selenium	1.245	**4.15E-01**
	HI	4E-01

Note: Bolded values indicate HQ greater than 0.1 or HI greater than 1.

Table F-5.4-10
HI Analysis Using LOAEL-Based ESLs for Tract A-16-a

COPEC	EPC (mg/kg)	Earthworm (soil dwelling invertebrate)	Generic Plant (terrestrial autotroph-producer)
Arsenic	2.491	3.66E-02	2.74E-02
Barium	104.6	3.27E-02	**4.02E-01**
Copper	106	**2.00E-01**	**2.16E-01**
Lead	21.22	n/a*	3.72E-02
Mercury	0.027	5.40E-02	n/a
Nickel	6.715	n/a	2.49E-02
Selenium	1.55	3.78E-02	**5.17E-01**
Zinc	154.3	**1.66E-01**	**1.90E-01**
	HI	5E-01	1E+00

Note: Bolded values indicate HQ greater than 0.1 or HI greater than 1.
*n/a = Not applicable.

Table F-5.4-11
HI Analysis Using LOAEL-Based ESLs for MDPR Site

COPEC	EPC (mg/kg)	Earthworm (soil dwelling invertebrate)	Generic Plant (terrestrial autotroph-producer)
Arsenic	2.54	3.74E-02	2.79E-02
Barium	105	3.28E-02	**4.04E-01**
Copper	85.63	**1.62E-01**	**1.75E-01**
Lead	19.49	n/a*	3.42E-02
Mercury	0.0259	5.18E-02	n/a
Nickel	6.889	n/a	2.55E-02
Selenium	1.3	3.17E-02	**4.33E-01**
Zinc	128.8	**1.38E-01**	**1.59E-01**
	HI	5E-01	1E+00

Note: Bolded values indicate HQ greater than 0.1 or HI greater than 1.
*n/a = Not applicable.

Attachment F-1

Dioxin and Furan Toxicity Equivalency Factor Calculations
(on CD included with this document)

N3B RECORDS	
Media Information Page	
This is a placeholder page for a record that cannot be uploaded or would lose meaning or content if uploaded. The record can be requested through regdocs@em-la.doe.gov	
Document Date: 12/22/2023	**EM ID number:** 703024-01
Document Title: Attachment F-1 Submittal of the Solid Waste Management Unit Assessment Report for the Middle DP Road Site	☒ **No restrictions** ☐ **UCNI** ☐ **Copyrighted**
Media type and quantity: 1 CD 4 DVDs	**Software and version required to read media:** Adobe Acrobat 9.0
Other document numbers or notes: Files are too numerous and large to upload.	

Attachment F-2

ProUCL Files
(on CD included with this document)

N3B RECORDS	
Media Information Page	
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Document Date: 12/22/2023	**EM ID number:** 703024-02
Document Title: Attachment F-2 Submittal of the Solid Waste Management Unit Assessment Report for the Middle DP Road Site	☒ **No restrictions** ☐ **UCNI** ☐ **Copyrighted**
Media type and quantity: 1 CD 4 DVDs	**Software and version required to read media:** Adobe Acrobat 9.0
Other document numbers or notes: Files are too numerous and large to upload.	

Attachment F-3

Calculations for Construction Worker Soil Screening Levels
(on CD included with this document)

N3B RECORDS	
Media Information Page	
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Document Date: 12/22/2023	**EM ID number:** 703024-03
Document Title: Attachment F-3 Submittal of the Solid Waste Management Unit Assessment Report for the Middle DP Road Site	☒ **No restrictions** ☐ **UCNI** ☐ **Copyrighted**
Media type and quantity: 1 CD 4 DVDs	**Software and version required to read media:** Adobe Acrobat 9.0
Other document numbers or notes: Files are too numerous and large to upload.	

Attachment F-4

Vapor Intrusion Lines of Evidence
(on CD included with this document)

N3B RECORDS	
Media Information Page	
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Document Date: 12/22/2023	**EM ID number:** 703024-04
Document Title: Attachment F-4 Submittal of the Solid Waste Management Unit Assessment Report for the Middle DP Road Site	☒ **No restrictions** ☐ **UCNI** ☐ **Copyrighted**
Media type and quantity: 1 CD 4 DVDs	**Software and version required to read media:** Adobe Acrobat 9.0
Other document numbers or notes: Files are too numerous and large to upload.	

Attachment F-5

2015 Risk-Based Radionuclide Screening Action Levels
(on CD included with this document)

N3B RECORDS	
Media Information Page	
This is a placeholder page for a record that cannot be uploaded or would lose meaning or content if uploaded. The record can be requested through regdocs@em-la.doe.gov	
Document Date: 12/22/2023	**EM ID number:** 703024-05
Document Title: Attachment F-5 Submittal of the Solid Waste Management Unit Assessment Report for the Middle DP Road Site	☒ **No restrictions** ☐ **UCNI** ☐ **Copyrighted**
Media type and quantity: 1 CD 4 DVDs	**Software and version required to read media:** Adobe Acrobat 9.0
Other document numbers or notes: Files are too numerous and large to upload.	

Attachment F-6

Ecological Scoping Checklist

F6-1.0 PART A—SCOPING MEETING DOCUMENTATION

Site IDs	Middle DP Road (MDPR) project site Former tract A-16-a Former tract A-8-a
Form of site releases (solid, liquid, vapor). Describe all relevant known or suspected <u>mechanisms</u> of release (spills, dumping, material disposal, outfall, explosive testing, etc.), and describe potential <u>areas</u> of release. Reference locations on a map as appropriate.	The MDPR site is located on DP Mesa on the northern boundary of Los Alamos National Laboratory (LANL or the Laboratory) and is immediately east-southeast of the Los Alamos townsite. DP Mesa extends from the mesa top to the stream channels in three adjacent canyons, DP Canyon to the north and BV and Los Alamos Canyons to the south. The MDPR site is located to the west of Technical Area 21 (TA-21) along DP Road. It is situated between the western end of former Material Disposal Area (MDA) B and the eastern end of tract A-8-b. The MDPR site is located within the footprint of tracts A-8-a and A-16-a. **<u>Tract A-16-a</u>** Tract A-16-a is an approximately 30-acre parcel located on DP Mesa between the eastern edge of the Los Alamos townsite and the western edge of TA-21. The tract consists of disturbed and undeveloped mesa top. It is adjacent to tract A-8-b to the west and tract A-8-a to the south, DP Road to the north, and TA-21 to the east. There are no known or suspected mechanisms of release in the area addressed to remove debris discovered during construction activities. The total area of the MDPR site within tract A-16-a is approximately 1.783 acres. **<u>Tract A-8-a</u>** Tract A-8-a is an approximately 22-acre parcel located on DP Mesa between the eastern edge of the Los Alamos townsite and the western edge of TA-21. Tract A-8 was originally one parcel but was divided into tracts A-8-a and A-8-b in 2005. Tract A-8-a is adjacent to tract A-11 to the west, tract A-8-b to the east and north, and tract A-16-a to the north and includes the finger mesa between BV and LA Canyons. The total area of the MDPR site within tract A-8-a is approximately 1.29 acres. The piping and a leach field from two solid waste management units (SWMUs), SWMU 00-030(b), septic tanks, and SWMU 00-030(m,) former septic tank, ran through tract A-8-a on their way to an outfall in BV Canyon. There are no known or suspected mechanisms of release in the area addressed to remove debris discovered during construction activities.
List of Primary Impacted Media **(Indicate all that apply.)**	**Surface soil –** X **Surface water/sediment** – N/A **Subsurface** – X **Groundwater** – N/A **Other, explain** – N/A

Vegetation Class Based on GIS Vegetation Coverage **(Indicate all that apply.)**	**Water** – N/A **Bare ground/unvegetated** – X **Spruce/fir/aspen/mixed conifer** – X **Ponderosa pine** – X **Piñon juniper/juniper savannah** – X **Grassland/shrubland** – X **Developed** – N/A **Burned –** N/A
Is T&E habitat present? **If applicable, list species known or suspected of using the site for breeding or foraging.**	Currently the area is not on LANL property. No threatened and endangered (T&E) species nesting habitat is present at the site. However, the area is within the foraging range of the Mexican spotted owl (LANL 2017, 701039).
Provide list of neighboring/ contiguous/upgradient sites, include a brief summary of COPCs and the form of releases for relevant sites, and reference a map as appropriate. **(Use this information to evaluate the need to aggregate sites for screening.)**	The former MDA B site and TA-21 (located east and south of the area). Chemicals of potential concern (COPCs) identified in the "Investigation/Remediation Report for Material Disposal Area B, SWMU 21-015, Revision 2" (LANL 2013, 243675) include the following inorganic chemicals: aluminum, antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, cyanide, copper, iron, lead, magnesium, mercury, nickel, perchlorate, potassium, selenium, silver, sodium, thallium, uranium, vanadium, and zinc. The COPCs also include the following organic chemicals: acetone; benzo(a)anthracene; benzo(a)pyrene; benzo(b)fluoranthene; benzo(g,h,i)perylene; benzo(k)fluoranthene; 2-butanone; chrysene; 4,4'-dichlorodiphenyldichloroethane; 4,4'-dichlorodiphenyldichloroethylene; 4,4'-dichlorodiphenyltrichloroethane; dibenz(a,h)anthracene; diethylphthalate; endrin; fluoranthene; heptachlor epoxide; 1,2,3,4,6,7,8-heptachlorodibenzodioxin; heptachlorodibenzodioxins (total); 1,2,3,4,6,7,8-heptachlorodibenzofuran; heptachlorodibenzofurans (total); hexachlorodibenzodioxins (total); hexachlorodibenzofurans (total); 2-hexanone; indeno(1,2,3-cd)pyrene; 4-isopropyltoluene; 4-methyl-2-pentanone; methylene chloride; indeno(1,2,3-cd)pyrene; 4-isopropyltoluene; 4-methyl-2-pentanone; methylene chloride; naphthalene; 1,2,3,4,6,7,8,9-octachlorodibenzodioxin; 1,2,3,4,6,7,8,9-octachlorodibenzofuran; pentachlorodibenzofurans (total); pyrene; tetrachlorodibenzofurans (total); trichloroethene; and 1,2,4-trimethylbenzene. Radionuclides include americium-241, cesium-137, plutonium-238, plutonium-239/240, strontium-90, tritium, uranium-234, uranium-235/236, and uranium-238.
Surface Water Erosion Potential Information Surface water erosion potential is based on site observations	Run-on to sites occurs from storms. Runoff may infiltrate into the shallow subsurface or move as sheet flow down the slope into LA Canyon or BV Canyon.

F6-2.0 PART B—SITE VISIT DOCUMENTATION

Site ID	MDPR project site Former tract A-16-a Former tract A-8-a
Date of Site Visit	January 25, 2023
Site Visit Conducted by	Aimee Reynolds and Kristen Lockhart

Receptor Information:

Estimate cover.	**Relative vegetative cover (high, medium, low, none)** = Low/none **Relative wetland cover (high, medium, low, none)** = None **Relative structures/asphalt, etc., cover (high, medium, low, none)** = None
Field Notes on the GIS Vegetation Class to Assist in Verifying the Arcview Information	The MDPR project site is former LANL property that was transferred as part of the Land Conveyance program and is now owned by Los Alamos County. The MDPR project site is bordered by Los Alamos and BV Canyons on the south, former TA-21 site to the east, DP Road and commercial sites to the north, and a former trailer park to the west. Development of the site was just beginning with the installation of a utility trench when the contamination was discovered.
Are ecological receptors present at the site (yes/ no/uncertain)? **Describe the general types of receptors present at the site (terrestrial and aquatic), and make notes on the quality of habitat present at the site.**	At the time of the ecological scoping, no receptors, except some plants, were present at the site because of ongoing excavation activities, low temperatures, and snow cover. The general types of receptors that may be present on-site are terrestrial biota such as reptiles, mammals, insects, birds, and plants. The slopes into Los Alamos Canyon also provide habitat for ecological receptors. The north side of DP road is highly developed and does not provide high-quality habitat.

Contaminant Transport Information:

Surface Water Transport/Field Notes on the Erosion Potential, Including a Discussion of the Terminal Point of Surface Water Transport (if applicable)	Runoff (surface water transport) potential is high because these tracts are situated on the mesa top. The two tracts slope towards Los Alamos Canyon, but there is no evidence of significant water erosion at these sites (e.g., lack of headcuts).
Are there any off-site transport pathways (surface water, air, or groundwater) **(yes/no/uncertain)?** **Provide explanation.**	Yes, sheet flow from the mesa top to Los Alamos Canyon occurs during summer storms and as a result of snowmelt. A pathway to groundwater is unlikely because regional ground water is 1000–1300 ft below ground surface (bgs) to the aquifer. No intermediate or alluvial groundwater is in the vicinity. There may be some air dispersion when the area is dry, but it is a minor transport pathway.

Ecological Effects Information:

Physical Disturbance **(Provide list of major types of disturbances, including erosion and construction activities; review historical aerial photos where appropriate.)**	Construction, including excavation for utilities and for future buildings and debris removal efforts, have recently been performed on tract A-8-a and tract A-16-a. The majority of soil is disturbed with little or no vegetation present. An elm situated near the area that was being excavated from tract A-16-a will be removed. A concrete pad and sewer lift station are currently located in tract A-8-a.
Are there obvious ecological effects (yes/no/uncertain)? **Provide explanation and apparent cause (e.g., contamination, physical disturbance, other).**	Yes, due to the excavation and construction actions, the habitat is not natural and is of poor quality.

No Exposure/Transport Pathways:

If there are no complete exposure pathways to ecological receptors on-site and no transport pathways to off-site receptors, the remainder of the checklist should not be completed. Stop here, and provide additional explanation/justification for proposing an ecological No Further Action recommendation (if needed). At a minimum, the potential for future transport should include the likelihood that future construction activities could make contamination more available for exposure or transport. Not applicable

Adequacy of Site Characterization:

Do existing or proposed data provide information on the nature and extent of contamination (yes/no/uncertain)? **Provide explanation (consider whether the maximum value was captured by existing sample data).**	Yes, the sampling approach in the New Mexico Environment Department–(NMED-) approved “Solid Waste Management Unit Assessment Work Plan for Middle DP Road Site, Revision 1” (N3B 2021, 701344; NMED 2021, 701368) is designed to determine the nature and extent of any contamination within the MDPR project site area.
Do existing or proposed data for the site address potential transport pathways of site contamination (yes/no/uncertain)? **Provide explanation (consider whether other sites should be aggregated to characterize potential ecological risk).**	Yes, existing and planned data from the sampling approach for the two tracts in the NMED-approved SWMU assessment work plan for the MDPR site, Revision 1 (N3B 2021 701344; NMED 2021 701368) is designed to address potential transport pathways and characterize ecological risk. The results will indicate that the nature and extent of the contamination at the sites will be defined through the data evaluation process.

Additional Field Notes:

Provide additional field notes on the site setting and potential ecological receptors.

Current excavation and future construction activities, disturbance and uptake by plants and animals, surface water runoff, and wind can disturb contaminants present in shallow soils. During summer thunderstorms and spring snowmelt, runoff from the mesa top may flow down the hillsides and into the perennial and ephemeral streams present in BV and Los Alamos Canyons. Surface water runoff and erosion of contaminated surface soil could lead to contamination of bench areas on the hillside and contamination of the surface water off-site. Surface water may also access subsurface contaminants exposed by soil erosion. Soil erosion can vary significantly depending on factors that include soil properties, the amount of vegetative cover, the slope of the contaminated area, and the intensity and frequency of precipitation. Snow was present at the site during ecoscoping; however, no evidence of snowmelt causing erosion was noted. Surface transport of contaminants does not represent a dominant transport pathway at the MDPR site.

No surface expression of debris has been identified at the MDPR site. However, debris was discovered during construction activities at the site. Contaminated debris was encountered at depths below 7 ft bgs. At the time of ecoscoping, excavation activities were occurring and the site was highly disturbed. No notable ecological receptors or habitat were apparent at the time of ecoscoping.

Studies have shown that infiltration of natural precipitation is quite low across the mesa tops of the Pajarito Plateau. The average annual potential evapotranspiration rates far exceed precipitation rates. Under these conditions, infiltration events that propagate beneath the root zone are sporadic and occur only when the short-term infiltration rate exceeds the evapotranspiration rate, such as during summer thunderstorms and spring snowmelt. However, these events more commonly produce runoff into neighboring canyons, resulting in infiltration rates below the root zone on the order of a few millimeters or less per year for mesa-top sites.

This slow infiltration rate generally leads to present-day subsurface contaminant migration of only a few meters deep. Geochemical interactions between the contaminants and the rocks generally act to retard migration further. Therefore, groundwater transport of contaminants through the unsaturated zone to the regional aquifer does not represent a dominant pathway for contaminant transport at the MDPR site.

F6-3.0 PART C—ECOLOGICAL PATHWAYS CONCEPTUAL EXPOSURE MODEL

Provide answers to Questions A to V to develop the Ecological Pathways Conceptual Exposure Model

Question A:

Could soil contaminants reach receptors through vapors?

- **Volatility of the hazardous substance (volatile chemicals generally have Henry's law constant >10^{-5} atm-m^3/mol and molecular weight <200 g/mol).**

Answer (likely/unlikely/uncertain): Unlikely

Provide explanation: Most contaminants are subsurface and are at low concentrations (less than or similar to estimated quantitation limits).

Question B:

Could the soil contaminants reach receptors through fugitive dust carried in air?

- **Soil contamination would have to be on the actual surface of the soil to become available for dust.**
- **In the case of dust exposures to burrowing animals, the contamination would have to occur in the depth interval where these burrows occur.**

Answer (likely/unlikely/uncertain): Likely

Provide explanation: It is expected that some COPCs may be detected in the surface interval, but most are in the subsurface.

Question C:

Can contaminated soil be transported to aquatic ecological communities (use SOP 2.01 run-off score and terminal point of surface water runoff to help answer this question)?

- **If the SOP 2.01 run-off score* for each SWMU and/or AOC included in the site is equal to zero, this suggests that erosion at the site is not a transport pathway. (*Note that the runoff score is not the entire erosion potential score; rather, it is a subtotal of this score with a maximum value of 46 points.)**
- **If erosion is a transport pathway, evaluate the terminal point to see whether aquatic receptors could be affected by contamination from this site.**

Answer (likely/unlikely/uncertain): Unlikely

Provide explanation: No aquatic communities exist on the mesa top or the canyon slopes.

Question D:

Is contaminated groundwater potentially available to biological receptors through seeps, springs, or shallow groundwater?

- **Known or suspected presence of contaminants in groundwater.**
- **The potential exists for contaminants to migrate through groundwater and discharge into habitats and/or surface waters.**
- **Contaminants may be taken up by terrestrial and rooted aquatic plants whose roots are in contact with groundwater present within the root zone.**
- **Terrestrial wildlife receptors generally will not contact groundwater unless it is discharged to the surface.**

Answer (likely/unlikely/uncertain): Unlikely

Provide explanation: No seeps or springs are present on the mesa top or canyon slopes, and no perched water was found. The depth to groundwater is over 1000 ft bgs.

Question E:

Is infiltration/percolation from contaminated subsurface material a viable transport and exposure pathway?

- **The potential exists for contaminants to migrate to groundwater.**
- **The potential exists for contaminants to migrate through groundwater and discharge into habitats and/or surface waters.**
- **Contaminants may be taken up by terrestrial and rooted aquatic plants whose roots are in contact with groundwater present within the root zone.**
- **Terrestrial wildlife receptors generally will not contact groundwater unless it is discharged to the surface.**

Answer (likely/unlikely/uncertain): Unlikely

Provide explanation: The depth to groundwater is approximately 1000–1300 ft. Contaminants are unlikely to migrate to the regional aquifer given the depth to groundwater. The lack of a significant hydraulic driver (e.g., no ponded water on the surface) facilitating infiltration also mitigates the potential for the contaminants reaching the groundwater.

Question F:

Might erosion or mass wasting events be a potential release mechanism for contaminants from subsurface materials or perched aquifers to the surface?

- **This question is only applicable to release sites located on or near the mesa edge.**
- **Consider the erodability of surficial material and the geologic processes of canyon/mesa edges.**

Answer (likely/unlikely/uncertain): Unlikely

Provide explanation: Tract A-16-a is not located near the mesa edge. Tract A-8-a is located near the mesa edge of Los Alamos Canyon. There are no perched aquifers near tract A-8-a. There is no evidence of erosion on the mesa edge.

Question G:

Could airborne contaminants interact with receptors through the respiration of vapors?

- **Contaminants must be present as volatiles in the air.**
- **Consider the importance of the inhalation of vapors for burrowing animals.**
- **Foliar uptake of vapors is typically not a significant exposure pathway.**

Provide quantification of exposure pathway (0 = no pathway, 1 = unlikely pathway, 2 = minor pathway, 3 = major pathway):

Terrestrial Plants: 2

Terrestrial Animals: 2

Provide explanation: Volatile organic compounds have been detected at low concentrations.

Question H:

Could airborne contaminants interact with plants through the deposition of particulates or with animals through the inhalation of fugitive dust?

- **Contaminants must be present as particulates in the air or as dust for this exposure pathway to be complete.**
- **Exposure through the inhalation of fugitive dust is particularly applicable to ground-dwelling species that would be exposed to dust disturbed by their foraging or burrowing activities or by wind movement.**

Provide quantification of exposure pathway (0 = no pathway, 1 = unlikely pathway, 2 = minor pathway, 3 = major pathway):

Terrestrial Plants: 3

Terrestrial Animals: 2

Provide explanation: Surface soil contamination is present at low concentrations. Subsurface soil contamination has been exposed during excavation.

Question I:

Could contaminants interact with plants through root uptake or rain splash from surficial soils?

- **Contaminants in bulk soil may partition into soil solution, making them available to roots.**
- **Exposure of terrestrial plants to contaminants is present in particulates deposited on leaf and stem surfaces by rain striking contaminated soils (i.e., rain splash).**

Provide quantification of exposure pathway (0 = no pathway, 1 = unlikely pathway, 2 = minor pathway, 3 = major pathway):

Terrestrial Plants: 3

Provide explanation: Surface soil contamination is present. Subsurface soil contamination has been exposed during excavation.

Question J:

Could contaminants interact with receptors through food-web transport from surficial soils?

- **The chemicals may bioaccumulate in animals.**
- **Animals may ingest contaminated food items.**

Provide quantification of exposure pathway (0 = no pathway, 1 = unlikely pathway, 2 = minor pathway, 3 = major pathway):

Terrestrial Animals: 3

Provide explanation: Surface soil contamination is present. Subsurface soil contamination has been exposed during excavation. COPCs are expected to be present in the surface and subsurface soils.

Question K:

Could contaminants interact with receptors through the incidental ingestion of surficial soils?

- **Incidental ingestion of contaminated soil could occur while animals grub for food resident in the soil, feed on plant matter covered with contaminated soil, or groom themselves clean of soil.**

Provide quantification of exposure pathway (0 = no pathway, 1 = unlikely pathway, 2 = minor pathway, 3 = major pathway):

Terrestrial Animals: 3

Provide explanation: Surface soil contamination is present. Subsurface soil contamination has been exposed during excavation. COPCs are expected to be present in the surface and subsurface soils.

Question L:

Could contaminants interact with receptors through dermal contact with surficial soils?

- **Significant exposure through dermal contact would generally be limited to organic contaminants that are lipophilic and can cross epidermal barriers.**

Provide quantification of exposure pathway (0 = no pathway, 1 = unlikely pathway, 2 = minor pathway, 3 = major pathway):

Terrestrial Animals: 2

Provide explanation: Low to moderate concentrations of lipophilic COPCs (hydrocarbon compounds dissolvable in fat) are expected in the subsurface soil.

Question M:

Could contaminants interact with plants or animals through external irradiation?

- **External irradiation effects are most relevant for gamma-emitting radionuclides.**
- **Burial of contamination attenuates radiological exposure.**

Provide quantification of exposure pathway (0 = no pathway, 1 = unlikely pathway, 2 = minor pathway, 3 = major pathway):

Terrestrial Plants: 2

Terrestrial Animals: 2

Provide explanation: Gamma-emitting radionuclides were identified as COPCs.

Question N:

Could contaminants interact with plants through direct uptake from water and sediment or sediment rain splash?

- **Contaminants may be taken up by terrestrial plants whose roots are in contact with surface waters.**
- **Terrestrial plants may be exposed to particulates deposited on leaf and stem surfaces by rain striking contaminated sediments (i.e., rain splash) in an area that is only periodically inundated with water.**
- **Contaminants in sediment may partition into soil solution, making them available to roots.**

Provide quantification of exposure pathway (0 = no pathway, 1 = unlikely pathway, 2 = minor pathway, 3 = major pathway):

Terrestrial Plants: 0

Provide explanation: There is no aquatic habitat present.

Question O:

Could contaminants interact with receptors through food-web transport from water and sediment?

- **The chemicals may bioconcentrate in food items.**
- **Animals may ingest contaminated food items.**

Provide quantification of exposure pathway (0 = no pathway, 1 = unlikely pathway, 2 = minor pathway, 3 = major pathway):

Terrestrial Animals: 0

Provide explanation: There is no aquatic habitat present.

Question P:

Could contaminants interact with receptors through the ingestion of water and suspended sediments?

- **If sediments are present in an area that is only periodically inundated with water, terrestrial receptors may incidentally ingest sediments.**
- **Terrestrial receptors may ingest water-borne contaminants if contaminated surface waters are used as a drinking water source.**

Provide quantification of exposure pathway (0 = no pathway, 1 = unlikely pathway, 2 = minor pathway, 3 = major pathway):

Terrestrial Animals: 0

Provide explanation: There is no aquatic habitat present.

Question Q:

Could contaminants interact with receptors through dermal contact with water and sediment?

- **If sediments are present in an area that is only periodically inundated with water, terrestrial species may be dermally exposed during dry periods.**
- **Terrestrial organisms may be dermally exposed to water-borne contaminants as a result of wading or swimming in contaminated waters.**

Provide quantification of exposure pathway (0 = no pathway, 1 = unlikely pathway, 2 = minor pathway, 3 = major pathway):

Terrestrial Animals: 0

Provide explanation: There is no aquatic habitat present.

Question R:

Could suspended or sediment-based contaminants interact with plants or animals through external irradiation?

- **External irradiation effects are most relevant for gamma-emitting radionuclides.**
- **Burial of contamination attenuates radiological exposure.**

Provide quantification of exposure pathway (0 = no pathway, 1 = unlikely pathway, 2 = minor pathway, 3 = major pathway):

Terrestrial Plants: 0

Terrestrial Animals: 0

Provide explanation: There is no aquatic habitat present.

Question S:

Could contaminants bioconcentrate in free-floating aquatic plants, attached aquatic plants, or emergent vegetation?

- **Aquatic plants are in direct contact with water.**
- **Contaminants in sediment may partition into pore water, making them available to submerged roots.**

Provide quantification of exposure pathway (0 = no pathway, 1 = unlikely pathway, 2 = minor pathway, 3 = major pathway):

Aquatic Plants/Emergent Vegetation: 0

Provide explanation: There is no aquatic habitat present.

Question T:

Could contaminants bioconcentrate in sedimentary or water-column organisms?

- **Aquatic receptors may actively or incidentally ingest sediment while foraging.**
- **Aquatic receptors may be directly exposed to contaminated sediments or may be exposed to contaminants through osmotic exchange, respiration, or ventilation of sediment pore waters.**
- **Aquatic receptors may be exposed through osmotic exchange, respiration, or ventilation of surface waters.**

Provide quantification of exposure pathway (0 = no pathway, 1 = unlikely pathway, 2 = minor pathway, 3 = major pathway):

Aquatic Animals: 0

Provide explanation: There is no aquatic habitat present.

Question U:

Could contaminants bioaccumulate in sedimentary or water-column organisms?

- **Lipophilic organic contaminants and some metals may concentrate in an organism's tissues.**
- **Ingestion of contaminated food items may result in contaminant bioaccumulation through the food web.**

Provide quantification of exposure pathway (0 = no pathway, 1 = unlikely pathway, 2 = minor pathway, 3 = major pathway):

Aquatic Animals: 0

Provide explanation: There is no aquatic habitat present.

Question V:

Could contaminants interact with aquatic plants or animals through external irradiation?

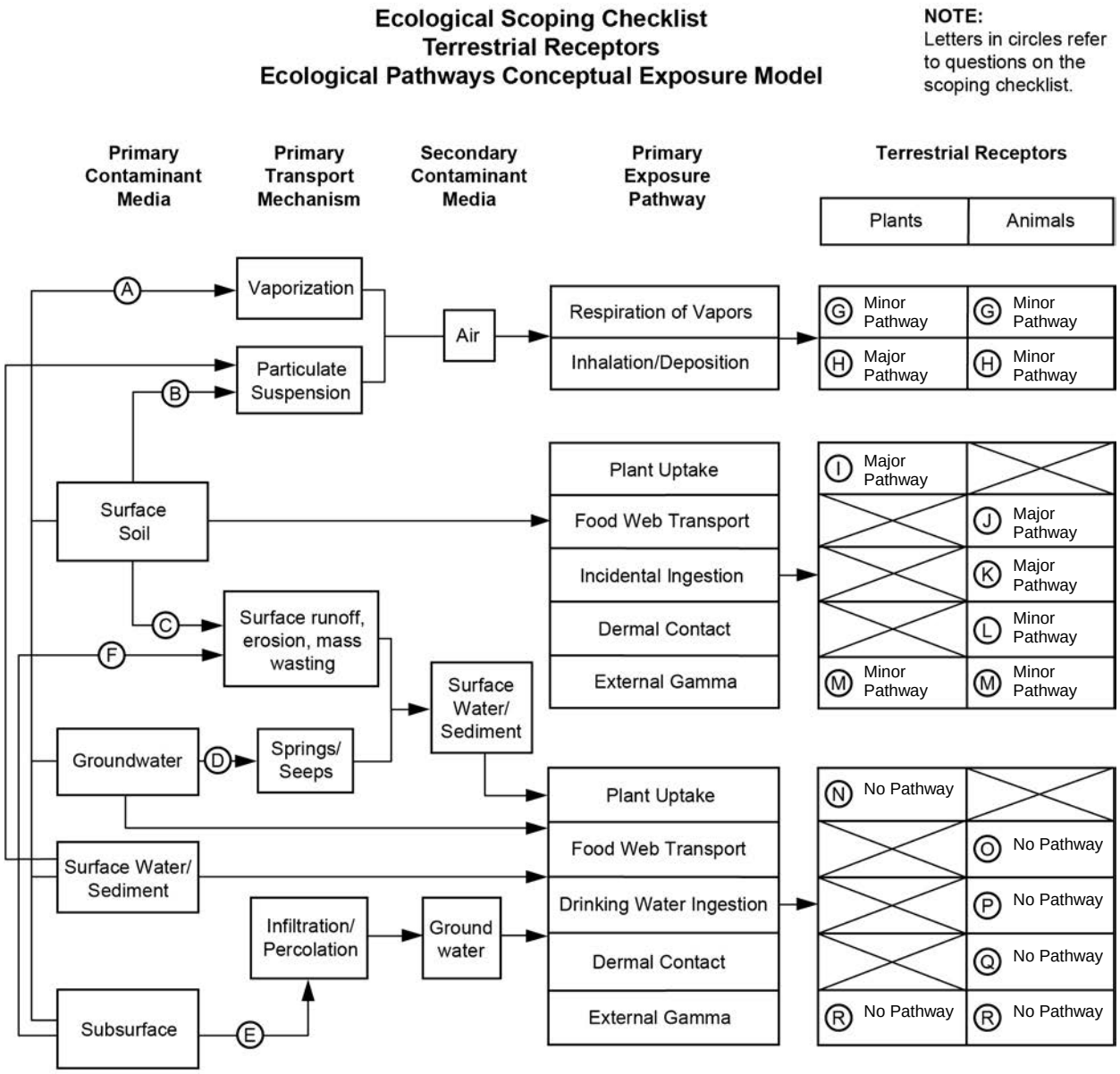
- **External irradiation effects are most relevant for gamma-emitting radionuclides.**
- **The water column acts to absorb radiation; therefore, external irradiation is typically more important for sediment-dwelling organisms.**

Provide quantification of exposure pathway (0 = no pathway, 1 = unlikely pathway, 2 = minor pathway, 3 = major pathway):

Aquatic Plants: 0

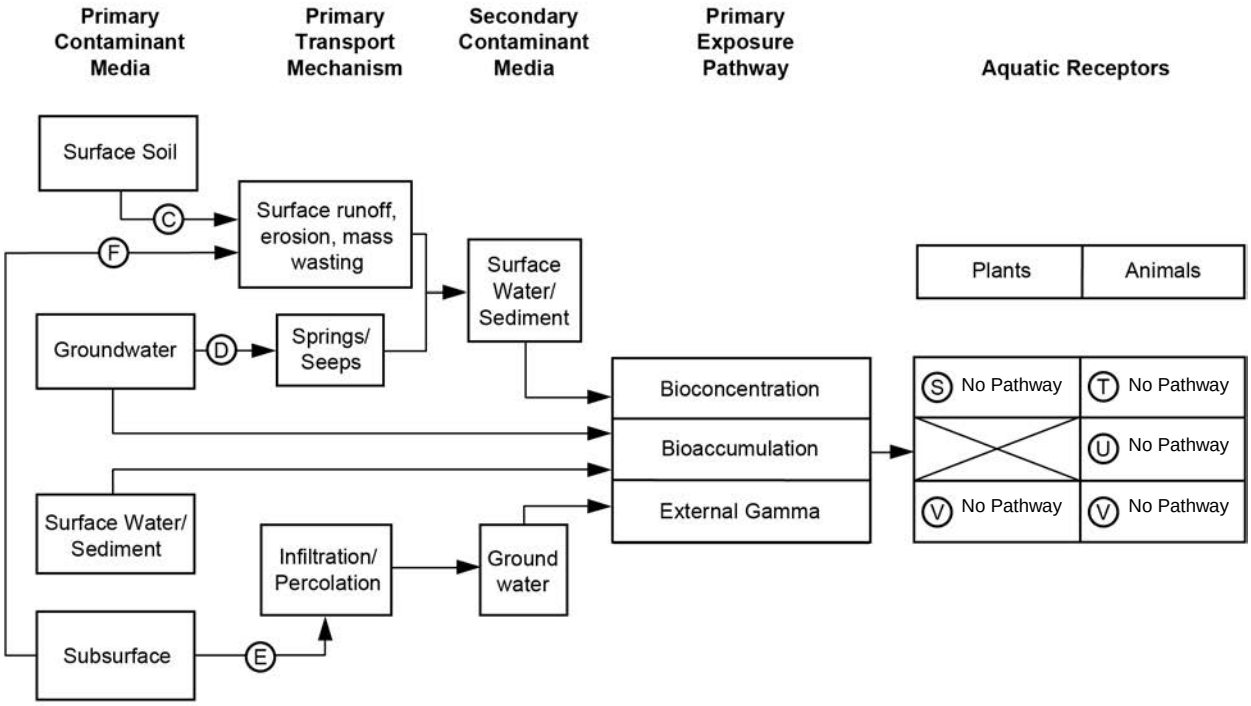
Aquatic Animals: 0

Provide explanation: There is no aquatic habitat present.


Ecological Scoping Checklist
Terrestrial Receptors
Ecological Pathways Conceptual Exposure Model
NOTE:
Letters in circles refer to questions on the scoping checklist.
Primary Contaminant Media
Primary Transport Mechanism
Secondary Contaminant Media
Primary Exposure Pathway
Terrestrial Receptors
Plants
Animals
A
Vaporization
B
Particulate Suspension
Air
Respiration of Vapors
Inhalation/Deposition
G Minor Pathway
G Minor Pathway
H Major Pathway
H Minor Pathway
Surface Soil
C
Surface runoff, erosion, mass wasting
F
Surface Water/ Sediment
Plant Uptake
Food Web Transport
Incidental Ingestion
Dermal Contact
External Gamma
I Major Pathway
J Major Pathway
K Major Pathway
L Minor Pathway
M Minor Pathway
M Minor Pathway
Groundwater
D
Springs/ Seeps
Surface Water/ Sediment
Infiltration/ Percolation
Ground water
Subsurface
E
Plant Uptake
Food Web Transport
Drinking Water Ingestion
Dermal Contact
External Gamma
N No Pathway
O No Pathway
P No Pathway
Q No Pathway
R No Pathway
R No Pathway

Ecological Scoping Checklist
Aquatic Receptors
Ecological Pathways Conceptual Exposure Model

NOTE:
Letters in circles refer to questions on the scoping checklist.



SIGNATURES AND CERTIFICATION

Checklist completed by:

Name (printed): Aimee Reynolds

Name (signature): Aimee J Reynolds

Organization: Neptune and Company, Inc.

Date completed: July 28, 2023

Checklist reviewed by:

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Organization: RCRA Remediation

Date reviewed: November 9, 2023

F6-4.0 REFERENCES

The following reference list includes documents cited in this appendix. Parenthetical information following each reference provides the author(s), publication date, and ERID, ESHID, or EMID. ERIDs were assigned by the Laboratory's Associate Directorate for Environmental Management (IDs through 599999); ESHIDs were assigned by the Laboratory's Associate Directorate for Environment, Safety, and Health (IDs 600000 through 699999); and EMIDs are assigned by N3B (IDs 700000 and above).

LANL (Los Alamos National Laboratory), June 2013. "Investigation/Remediation Report for Material Disposal Area B, Solid Waste Management Unit 21-015, Revision 2," Los Alamos National Laboratory document LA-UR-13-24556, Los Alamos, New Mexico. (LANL 2013, 243675)

LANL (Los Alamos National Laboratory), October 2017. "Threatened and Endangered Species Habitat Management Plan for Los Alamos National Laboratory," Los Alamos National Laboratory document LA-UR-17-29454, Los Alamos, New Mexico. (LANL 2017, 701039)

N3B (Newport News Nuclear BWXT-Los Alamos, LLC), March 2021. "Solid Waste Management Unit Assessment Work Plan for Middle DP Road Site, Revision 1," Newport News Nuclear BWXT-Los Alamos, LLC, document EM2021-0095, Los Alamos, New Mexico. (N3B 2021, 701344)

NMED (New Mexico Environment Department), April 5, 2021. "Approval, Solid Waste Manangement [sic] Unit Assessment Work Plan for Middle DP Road Site, Revision 1," New Mexico Environment Department letter to A. Duran (EM-LA) from K. Pierard (NMED-HWB), Santa Fe, New Mexico. (NMED 2021, 701368)

Appendix G

Compliance Report for the Middle DP Road Site
Pursuant to U.S. Department of Energy Order 458.1

G-1.0 INTRODUCTION AND BACKGROUND

An assessment of the Middle DP Road (MDPR) site was performed as described in the approved "Solid Waste Management Unit Assessment Work Plan for the Middle DP Road Site, Revision 1" (hereafter, MDPR WP R1) (N3B 2021, 701344; NMED 2021, 701368) and the "Extent Sampling Work Plan for the Middle DP Road Site, Revision 16" (ESWP) (BGI 2023, 702948). The assessment was designed to determine the nature and extent of potential radiological and chemical contamination associated with the MDPR site and support a determination to include this site as a newly discovered solid waste management unit (SWMU) or area of concern (AOC) or if no further action related to this site will be taken.

The SWMU assessment of the MDPR site was performed under the Environmental Radiation Protection Program developed and implemented by Newport News Nuclear BWXT-Los Alamos, LLC (N3B) to address compliance with the requirements of the Contractor Requirements Document (CRD) to DOE Order 458.1. N3B established and implemented the Environmental Radiation Protection Program to protect the public and the environment against undue risk from radiation associated with N3B radiological activities, including the SWMU assessment of the MDPR site, through the implementation of the applicable requirements in the CRD to DOE Order 458.1.

This compliance report appendix documents the review of the plans, procedures, and protocols used to implement the relevant requirements of the CRD to DOE Order 458.1. This appendix also documents the review of the main SWMU assessment report (SAR) for the MDPR site, describing survey activities performed as part of the assessment of the MDPR site.

G-2.0 PROJECT DESCRIPTION AND BACKGROUND

On February 20, 2020, the U.S. Department of Energy (DOE) made a verbal notification to the New Mexico Environment Department (NMED) that on February 14, 2020, a Los Alamos County (LAC) public utilities subcontractor encountered debris during excavation activities for a new sewer utility line designed to serve two new housing complexes and existing facilities along DP Road within the west end of Technical Area 21 (TA-21). The DOE Environmental Management Los Alamos Field Office (EM-LA) and National Nuclear Security Administration (NNSA) Los Alamos Field Office (NA-LA), along with N3B and Triad National Security, LLC (Triad), prepared and submitted details of the event and the initial response to NMED on March 9, 2020 (DOE 2020, 700839), in a joint response to the February 28, 2020, request for information from NMED (NMED 2020, 700783). The area where the debris was encountered is within the land conveyance and transfer tracts A-8-a and A-16-a south of DP Road at the west end of TA-21. Land conveyance and transfer tract A-16-a was conveyed from DOE to LAC in 2018, and land conveyance and transfer tract A-8-a was transferred to the Los Alamos School Board in 2007 and later was conveyed with consideration to LAC.

On April 7, 2020, NMED requested that DOE submit a preliminary screening plan in accordance with Section X.C of the Compliance Order on Consent (Consent Order) (NMED 2020, 700838). EM-LA and N3B prepared and submitted the "Solid Waste Management Unit Assessment Work Plan for Middle DP Road Site" to NMED in December 2020 (N3B 2020, 701169). In March 2021, EM-LA and N3B prepared and submitted the MDPR WP R1 to NMED (N3B 2021, 701344). NMED approved the MDPR WP R1 in April 2021 (NMED 2021, 701368).

The objectives of the investigation activities described in the MDPR WP R1 were to evaluate historical information and propose sampling to determine the nature and extent of potential contamination associated with the MDPR site. The investigation approach focused on identifying areas where debris was located, defining the extent of contamination associated with the debris, and removing any

contaminated debris and soil. Based on the results of the screening assessment, a determination would be made if the MDPR site should be included in Appendix A of the Consent Order as a newly discovered SWMU or AOC or if no further action related to this site would be taken. The MDPR WP R1 describes in detail all investigation and waste management procedures and activities implemented at the site until completion of the investigation. During the implementation of the MDPR WP R1 in 2021, large areas with contaminated debris were discovered. The initial potholing and removal of debris from the known debris sites was completed on October 20, 2021; a total of 3344 yd^3 of waste and soil was excavated. Hand-auger sampling for the confirmation sampling began in November 2021, and hollow-core auger confirmation sampling was conducted within and adjacent to excavated areas of the MDPR site in January 2021. Evaluation of the initial sampling data collected to date indicated the extent of contamination and area requiring cleanup were not yet defined, and additional sampling was required.

An ESWP was developed to supplement the MDPR WP R1. The ESWP describes in detail the additional sampling required to define the extent of contamination and the extent of areas requiring cleanup at the MDPR site. The investigation and cleanup activities described in the ESWP were implemented in accordance with the MDPR WP R1.

G-2.1 MDPR Site History and Description

The MDPR site is located on DP Mesa on the northern boundary of Los Alamos National Laboratory (LANL or the Laboratory) and is immediately east-southeast of the Los Alamos townsite. DP Mesa extends from the mesa top to the stream channels in three adjacent canyons, DP Canyon to the north and BV and Los Alamos Canyons to the south. The MDPR site is located to the west of TA-21 along DP Road. It is situated between the western end of former Material Disposal Area (MDA) B and the eastern end of tract A-8-b. The MDPR site is located within the footprint of tracts A-8-a and A-16-a.

The assessment boundary for the MDPR site was determined by DOE based on historical document reviews and site investigations conducted previously in the area. The boundary follows the western edge of tract A-8-b, which is the former location of a residential trailer park and playground area from 1951 to 1974. The boundaries to the north and east were determined by the areas remediated in the western portion of MDA B in 2010 and 2011. The boundary to the south includes the area used as a construction laydown area in the 1940s and extends to the DOE property boundary. The MDPR site boundary encompasses the area referred to in a 1945 memo that described a pit located southeast of the coal storage yard (Dow 1945, 006713). Both commercial and LANL properties lie immediately north of the MDPR area. The location of the MDPR site with respect to surrounding landholdings is shown in Figure G-2.1-1. During the course of the SAR investigation, the MDPR site boundary was expanded three times to encompass additional areas requiring sampling and remediation. These expansion areas are shown in Figure G-2.1-2.

G-2.2 DOE Order 458.1 and MARSSIM Compliance

G-2.2.1 Work Plan Implementation

The SWMU assessment work plan for MDPR was developed using EPA's "Multi-Agency Radiation Survey and Site Investigation Manual" (MARSSIM) principles, as required in DOE Order 458.1 and N3B procedures. The work plan incorporated MARSSIM principles to confirm, within the stated statistical confidence limits, that the mean levels of potential radioactive residual contamination in soils at the MDPR site were below the 25-mrem/yr screening action levels (SALs) and laboratory debris removed.

A MARSSIM approach was used to determine the number and size of the triangular grid. The purpose was to detect "hot spots" (local areas of elevated concentrations or debris areas) of a given size and shape with a specified probability. Radiological contamination was expected to be present due to the past burial of debris at the site. Therefore, the investigation approach focused on identifying areas where debris was potentially located and defining the extent of contamination associated with the debris. The requirement for a final status survey was met through sampling of vertical and lateral extent of contamination. The bottoms of excavations were treated as newly exposed surfaces, and confirmation samples served as the final status survey.

Potholing was conducted at 106 locations, based on a triangular grid spacing of approximately 35 ft to determine if debris or waste disposal areas are present at the MDPR site. The grid spacing was based on a 100% probability of locating a 40-ft × 80-ft waste pit, as referenced by Tribby (1945, 033817). This grid spacing also provides a 95% probability of locating a waste pit within an approximate 1000-ft^2 area (17.5-ft radius). Before initiating potholing/excavations, radiological control technicians (RCTs) screened the ground surface within the pothole/excavation boundaries to determine potential radiological impacts present at shallow depths. The potholes were then excavated down to the top of native tuff at each location. If contaminated debris was encountered, the excavation area was expanded to define the extent of the debris. The debris was removed, containerized, and sampled, and confirmation samples were collected at depths 0–1 ft and 3–4 ft below the bottom of the excavation. Confirmation sampling was conducted at step-out locations surrounding the excavation, from depth intervals of 0–1 ft, 4–5 ft, and 7–8 ft bgs and at the soil/tuff interface. The step-out distance and locations of confirmation samples to be collected in the bottom of and surrounding the excavation were determined after the excavation was completed. If noncontaminated debris was encountered, an evaluation was conducted to determine if the debris had characteristics of 1944-era Laboratory materials (e.g., beakers, glass fragments, crucibles, gloves). If noncontaminated debris was determined to be Laboratory derived, it was removed, containerized, sampled, and managed as waste. If no debris was encountered, the pothole was backfilled and samples were not collected.

Geophysical surveys were conducted within the MDPR site boundary to identify potential locations of buried debris or former waste disposal areas. Areas were excavated where anomalies were identified. If contaminated debris was encountered, the excavation area was expanded to define the extent of the debris. The debris was removed, containerized, and sampled, and confirmation samples were collected at depths 0–1 ft and 3–4 ft below the bottom of the excavation. Confirmation sampling was conducted at step-out locations surrounding the excavation area from depth intervals of 0–1 ft, 4–5 ft, and 7–8 ft bgs and at the soil/tuff interface. If no debris was encountered, the excavation or test pit was backfilled and samples were not collected.

Areas previously identified with contaminated debris were excavated. If additional contaminated debris was encountered, the excavation area was expanded to define the extent of the debris. The debris was removed, containerized, and sampled, and confirmation samples were collected at depths 0–1 ft and 3–4 ft below the bottom of the excavation. Confirmation sampling was conducted at step-out locations surrounding the excavation from depth intervals of 0–1 ft, 4–5 ft, and 7–8 ft bgs and at the soil/tuff interface. The step-out distance and locations of confirmation samples to be collected in the bottom of and surrounding the excavation were determined after the excavation was completed. Confirmation sampling results were used to define the lateral and vertical extent of potential contamination associated with the debris.

As sampling was being conducted to define nature and extent, radiological field screening was conducted mainly for health and safety purposes. However, if elevated field-screening levels were observed for the deepest sample collected from a specific sampling location, sample collection was continued until field-screening results showed no elevated readings. The proposed field-screening approach included

(1) visual examination of samples for evidence of contamination (discolored soil) and (2) screening for gross-alpha, -beta, and -gamma radioactivity. Radiological field screening was used to identify contaminated debris or media during potholing and excavation activities. Analytical samples of the debris were collected only if radiological readings exceeded surface contamination values. Potentially contaminated debris or media was excavated, characterized, packaged, and disposed of at an appropriate waste disposal facility.

G-2.2.2 Sample Data, Statistical Evaluation, and Dose Assessment

DOE Order 458.1 authorizes a site-specific modeled radiation dose of up to 25 mrem/yr for cleanup and the release of real property. A 25-mrem/yr target dose limit is well below the basic dose limit of 100 mrem/yr above background established in DOE Order 458.1 for dose from all DOE sources. Based on this guidance, any dose equal to or less than 25 mrem/yr (with as low as reasonably achievable [ALARA] requirements addressed) is acceptable in determining that no further action is warranted at a site and/or allowing the release of real property.

Dose assessments were performed using a calculated exposure point concentration (EPC) (see Appendix F) and by sum-of-fractions methodology. For the sum-of-fractions method, over 10,000 sample results were compared against the DOE-approved SALs. Data from tracts A-8-a and A-16-a resulted in thousands of undetected isotopes in many samples. The detected results were below the SALs.

Some isotopes, including cesium-134, sodium-22, technetium-99, cobalt-60, and tritium, were excluded due to insufficient detections. Two of these (cobalt-60 and tritium) were included in the dose assessment conducted using calculated EPCs (see Appendix F), resulting in an overestimated dose.

For tract A-8-a, the sample with the maximum activity was collected from 10–11 ft bgs**.** For a sample near the surface (0–1 ft bgs) in tract A-8-a, the highest dose based on sum-of-fractions calculations was 0.764 mrem/yr.

For tract A-16-a, the sample with the maximum activity was taken from 4–5 ft bgs. For a sample near the surface (0–1 ft bgs) in tract A-16-a, the highest dose based on sum-of-fractions calculations was 2.575 mrem/yr.

Data show that using either the EPC or sum-of-fractions method satisfy MARSSIM principles and DOE Order 458.1. Mean levels of potential radioactive residual contamination in soils at the MDPR site are below the 25-mrem/yr SALs. The SALs presented in Table G-2.2-1 were used in both assessments and are more restrictive than the limits approved for real property release by DOE in 2017 (Table G-2.2-2).

G-2.3 Tract A-16-a

Tract A-16-a is an approximately 30-acre parcel located on DP Mesa between the east end of the Los Alamos townsite and the west end of former MDA B in the western portion of TA-21 (Figure G-2.1-1). All or portions of eight SWMUs and six AOCs are located within tract A-16-a. All but one of these SWMUs and AOCs have been approved for no further action or for corrective action complete without controls. The western portion of former MDA B (SWMU 21-015) is located within the northwest portion of tract A-16-a; this is the only SWMU or AOC in tract A-16-a within the MDPR site boundary. The area of the MDPR site within tract A-16-a is approximately 1.8 acres.

On February 20, 2020, DOE made verbal notification to NMED that on February 14, 2020, an LAC public utilities subcontractor encountered debris during excavation activities for a new sewer utility line designed to serve two new housing complexes and existing facilities along DP Road. The debris was situated 7 to 8 ft below ground surface (bgs) at the southern end of the sewer trench excavation. The debris uncovered consisted of metal sheeting, cast iron piping, discolored soil, soil mixed with broken glass, and filter paper media. Debris also included glass vials, bottles, stoppers, and other material similar to chemical laboratory waste. The LAC Fire Department and the Hazardous Materials (HazMat) team were deployed to the scene, took preliminary field-screening measurements, and determined that there was no imminent or immediate threat to human health or the environment. However, the HazMat team determined radiological values were greater than the background threshold. Subsequently, DOE deployed a Radiological Assistance Program team to conduct additional radiological assessments of the area and notified NMED that plutonium contamination was confirmed at the site and that access to the site was being controlled with the use of locked fencing. Additional radiological contamination was identified (plutonium and uranium) by the Radiological Assistance Program team, but the extent of contamination or presence of hazardous waste constituents was not determined.

The debris encountered on February 14, 2020, was placed into three 55-gal. drums. The debris consisted of a single crucible (5 in. × 8 in.) in one drum, soil (9 lb) in a second drum, and metal debris (150 lb) in a third drum. The three drums were transported to TA-21 on February 21, 2020, and compliantly stored until characterization and final disposition could be determined. The drums were transported as mixed low-level waste to Waste Control Specialists (WCS) in Andrews, Texas, on April 28, 2020.

The initial response to NMED on March 9, 2020, included results of isotopic analyses of the debris and summarized initial management of the materials removed from the site. The area where the debris was encountered is within tract A-16-and is west of the boundary of former MDA B and east of the boundary of tract A-8-b.

Four test pits were excavated in the southwest area of tract A-16-a before new sewer lines and a new sanitary lift station were installed. The test pit locations were selected where new sewer pipes would be connecting to tank in pits. On May 18, 2020, debris that consisted primarily of wood was found in a thin layer at 6 to 8 ft bgs in pit 2. Radiological surveys detected residual radioactivity on the debris. The second discovery at tract A-16-a was approximately 80 ft south of the first discovery at the original sewer line trench. Triad collected samples during excavation and submitted the samples to the Health Physics Analytical Laboratories at LANL for radiological analysis. Samples consisted of metal fragments, glassware, and soil collected around the debris. Results indicated plutonium-239, uranium-235, and uranium-238 were above background values at this location. Both the original trench and test pit debris locations are situated west and southwest of former MDA B. Noncontaminated debris was encountered at pit 1, and no debris or contaminated media was encountered during excavation activities at pit 3 and pit 4. Figure G-2.1-2 shows the locations of test pits and trenches at the MDPR site.

Geophysical surveys were conducted within the MDPR site boundary at tract A-16-a to identify potential locations of buried debris or former waste disposal areas. A backhoe was used to excavate trenches or test pits at five locations where three anomalies were identified by the geophysical surveys at tract A-16-a. If contaminated debris or laboratory type debris was encountered, the excavation area was expanded to define the extent of the debris. The debris was removed, containerized, and sampled, and confirmation samples were collected at depth intervals of 0–1 ft and 3–4 ft below the bottom of the excavation. Confirmation samples were also collected at step-out locations surrounding the excavation area from depth intervals of 0–1 ft, 4–5 ft, and 7–8 ft bgs and at the soil/tuff interface. The step-out distance and locations of the confirmation samples collected in the bottom of and surrounding the excavation were determined after the excavation was completed. Confirmation sampling results were used to define the lateral and vertical extent of potential contamination associated with the debris. If no

debris was encountered, the excavation or test pit was backfilled, and samples were not collected. Details of the type of geophysical surveys performed at the MDPR site are described in Appendix C of the MDPR WP R1 (N3B 2021, 701344). The results from the geophysical surveys were provided to NMED on January 14, 2021 (DOE 2021, 701189).

Potholing was conducted at 53 locations at the MDPR site based on a triangular grid spacing of approximately 35 ft to determine if debris or waste disposal areas are present within the western portion of tract A-16-a. The grid spacing was based on a 100% probability of locating a 40-ft × 80-ft waste pit, as referenced by Tribby (1945, 033817). This grid spacing also provided a 95% probability of locating a waste pit within an approximate 1000-ft^2 area (17.5-ft radius). The potholes were excavated down to the top of native tuff at each location. If contaminated debris was encountered, the excavation area was expanded to define the extent of the debris. The debris was removed, containerized, and sampled, and confirmation samples were collected at depth intervals of 0–1 ft and 3–4 ft below the bottom of the excavation. Confirmation sampling was also conducted at step-out locations surrounding the excavation, from depth intervals of 0–1 ft, 4–5 ft, and 7–8 ft bgs and at the soil/tuff interface. The step-out distance and locations of confirmation samples collected in the bottom of and surrounding the excavation were determined after the excavation was completed. Confirmation sampling results were used to define the lateral and vertical extent of potential contamination associated with the debris. If noncontaminated debris was encountered, an evaluation was conducted to determine if the debris had characteristics of 1944-era Laboratory materials (e.g., beakers, glass fragments, crucibles, and gloves). If noncontaminated debris was determined to be Laboratory derived, it was removed, containerized, sampled, and managed as waste. If noncontaminated debris was determined to be composed of construction materials (e.g., concrete footings, fence-post fittings, and metal pieces), it was returned to the pothole excavation. If no debris was encountered, the pothole was backfilled, and samples were not collected.

G-2.4 Tract A-8-a

Tract A-8-a is an approximately 22-acre parcel located on DP Mesa between the eastern edge of the Los Alamos townsite and the west end of TA-21. Tract A-8 was originally one parcel but was divided into tracts A-8-a and A-8-b in 2005. Tract A-8-a is adjacent to tract A-8-b to the east and north, and tract A-16-a to the east and includes the finger mesa between BV and Los Alamos Canyons. The area of the MDPR site within tract A-8-a is approximately 1.3 acres.

On June 22 and June 24, 2020, contaminated debris was encountered at 8 ft bgs during excavation for the new sanitary lift station within the southeast portion of tract A-8-a. The excavated area was located on tract A-8-a, south of the border with tract A-16-a and south of the previous locations where contaminated debris was encountered. The material encountered on June 22 and June 24, 2020, contained processed oxidized uranium-234 and uranium-238 and was removed and containerized. Geophysical surveys were conducted within the MDPR site boundary at tract A-8-a to identify potential locations of buried debris or former waste disposal areas. A backhoe was used to excavate trenches or test pits at two locations where two anomalies were identified by the geophysical surveys at tract A-8-a. If contaminated debris was encountered, the excavation area was expanded to define the extent of the debris. The debris was removed, containerized, and sampled, and confirmation samples were collected at depth intervals of 0–1 ft and 3–4 ft below the bottom of the excavation. Confirmation sampling was also conducted at step-out locations surrounding the excavation area, from depth intervals of 0–1 ft, 4–5 ft, and 7–8 ft bgs and at the soil/tuff interface. The step-out distance and locations of confirmation samples collected in the bottom of and surrounding the excavation were determined after the excavation was completed. Confirmation sampling results were used to define the lateral and vertical extent of potential contamination associated with the debris. If no debris was encountered, the excavation or test pit was backfilled, and samples were not collected. Details of the type of geophysical surveys performed at the MDPR site are described in

Appendix C of the MDPR WP R1 (N3B 2021, 701344). The results from the geophysical surveys were provided to NMED on January 14, 2021 (DOE 2021, 701189).

Potholing was conducted at 53 locations, based on a triangular grid spacing of approximately 35 ft to determine if debris or waste disposal areas are present with tract A-8-a. The grid spacing was based on a 100% probability of locating a 40-ft × 80-ft waste pit, as referenced by Tribby (1945, 033817). This grid spacing also provides a 95% probability of locating a waste pit within an approximate 1000-ft^2 area (17.5-ft radius). The potholes were excavated down to the top of native tuff at each location. If contaminated debris was encountered, the excavation area was expanded to define the extent of the debris. The debris was removed, containerized, and characterized, and confirmation samples were collected at depth intervals of 0–1 ft and 3–4 ft below the bottom of the excavation. Confirmation sampling was also conducted at step-out locations surrounding the excavation, from depth intervals of 0–1 ft, 4–5 ft, and 7–8 ft bgs and at the soil/tuff interface. The step-out distance and locations of confirmation samples collected in the bottom of and surrounding the excavation were determined after the excavation was completed. Confirmation sampling results were used to define the lateral and vertical extent of potential contamination associated with the debris. If noncontaminated debris was encountered, an evaluation was conducted to determine if the debris had characteristics of 1944-era Laboratory materials (e.g., beakers, glass fragments, crucibles, and gloves). If noncontaminated debris was determined to be Laboratory derived, it was removed, containerized, sampled, and managed as waste. If noncontaminated debris was determined to be composed of construction materials (e.g., concrete footings, fence-post fittings, and metal pieces), it was returned to the pothole excavation. If no debris was encountered, the pothole was backfilled, and samples were not collected.

G-2.5 Survey Activities

All fieldwork was conducted in accordance with the approved MDPR WP R1, supplemented by the ESWP. Summaries of the field investigation methods are provided below, and a complete description of field methods can be found in the approved MDPR WP R1.

G-2.5.1 Sampling Locations

Proposed sampling locations were identified based on a review of existing sampling data. Validated analytical data were evaluated and additional sample locations identified to investigate extent of contamination.

Sampling was also conducted at areas where Triad staged spoils piles from the original test pits excavated at the MDPR site and beneath any new excavation resulting from the extent sampling.to support the DOE Order 458.1 compliance evaluation. A total of 33 samples were collected to investigate the Triad spoils piles. For each location, a 3-point composite sample was collected no more than 1 ft from the planned sampling location, preferably in a triangular pattern. Depth intervals for all samples were from 0 to 0.5 ft bgs. Any excess material generated from sampling was containerized in a waste container of sufficient capacity to hold all the anticipated sample material and managed as “Mixed Low-Level Waste – Pending analysis” until formal waste determinations were made. Excess sample media was characterized once the sampling was complete or within 10 days of the initial waste generation, whichever came first. The material was analyzed per the MDPR site waste characterization strategy form (WCSF) (N3B 2022, 702216) for waste stream #3, environmental media.

Confirmation soil samples were collected at pre-selected locations at the bottom elevation of each excavation area using the backhoe bucket to demonstrate compliance with DOE Order 458.1.

G-2.5.2 Geodetic Surveys

Geodetic surveys were conducted to locate and to document field activities such as sampling and excavation locations. The surveyors used a Trimble GeoXT handheld global positioning system or equivalent for the surveys. The coordinate values were expressed in the New Mexico State Plane Coordinate System (transverse Mercator), Central Zone, North American Datum 1983. Elevations were reported per the National Geodetic Vertical Datum of 1929. All sampling locations were surveyed as described above.

G-2.5.3 Field Screening

Field screening was conducted for health and safety purposes. However, if elevated field-screening levels were observed for the deepest sample collected from a specific sampling location, sample collection continued until field-screening results showed no elevated readings. The field-screening approach included (1) visual examination of samples for evidence of contamination and (2) screening for gross-alpha, -beta, and -gamma radioactivity. Field team members conducted screening for volatile organic compounds (VOCs) using a photoionization detector.

An RCT conducted radiological field screening during fieldwork activities. Radiological screening was performed using calibrated, portable instrumentation in accordance with N3B radiation protection instrument procedures. RCTs recorded local environmental background levels of gross-alpha, -beta, and -gamma radioactivity at least once a day.

G-2.5.4 Sampling

Soil, fill, and tuff samples were collected by the most efficient and least invasive method practicable. The methods were determined by the field team based on site conditions, such as topography, the nature of the material to be sampled, the depth intervals required, and accessibility. Typically, samples were collected using spades and scoops, hand augers, or power-assisted augers. Samples for VOC analysis were immediately transferred from the sampling tool to the sample container to minimize the loss of subsurface VOCs during the sample collection process. Containers for VOC samples were filled as completely as possible, leaving no or minimal headspace, and sealed with a Teflon-lined cap.

Surface and shallow subsurface soil and sediment samples were collected in accordance with N3B-SOP-ER-2001, “Soil, Tuff, and Sediment Sampling.” Stainless-steel shovels, spades, scoops, and bowls were used for ease of decontamination. If the surface location was at bedrock, an axe or hammer and chisel may have been used to collect samples.

Subsurface samples were collected using hand and/or hand-operated power-assisted auger methods, depending on the depth of the samples and the material being sampled.

Hand augers or power-assisted augers were used to advance shallow boreholes at locations that can be sampled without the use of a drill rig. The hand auger was advanced by turning the auger into the soil or tuff until the barrel was full. The auger was removed and the sample placed in a stainless-steel bowl. A power-assisted auger was sometimes used to advance the borehole down to an elevation just above the identified sampling depths, and then a hand auger was used to obtain the samples. Hand-auger samples were collected in accordance with N3B-ER-SOP-2001, “Soil, Tuff, and Sediment Sampling.”

G-2.5.5 Excavation, Potholing, and Trenching

Excavation, potholing, and trenching activities were completed using a backhoe at selected sites. Excavated soil was staged a minimum of 3 ft from the edge of the excavation. Excavations deeper than 4 ft bgs were properly benched to allow access and egress, when necessary. The potholes were excavated down to the top of native tuff at each location. If debris was encountered, it was screened to determine if radioactive contamination was present. If the debris was contaminated, the excavation area was expanded to define the extent of the debris. The debris was removed, containerized, and sampled, and confirmation samples collected below the bottom of the excavation. If noncontaminated debris was encountered during potholing, an evaluation was conducted to determine if the debris had characteristics of 1944-era Laboratory materials (e.g., beakers, glass fragments, crucibles, and gloves). Noncontaminated debris determined to be Laboratory derived was removed, containerized, sampled, and managed as waste. Noncontaminated debris determined to be composed of construction materials (e.g., concrete footings, fence-post fittings, and metal pieces) was returned to the pothole or excavation. Excavations and potholes where no debris was encountered were backfilled and no samples were collected.

G-2.5.6 Sample Chain of Custody

The collection, screening, and transport of samples was documented on standard forms generated by the Sample Management Office (SMO). These forms included sample collection logs (SCLs), chain-of-custody forms, and sample container labels. SCLs were completed at the time of sample collection and signed at the time of relinquishment and receipt by the sampler and a reviewer who verified the logs for completeness and accuracy. Corresponding labels were initialed and applied to each sample container and custody seals placed around container lids or openings. Chain-of-custody forms were completed and signed to verify samples were not left unattended.

Based on the potential for elevated radioactivity in samples, an enhanced aliquot screening procedure was used to identify sample transportation requirements. This procedure was implemented through a standing order and included the following steps:

1. Follow applicable N3B sampling procedures.
2. Collect time-sensitive samples such as explosive compound, VOC, and semivolatile organic compound (SVOC) samples as necessary per N3B sampling procedures.
3. Homogenize the core at depth of sampling for enhanced radiological screening purposes.
4. Determine the daily site-specific background count value.
5. Pour the sample material onto a large aluminum pan (e.g., large baker’s pan).
6. Spread material as thinly as possible (i.e., 0.5 in. thick or less).
7. Perform radiological scanning of media at 1 in./sec, 0.25 in. away from media, pausing if there is an increase in audible count rate to locate the highest scan activity.
8. Perform three 1-min scaler alpha/beta counts at the highest scan location.
9. Average the three 1-min scaler counts.
10. Compare the average of the three 1-min scaler counts to the site-specific background count value.

11. If the average of the three 1-min scaler counts is less than 2 times the site-specific background count, then the full-suite analysis sample can be collected and transported to the SMO per applicable N3B sampling procedures.
12. If the average of the three 1-min scaler counts is 2 times or greater than the site-specific background count but less than 39 disintegrations per minute (dpm) net alpha, the full-suite sample volume will be limited per N3B-SOP-SDM-1102, "Sample Receiving and Shipping by the N3B Sample Management Office," and N3B-Form-6363, "Shipping Classification Determination Checklist." If the screening net alpha is 39 dpm or greater, the sample will be shipped by N3B Waste Management.

G-2.5.7 Quality Control Samples

Quality control samples included field duplicate, equipment rinsate, and field trip blank samples. These samples were collected in accordance with N3B-SOP-SDM-1100, "Sample Containers, Preservation, and Field Quality Control." Field duplicate, rinsate, and trip blank samples were collected at an overall frequency of at least 1 for every 10 regular samples as specified in Appendix F, Section I.B.4.f, of the Consent Order.

G-2.5.8 Laboratory Analyses

Analytical suites for samples included target analyte list (TAL) metals, nitrate, perchlorate, total cyanide, pH, VOCs, SVOCs, polychlorinated biphenyls (PCBs), explosive compounds, dioxins and furans, americium-241, gamma-emitting radionuclides, isotopic plutonium, isotopic uranium, strontium-90, and tritium. Sample collection and analysis was coordinated with the SMO.

Laboratory analytical data were validated as outlined in N3B-PLN-SDM-1000, "Sample and Data Management Plan"; N3B-AP-SDM-3000, "General Guidelines for Data Validation"; N3B-AP-SDM-3014, "Examination and Verification of Analytical Laboratory Data"; and additional method-specific analytical data validation guidelines. All procedures were developed, where applicable, from the U.S. Environmental Protection Agency (EPA) QA/G-8 guidance on environmental data verification and data validation (EPA 2002, 702975), Department of Defense/DOE "Consolidated Quality Systems Manual for Environmental Laboratories" (DoD and DOE 2019, 702976), and the EPA national functional guidelines for data review (https://www.epa.gov/clp/superfund-clp-national-functional-guidelines-data-review). N3B-PLN-SDM-1000, "Sample and Data Management Plan," sets the validation frequency criteria at 100% examination/verification of data and a minimum 10% full validation of data. 100% of the data collected at the MDPR site underwent examination/verification and 25% of the data underwent full validation.

G-2.5.9 Equipment Decontamination

Equipment for drilling and sampling was decontaminated before and after sampling activities to minimize the potential for cross-contamination. Dry decontamination methods were used to avoid the generation of liquid waste and to minimize waste generation. Dry decontamination used disposable paper towels and over-the-counter cleaner, such as Fantastik or equivalent. All sampling and measuring equipment was decontaminated in accordance with N3B-SOP-ER-2002, "Field Decontamination of Equipment."

G-2.5.10 Waste Management

Wastes generated by the proposed investigation and remediation activities included, but not limited to, drill cuttings, contact waste such as personal protective equipment, excavated media and structural debris, decontamination fluids, and all other waste that potentially contacted contaminants.

All wastes generated during field investigation and remediation activities was managed in accordance with N3B-EP-DIR-SOP-10021, "Characterization and Management of Environmental Programs Waste," applicable EPA and NMED regulations, and DOE orders. The waste management plan was provided as Appendix B to the MDPR WP R1.

G-2.5.11 Removal Activities

Debris or other excavated material was stockpiled next to the excavation. Potentially contaminated soil was excavated, characterized, packaged, and disposed of at an appropriate waste disposal facility. After the debris was removed, confirmation samples were collected from the base of the excavation area. Samples were collected from two depths (0–1 ft and 3–4 ft). Confirmation sampling was also conducted at step-out locations surrounding the excavation, from depth intervals of 0–1 ft, 4–5 ft, and 7–8 ft bgs and at the soil/tuff interface. The step-out distance and locations of confirmation samples to be collected in the bottom of and surrounding the excavation were determined after the excavation was completed. Confirmation sampling results were used to define the lateral and vertical extent of potential contamination associated with the debris. All samples were analyzed for TAL metals, nitrate, perchlorate, total cyanide, pH, VOCs, SVOCs, americium-241, gamma-emitting radionuclides, isotopic plutonium, isotopic uranium, strontium-90, and tritium. Additionally, 20% of the samples were analyzed for PCBs, explosive compounds, and dioxins and furans. After completion of confirmatory sampling, the excavations and/or trenches were backfilled with clean fill material. Excavated material determined to be suitable for reuse (i.e., is not hazardous waste and meets residential soil screening levels [SSLs] and SALs) was used to backfill the excavations.

G-3.0 CRD REQUIREMENTS

The CRD requirements are provided as Attachment 1 to DOE Order 458.1. The CRD requirements are also provided as Attachment 1 to the N3B Environmental Radiation Protection Program (N3B-AP-ENV-6000).

G-3.1 Public Dose Limits and ALARA

Radiological activities must be conducted so that exposure to members of the public to ionizing radiation do not exceed the public dose limits and comply with the ALARA requirements.

The public dose limit is set at 100 mrem/yr total effective dose (TED), 1500 millirem per year (mrem/yr) equivalent dose to the lens of the eye, and 5000 mrem/yr equivalent dose to skin and extremities. If the TED is less than 25 mrem/yr the equivalent dose to the eye, skin, and extremities does not need to be evaluated separately. In addition, radiological activities must be conducted in a manner such that radiation exposure to members of the public from management and storage of radioactive waste complies with ALARA process requirements and does not result in a TED greater than 25 mrem/yr from all exposure pathways and radiation sources associated with the waste, except for transportation and radon and its decay products.

An ALARA process must be implemented to optimize control and management of radiological activities so that doses to members of the public (both individual and collective) and releases to the environment are kept ALARA. The N3B Environmental ALARA Program is described in N3B-AP-ENV-6001.

N3B-AP-ENV-6001, "Environmental Radiation Protection," provides the steps necessary to

- be apprised of planned site activities with the potential for environmental radiological impacts through various notification processes,;
- review radiological impacts of current activities through established environmental monitoring programs;
- assist environmental remediation projects with ALARA analyses for the establishment of remediation goals;
- assist Triad with ALARA analyses for the conveyance and transfer of land tracts (real property) outside the control of DOE;
- perform qualitative ALARA screening analyses to determine if quantitative ALARA analyses are required; and
- perform quantitative ALARA analyses on planned and/or current activities with radiological impacts that warrant such review.

G-3.2 Demonstrating Compliance with the Public Dose Limit

Dose evaluations to demonstrate compliance with the whole-body public dose limit must include the TED to members of the public from exposure to radiation, airborne effluents, and liquid effluents of N3B origin. Compliance may be demonstrated by calculating dose to the representative person or to the maximally exposed individual (MEI). Determination of the representative person or the MEI must include members of the public both on N3B property outside of controlled areas and off N3B property.

If it is suspected that estimated TED for members of the public exceeds 25 mrem/yr, then dose to the lens of the eye, skin, and extremities must be evaluated. If the N3B-related dose is greater than 25 mrem/yr, the dose evaluation to members of the public must include both major non-N3B (non-DOE) sources of exposure (excluding dose from radon and its decay products in air, background radiation dose, occupational doses, and doses due to medical exposures) and dose from N3B-related sources.

Dose evaluations to demonstrate compliance with the 100 mrem/yr whole body public dose limit must include the estimated individual dose to the MEI or person that is representative of the persons or group likely to receive the most dose and is based on pathway and exposure parameters that are not likely to underestimate or substantially overestimate the dose, and the collective dose (population dose) that is a realistic as practicable estimate of the sum of the doses to all members of the actual exposed population.

Dose evaluations to demonstrate compliance with the 100 mrem/yr whole-body public dose limit and to assess collective dose must include the following models that consider likely exposure pathways, such as

- direct external radiation from sources located on-site;
- external radiation from airborne radioactive material;
- external radiation from radioactive material deposited on surfaces off-site;
- internal radiation from inhaled airborne radioactive material;
- internal radiation from radioactive material ingested with water, and with food from terrestrial crops or animals products (e.g., meat, eggs, and milk);
- internal radiation from radioactive material ingested with aquatic food products such as fish, shellfish, crustaceans (e.g., crayfish, shrimp, crab, and lobsters), and aquatic plants and algae;

- external or internal radiation due to residual radioactive material on, or in, cleared real property; and
- any other pathway unique to the Laboratory and its activities.

Collective dose for members of the public must be representative of the total dose and of adequate quality for supported comparisons, trending, or decisions. Consistent with the graded approach, collective dose estimates may be truncated by distance (e.g., 50 mi) or individual dose level (e.g., 10 microrem) when integration of doses beyond such thresholds does not significantly affect data quality objectives. Where it is of concern, collective dose for members of the public resulting from radon and its decay products released by N3B radiological activities needs to be calculated separately from other radionuclides.

Values of assumed default or site-specific parameters used in calculations must be identified and included with the documentation of the calculations. Direct measurements must be made, to the extent practicable, to obtain information characterizing source terms, exposures, exposure modes, and other information needed in evaluating dose. Models for dose evaluation calculations must be appropriate for their purpose. Dose evaluation models that are codified or approved for use by regulators of DOE or by DOE must be used where applicable. The EM-LA Field Office Manager must approve alternatives to such codified or approved dose evaluation models to be used for demonstrating compliance. DOE-approved dose coefficients must be used to evaluate doses resulting from N3B radiological activities. Use of alternative dose coefficients must be approved by DOE's chief health, safety, and security officer or by a cognizant secretarial officer in consultation with the chief health, safety, and security officer. Doses to members of the public from airborne effluents must be evaluated with the Clean Air Act Assessment Package-1988 (CAP-88) model or another EPA-approved model or method to demonstrate compliance with applicable subparts of 40 Code of Federal Regulations (CFR) 61, National Emission Standards for Hazardous Air Pollutants.

G-3.3 Monitoring

Environmental monitoring must be conducted by Triad to characterize routine and nonroutine releases of radioactive material from radiological activities, estimate the dispersal patterns in the environs, characterize the pathway(s) of exposure to members of the public, and estimate the doses to individuals and populations in the vicinity of the site or operation commensurate with the nature of the Laboratory's radiological activities and the risk to the public and the environment.

Environmental monitoring must include emissions/effluent monitoring and environmental surveillance.

Meteorological monitoring must be commensurate with the level of site radiological activities, site topographical characteristics, and distance to critical receptors. The scope of meteorological monitoring must be sufficient to characterize atmospheric dispersion and model the dose to members of the public over distances commensurate with the magnitude of potential source terms and possible pathways to the atmosphere.

Before the startup of a new facility or process with the potential to expose the public or environment to radiation or radioactive material, it is necessary to ensure that adequate knowledge exists to understand radiological background or baseline levels, pertinent environmental and ecological parameters, and potential pathways for human exposures or ecological/natural resource impacts either from existing data or documents (e.g., National Environmental Policy Act) evaluations or existing monitoring and surveillance programs, etc.) or from the conduct of a pre-operational study initiated at least 1 yr before startup of a new facility or process.

Site-specific environmental monitoring criteria must be established to ensure that representative measurements of quantities and concentrations of radiological contaminants are conducted and that the effects from N3B radiological activities on members of the public and the environment are monitored sufficiently to demonstrate compliance with the applicable requirements in the CRD of DOE Order 458.1. Appropriate monitoring criteria are found in DOE/EH-0173T, "Environmental Regulatory Guide for Radiological Effluent Monitoring and Environmental Surveillance."

G-3.4 Management of Radioactive Airborne Emissions

Radiological activities must be conducted in a manner such that the release of radioactive material to the atmosphere will be evaluated using the ALARA process, and not cause radon-222 flux rates to exceed 20 pCi (0.7 becquerel [Bq])/m^2-sec averaged over the surface overlaying waste, including the covering or other confinement structures, wherever radium-226 wastes are accepted for storage or disposal (see 40 CFR 61, National Emission Standards for Hazardous Air Pollutants, Subparts Q and T).

These activities must ensure prompt contact with N3B's Environment, Safety, Health and Quality (ESH&Q) Regulatory Compliance group to coordinate compliance with Triad regarding 40 CFR 61, Subparts H, Q, and T. The release of radioactive material to the atmosphere must not cause the radon-220 and radon-222 decay product concentration, including background, to exceed a 0.03 working level (WL) in buildings that are being released from N3B control. Further, a reasonable effort must be made to meet a 0.02-WL generic guideline for annual average radon-220 and radon-222 decay product concentrations, including background, in such buildings (the maximum and average WL limit requirements do not apply to the control of radon decay product concentrations [other than general technologically enhanced naturally occurring radioactive material requirements] in buildings and other structures on-site that may be occupied by workers and members of the public). The release of radioactive material to the atmosphere must not exceed 3 pCi/L annual average radon-220 and radon-222 concentrations, not including background, at the site boundary if N3B activities release radon-220 and radon-222 or their decay products.

To the extent required by 40 CFR 61, National Emission Standards for Hazardous Air Pollutants, DOE must not cause members of the public to receive, in a year, an effective dose equivalent greater than 10 mrem (0.1 millisieverts [mSv]) from radioactive materials released to the atmosphere as a consequence of routine DOE activities.

G-3.5 Management of Radioactive Liquid Effluents

Responsible line managers and facility operations directors discharging or releasing liquids containing radionuclides from N3B activities must characterize planned and unplanned releases of liquids containing radionuclides from N3B activities, consistent with the potential for on- and off-site impacts, and provide an assessment of radiological consequences as necessary to demonstrate compliance with the applicable requirements of the CRD in DOE Order 458.1; responsible line managers and facility operations directors must also comply with the ALARA process requirements.

Radiological activities must be conducted to ensure liquid releases containing radionuclides from N3B activities are managed in a manner that protects groundwater resources now and in the future, based on use and value considerations, and liquid discharges containing radionuclides from N3B activities do not exceed an annual average (at the point of discharge) of either of the following:

- 5 pCi (0.2 Bq)/g above background of settleable solids for alpha-emitting radionuclides or
- 50 pCi (2 Bq)/g above background of settleable solids for beta-gamma-emitting radionuclides.

Except for tritium, apply best available technology if at the point of discharge:

- the annual average concentration of a given radionuclide is greater than the DOE-approved derived concentration standard (DCS) value for water contained in DOE-STD-1196-2011, "Derived Concentration Technical Standard," or for multiple radionuclides, the composite DCS must be the sum of the fractional DCS values derived from DOE-approved DCS values;
- the discharge contributes greater than 10 mrem (0.1 mSv) annual TED to members of the public; or
- the collective dose from all LANL sources is greater than 100 person-rem (1 person-sievert), and the liquid discharge contributes 50% or more of this collective dose.

Releases of tritium must be controlled in a manner that has been established by application of the ALARA process.

Radiological activities must be conducted to ensure radionuclides from N3B activities contained in liquid effluents do not cause private or public drinking water systems to exceed the drinking water maximum contaminant levels in 40 CFR 141, National Primary Drinking Water Regulations, and ensure that radionuclides of N3B origin are not discharged into sanitary sewers. The discharge of Laboratory-originated radionuclides into sanitary sewers is prohibited. The use of soil columns is prohibited.

Responsible line managers and facility operations directors must manage the disposition of nonprocess water potentially containing radionuclides from N3B activities to protect soil and groundwater and prevent the creation of future cleanup sites and ensure that stormwater runoff containing radionuclides from N3B activities is considered, as appropriate, as a pathway of exposure that has the potential for on- and off-site impacts. Using a graded approach, the receiving ecosystem including, but not limited to, wetlands, floodplains, streams, ponds, basins, and lakes must be monitored to evaluate human or ecological impacts when warranted based on site-specific risk.

G-3.6 Management of Radioactive Waste

Radiological activities must be conducted in a manner such that radiation exposure to members of the public from management and storage of radioactive waste complies with ALARA process requirements and does not result in a TED greater than 25 mrem (0.25 mSv) in a year from all exposure pathways and radiation sources associated with the waste, except for transportation and radon and its decay products. Management of transuranic wastes at a disposal facility that is not regulated by the Nuclear Regulatory Commission must comply with the requirements of the CRD in DOE Order 458.1 and 40 CFR 191.

Management, storage, and disposal of low-level radioactive waste must be conducted in a manner such that exposure to members of the public to radiation from radioactive waste complies with ALARA process requirements and does not exceed a TED of 25 mrem (0.25 mSv) in a year from all exposure pathways and radiation sources associated with the waste, except for transportation and radon and its decay products.

Discrete sources of radium-226, accelerator-produced radioactive material, or naturally occurring radioactive material that pose a threat similar to discrete sources of radium-226, which are defined as Section 11e.(3) or 11e.(4) byproduct material in the Atomic Energy Act (AEA), must be managed as high-level waste, low-level waste or 11.e.(2) material as appropriate under DOE AEA authorities and in compliance with DOE Order 458.1.

Procedure N3B-P409-0, N3B Waste Management, provides general radioactive management requirements.

G-3.7 Protection of Groundwater

N3B must protect groundwater from radiological contamination to ensure compliance with public dose limits and ALARA process requirements. To that end, the N3B Environmental Remediation Groundwater Monitoring Program must ensure that baseline conditions of the groundwater quantity and quality are documented; possible sources of, and potential for, radiological contamination are identified and assessed; strategies to control radiological contamination are documented and implemented; monitoring methodologies are documented and implemented; and groundwater monitoring activities are integrated with other environmental monitoring activities.

G-3.8 Protection of Biota

N3B organizations that either conduct operations that could radiologically impact biota or have responsibilities for assessing biota dose must ensure radiological activities that have the potential to impact the environment are conducted in a manner that protects populations of aquatic animals, terrestrial plants, and terrestrial animals in local ecosystems from adverse effects due to radiation and radioactive material released from LANL operations.

When actions taken to protect humans from radiation and radioactive materials are not adequate to protect biota, then evaluations must be performed to demonstrate compliance with DOE Order 458.1 in one or more of the following ways:

- use of DOE-STD-1153-2002, “A Graded Approach for Evaluating Radiation Doses to Aquatic and Terrestrial Biota”;
- use of an alternative approach to demonstrate that the dose rates to representative biota populations do not exceed the dose rate criteria in DOE-STD-1153-2002, Table 2.2; and
- use of an ecological risk assessment to demonstrate that radiation and radioactive material released from LANL operations will not adversely affect populations within the ecosystem.

G-3.9 Release and Clearance of Items and Real Property

The following dose constraints for DOE residual radioactive material must be applied to each specific clearance of items and real property for any actual or likely future use of the items and real property:

- real property, a TED of 25 mrem (0.25 mSv) above background in any calendar year; and
- items, a TED of 1 mrem (0.01 mSv) above background in any calendar year.

Items and real property potentially containing residual radioactive material can be cleared from EM-LA control if one of the following is true:

- The items or real property contain no contamination (aka residual radioactive material) based on process and historical knowledge.
- The items or real property are evaluated and surveyed to determine the presence of internal contamination and surface contamination (including radioactive material on and under any coating). Alternatively, items or real property can be cleared if the results of the evaluation or survey show no detectable contamination or any detectable contamination that is less than the applicable authorized limits.

EM-LA has independent verification responsibilities prescribed by DOE Order 458.1 for both item and real property clearances, using a graded approach. Independent verification activities may range from no oversight or minimal paperwork reviews to independent surveys, sampling, and detailed report reviews.

All waste release, exclusive of waste known to be radioactive (e.g., low-level waste, radioactive liquid effluents), is considered item clearance and must meet the requirements for item clearance. Examples of waste that would be considered items requiring clearance include municipal waste, demolition debris, universal waste, asbestos waste, and hazardous waste.

G-3.9.1 Item Clearance

N3B-SOP-RP-0046, "Release of Items from Radiological Control," prescribes requirements for item clearance, requiring contamination surveys for items with a potential for contamination. The item may be released with documentation as prescribed by N3B-SOP-RP-0046, if the item qualifies for release without survey, if there is no detectable contamination, or if contamination does not exceed the applicable authorized limits. If there is contamination above the applicable authorized limits, or process knowledge indicates these values may be exceeded, the item may not be released without decontamination and resurvey to demonstrate the item does not exceed release limits. In cases where any item with detectable activity is to be released, an N3B Radiation Protection manager and the requestor must concur to ensure release limits have not been exceeded and sufficient measures to decontaminate the item, consistent with ALARA principles, have been applied. The following items may be released without survey based on process knowledge:

- Hand-carried personal items (e.g., notebooks, pagers, and flashlights) may be released without survey based on process knowledge only if all the following conditions are true (no documentation is required):
    - ❖ items have not come into contact with any potentially contaminated surfaces;
    - ❖ items have not entered a contamination area, high-contamination area, or airborne radioactivity area;
    - ❖ items have not left the direct possession of the individual; and
    - ❖ the individual is free from contamination as determined by a properly conducted whole-body survey.

Some items cannot be readily surveyed, but the requestor can establish that contamination is not a concern. In these very unusual cases, an exception to surveying can be granted, and justification and process knowledge must be rigorously documented by the requestor and approved by their responsible line manager and Radiation Protection management.

G-3.9.2 Real Property Clearance

Land and anything permanently attached to the land, such as buildings and building utilities (refer to real property definition in DOE Order 458.1), must be cleared in accordance with methodologies sufficient to meet measurement objectives such as those in EPA's MARSSIM (https://www.epa.gov/radiation/multi-agency-radiation-survey-and-site-investigation-manual-marssim) or other methodologies approved by DOE. The radon-220 and radon-222 decay product concentrations in buildings being released from N3B control must meet the limits for radon-220 and radon-222 inside buildings.

G-3.9.3 Institutional Controls

Real property under evaluation for clearance from N3B radiological controls must be evaluated against the need for maintaining institutional controls or the potential for affecting long-term stewardship of adjacent DOE real property. In situations where transfer of the real property to other use would affect long-term radiological protection of adjacent DOE properties, it must be demonstrated that the impact of the property clearance would not result in noncompliance for the adjacent property with the requirements of applicable statutes, regulations, or DOE directives.

G-3.9.4 Process and Historical Knowledge

If process and historical knowledge is used for item or real property clearance, the following evaluation process must be documented:

- Operational records and operating history must be included, including the use of any radioactive materials or radiation generating devices.
- For real property, address each specific property individually. If several parcels of land are contiguous, or if several structures are located in the same area and have a common operational history, a single evaluation for all of the properties is acceptable.
- If process knowledge cannot demonstrate that the items or real property are not contaminated, surveys must be conducted.
- If used as the sole basis for item or real property clearance, process knowledge must determine whether the item or real property was ever used for radiological activities or in areas that could have caused internal or external contamination, or whether previously contaminated items or real property were decontaminated, met release limits, and were protected from re-contamination.
- For items or real property determined to be potentially contaminated or re-contaminated, process knowledge must include the types and quantities of contamination and the sources and pathways by which the items or real property became contaminated.

G-3.9.5 Authorized Limits

Authorized limits (Table G-2.2-2) for the clearance of any items or real property with residual radioactive material must provide reasonable assurance that the public dose limits and ALARA requirements are met. Authorized limits may be applied to items or real property for which process knowledge cannot establish the absence of residual radioactive material and in which the presence of residual radioactive material cannot be determined.

Authorized limits must

- be based on the applicable dose constraint, supported by a complete exposure pathway analysis using appropriate methodologies, techniques, parameters and models (such as the RESRAD family of codes) that meet DOE quality assurance requirements under the CRD to DOE Order 414.1D, Quality Assurance;
- be expressed in terms of concentration of radioactivity per unit surface area (e.g., dpm/100 cm^2), radioactivity per unit mass (e.g., pCi/g) or volume (e.g., pCi/mL), total radioactivity, or N3B controls and restrictions, if applicable; and
- explicitly state any restrictions or conditions on future use of the items or real property necessary to ensure the basic dose limit and applicable dose constraint are not exceeded.

In addition, authorized limits for the clearance of items must

- be based on the expected annual quantity of items to be cleared or
- be based on expected total amount of items cleared over the life of the project for specific remedial action or decontamination and decommissioning projects and
- before clearance of metals, N3B must provide the necessary information to support a determination by the EM-LA Field Office Manager that there is no practical internal DOE opportunity for reuse or recycle of the material or equipment.

Authorized limits for the clearance of items and real property must be submitted to the EM-LA Field Office Manager to obtain DOE approval. The EM-LA Field Office Manager will coordinate with the NA-LA Field Office Manager to approve authorized limits for the unrestricted release of real property equivalent to a maximum dose to a member of the public of 25 mrem TED in a year. Approved authorized limits, including approved revised authorized limits, and supporting documentation must be made available to the public.

G-3.9.6 Radiological Surveys

All radiological surveys performed in support of clearance of items or real property must

- use methodologies sufficient to meet measurement objectives such as those in the MARSSIM, the "Multi-Agency Radiation Survey and Assessment of Materials and Equipment" manual, or other survey and release methodologies, including those under the auspices of a DOE-approved radiation protection program;
- meet measurement quality objectives;
- use DOE-approved sampling and analysis techniques, if applicable; and
- include an evaluation of nonuniformly distributed residual radioactive material, if applicable.

Instrumentation used for radiological surveys must be capable of detecting and quantifying residual radioactive material consistent with the applicable authorized limits and be

- periodically maintained and calibrated on an established frequency;
- appropriate for the type(s), levels, and energies of the radiation(s) encountered; and
- appropriate for existing environmental conditions and routinely tested for operability.

All item clearance surveys must be performed and documented by a qualified and authorized individual (N3B RCT using approved procedures and instruments) in LANL's Radiation Protection Services calibration program or under separate calibration and quality assurance requirements for off-site analysis of volumetric samples.

G-3.9.7 Final Clearance Documentation

Clearance of items must be documented. RCTs perform radiological surveys for item clearance and maintain associated survey documentation.

The contents of the documentation or the mechanism for documentation information may be tailored to the need, situation, and type of items being cleared. For ongoing, routine clearances, e.g., clearance of items from controlled areas, such documentation may be based on the general process(es) rather than

each specific clearance. In general, the documentation must describe the clearance process(es) and the items being cleared.

The documentation must serve to demonstrate requirements have been met, show criteria used for clearance; identify the items; destination or disposition, as appropriate; and provide additional confidence to DOE and assurance to other interested parties that the public and the environment are being protected. The documentation must indicate any authorized limits, including any revised or preapproved authorized limits, used for the clearance and include information and data supporting the clearance of items such as radiological certification and independent verification results.

N3B ESH&Q submits an annual summary of cleared items to the EM-LA Field Office Manager via the annual site environmental report.

G-3.10 Records, Retention, and Reporting Requirements

Required records include the following:

- Information and data necessary to identify and characterize releases of radioactive material to the environment, their fate in the environment, their probable impact on radiation dose to members of the public, and any impacts on ecological systems.
- Documentation of individual and collective dose to members of the public due to radiological activities. This includes documentation of site-specific information on radiation source dispersion patterns, location and demography of members of the public in the vicinity of the radiological activity, and assumed default values or site-specific parameters used in calculations.
- Requests for specific authorization for temporary public dose limits and subsequent approvals and other related actions.
- Identification of radiological activities subject to environmental radiological protection program requirements and descriptions of the measures to be used in implementing these requirements.
- Documentation of actions taken to implement the ALARA process.
- Documentation of actions taken to demonstrate compliance with the public dose limit.
- Documentation of actions taken to implement the best available technology selection process in regulating liquid discharges, including documentation of analyses and factors considered to be important, including alternative processes, for the best available technology selection process.
- Emissions/effluent monitoring and environmental surveillance information and data, including
    - ❖ results of emissions/effluent monitoring for determining sources of radiation and radioactive material that provide direct exposure to members of the public and releases of radioactive material in liquid effluent or airborne emissions;
    - ❖ results of surveys for radiation and radioactive material in the environment;
    - ❖ results of surveys, measurements, and calculations used to determine the dose to members of the public and ecological receptors from external and internal radiation sources;
    - ❖ meteorological data used in assessing dose; and
    - ❖ results of pre-operational monitoring.

- Documentation related to the long-term management of radioactive waste and residual radioactive material.
- Final documentation for clearance of items and real property containing residual radioactive material.
- Documentation of approved authorized limits for routine clearance of items and real property for unrestricted or restricted use and the scenarios evaluated in selecting the limits.
- Annual summaries related to clearance of items and real property.

Records required by DOE Order 458.1 must be maintained by, or transferred to, DOE upon cessation of a DOE radiological activity at N3B. Records must be retained until DOE authorizes final disposition.

G-4.0 DOCUMENT REVIEW

The following documents were reviewed to evaluate compliance with the CRD of DOE Order 458.1:

- N3B-AP-ENV-6000, R0, "Environmental Radiation Protection"
- "Solid Waste Management Unit Assessment Work Plan for Middle DP Road Site, Revision 1" (N3B 2021, 701344)
- "Extent Sampling Work Plan for the Middle DP Road Site, Revision 16" (BGI 2023, 702948)
- "Inorganic and Radionuclide Background Data for Soils, Canyon Sediments, and Bandelier Tuff at Los Alamos National Laboratory" (LANL 1998, 059730)
- "Derivation and Use of Radionuclide Screening Action Levels, Revision 4" (LANL 2015, 600929)

G-4.1 Public Dose Limits and ALARA

The applicable public dose limit was identified as 25 mrem TED in a year to the MEI. Compliance with this dose limit (as summarized in section 4.2 of the main text) meets the requirements of DOE Order 458.1.

An ALARA program was developed and approved by EM-LA and is described in N3B-AP-ENV-6001, "Environmental Protection." The ALARA program and activities at the MDPR site meet the requirements of DOE Order 458.1. All sources of radiation exceeding SALs were removed from the MDPR site. Dose estimates were based on a limited number of radionuclide detections from samples collected from distributed locations and depths. With no additional radiation sources available for removal, there is no reasonable potential for further reduction in public dose, and the calculated dose estimates are ALARA.

G-4.2 Demonstrating Compliance with the Public Dose Limit

Dose estimates were calculated by comparing EPCs to SALs using a sum of ratios calculation to include contributions to TED for all radionuclides at the MDPR site. Results of the dose calculations are provided in Appendix F and summarized in section 4.0 of the main text.

Radionuclide SALs (Table G-2.2-1) were used for comparison with radionuclide EPCs and were derived using the RESRAD model, Version 7.0 (LANL 2015, 600929). The SALs are based on a 25-mrem/yr dose and are equivalent to or more conservative than the authorization limits published in "Derivation of Authorized Limits for Land Transfer at Los Alamos National Laboratory" in 2016 (LANL 2016, 702936). The SALs were selected for use in this SAR because they are more protective than the 2016 authorization limits. Exposure parameters used to calculate the SALs are presented in Appendix F, and

development of the SALs is described in “Derivation and Use of Radionuclide Screening Action Levels” (LANL 2015, 600929). SALs were developed for residential, industrial, construction worker, and recreational exposure scenarios. The development of SALs corresponding to the public dose limit meets the requirements of DOE Order 458.1.

The EPCs represent upper-bound concentrations of radionuclides. For comparison with SALs, the 95% upper confidence limit (UCL) of the arithmetic mean was calculated when possible and used as the EPC. The UCLs of the mean concentrations were calculated using the EPA ProUCL 5.2.00 software (EPA 2022, 702275). The UCLs were calculated using all available decision-level data within the depth range of interest. For some analytes, if an appropriate UCL of the mean could not be calculated, or if the UCL exceeded the maximum concentration, the maximum detected concentration of the COPC was used as the EPC.

Negative concentrations are often reported for low-concentration radionuclide data due to the background subtraction process that is standard practice in laboratory analysis. Concentrations are not truly negative, rather, they are zero concentrations or concentrations so low that they are indistinguishable from laboratory blanks used to quantify background concentrations for background subtraction. ProUCL does not account for negative values and treats them as if they were reliably quantified data (i.e., the negative values are retained). For data sets where the proportion of negative values is high, ProUCL may recommend a negative UCL. A negative concentration is not a reasonable estimate for the EPC; therefore, the maximum concentration is typically substituted as a conservative and reasonable approach for small data sets. This SAR points out the MDPR data sets are robust and not well represented by the maximum concentration. Since negative concentration estimates are not truly negative, zero or some small value less than the detection limit can be substituted as the estimated concentration for the calculation of EPCs. The zero or substituted small value results in a slight overestimation of the TED, which ensures protectiveness. In the MDPR data sets, zero was substituted for all negative concentration estimates as the minimum non-negative quantified result for the analytes. The EPC calculations based on the zero-substitution process provide reasonable and protective estimates of upper bound concentrations for radionuclides. The EPC values calculated for use at the MDPR site are consistent with EPA guidance and are acceptable values for calculating dose estimates for compliance with DOE Order 458.1.

The ratio of the EPC for a radionuclide to the SAL for that radionuclide multiplied by 25 mrem provides the dose to a member of the public in a year for that radionuclide. The TED is calculated as the sum of the doses from individual radionuclides. Table G-4.2-1 (reproduced from Table F-4.2-36 in Appendix F) provides the EPC, SAL, and corresponding residential dose in a year for each radionuclide at the MDPR site and shows the TED for a representative member of the public.

Table G-4.2-2 (summarized from Tables F-4.2-27, F-4.2-30, F-4.2-33, and F-4.2-36) provides the TED for a member of the public for each of the four exposure scenarios evaluated.

G-4.3 Monitoring

Soil samples collected at the MDPR site included confirmation samples collected after removal of debris and extent samples collected to address data needs not met by the confirmation samples. Surface and subsurface soil samples were collected using techniques described in Table 5.0-1 of the EM-LA- and NMED-approved MDPR WP R1 (N3B 2021, 701344; NMED 2021, 701368).

Collection, screening, and transport of samples were documented on SCL forms generated by the SMO. Forms were completed at the time of sample collection, reviewed, and verified for completeness and accuracy. Sample custody was maintained throughout collection, screening, transport, and analysis of samples from the MDPR site. Copies of SCL forms are provided electronically as part of Appendix C.

Field duplicate, rinsate, and trip blank samples were collected at an overall frequency of 1 for every 10 regular samples. Field quality control samples were collected as described in N3B-SOP-SDM-1100, "Sample Containers, Preservation, and Field Quality Control." Soil samples were analyzed by an approved analytical laboratory using the methods specified in Table 5.9-1 of the approved MDPR WP R1 (N3B 2021, 701344; NMED 2021, 701368).

One hundred percent of the analytical data from the MDPR site was verified as described in N3B-AP-SDM-3014, "Examination and Verification of Analytical Laboratory Data." Twenty-five percent of the analytical data from the MDPR site were validated according to N3B-AP-SDM-3000, "General Guidelines for Data Validation," and N3B-PLN-SDM-1000, "Sample and Data Management Plan."

Soil sample data used to describe levels of residual radioactivity in soil were collected, screened, transported, analyzed, verified, and validated following approved procedures meeting the requirements of DOE Order 458.1.

G-4.4 Management of Radioactive Airborne Emissions

Radioactive airborne emissions at LANL are performed, monitored, and summarized in the annual site environmental report. The site air monitoring program includes five air monitoring stations around TA-21 and along Middle DP Road monitoring any potential airborne emissions related to the MDPR site. In 2022 the airborne con centration of plutonium-239 along Middle DP Road was less than 1% of EPA's level for environmental compliance, which is similar to the historical value for this location (LANL 2023, 702995, Chapter 4, Air Quality).

G-4.5 Management of Radioactive Liquid Effluents

In 2022 EPA issued a final National Pollutant Discharge Elimination System construction general permit (CGP) that covers discharges of stormwater from qualifying construction sites, including the MDPR site. A Stormwater Pollution Prevention Plan (SWPPP) was developed under the CGP for the Middle DP Road SWMU assessment project (N3B 2022, 703007).

N3B maintained operational control over construction plans and specifications and day-to-day activities necessary to maintain compliance with the 2022 CGP. N3B submitted all requisite documentation to EPA Region 6 for the proper implementation of the SWPPP. N3B performed and documented inspections and updated the SWPPP and site maps as necessary to maintain project compliance with the CGP and SWPPP.

Confirmation samples were collected following removal of contaminated soil stockpiles. Confirmation samples were also collected before restoration of the MDPR site excavations. These confirmation samples demonstrated that residual radioactivity in the soil exposed and impacted by SWMU assessment activities does not result in radiological exposures exceeding the public dose limit. The management of radioactive liquid effluents at the MDPR site meets the requirements of DOE Order 458.1.

G-4.6 Management of Radioactive Waste

All investigation-derived waste (IDW) generated during the SWMU assessment investigation was managed in accordance with the requirements of N3B P409-0, "N3B Waste Management." This policy incorporates all applicable EPA and NMED regulations, DOE orders, and Laboratory implementation requirements. IDW was also managed in accordance with the approved WCSF. Details of IDW management for the SWMU assessment investigation are presented in Appendix E. All waste generated at the MDPR site has been sent to WCS for disposal.

The final eight waste containers were removed from the MDPR site, two each on October 30, 2023; November 2, 2023; November 6, 2023; and November 9, 2023. The waste containers were sealed, surveyed, and readied for transport. The waste container was transported to WCS for disposal. All low-level radioactive waste generated at the MDPR site has been sent to WCS for disposal. WCS is a licensed radioactive waste disposal facility approved for disposal of wastes from LANL. Management and disposal of radioactive waste from the MDPR site meets the requirements of DOE Order 458.1.

G-4.7 Protection of Groundwater

The hydrogeologic conceptual site model for LANL shows that, under natural conditions, relatively small volumes of water move beneath mesa tops because of low rainfall, high evaporation, and efficient water use by vegetation. There is no alluvial groundwater in the MDPR site. Groundwater monitoring is performed in the regional aquifer and is discussed in the annual site environmental report (LANL 2023, 702995).

G-4.8 Protection of Biota

No unacceptable risk to ecological receptors was identified. Section 4.0 and Appendix F provide detailed discussions on the performance and conclusions of the ecological risk assessment. The ecological risk assessment meets the requirements of DOE Order 458.1.

G-4.9 Release and Clearance of Items and Real Property

G-4.9.1 Item Clearance

All sampling equipment was decontaminated immediately before each sample was collected to avoid outside contamination and cross-contamination between samples. Decontamination included cleaning the equipment with wire brushes, scrapers, Fantastik, and clean paper towels. To evaluate decontamination activities, field rinsate samples were collected in accordance with N3B-SOP-ER-2002, “Field Decontamination of Equipment,” and N3B-SOP-SDM-1100, “Sample Containers, Preservation, and Field Quality Control.”

Decontamination activities were performed on excavation and drilling equipment in accordance with N3B-SOP-ER-2002, “Field Decontamination of Equipment.” Residual material adhering to equipment was removed using dry decontamination methods such as the use of wire brushes and scrapers. All decontaminated equipment was surveyed by an RCT before it was released from the site. Additional decontamination and swipe sampling was conducted, if necessary, before equipment was removed from the site.

The clearance limits for unrestricted release of equipment correspond to a dose limit of 1 mrem/yr.

G-4.9.2 Real Property Clearance

The number and location of confirmatory soil samples collected at the MDPR site are consistent with the final status survey requirements in MARSSIM. The approved MDPR WP R1 and supplemental ESWP provided a survey design that meets the requirements of DOE Order 458.1. The number of confirmation samples collected at the MDPR site exceeded the minimum number of measurements required to support a decision regarding disposition of real property. The number of samples and the quality of the sample results meet the requirements of DOE Order 458.1.

G-4.9.3 Institutional Controls

The 2007 environmental baseline survey report concluded tract A-8-a poses no potential unacceptable risks to human health under the residential and industrial scenarios and to ecological receptors (Pope et al. 2007, 701151). The transfer of tract A-16-a included a recommendation of restricting the site to recreational use only.

The 2016 environmental baseline survey report concluded tract A-16-a poses no potential unacceptable risks to human health under the residential and industrial scenarios and to ecological receptors (LANL 2016, 701152). The transfer of tract A-16-a included a recommendation of restricting the site to recreational use only.

The estimated dose to members of the public is less than the public dose limit, and the dose estimate is considered ALARA. No institutional controls or restrictions are recommended for the MDPR site.

G-4.9.4 Process and Historical Knowledge

The use of process and historical knowledge to develop the MDPR WP R1 was reviewed and meets the requirements of DOE Order 458.1. The use of process and historical knowledge was supplemented with monitoring and confirmatory sampling to verify the process and historical knowledge and support decisions regarding clearance of items and real property from the MDPR site. The use of process and historical knowledge at the MDPR site complies with the requirements of DOE Order 458.1.

G-4.9.5 Authorized Limits

The authorized limits used to screen sample results and support decisions regarding extent of contamination were reviewed and comply with the requirements of DOE Order 458.1. The SALs for individual radionuclides were developed based on the public dose limit of 25 mrem/yr using the approved ALARA program. Values of SALs corresponding to a maximum dose of 15 mrem/yr to the MEI were also provided, as required by N3B's Environmental Radiation Protection Program. The final dose calculations were based on contributions from all radionuclides of concern present at concentrations exceeding background to verify the effectiveness of the use of SALs as authorized limits and screening levels for assessment of the MDPR site. The use of authorized limits at the MDPR site complies with the requirements of DOE Order 458.1.

G-4.9.6 Radiological Surveys

Radiological surveys were performed as part of the MDPR site SWMU assessment project. Radiological surveys were performed by trained RCTs using EM-LA-approved survey procedures and work plans.

G-4.9.7 Final Clearance Documentation

This SAR provides documentation of the work performed during the MDPR site SWMU assessment, summarizes the work performed, and supports the conclusion that the MDPR site demonstrates compliance with the requirements of DOE Order 458.1 for radiation protection of the public and the environment. Appendix B provides detailed information on field activities performed, Appendix E describes the waste management activities, and Appendix F provides information on chemical and radiological risk and dose evaluations. The information provided in this SAR meets the requirements of DOE Order 458.1.

G-4.10 Records, Retention, and Reporting Requirements

This SAR documents the work performed during the MDPR site SWMU assessment and provides the following:

- information and data necessary to identify and characterize residual radioactivity present in soil at the MDPR site, the estimated radiation dose to members of the public under multiple exposure scenarios, and any impacts on ecological systems;
- documentation of site-specific information on residual radioactivity and assumed default values or site-specific parameters used in dose calculations;
- results of surveys for radiation and radioactive material in the environment;
- results of surveys, measurements, and calculations used to determine the dose to members of the public and ecological receptors from external and internal radiation sources;
- documentation related to the long-term management of radioactive waste and residual radioactive material;
- final documentation for clearance of items containing residual radioactive material;
- final documentation for clearance of real property containing residual radioactive material; and
- documentation of actions taken to demonstrate compliance with the public dose limit.

LANL's annual site environmental report provides information regarding ongoing monitoring activities performed at LANL that could impact compliance with DOE Order 458.1. Examples of information provided in the annual site environmental report include the following:

- documentation of actions taken to implement the ALARA process,
- emissions/effluent monitoring and environmental surveillance information and data,
- results of emissions/effluent monitoring for determining sources of radiation and radioactive material that provide direct exposure to members of the public and releases of radioactive material in liquid effluent or airborne emissions,
- meteorological data used in assessing dose, and
- annual summaries related to clearance of items and real property.

The documentation of approved authorized limits for routine clearance of real property for unrestricted use and the scenarios evaluated in selecting the limits is provided in "Derivation and Use of Radionuclide Screening Action Levels" (LANL 2015, 600929).

5.0 CONCLUSIONS

Soil sampling and analysis of the samples for radionuclides demonstrated compliance with DOE Order 458.1. All soil radionuclide concentrations were found to be below the SALs for a residential scenario, and the resultant dose was determined to be ALARA. The projected dose to a member of the public living on the tract was estimated at 20 mrem/yr.

G-6.0 REFERENCES

The following reference list includes documents cited in this appendix. Parenthetical information following each reference provides the author(s), publication date, and ERID, ESHID, or EMID. ERIDs were assigned by the Laboratory's Associate Directorate for Environmental Management (IDs through 599999); ESHIDs were assigned by the Laboratory's Associate Directorate for Environment, Safety, and Health (IDs 600000 through 699999); and EMIDs are assigned by N3B (IDs 700000 and above).

BGI (Banda Group International), August 23, 2023. "Extent Sampling Work Plan for Middle DP Road Site, Revision 16," White Rock, New Mexico. (BGI 2023, 702948)

DoD and DOE (U.S. Department of Defense and Department of Energy), 2019. "Department of Defense (DoD), Department of Energy (DOE) Consolidated Quality Systems Manual (QSM) for Environmental Laboratories," DoD/DOE QSM 5.3, Washington, D.C. (DoD and DOE 2019, 702976)

DOE (U.S. Department of Energy), March 9, 2020. "Response to the February 28, 2020 New Mexico Environment Department Request for Information on the Potential Newly Discovered Solid Waste Management Unit or Area of Concern Los Alamos National Laboratory (EPA ID #NM0890010515 HWB-LANL-MISC-CO)," U.S. Department of Energy letter (MAI: 08PM-2020-001227) to K. Pierard (NMED-HWB) from T. Johnson (EM-LA) and M.J. Weis (NA-LA), Los Alamos, New Mexico. (DOE 2020, 700839)

DOE (U.S. Department of Energy), January 14, 2021. "Submittal of the Geophysical Letter Report, Revised Pothole Location Maps, and Independent Review Comments for the Middle DP Road Site Solid Waste Management Unit Assessment Work Plan," U.S. Department of Energy letter (EMLA-2021-0128-02-001) to K. Pierard (NMED-HWB) from A. Duran (EM-LA), Los Alamos, New Mexico. (DOE 2021, 701189)

Dow, D., July 5, 1945. "New Disposal Pit for CM Division," Los Alamos Scientific Laboratory memorandum to G.R. Tyler from D. Dow, Los Alamos, New Mexico. (Dow 1945, 006713)

EPA (U.S. Environmental Protection Agency), November 2002. "Guidance on Environmental Data Verification and Data Validation," EPA QA/G-8, Office of Environmental Information, Washington, D.C. (EPA 2002, 702975)

EPA (U.S. Environmental Protection Agency), June 2022. "ProUCL Version 5.2.0 User Guide," Statistical Software for Environmental Applications for Data Sets with and without Nondetect Observations, EPA/600/B-22/087, Office of Research and Development, Washington, D.C. (EPA 2022, 702275)

LANL (Los Alamos National Laboratory), September 2015. "Derivation and Use of Radionuclide Screening Action Levels, Revision 4," Los Alamos National Laboratory document LA-UR-15-24859, Los Alamos, New Mexico. (LANL 2015, 600929)

LANL (Los Alamos National Laboratory), September 2016. "Derivation of Authorized Limits for Land Transfer at Los Alamos National Laboratory," Los Alamos National Laboratory document LA-UR-16-27038, Los Alamos, New Mexico. (LANL 2016, 702936)

LANL (Los Alamos National Laboratory), September 2023. "2022 Annual Site Environmental Report," Los Alamos National Laboratory document LA-UR-23-29640, Los Alamos, New Mexico. (LANL 2023, 702995)

N3B (Newport News Nuclear BWXT-Los Alamos, LLC), December 2020. "Solid Waste Management Unit Assessment Work Plan for Middle DP Road Site," Newport News Nuclear BWXT-Los Alamos, LLC, document EM2020-0498, Los Alamos, New Mexico. (N3B 2020, 701169)

N3B (Newport News Nuclear BWXT-Los Alamos, LLC), March 2021. "Solid Waste Management Unit Assessment Work Plan for Middle DP Road Site, Revision 1," Newport News Nuclear BWXT-Los Alamos, LLC, document EM2021-0095, Los Alamos, New Mexico. (N3B 2021, 701344)

N3B (Newport News Nuclear BWXT-Los Alamos, LLC), July 25, 2022. "Waste Characterization Strategy Form (WCSF) for Middle DP Road, Revision 4," Newport News Nuclear BWXT-Los Alamos, LLC, document EM2022-0481, Los Alamos, New Mexico. (N3B 2022, 702216)

N3B (Newport News Nuclear BWXT-Los Alamos, LLC), April 11, 2022. "Storm Water Pollution Prevention Plan, Middle DP Road SWMU Assessment Project, Revision 2," Newport News Nuclear BWXT-Los Alamos, LLC, document, Los Alamos, New Mexico. (N3B 2022, 703007)

NMED (New Mexico Environment Department), February 28, 2020. "Request for Information, Potential Newly Discovered Solid Waste Management Unit or Area of Concern," New Mexico Environment Department letter to D. Hintze (EM-LA) and M. Weis (NA-LA) from K. Pierard (NMED-HWB), Santa Fe, New Mexico. (NMED 2020, 700783)

NMED (New Mexico Environment Department), April 7, 2020. "Potential Newly Discovered SWMU or AOC, Middle DP Road Site," New Mexico Environment Department letter to T. Johnson (EM-LA) and M. Weis (NA-LA) from K. Pierard (NMED-HWB), Santa Fe, New Mexico. (NMED 2020, 700838)

NMED (New Mexico Environment Department), April 5, 2021. "Approval, Solid Waste Manangement [sic] Unit Assessment Work Plan for Middle DP Road Site, Revision 1," New Mexico Environment Department letter to A. Duran (EM-LA) from K. Pierard (NMED-HWB), Santa Fe, New Mexico. (NMED 2021, 701368)

Pope, J., V. Smith, B. Swanton, and P.B. Schumann, January 9, 2007. "Environmental Baseline Survey for A-8-a Sub-parcel, DP Road-1 South Tract," Los Alamos National Laboratory document LA-UR-07-0136, Los Alamos, New Mexico. (Pope et al. 2007, 701151)

Tribby, J.F., April 18, 1945. "Report on Conditions at Contaminated Item Dump," Los Alamos Scientific Laboratory memorandum to W. Hinch from J.F. Tribby, Los Alamos, New Mexico. (Tribby 1945, 033817)

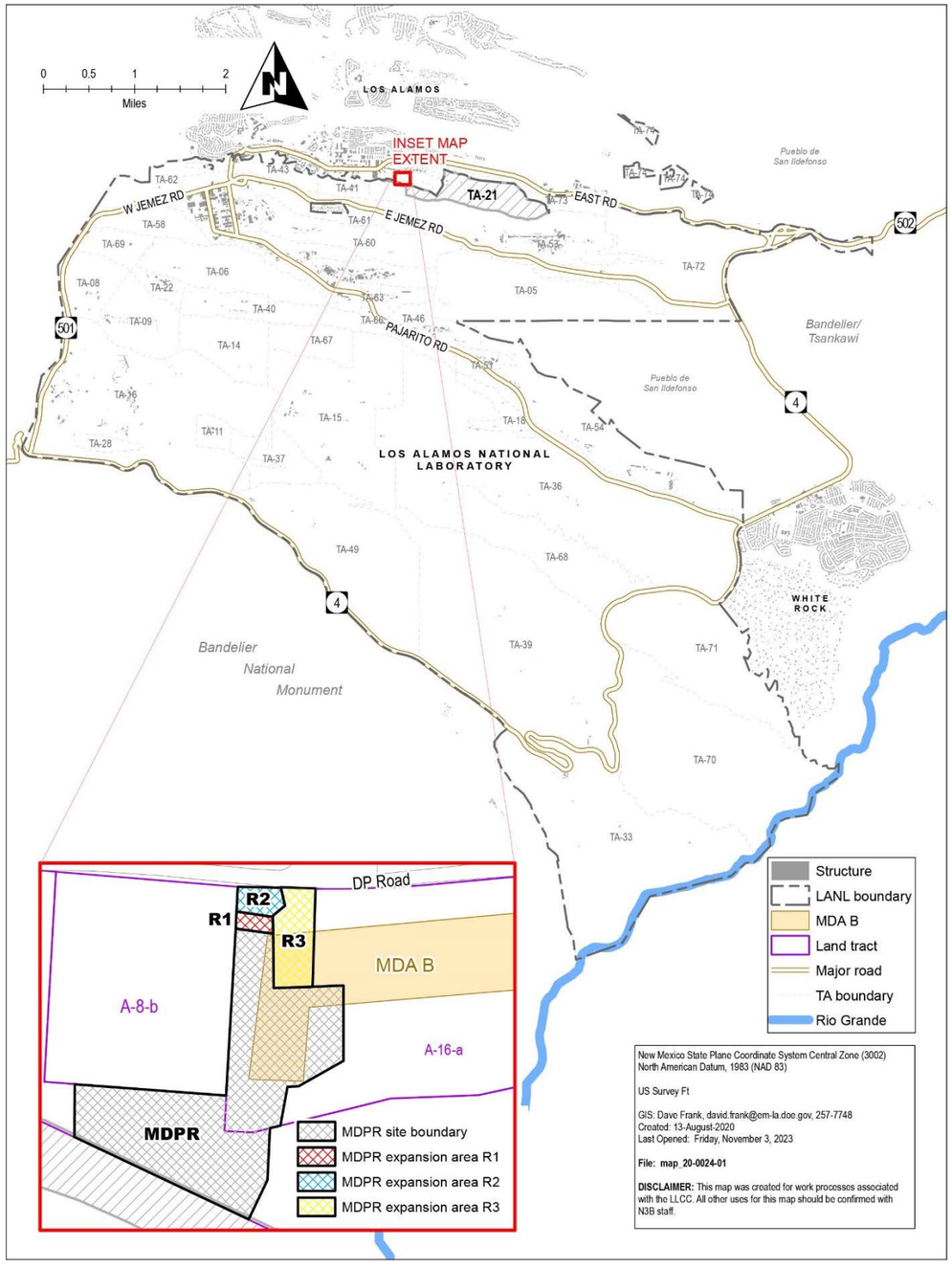


Figure G-2.1-1 Location of MDPR site with respect to surrounding landholdings

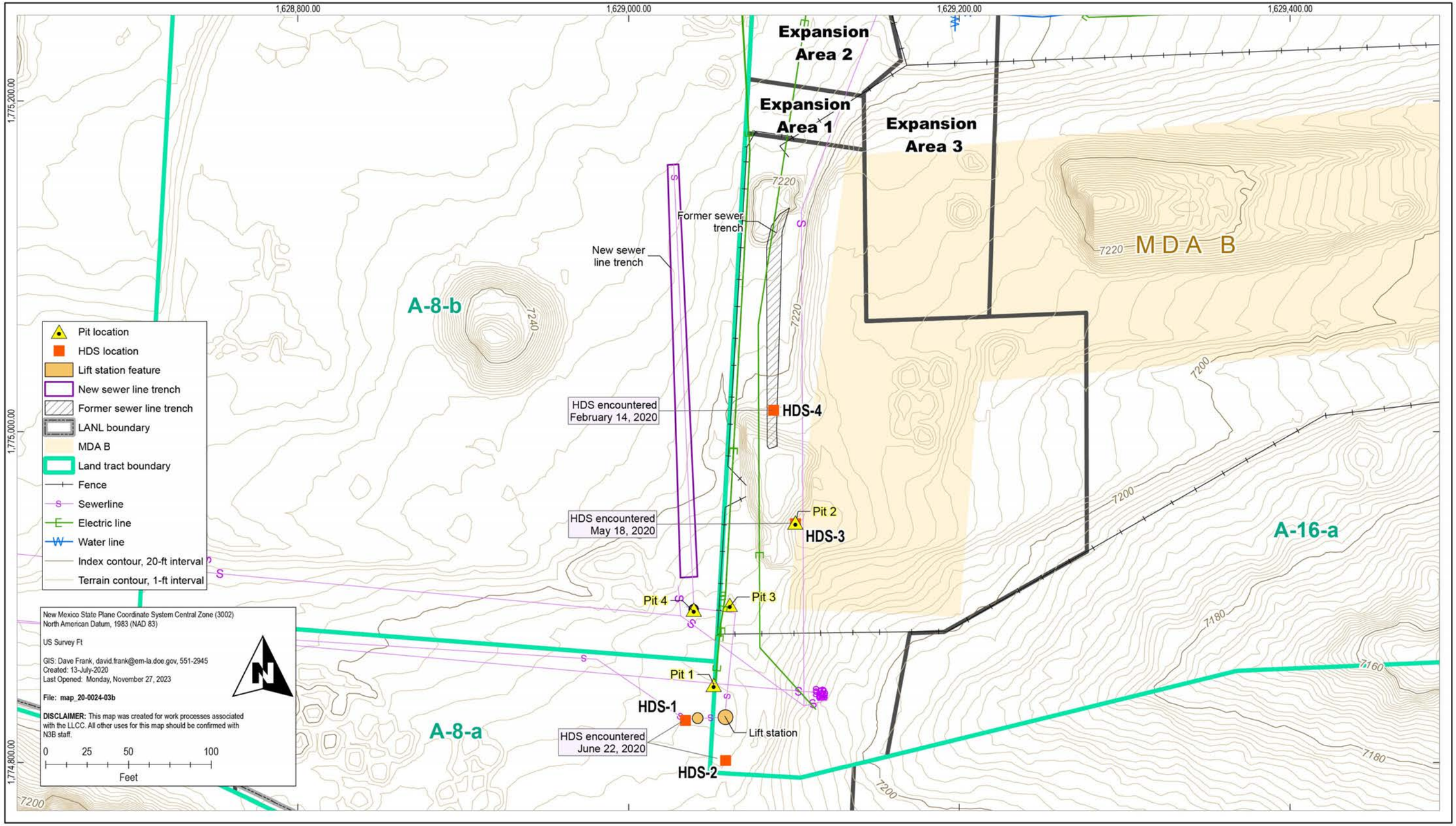


Figure G-2.1-2 Site features before excavation began at the MDPR site, including locations of the initial HDSs, former sewer line trench, and pits 1–4

Table G-2.2-1
Radionuclide SALs Based on 25 mrem/yr Using RESRAD Version 7.0

Radionuclide	Residential SAL (pCi/g)	Industrial SAL (pCi/g)	Construction Worker SAL (pCi/g)	Recreational SAL (pCi/g)	Time at which SAL Applies[a] (yr)
Americium-241	83	1000	230	1500	0.0
Cesium-134	5.0	17	15	150	0.0
Cesium-137+D[b]	12	41	37	370	0.0
Cobalt-60	2.6	9.0	8.1	81	0.0
Iodine-129	96	2300	710	2000	0.0
Plutonium-238	84	1300	230	1400	0.0
Plutonium-239/240[c]	79	1200	200	1300	0.0
Sodium-22	3.4	11	10	100	0.0
Strontium-90+D[b]	15	2400	1400	4900	0.0
Technetium-99	21	330,000	110,000	220,000	0.0
Thorium-228+D[b]	4.6	17	15	130	0.0
Thorium-230[d]	5	5	5	5[e]	Not applicable[f]
Thorium-232[d]	5	5	5	5[e]	Not applicable[f]
Tritium	1700	2,400,000	1,600,000	5,700,000	0.0
Uranium-234	290	3100	1000	3900	1000
Uranium-235+D[b]	42	160	130	1000	1000
Uranium-238+D[b]	150	710	470	2800	1000

Note: Values are from LANL (2015, 600929).

[a] Modeling period is 1000 yr. Soil criteria at other times within the modeling period are higher (less protective).

[b] Includes contribution to dose of radioactive progeny (plus daughters). Cesium-137 progeny is barium-137m; strontium-90 progeny is yttrium-90; thorium-228 progeny includes radium-224, radon-220, polonium-216, lead-212, bismuth-212, and thallium-208; uranium-235 progeny is thorium-231, and uranium-238 progeny includes thorium-234, protactinium-234m and protactinium-234.

[c] Plutonium-239 and plutonium-240 are typically unresolved in laboratory analysis. SALs for the two isotopes are identical.

[d] The SAL is the generic soil guideline for release of property published in Chapter 4 (“Residual Radioactive Material”) of DOE Order 458.1. For the concentration averaged over the first 15 cm of soil below the surface, 5 pCi/g applies; for subsequent 15-cm-thick layers, the generic soil guideline is 15 pCi/g. If both thorium-230 and radium-226 or both thorium-232 and radium-228 are present and not in secular equilibrium, or if other mixtures of radon-generating radionuclides occur, DOE Order 458.1 presents guidance for establishing soil criteria.

[e] The value of 5 pCi/g is protective of all possible recreational activities, including situations where enclosed structures may exist on the site to capture radon gas. In topographically constrained areas where structures are not feasible, such as hillsides or drainages, dose-based SALs may be employed as follows:

- Thorium-230: 114 pCi/g
- Thorium-232: 40.4 pCi/g

[f] The generic soil guideline of 5 pCi/g is not a calculated value.

Table G-2.2-2
Radionuclide Authorized Limits Calculated Using RESRAD Version 7.0

Radionuclide	Residential SAL (pCi/g)	Industrial SAL (pCi/g)	Construction Worker SAL (pCi/g)	Recreational SAL (pCi/g)	Time at which SAL Applies[a] (yr)
Americium-241	320	1000	230	3200	0.0
Cesium-134	5	17	15	150	0.0
Cesium-137+D[b]	12	41	37	370	0.0
Cobalt-60	2.6	9	8.1	81	0.0
Iodine-129	150	2300	710	6600	0.0
Plutonium-238	440	1300	230	3200	0.0
Plutonium-239/240[c]	400	1200	200	2900	0.0
Sodium-22	3.4	11	10	100	0.0
Strontium-90+D[b]	36	2400	1400	12,000	0.0
Technetium-99	99	330,000	110,000	860,000	0.0
Thorium-228+D[b]	4.9	17	15	150	0.0
Thorium-230[d]	5	5	5	5[e]	Not applicable[f]
Thorium-232[d]	5	5	5	5[e]	Not applicable[f]
Tritium	3700	2,400,000	1,600,000	8,200,000	0.0
Uranium-234	710	3100	1000	11,000	1000
Uranium-235+D[b]	46	160	130	1300	1000
Uranium-238+D[b]	200	710	470	4800	1000

Note: Values are from LANL(2016, 702936).

[a] Modeling period is 1000 yr. Soil criteria at other times within the modeling period are higher (less protective).

[b] Includes contribution to dose of radioactive progeny (plus daughters). Cesium-137 progeny is barium-137m; strontium-90 progeny is yttrium-90; thorium-228 progeny includes radium-224, radon-220, polonium-216, lead-212, bismuth-212, and thallium-208; uranium-235 progeny is thorium-231, and uranium-238 progeny includes thorium-234, protactinium-234m and protactinium-234.

[c] Plutonium-239 and plutonium-240 are typically unresolved in laboratory analysis. SALs for the two isotopes are identical.

[d] The authorized limit is the generic soil guideline for release of property published in Chapter 4 (“Residual Radioactive Material”) of DOE Order 458.1. For the concentration averaged over the first 15 cm of soil below the surface, 5 pCi/g applies; for subsequent 15-cm-thick layers, the generic soil guideline is 15 pCi/g. If both thorium-230 and radium-226 or both thorium-232 and radium-228 are present and not in secular equilibrium, or if other mixtures of radon-generating radionuclides occur, DOE Order 458.1 presents guidance for establishing soil guidelines..

Table G-4.2-1
Residential Radionuclide Screening Analysis for the MDPR Site

Radionuclide	EPC (pCi/g)	Residential SAL (pCi/g)	Dose (mrem/yr)
Americium-241	0.0287	83	8.64E-03
Cesium-137	0.00597	12	1.24E-02
Cobalt-60	0.251	2.6	2.41E+00
Plutonium-238	0.00105	84	3.12E-04
Plutonium-239/240	0.422	79	1.34E-01
Strontium-90	0.0253	15	4.22E-02
Thorium-228	1.621	4.6	8.81E+00
Thorium-230	1.3	5	6.50E+00
Tritium	5.69	1700	8.37E-02
Uranium-234	1.292	290	1.11E-01
Uranium-235/236	0.0455	42	2.71E-02
Uranium-238	1.331	150	2.22E-01
		TED	**20**

Table G-4.2-2
Total Effective Dose by Exposure Scenario at the MDPR Site

Scenario	TED (mrem/yr)	Appendix F Table Number
Residential	20	F-4.2-36
Industrial	6	F-4.2-27
Construction Worker	10	F-4.2-33
Recreational	6	F-4.2-30

Appendix H

Photographs of Fieldwork and
Site Conditions at Middle DP Road Site



Figure H-1 Fieldworkers conducting potholing at tract A-8-a, looking south



Figure H-2 Concrete slab located near anomaly pothole location A-4



Figure H-3 Bottle of unknown liquid found at anomaly pothole location 23



Figure H-4 Piece of metal with elevated radiological screening located at anomaly pothole location A-7A



Figure H-5 Benching completed on a deep excavation at the Middle DP Road (MDPR) site



Figure H-6 Backfilling of excavation using front-end loader



Figure H-7 20-yd^3 roll-off bins used to store and transport waste at MDPR site



Figure H-8 Truck used to transport waste bins from MDPR site



Figure H-9 Turf reinforcement matting installed on the west side of tract A-16-a, looking south



Figure H-10 Tract A-8-a, looking east



Figure H-11 Los Alamos County lift station



Figure H-12 Fragmented rock installed to stabilize the Los Alamos County ramp on the west side of tract A-16-a, looking south



Figure H-13 Tract A-16-a, looking south

1,629,040.00 1,629,070.00 1,629,100.00 1,629,130.00 1,629,160.00 1,629,190.00

1,775,230.00 1,775,200.00 1,775,170.00 1,775,140.00 1,775,110.00 1,775,080.00

A-8-b

A-16-a

00-61652 TD: 0-4 ft
RE00-22-250913 0-1 ft SOIL
Copper 37200 (J)
Lead 1460 (J)
Zinc 5290
RE00-22-250914 3-4 ft SOIL
Copper 889 (J)

00-61701 TD: 0-4 ft
RE00-22-252843 0-1 ft SOIL
Copper 2500 (J)
RE00-22-252844 3-4 ft SOIL
Copper 2420 (J)
Zinc 3150 (J)

00-61723 TD: 3-4 ft
RE00-22-255278 3-4 ft SOIL
Copper 855
Zinc 1090

00-61728 TD: 3-4 ft
RE00-22-255293 3-4 ft SOIL
Lead 517

00-61725 TD: 3-4 ft
RE00-22-255284 3-4 ft SOIL
Copper 7350
Zinc 5260

00-61702 TD: 0-4 ft
RE00-22-252846 0-1 ft SOIL
Copper 1090 (J)
RE00-22-252847 3-4 ft SOIL
Copper 3780 (J)
Zinc 2620 (J)

00-61719 TD: 3-4 ft
RE00-22-255266 3-4 ft SOIL
Copper 16000 (J)
Lead 813 (J)
Zinc 4940 (J)

00-61739 TD: 6.5-20 ft
RE00-23-259872 6.5-7.5 ft SOIL
Arsenic 9.77
RE00-23-270167 9-10 ft QBT3
Arsenic 14.9
RE00-23-270168 11-12 ft QBT3
Arsenic 12.9
RE00-23-272558 13-14 ft QBT3
Arsenic 58.6
RE00-23-272559 15-16 ft QBT3
Arsenic 54.4
RE00-23-282088 17-18 ft QBT3
Arsenic 14.5
RE00-23-282089 19-20 ft QBT3
Arsenic 13.4

00-61700 TD: 0-4 ft
RE00-22-252840 0-1 ft SOIL
Lead 3040 (J)
RE00-22-252841 3-4 ft SOIL
Copper 6050 (J)
Zinc 1270 (J)

00-61776 TD: 0-1 ft
RE00-23-271185 0-1 ft SOIL
Copper 4950
Zinc 845

00-61599 TD: 3-4 ft
RE00-22-248984 3-4 ft SOIL
Copper 9700 (J)
Lead 457
Zinc 5350 (J+)

00-61651 TD: 3-4 ft
RE00-22-250911 3-4 ft SOIL
Copper 1230 (J)
Zinc 2060

00-61579 TD: 0-4 ft
RE00-22-248922 0-1 ft SOIL
Copper 1750
Zinc 1370
RE00-22-248923 3-4 ft SOIL
Copper 5130
Lead 1490
Zinc 1090

00-188 TD: 3-7.5 ft
RE00-22-238084 3-4 ft FILL
Copper 5230 (J)
Lead 78200
Zinc 3490
RE00-22-238085 6.5-7.5 ft QBT3
Lead 463

00-61593 TD: 0-1 ft
RE00-22-248965 0-1 ft SOIL
Copper 2380

00-61580 TD: 3-7.5 ft
RE00-22-248926 3-4 ft SOIL
Copper 17500
Lead 792
Zinc 8110
RE00-22-248927 6.5-7.5 ft QBT3
Copper 719

00-184 TD: 3-4 ft
RE00-22-238074 3-4 ft SOIL
Copper 581
Zinc 1300

00-61591 TD: 0-4 ft
RE00-22-248959 0-1 ft SOIL
Manganese 860 (J+)
RE00-22-248960 3-4 ft SOIL
Copper 2510 (J)
Zinc 5360 (J)

00-196 TD: 7.5-8.5 ft
RE00-22-238104 7.5-8.5 ft QBT3
Copper 494

00-61582 TD: 3-4 ft
RE00-22-248932 3-4 ft SOIL
Copper 13200 (J)
Lead 559
Zinc 7150

00-61581 TD: 3-4 ft
RE00-22-248929 3-4 ft SOIL
Copper 722
Zinc 940

00-257 TD: 3-4 ft
RE00-22-238244 3-4 ft SOIL
Copper 64200
Lead 2090 (J)
Mercury 59.5
Strontium-90 21.1
Uranium-238 276
Zinc 51100

00-206 TD: 0-4 ft
RE00-22-238127 0-1 ft SOIL
Copper 7080 (J)
Lead 15500
Zinc 2820
RE00-22-238128 3-4 ft SOIL
Copper 4940 (J)
Zinc 3280

00-61521 TD: 6.9-7.9 ft
RE00-22-238280 6.9-7.9 ft QBT3
Arsenic 9.81 (J)
Copper 43400 (J)
Lead 2030 (J)
Zinc 4910 (J)

00-61623 TD: 9-10 ft
RE00-22-249046 9-10 ft QBT3
Copper 1190 (J)

00-61622 TD: 4-5 ft
RE00-22-249044 4-5 ft SOIL
Arsenic 10.3 (J)

00-197 TD: 8.5-9.5 ft
RE00-22-238105 8.5-9.5 ft QBT3
Manganese 529

00-210 TD: 7-8 ft
RE00-22-238137 7-8 ft QBT3
Manganese 633 (J)

00-61708 TD: 4-5 ft
RE00-22-253178 4-5 ft SOIL
Manganese 595 (J)

00-61705 TD: 4-5 ft
RE00-22-253162 4-5 ft SOIL
Manganese 485 (J)

00-61601 TD: 3-4 ft
RE00-22-248990 3-4 ft SOIL
Manganese 568

00-61576 TD: 3-4 ft
RE00-22-248913 3-4 ft SOIL
Manganese 871

00-61577 TD: 11.6-12.6 ft
RE00-22-248917 11.6-12.6 ft QBT3
Manganese 620

00-61657 TD: 4-5 ft
RE00-22-250929 4-5 ft SOIL
Manganese 502

00-61711 TD: 3-4 ft
RE00-22-253185 3-4 ft SOIL
Manganese 692 (J)

00-61738 TD: 6.5-7.5 ft
RE00-23-259869 6.5-7.5 ft QBT3
Copper 688 (J)

00-61721 TD: 3-4 ft
RE00-22-255272 3-4 ft SOIL
Copper 4090
Zinc 1370

00-61720 TD: 3-7.5 ft
RE00-22-255269 3-4 ft SOIL
Copper 1040
Zinc 1290
RE00-22-255270 6.5-7.5 ft SOIL
Arsenic 11

00-61751 TD: 9-10 ft
RE00-23-264893 9-10 ft QBT3
Copper 3070 (J)

00-61703 TD: 3-4 ft
RE00-22-252850 3-4 ft SOIL
Copper 514 (J)
Zinc 882 (J)

00-61757 TD: 3-7.5 ft
RE00-23-267857 3-4 ft SOIL
Copper 782
Zinc 1430
RE00-23-267858 6.5-7.5 ft QBT3
Copper 695
Zinc 1310

00-61742 TD: 3-7.5 ft
RE00-23-259880 3-4 ft SOIL
Copper 2670
Lead 510
Zinc 4460
RE00-23-259881 6.5-7.5 ft QBT3
Copper 5600
Zinc 1320

00-61610 TD: 3-4 ft
RE00-22-249017 3-4 ft SOIL
Copper 5620
Zinc 2970

00-61758 TD: 3-4 ft
RE00-23-267860 3-4 ft SOIL
Copper 684

00-61779 TD: 3-4 ft
RE00-23-271195 3-4 ft SOIL
Copper 43600 (J)
Lead 2010
Zinc 15300

00-61653 TD: 0-4 ft
RE00-22-250916 0-1 ft SOIL
Copper 2510 (J)
RE00-22-250917 3-4 ft SOIL
Copper 1880 (J)
Zinc 2940

00-61759 TD: 0-1 ft
RE00-23-267862 0-1 ft SOIL
Copper 9850 (J)
Zinc 4030 (J)

00-61760 TD: 0-4 ft
RE00-23-267865 0-1 ft SOIL
Copper 598 (J)
RE00-23-267866 3-4 ft SOIL
Lead 63100 (J)
Zinc 951 (J)

00-61807 TD: 2-7 ft
RE00-23-282116 2-3 ft QBT3
Arsenic 14.1 (J+)
RE00-23-282117 4-5 ft QBT3
Arsenic 13.9
RE00-23-289054 6-7 ft QBT3
Arsenic 21.2

00-61805 TD: 0-19 ft
RE00-23-282109 0-1 ft SOIL
Arsenic 11.3 (J+)
RE00-23-282110 2-3 ft QBT3
Arsenic 40.4 (J+)
RE00-23-282111 4-5 ft QBT3
Arsenic 34.1 (J)
RE00-23-289053 6-7 ft QBT3
Arsenic 20.7
RE00-23-289285 8-9 ft QBT3
Arsenic 102
RE00-23-289286 10-11 ft QBT3
Arsenic 80
RE00-23-290121 12-13 ft QBT3
Arsenic 64.3
RE00-23-290122 14-15 ft QBT3
Arsenic 23.8
RE00-23-289872 16-17 ft QBT3
Arsenic 16.1
RE00-23-289873 18-19 ft QBT3
Arsenic 16.1

00-61810 TD: 6-9 ft
RE00-23-289203 6-7 ft QBT3
Arsenic 8.97
RE00-23-289204 8-9 ft QBT3
Arsenic 8.28

00-61815 TD: 2-3 ft
RE00-23-289511 2-3 ft SOIL
Arsenic 7.88

00-61814 TD: 2-3 ft
RE00-23-289508 2-3 ft SOIL
Arsenic 10.6

MDA B

Sampling location
A-7A/1A excavation boundary
ESWP excavation boundary
MDPR project boundary
Fence
Land tract boundary
Sewer line
Electric line
MDA B
Index contour, 5-ft interval
Terrain contour, 1-ft interval

New Mexico State Plane Coordinate System Central Zone (3002)
North American Datum, 1983 (NAD 83)

US Survey Ft

GIS: Dave Frank, david.frank@em-la.doe.gov
Date: Monday, November 13, 2023

File: map_20-0024-06a

DISCLAIMER: This map was created for work processes associated with the LLCC. All other uses for this map should be confirmed with N3B staff.

0 5 10 20
Feet

A-8-b
A-16-a
A-8-a
ESWP excavation boundary
A-7A/1A excavation
MDPR project boundary
Land tract boundary

Plate 1: Excavations, confirmation and extent sampling locations, and constituents that exceeded screening levels and/or Eco-PRGs for the northern portion of tract A-16-a

Note: Units for all inorganic detects are mg/kg. Units for all organic detects are mg/kg. Units for all radionuclides are pCi/g.

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