TA-21 03-016

Los Alamos National Laboratory/University of California
Risk Reduction & Environmental Stewardship (RRES)
Remediation Services (RS), MS M992
Los Alamos, New Mexico 87545
(505) 667-0808/FAX (505) 665-4747

National Nuclear Security Administration.
Los Alamos Site Operations, MS A316
Environmental Restoration Program
Los Alamos, New Mexico 87544
(505) 667-7203/FAX (505) 665-4504

Date: September 29, 2003
Refer to: ER2003-0616

Mr. John Young, Corrective Action Project Leader
Permits Management Program
NMED – Hazardous Waste Bureau
2905 Rodeo Park Drive East
Building 1
Santa Fe, NM 87505-6303

SUBJECT: SUBMITTAL OF VOLUNTARY CORRECTIVE ACTION COMPLETION REPORT FOR SWMU 21-024(F) AND AOCS 21-030 AND C-21-015

Dear Mr. Young:

Enclosed are two copies of the Los Alamos National Laboratory (LANL) Remediation Services (RS) Project VCA Completion Report for SWMU 21-024(f) and AOCs 21-030 and C-21-015. As you may recall, this report is being submitted in the "old" format (pre-NMED Order) as agreed during the Consent Order discussions with your staff.

If you have any questions please contact Becky Coel-Roback at (505) 665-8843 or Woody Woodworth at (505) 667-5820.

Sincerely,

David McInroy, Deputy Project Director
Remediation Services
Los Alamos National Laboratory

Sincerely,

David Gregory, Project Manager
Department of Energy
Los Alamos Site Operations

DM/DG/BCR/jr

Enclosure: Certification Form
Voluntary Correction Action Completion Report

Cy:(w/enc)
N. Quintana, RRES-RS, MS M992
M. Leavitt, NMED-SWQB
S. Yanicak, NMED-OB
L. King, EPA Region 6
B. Coel-Roback, RRES-RS, MS M992
M. Wetovsky, RRES-RS, MS M992
RRES-RS File, MS M992
IM-5, MS A150
RPF MS M707

Cy:(w/o enclosure)
D. McInroy, RRES-RS, MS M992
B. Ramsey, RRES-DO, MS J591
S. Martin, NMED-HWB
C. Voorhees, NMED-OB
D. Gregory, LASO, MS A316

CERTIFICATION

CERTIFICATION BY THE RISK REDUCTION AND ENVIRONMENTAL STEWARDSHIP (RRES) PROGRAM TECHNICAL REPRESENTATIVES

Document Title: VCA Completion Report for SWMU 21-024(f) and AOCs C-21-015 and 21-0303 at TA-50

I certify under penalty of law that these documents and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violation.

Name: _____ Date: 9/29/03

David McInroy, Acting Program Manager
Remediation Program
Los Alamos National Laboratory

or

_____ Date: _____

Beverly A. Ramsey, Division Leader
Risk Reduction and Environmental Stewardship Division
Los Alamos National Laboratory

_____ Date: 9/29/03

David Gregory, Project Manager
Environmental Restoration Program
Department Of Energy/Los Alamos Site Office

or

_____ Date: _____

Herman LeDoux,
Assistant Area Manager of
Environmental Projects
Department Of Energy/Los Alamos Site Operations

Los Alamos
NATIONAL LABORATORY

LA-UR-03-5441
September 2003
ER2003-0472

Voluntary Correction Action Completion Report for Solid Waste Management Unit 21-024(f) and Areas of Concern C-21-015 and 21-030

Los Alamos
NATIONAL LABORATORY
Los Alamos NM 87545

Disclaimer

This document contains data on radioactive materials, including source, special nuclear, and by-product material. The management of these materials is regulated under the Atomic Energy Act and is specifically excluded from regulation under the Resource Conservation and Recovery Act and the New Mexico Hazardous Waste Act. These data are provided to the New Mexico Environment Department for informational purposes only.

Prepared by Risk Reduction and Environmental Stewardship—Remediation Services

Los Alamos National Laboratory, an affirmative action/equal opportunity employer, is operated by the University of California for the United States Department of Energy under contract W-7405-ENG-36.

This report was prepared as an account of work sponsored by an agency of the United States Government. Neither the Regents of the University of California, the United States Government nor any agency thereof, nor any of their employees make any warranty, express or implied, or assume any legal liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represent that its use would not infringe privately owned rights. Reference herein to any specific commercial product, process, or service by trade name, trademark, manufacturer, or otherwise does not necessarily constitute or imply its endorsement, recommendation, or favoring by the Regents of the University of California, the United States Government, or any agency thereof.

Los Alamos National Laboratory strongly supports academic freedom and a researcher's right to publish; as an institution, however, the Laboratory does not endorse the viewpoint of a publication or guarantee its technical correctness. By acceptance of this article, the publisher recognizes that the U.S. Government retains a nonexclusive, royalty-free license to publish or reproduce the published form of this contribution, or to allow others to do so, for U.S. Government purposes. Los Alamos National Laboratory requests that the publisher identify this article as work performed under the auspices of the U.S. Department of Energy.

LA-UR-03-5441
ER2003-0472

VCA Completion Report for SWMU 21-024(f) and AOCs C-21-015 and 21-030 at TA-50

September 2003

Responsible project leader:

Printed Name	Signature	Title	Organization	Date
Becky Coel-Roback		Project Team Leader	RRES-RS	9/29/03

Responsible UC representative:

Printed Name	Signature	Title	Organization	Date
David McInroy		Acting Deputy Project Director	RRES-RS	9/29/03

Responsible DOE representative:

Printed Name	Signature	Title	Organization	Date
David Gregory		Project Manager	DOE-LASO	9/29/03

EXECUTIVE SUMMARY

This voluntary corrective action (VCA) completion report addresses the characterization and remediation of Solid Waste Management Unit (SWMU) 21-024(f) and Areas of Concern (AOCs) C-21-015 and 21-030 within Technical Area (TA) 21 at Los Alamos National Laboratory (the Laboratory). SWMU 21-024(f) was added to Module VIII of the Laboratory's Hazardous Waste Facility Permit (EPA 1990, 1585) as a result of an annual unit audit conducted by the New Mexico Environment Department (NMED) in 1999. The AOCs are not included in Module VIII of the Hazardous Waste Facility Permit.

SWMU 21-024(f) is a former septic system that served Building 21-45, a waste research laboratory. The septic system consisted of an inlet pipe, septic tank, outlet pipe, and outfall pit. The outfall pit was located on the northern edge of Delta Prime (DP) mesa and drained to the north towards DP canyon. AOC C-21-015 is the footprint of Building 21-45, which was removed in 1954. AOC 21-030 is an inactive concrete sump and associated piping left in place when the building was removed.

VCA activities included (1) characterization and removal of the SWMU 21-024(f) septic tank, associated inlet and outlet lines, and outfall pit, (2) characterization and removal of the sump and outlet line associated with AOC 21-030, (3) collection of confirmation samples beneath all removed structures, (4) characterization of the AOC C-21-015 building footprint, and (5) sampling of the slope area below the 21-024(f) outfall pit.

The site and surrounding area have been used for industrial activities since the 1940s. The spatial distribution of the detected chemicals and radionuclides at SWMU 21-024(f) and AOCs C-21-015 and 21-030 confirmed limited releases from the septic tank discharge point and suggested potential leaks from sump and septic tank lines as well as irregular low-level contamination consistent with industrial use. Contaminants that appeared to be the result of site activities exhibited consistently decreasing trends with depth and distance from potential sources, which have all been removed.

Site data show there are no potential unacceptable human health risks (based on a residential exposure) or ecological risks from residual contamination at SWMU 21-024(f) and AOCs C-21-015 and 21-030. Therefore, no further action (NFA) is recommended under NFA Criterion 5 (Table ES-1). This criterion states that a SWMU must be characterized or remediated in accordance with applicable state or federal regulations and that the available data indicate chemicals of concern are either not present or are present at concentrations that would not pose a potential unacceptable risk to human health or the environment under projected future land use (NMED 1998, 57897).

Table ES-1
Summary of Proposed Actions

SWMU/AOC Number	Description	HSWA[a,b]	Radionuclide Component	Proposed Action	Rationale for Recommendation	Section Number
21-024(f)	Septic systems	Yes	Yes	NFA[c]	No potential unacceptable risk to human and ecological receptors	2.0
C-21-015	Building footprint	No	Yes	NFA	No potential unacceptable risk to human and ecological receptors	2.0
21-030	Sump	No	Yes	NFA	No potential unacceptable risk to human and ecological receptors	2.0

[a] Hazardous and Solid Waste Amendments.

[b] Is the site listed in Module VIII of the Laboratory's Hazardous Waste Facility Permit (EPA 1990, 01585)?

[c] NFA Criteria are listed in Section II.B.4.a.(4).(b) (NMED 1998, 57897).

CONTENTS

1.0 INTRODUCTION 1

2.0 SWMU 21-024(f) AND AOCs C-21-015 AND 21-030 3

2.1 Site Description and Operational History 3

2.2 Previous Activities 5

2.2.1 Previous Investigations 5

2.2.1.1 1988 Reconnaissance Sampling 5

2.2.1.2 1992 RFI Sampling 5

2.2.1.3 1993 RFI Sampling 7

2.2.2 Preliminary Conceptual Model 7

2.3 Remedial Activities 9

2.3.1 Investigative Activities during VCA 9

2.3.1.1 Waste Characterization 9

2.3.1.2 SWMU 21-024(f) Septic Tank and Line Removal and Confirmation Sampling Activities 9

2.3.1.3 SWMU 21-024(f) Outfall Slope Sampling 12

2.3.1.4 AOC 21-030 Outlet Line/Sump Removal and Confirmation Sampling Activities 14

2.3.1.5 AOC C-21-015 Confirmation Sample Collection Activities 17

2.3.1.6 Site Restoration Activities 17

2.3.2 Data Review 18

2.3.2.1 Inorganic Chemical Comparison with Background 19

2.3.2.2 Radionuclide Comparison with Background/Fallout Radionuclide Concentration 39

2.3.2.3 Evaluation of Organic Chemicals 46

2.3.2.4 Summary of COPCs at SWMU 21-024(f) and AOCs C-21-015 and 21-030 57

2.3.3 Revised Conceptual Site Model 59

2.3.3.1 Nature and Extent of Contamination 59

2.3.3.2 Environmental Fate and Transport 70

2.4 Site Assessments 72

2.4.1 Screening Assessments 72

2.4.1.1 Human Health 73

2.4.1.2 Ecological 79

2.4.2 Surface Water Assessments 89

2.5 Conclusions and Recommendations 89

3.0 WASTE MANAGEMENT 89

4.0 REFERENCES 90

Appendixes

Appendix A Acronyms, Glossary, and Conversion Table

Appendix B Operational and Environmental Setting

Appendix C Results of Quality Assurance/Quality Control Activities

Appendix D Analytical Suites and Results

Appendix E Statistical Analyses

Appendix F Risk Assessment Calculations

Appendix G Comparison of Anticipated and Actual Costs

Appendix H VCA Plan for Potential Release Sites 21-024(f) and C-21-015

Appendix I Photographs

Appendix J Correspondence with Regulatory Agencies

List of Figures

Figure 1.0-1 Location of TA-21 with respect to other Laboratory technical areas and surrounding land holdings 2

Figure 2.1.1 SWMU 21-024(f) septic system and AOCs C-21-015 (building footprint) and 21-030 (sump and lines) 4

Figure 2.2-1 Previous reconnaissance and RFI investigation sample locations, SWMU 21-024(f) 6

Figure 2.2-2 Conceptual model of contaminant transport at SWMU 21-024(f) and AOCs C-21-015 and 21-030 8

Figure 2.3-1 SWMU 21-024(f) VCA sample locations 11

Figure 2.3-2 AOCs C-21-015 and 21-030 VCA sample locations 15

Figure 2.3-3 Sample locations of inorganic chemicals above background, SWMU 21-024(f) 60

Figure 2.3-4 Sample locations of inorganic chemicals above background, AOCs C-21-015 and 21-030 61

Figure 2.3-5 Radionuclide concentrations greater than background, SWMU 21-024(f) 64

Figure 2.3-6 Radionuclide concentrations greater than background, AOCs C-21-015 and 21-030 65

Figure 2.3-7 Sample locations of detected organic chemicals for SWMU 21-024(f) 67

Figure 2.3-8 Sample locations of detected organic chemicals for AOCs C-21-015 and 21-030 68

List of Tables

Table 2.3-1 Deviations from VCA Plan and ROC Specifications: 21-024(f) Septic Tank Footprint, Lines, and Outfall Pit Sampling 13

Table 2.3-2 Summary of VCA Plan and ROC Specifications and Rationale for Deviations for the 21-024(f) Outfall Slope Sampling 14

Table 2.3-3 Summary of VCA Plan and ROC Specifications and Rationale for Deviations for the AOC 21-030 Concrete Sump and Outlet Line Sampling 16

Table 2.3-4 Summary of VCA Plan and ROC Specifications, Fieldwork, and Rationale for Deviations for AOC C-21-015 Building Footprint Sampling 18
Table 2.3-5 Summary of Samples Collected and Analyses Requested, SWMU 21-024(f) and AOCs C-21-015 and 21-030 20
Table 2.3-6 Frequency of Detected Inorganic Chemicals at SWMU 21-024(f) and AOCs C-21-015 and 21-030 27
Table 2.3-7 Inorganic Chemicals Detected above Background at SWMU 21-024(f) and AOCs C-21-015 and 21-030 30
Table 2.3-8 Frequency of Detected Radionuclides at SWMU 21-024(f) and AOCs C-21-015 and 21-030 40
Table 2.3-9 Radionuclides Detected Above Background/Fallout Values 42
Table 2.3-10 Detected Organic Chemicals at SWMU 21-024(f) and AOCs C-21-015 and 21-030 46
Table 2.3-11 Detected Organic Compounds 48
Table 2.3-12 Summary of Data Review Results 57
Table 2.3-13 Physicochemical Properties of COPCs, SWMU 21-024(f) and AOCs C-21-015 and 21-030 70
Table 2.4-1 SAL Comparison of Noncarcinogenic COPCs at SWMU 21-024(f) and AOCs C-21-015 and 21-030 with SALs 74
Table 2.4-2 SAL Comparison of Carcinogenic COPCs at SWMU 21-024(f) and AOCs C-21-015 and 21-030 75
Table 2.4-3 SAL Comparison of Radionuclide COPCs at SWMU 21-024(f) and AOCs C-21-015 and 21-030 76
Table 2.4-4 HQs for Final Terrestrial Receptor ESLs for SWMU 21-024(f) and AOCs C-21-015 and 21-030 80
Table 2.4-5 HI Summary for Terrestrial Receptors for SWMU 21-024(f) and AOCs C-21-015 and 21-030 82
Table 2.4-6 Analytes without ESLs Summary Information 88
Table 3.0-1 Waste Streams from SWMU 21-024(f) and AOCs C-21-015 and 21-030 Voluntary Corrective Action 90

1.0 INTRODUCTION

Los Alamos National Laboratory (the Laboratory) is a multidisciplinary research facility owned by the US Department of Energy (DOE) and managed by the University of California. 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 40 mi^2 of the Pajarito Plateau, which consists of a series of finger-like mesas separated by deep canyons. These canyons contain ephemeral and intermittent streams that run from west to east. Mesa tops range in elevation from approximately 6200 to 7800 ft. The eastern portion of the plateau stands 300 to 900 ft above the Rio Grande River.

The Laboratory's Risk Reduction and Environmental Stewardship–Remediation Services (RRES-RS) project is involved in a national DOE effort to clean up facilities formerly involved in weapons development. The goal of the RRES-RS project is to ensure DOE's past operations do not threaten human or environmental health and safety in and around Los Alamos County. To achieve that goal, the project is investigating sites that potentially are contaminated by past Laboratory operations.

This Voluntary Corrective Action (VCA) completion report addresses the characterization and remediation of Solid Waste Management Unit (SWMU) 21-024(f) and Areas of Concern (AOCs) C-21-015 and 21-030 located in Technical Area (TA) 21 (Figure 1.0-1). SWMU 21-024(f) is included in Module VIII of the Laboratory's Hazardous Waste Facility Permit (EPA 1990, 1585; EPA 1994, 44146); however, AOCs C-21-015 and 21-030 are not.

This corrective action, including sampling and analysis, was conducted under the requirements of the Resource Conservation and Recovery Act (RCRA) and the New Mexico Hazardous Waste Act. Radionuclide contamination is regulated under DOE Order 5400.5, "Radiation Protection of the Public and the Environment." The SWMU has a radionuclide component. The AOCs are not considered to have a radionuclide component. The current draft installation work plan (IWP) describes the methodologies used in this investigation (LANL 2000, 66802).

The objectives of this VCA were to

- define the nature and extent of any contamination,
- remove all remaining structures associated with these sites (i.e., septic tank, sump, associated lines, and outfall pit),
- collect confirmation soil samples beneath each structure, and
- assess the potential human health and ecological risks remaining at the site after completion of the VCA.

Section 2.0 of this report discusses site description and operational history, remedial activities, analytical results for the samples, and human health and ecological assessments for the SWMU and AOCs. Section 3.0 describes site waste management activities during the VCA. References are listed in Section 4.0. Appendix A contains a list of acronyms and a glossary of terms. Appendix B describes the site's operational and environmental setting. Appendix C includes the complete data quality assurance/quality control (QA/QC) results. Appendix D provides the analytical data for the investigation/remediation. Appendix E addresses statistical analyses. Appendix F addresses risk assessments. Appendix G includes the comparison of anticipated and actual costs for completion of the VCA. Appendix H includes a copy of the approved VCA plan (LANL 1999, 64159). Appendix I contains photographs of VCA activities. Appendix J provides copies of regulatory correspondence regarding the SWMU and AOCs.

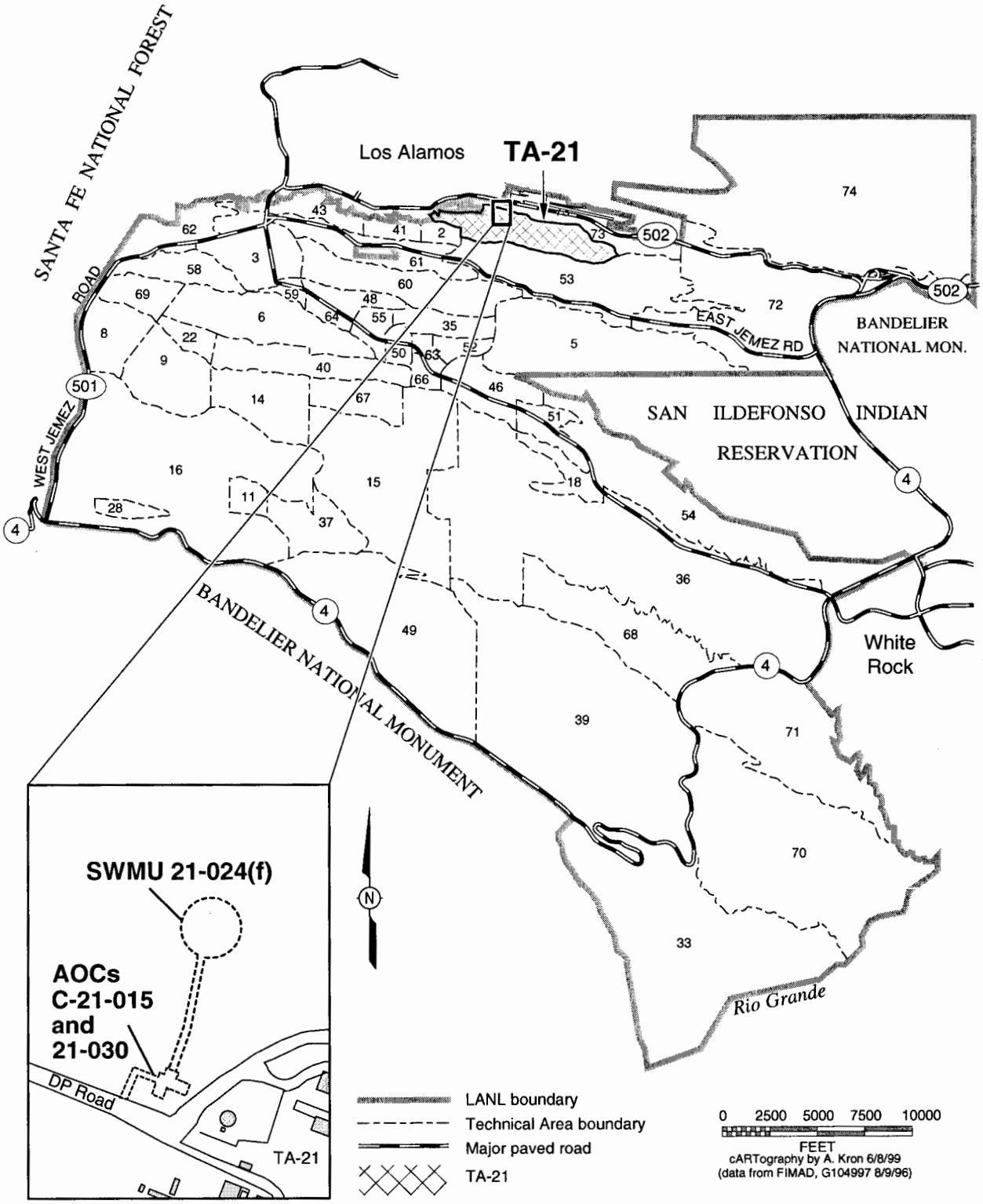


Figure 1.0-1. Location of TA-21 with respect to other Laboratory technical areas and surrounding land holdings

2.0 SWMU 21-024(f) AND AOCs C-21-015 AND 21-030

2.1 Site Description and Operational History

SWMU 21-024(f) and AOCs C-21-015 and 21-030 are located within TA-21 (Figure 1.0-1 and 2.1-1). TA-21 is located on Delta Prime (DP) Mesa, a relatively narrow, gently sloping mesa bordered on the north by DP Canyon and on the south by Los Alamos Canyon. The mesa top in the vicinity of the SWMU and AOCs drains into DP Canyon to the north and is generally flat and moderately well vegetated. The SWMU and AOCs are adjacent to the TA-21 industrial area. TA-21 was used primarily for plutonium research, metals production, and related activities from 1945 to 1978. Since 1978, administrative and laboratory work have been conducted at TA-21. Chemicals historically used at TA-21 include radionuclides, organic compounds, and inorganic chemicals.

SWMU 21-024(f) was a septic system that received effluent from Building 21-45 from 1947 to 1954 (Figure 2.1-1). This building, originally situated at 15th Street and Trinity Drive, was moved in July 1947 to the north side of DP Road, across from the DP laundry building (TA-21-20), and set on piers (Francis 1996, 63125). The effluent from the building flowed approximately 84 ft north through a 4-in.-diameter vitrified clay pipe (VCP) to a 1000-gal. steel septic tank (structure 21-124).

AOC C-21-015 is the footprint of former Building 21-45. This site was originally proposed for no further action (NFA) in the TA-21 RCRA Facility Investigation (RFI) Work Plan (LANL 1991, 07680), based on its use as a safety training building. Subsequent archival research and field observations indicated the building, which was initially used as a safety training building, had been converted to a waste research laboratory in 1949. A concrete sump, designated AOC 21-030, was installed as part of the conversion and was left in place after the building was removed in 1954 (Francis 1996, 63125).

The 1949 alterations to the building were made for Los Alamos Scientific Laboratory's Industrial Waste Studies Group, the same group that operated the Waste Treatment Laboratory (TA-21-33) immediately west of the DP Laundry (Francis 1996, 63125). One of two restrooms, located in the northwest corner of Building 21-45, was converted into a waste treatment laboratory with the addition of a sloping pit, concrete sump, drum rack, and steel lines that carried liquid waste to the DP laundry (Francis 1999, 63126). The waste treatment laboratory included a stainless steel sink with a drainline that led to the building's septic tank. The clarified liquid from the septic tank was discharged through a 4-in.-diameter vitrified clay pipe (VCP) to a shallow rock-lined pit (outfall) approximately 158 ft north and downgradient at the edge of DP Mesa (LANL 1995, 52350). The volume of liquid discharged to the pit is unknown but presumed to be small, based on the facilities served by the septic tank (i.e., one sink and one toilet) and the lack of a distinct drainage channel leading from the pit.

A pump was mounted on the wall above the sump to transfer fluid from the sump by means of a 3/4-in. steel suction line that passed through the west wall of the building and then dropped down the outer wall of the building to three ft below grade. The line continued west underground approximately 110 ft to an overhead steam line that serviced the DP Laundry. Although the existing drawings do not show precisely how the line was routed to the sump in the laundry building, it is assumed that it rose above grade and was strapped to the overhead steam line until it entered the DP Laundry's boiler room. Ultimately, the effluent was discharged to the Material Disposal Area (MDA) V absorption beds (Francis 1999, 63126). A 1953 memo (Blackwell 1953, 63127) indicated that there were two 1/2-in. pipelines under the floor of Building TA-21-45 used to transfer radioactive waste from DP Laundry back to the "contaminated sewer." However, facility drawings (LASL 1950, 63095.6; LASL 1950, 63095.7) do not support this piping configuration. When the VCA activities were completed at AOC C-21-015, only a single 3/4-in. pipeline was encountered and removed.

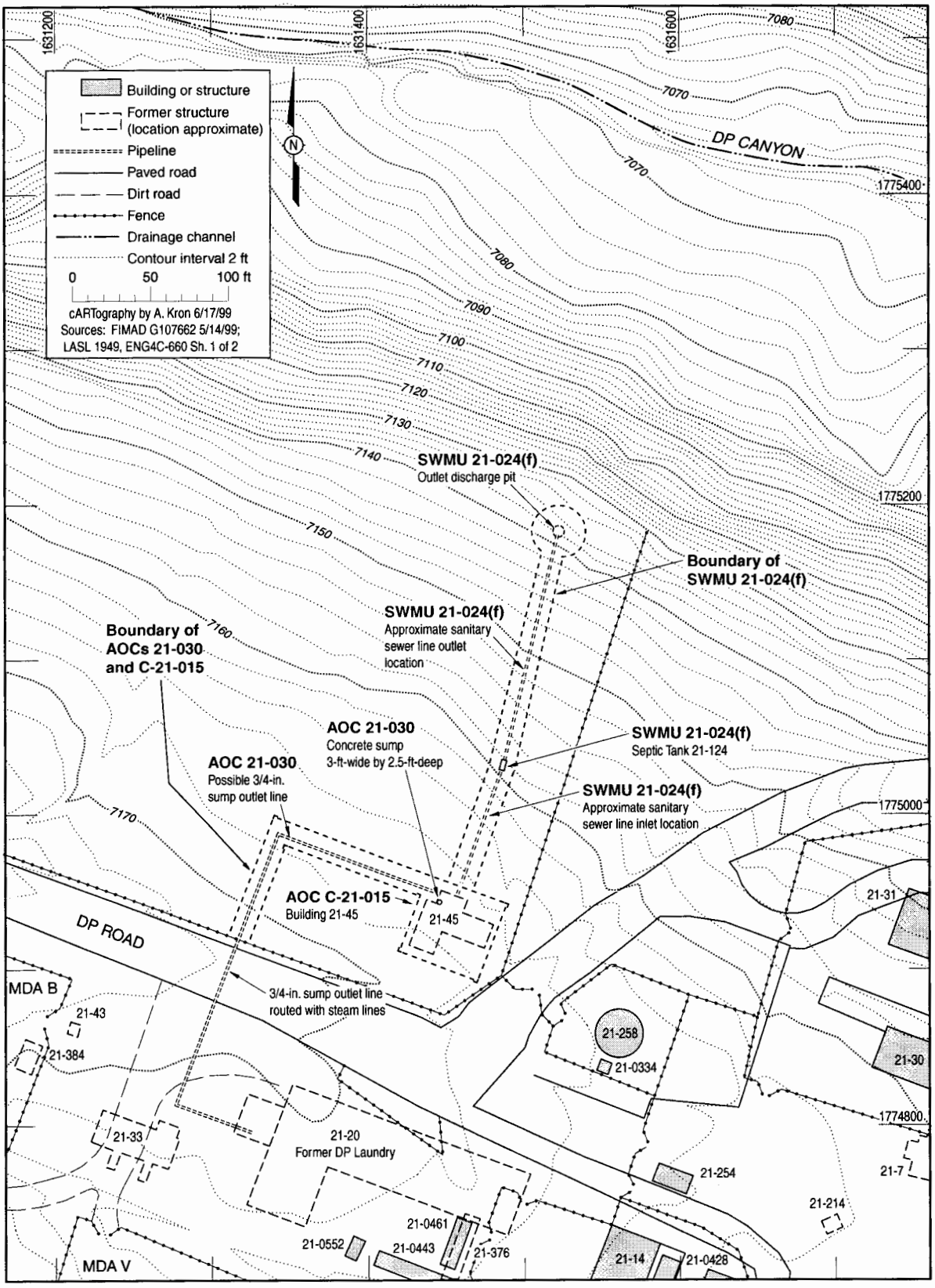


Figure 2.1.1. SWMU 21-024(f) septic system and AOCs C-21-015 (building footprint) and 21-030 (sump and lines)

The structure was decommissioned and removed in August 1954 by the Conwell Electric Company (Francis 1999, 63125). It was declared free of contamination and sold for salvage intact.

2.2 Previous Activities

2.2.1 Previous Investigations

There have been no previous field investigations of AOCs C-21-015 and 21-030, but there have been three separate sampling events at SWMU 21-024(f):

- In 1988, a single soil sample was collected at the discharge point within the outfall pit at a depth of 0.5 ft below ground surface (bgs) as part of a TA-21 reconnaissance effort.
- In 1992, a RCRA Facility Investigation (RFI) was begun with a radiation survey conducted within a 50-ft radius around the pit. Surface and shallow subsurface samples were collected from three locations flanking the pit.
- In 1993, the RFI activities were continued with two boreholes at the SWMU. One borehole was placed immediately east of the septic tank and a second borehole was placed at the center of the outfall pit, at approximately the same location as the 1988 reconnaissance sample.

Figure 2.2-1 shows SWMU 21-024(f) and the 1988 reconnaissance and the 1992/93 RFI sample locations. The results for all three of these previous investigations are provided in the VCA plan (LANL 1999, 64159) and are summarized in the following paragraphs. Potential site contaminants identified in each of these sampling events are further considered in sections on Data Review (Section 2.3.2) and Screening Assessment (Section 2.4.1).

2.2.1.1 1988 Reconnaissance Sampling

Analytical results from the single reconnaissance sample (Figure 2.2-1) collected in 1988 were presented in the VCA plan (LANL 1999, 64159). The sample collected from the center of the pit from a depth interval of 0 to 0.5 ft bgs was analyzed for metals, volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), pesticides, polychlorinated biphenyls (PCBs), and radionuclides. A comparison of the 1988 results with Laboratory soil background values (BVs) (LANL 1998, 59730) indicated lead, mercury, plutonium-239/240, and tritium exceeded their respective BVs.

2.2.1.2 1992 RFI Sampling

In 1992, three locations (21-01431, -01432, and -01433) were sampled around the pit at depth intervals of 0 to 0.5 ft, 0.5 to 1.0 ft, and 1.0 to 1.5 ft bgs (Figure 2.2-1). These soil samples were analyzed for metals, VOCs, SVOCs, radionuclides by gamma spectrometry, tritium, isotopic plutonium, total uranium, isotopic thorium, and americium-241. No analysis was conducted for mercury because mercury was not included in the standard suite for inorganic compounds in use at the time of the sampling event. The results were presented in the VCA plan (LANL 1999, 64159) and compared to BVs or fallout values (FVs) (LANL 1998, 59730) and screening action levels (SALs).

Inorganic chemical results. Four inorganic chemicals (arsenic, cadmium, chromium, and lead) were detected above their respective BVs. The inorganic chemicals lithium, strontium, and molybdenum were also detected; however, there are no established BVs for these chemicals. None of these inorganic chemicals exceeded SALs, with the exception of arsenic, which has a BV greater than its SAL.

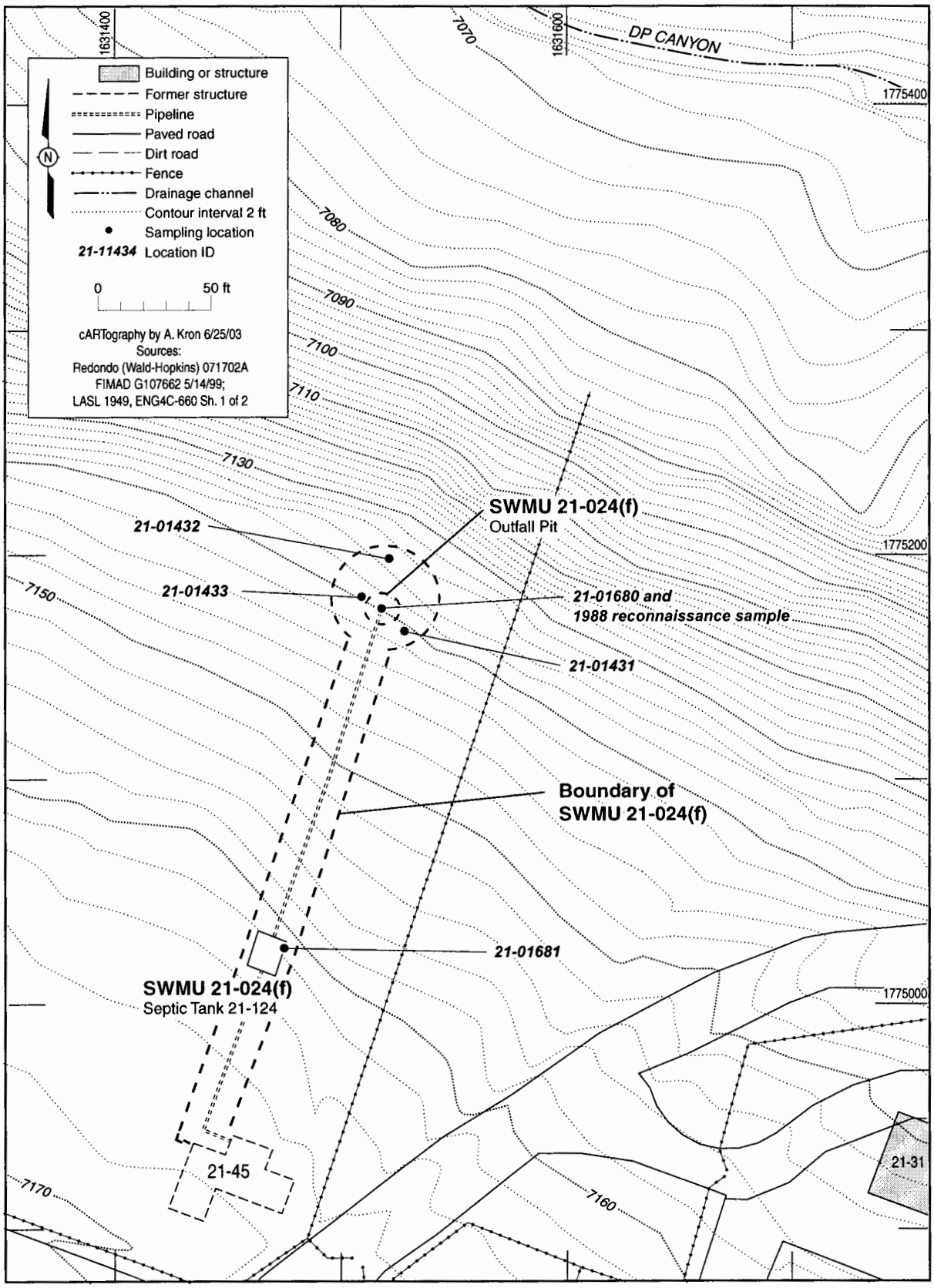


Figure 2.2-1. Previous reconnaissance and RFI investigation sample locations, SWMU 21-024(f)

Radionuclide results. Three radionuclides (americium-241, plutonium-239, and tritium) were detected in the area around the septic system outfall pit above their respective BVs/FVs. No radionuclides exceeded SALs.

Volatile organic compound results. Acetone, methylene chloride, and toluene were detected in the samples collected from around the septic system outfall pit at concentrations of 0.055 mg/kg, 0.007 mg/kg and 0.008 mg/kg, respectively. No VOCs exceeded SALs.

Semivolatile organic compound results. No SVOCs were detected in any of the 1992 RFI samples collected at SWMU 21-024(f).

2.2.1.3 1993 RFI Sampling

In 1993, a borehole was drilled adjacent to the northeast corner of the septic tank (location ID 21-01681, Figure 2.2-1) and samples were collected at 5-ft intervals to a depth of 20 ft bgs. A borehole was also placed in the center of the outfall pit (location ID 21-01680, Figure 2.2-1) and samples were collected at 2.5-ft intervals to a depth of 10 ft bgs. These samples were analyzed for metals, VOCs, SVOCs, radionuclides by gamma spectrometry, tritium, isotopic plutonium, isotopic uranium, isotopic thorium, strontium-90 and americium-241. As with the 1992 samples, no mercury analysis was conducted because it was not included in the standard suite for inorganic compounds in use at that time. The results were presented in the VCA plan (LANL 1999, 64159) and compared to BVs (LANL 1998, 59730) and SALs.

Inorganic chemical results. Eight inorganic chemicals (aluminum, arsenic, barium, beryllium, calcium, chromium, copper and magnesium) were detected above their respective BVs for tuff (Qbt 3) in the borehole drilled in the outfall pit. Strontium was also detected in the outfall pit boring. No inorganic chemicals were detected above their respective BVs for tuff (Qbt 3) in the borehole drilled adjacent to the septic tank. Lithium and strontium were also detected in the septic tank boring. None of these inorganic chemicals exceeded SALs with the exception of arsenic, which has a BV greater than its SAL.

Radionuclide results. Three radionuclides (americium-241, plutonium-239, and tritium) were detected above their respective BVs in the boreholes drilled in the outlet pit and adjacent to the septic tank. No radionuclides exceeded SALs in the 1993 RFI samples.

Organic chemical results. No VOCs or SVOCs were detected in any of the 1993 RFI borehole samples from SWMU 21-024(f).

2.2.2 Preliminary Conceptual Model

The conceptual model for SWMU 21-024(f) and AOCs 21-030 and C-21-015 consists of two primary potential sources of contamination: (1) direct leaks from the tank, sump, or subsurface lines, and (2) surface discharges from the outfall or overflows from the sump. System leaks would directly impact subsurface soil and tuff; surface discharges would directly impact surface soil, then subsurface soil and tuff via infiltration. The preliminary site conceptual model includes surface soil and subsurface soil and tuff as the primary contaminant media and soil and air as the secondary contaminant media.

Potential human receptors for all current exposure pathways are workers and recreational users (e.g., hikers, bikers, joggers) in the vicinity of SWMU 21-024(f) and AOCs C-21-015 and 21-030. However, to conservatively assess all potential risks, the conceptual model addresses exposure pathways for a residential land use scenario. Figure 2.2-2 presents the conceptual model for human receptors for SWMU 21-024(f) and AOCs C-21-015 and 21-030. The ecological conceptual site model is presented in the ecological scoping checklist, included both in Appendix F to this document and in the VCA plan (LANL 1999, 64159).

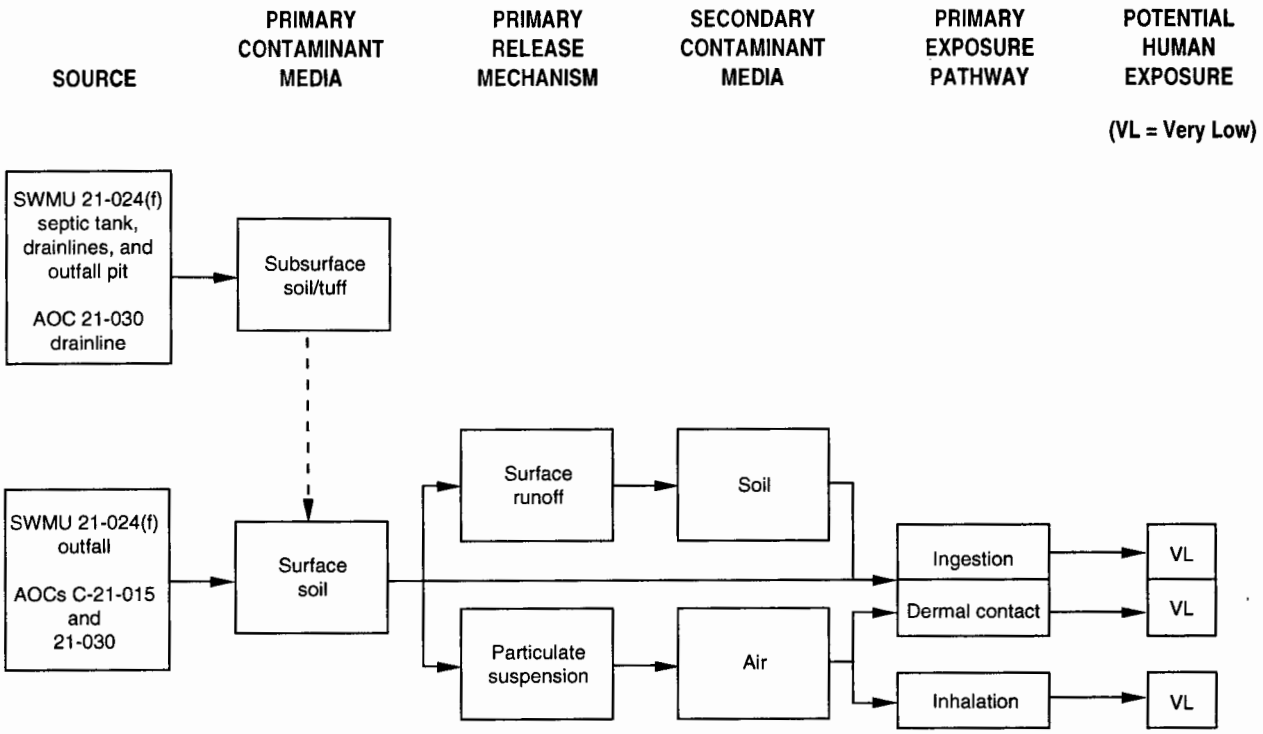


Figure 2.2-2. Conceptual model of contaminant transport at SWMU 21-024(f) and AOCs C-21-015 and 21-030

Potential pathways from subsurface releases to potential receptors would be complete only if the soil was excavated and brought to the surface. In such a case, the potential contaminant migration pathways and potential exposure pathways would be the same as those of a surface soil release, discussed below.

The potential for downward migration in the vadose zone of contaminants released from the AOCs and SWMU 21-024(f) is low, limited by a lack of hydraulic gradient. Unsaturated conditions in the vicinity of the sites restrict both horizontal and vertical migration. Therefore, a complete pathway to the regional aquifer, located approximately 1000 ft below the former structures, is unlikely. In addition, there are no seeps or springs nearby to indicate the presence of perched alluvial aquifers. In DP Canyon, an 800-ft deep well (LADP-4), located approximately 1500 ft east of the AOCs, did not encounter perched groundwater (Broxton et al. 1995, 50119). Therefore, impacts to shallow perched water zones are unlikely and neither deep nor shallow groundwater is included in the conceptual model as potential secondary contaminated media. Erosion is not considered a viable migration pathway because the area is relatively well vegetated and there is no visible evidence of erosion. The geologic setting of the TA-21 area is presented in greater detail in Appendix B.

For surface soil contaminants, surface water runoff is considered a potential secondary release and transport mechanism. In addition, migration of contaminants may have occurred as a result of air entrainment of particulates or fugitive dust. Potential exposure pathways from the releases to the surface soil through the identified transport pathways are principally dermal contact, inhalation of fugitive dust, incidental ingestion of soil, and external irradiation by gamma-emitting radionuclides.

2.3 Remedial Activities

Because structures that may have been contaminated were left in place following removal of Building 21-45, and because these structures were a potential source of subsurface contamination, characterization and remediation were necessary at SWMU 21-024(f) and AOCs C-21-015 and 21-030. Characterization and remediation activities were conducted as a VCA, because the corrective remedy (i.e., structure removal, confirmation sampling, and site restoration) was obvious. VCA activities began in July 2001 and were finalized in April 2003. The VCA consisted of removal of the septic tank, sump, all associated lines, and the outfall pit. The VCA also included confirmation sampling for each removed structure and additional nature and extent sampling downslope from the outfall. Photographs of the VCA activities are included in Appendix I.

The work described in the following sections was conducted according to the VCA plan (LANL 1999, 64159) and the record of communication (ROC) between the Laboratory and NMED (LANL 2001, 70218). The VCA plan is included as Appendix H and the ROC is included in Appendix J.

2.3.1 Investigative Activities during VCA

2.3.1.1 Waste Characterization

Sampling was conducted in July 1999 to characterize the waste within the septic tank and sump and to identify chemicals of potential concern (COPCs) for the SWMU and AOCs as specified in the VCA Plan (LANL 1999, 64159). Both liquid and solid (sludge) phases of the septic tank were sampled and analyzed for radionuclides by gamma spectroscopy, isotopic uranium, isotopic plutonium, isotopic thorium, strontium-90, tritium, nitrate, nitrite, PCBs, target analyte list (TAL) metals, SVOCs), and VOCs. Waste characterization samples from the sump were essentially soil material. The sump samples were analyzed for the same suite of chemicals as the septic tank contents. Appendix D gives the complete results for the waste characterization samples.

Analytical results for the sludge and liquid samples from the septic tank at SWMU 21-024(f) indicated low concentrations (<1.0 ppm) of the VOCs 2-butanone, bromochloromethane, and 4-isopropyltoluene; numerous inorganic chemicals; and low levels of a variety of radionuclides including plutonium-239/240, uranium-234, and thorium-230. Analytical results for the soil samples from the sump (AOC C-21-015) show low concentrations of PCBs (0.02 ppm PCBs), low concentrations of numerous SVOCs, inorganic metals, and radionucludes including thorium-230, plutonium-239, and strontium-90.

A second sludge sample was collected in August 2001 per ER SOP 6.09 (LANL 1992, 57969), when the septic tank was discovered to have a second chamber. The sample consisted of a thick organic-rich sludge with rust scale. Field screening of the sample showed no alpha or beta/gamma radiation above background and no VOCs. The waste characterization sample was submitted to a fixed laboratory and analyzed for americium-241, radionuclides by gamma spectroscopy, isotopic plutonium, isotopic uranium, isotopic thorium, strontium-90, tritium, perchlorates, TAL metals, toxicity characteristic leaching procedure (TCLP) metals, pesticides, PCBs, SVOCs, and VOCs. The complete set of analytical results from the 1999 and 2001 waste samples is included in Appendix D. The data from the second sludge sample largely agreed with the previous results and no changes to the waste profile were necessary.

2.3.1.2 SWMU 21-024(f) Septic Tank and Line Removal and Confirmation Sampling Activities

VCA field activities at SWMU 21-024(f), which included septic tank and line removal and confirmation sampling, began on July 26, 2001. Initial activities involved excavating soil above the outlet line to the connection with the 21-024(f) septic tank. Excavation activities were continuously observed to

differentiate between pre-existing line damage and damage caused by VCA activities. Work proceeded from the outfall pit back to the septic tank. The depth of the excavated line increased steadily from where it daylighted at the outfall pit to a depth of 3.5 ft bgs where it connected to the north end of the septic tank. Screening for beta/gamma and alpha radiation was performed over the entire length of the exposed outlet pipe using an ESP-1 rate meter with an HP-260 probe and a Ludlum Model-139 rate meter equipped with an air proportional probe, respectively. Photographs of the outlet pipe were taken to document its condition. Each section of the outlet pipe was constructed with mortar sealed joints that were in very good condition. The observed breaks in the line were all due to damage from the backhoe during excavation.

Following radiation screening and photo documentation of the outlet line (see Appendix I), the top of the septic tank was excavated and inspected. Inspection of the tank on July 31, 2001, indicated a baffle separated the tank into two compartments and that the waste samples collected in 1999 were collected from the downstream end of the tank to fully characterize the tank contents. A decision was made to halt excavation and screening of the tank lines until the sludge from the upstream compartment could be sampled and the analytical results reviewed (see Section 2.3.1.1). Review of the analytical data indicated no additional waste characterization was required.

Excavation work resumed along the top of the septic tank inlet line on August 31, 2001. Field screening for alpha and beta/gamma radiation and photo documentation of the inlet line were completed on September 4, 2001. The inlet line was constructed with mortar joints and in good condition. All cracks in the VCP pipe were observed to be the result of current excavation activities. The field screening instruments detected no elevated levels of radioactivity.

Removal of the septic tank lines and collection of confirmation samples began on September 5, 2001. The lines were measured in the field so the planned sample locations could be staked. The outlet line measured 153 ft from the outfall to the north end of the septic tank. The inlet line measured 71 ft from the former building location to the south end of the septic tank.

Because no elevated levels of radioactivity were identified during excavation of lines, locations were staked as presented in the ROC (LANL 2001, 70218), provided in Appendix J of this document. Locations 21-11273 through 21-11281 (Figure 2.3-1) were sampled per ER SOP 6.10, "Hand Auger and Thin Walled Tube Sampling" (LANL 1998, 59545) from 0 to 0.5 ft and 1.5 to 2.0 ft below the inlet and outlet lines. Samples were screened in the field for radiation as described above and for VOCs using a photo-ionization detector (PID). Screening results did not indicate any elevated levels of radiation or VOC vapors. Samples were submitted to a fixed laboratory for analysis of TAL metals (including lithium and strontium), VOCs, americium-241 by alpha spectroscopy, radionuclides by gamma spectroscopy, and tritium. Perchlorate analysis was conducted on all samples from underneath the septic tank line, as opposed to samples from a single location along the line as specified in the ROC.

The septic tank was removed on September 14. As with the inlet and outlet lines, no elevated levels of radioactivity were detected while field screening soils beneath the removed tank for alpha and beta/gamma activity. Therefore, sampling was conducted as presented in the ROC (LANL 2001, 70218). In November and December 2001, a drill rig was used to place a single borehole in the footprint of the removed septic tank (location 21-11295). Another borehole was drilled within the 21-024(f) outfall pit (location 21-11294). The boreholes were drilled and sampled by advancing 4.25-in. inside diameter hollow-stem auger flights equipped with 5-ft core barrels. Location 21-11295 was sampled from 0 to 1.0 ft, 4.0 to 5.0 ft, 9.0 to 10.0 ft and 19.0 to 20.0 ft bgs. Samples were screened for VOCs and radiation as described previously. All samples were analyzed for TAL metals (including lithium and strontium), VOCs, americium-241 by alpha spectroscopy, radionuclides by gamma spectroscopy, tritium, and perchlorates.

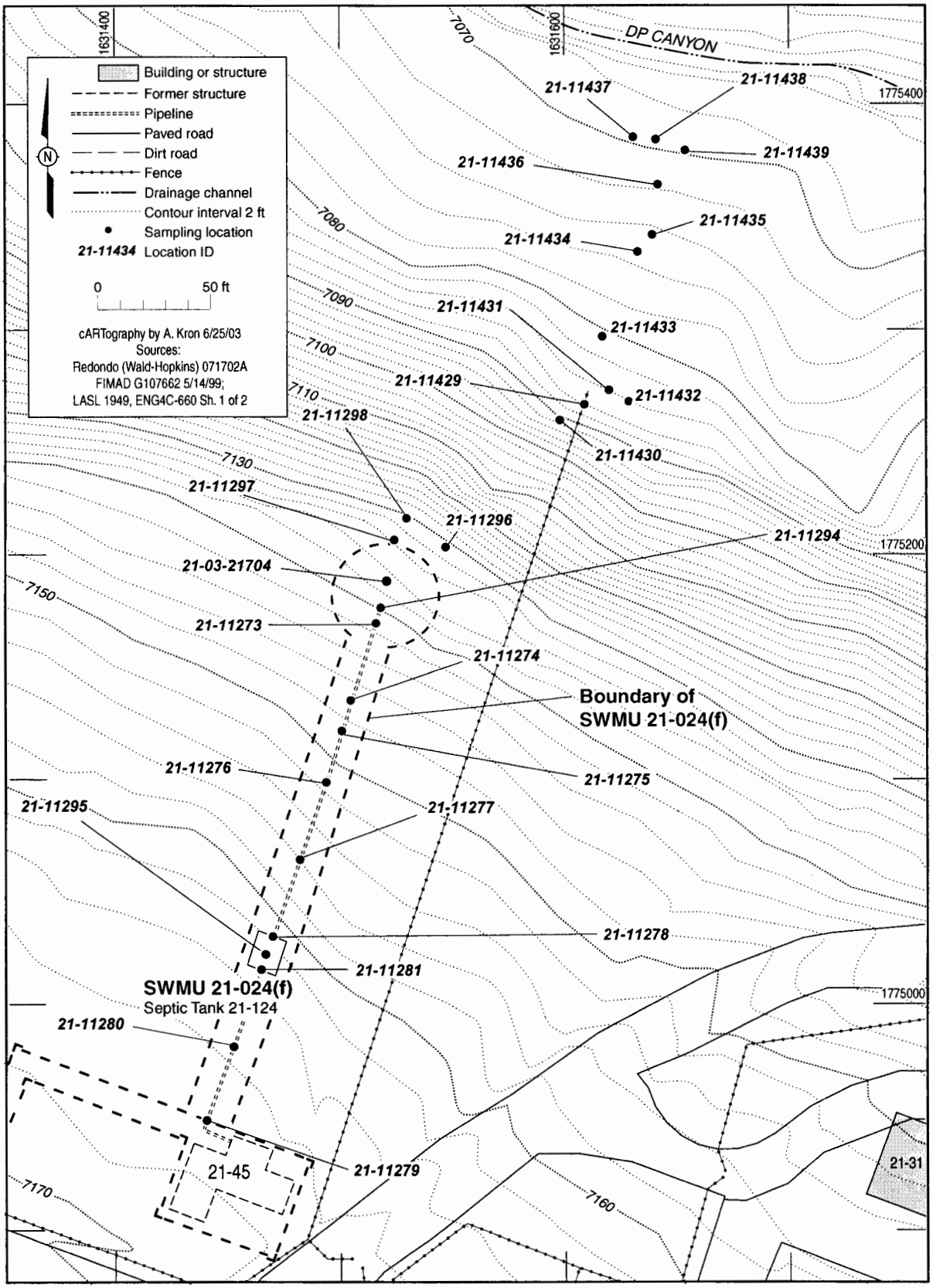


Figure 2.3-1. SWMU 21-024(f) VCA sample locations

Location 21-11294 was sampled at depth intervals of 6 to 10 in., 4.0 to 5.0 ft, 9.0 to 10.0 ft, and 19.0 to 20.0 ft bgs. Samples were analyzed for TAL metals (including lithium and strontium), VOCs, americium-241, tritium, isotopic plutonium, thorium and uranium by alpha spectroscopy. VOC analysis was included in all four sample intervals rather than the three deepest intervals identified in the ROC (LANL 2001, 70218). Following receipt of analytical results, a data gap for isotopic plutonium was identified in the analytical suite for 21-024(f) line samples and beneath the septic tank. To fill this gap, additional samples were collected at the previously sampled locations in January 2003. At locations 21-11273 through -11277, -11279, and -11280, material was sampled per ER SOP 6.10 from the same intervals as previously sampled. Shallow samples for isotopic plutonium differ from first round samples in that only the tuff fraction of the sample interval was analyzed. This was done to insure that fill material introduced during backfilling of the excavation trench was not sampled. Locations 21-11278 and 21-11281 were not sampled at the previous sample intervals since the materials could include backfill used to fill the resulting excavation following tank removal. Location 21-11295 was not sampled for isotopic plutonium, but location 21-11281 was sampled at two depths within the footprint of the former septic tank using the fill/tuff interface as the excavation marker. The sampling requirements, deviations, and rationale for the deviations are presented in Table 2.3-1.

2.3.1.3 SWMU 21-024(f) Outfall Slope Sampling

Sampling of the 21-024(f) outfall slope to determine the nature and extent of contamination from the septic tank outfall began November 29, 2001, and was completed on January 18, 2002. Outfall slope sample locations are shown in Figure 2.3-1. Sampling was conducted per ER SOP 6.09 using the same approach as used by the Canyons Team. The methodology attempts to identify buried soil horizons most likely to have received contaminants released from the outfall while in operation. Three different scenarios for sample depth selection guided the sampling:

- Sample locations along the most probable path of flow from the outfall had ponderosa pines next to them roughly 10 in. in diameter. Trees of this size would have germinated at the soil surface at the time of tank operations or just prior to tank operations. Since the flare of ponderosa pines marks the depth of germination, samples were collected immediately below the root flares or in obvious buried soil horizons at or slightly below the root flare. Sample locations 21-11429 through 21-11432 and 21-11434 through 21-11436 were collected in this manner.
- One sample location (21-11433) within the drainage down slope from the 21-024(f) outfall did not have ponderosa pines suitable to guide the selection of sample depths. In this location, a pit was dug by hand and the shallowest buried soil profile (0.5 to 0.92 ft bgs) was identified and sampled.
- Locations 21-11437 through 21-11439 are located within the flood plain of the DP Canyon ephemeral stream channel. These locations were selected in a line perpendicular to the slope near where the drainage ended. These locations showed no well defined buried soil profiles and no ponderosa pines were present to guide the selection of sample intervals. Samples were collected from 0 to 0.33 ft bgs at locations 21-11437 and 21-11439, from 0.33 to 0.66 ft bgs at locations 21-11437 and 21-11438, and from 0.66 to 0.98 ft bgs at locations 21-11438 and 21-11439.

In January 2003, two additional samples were collected down slope from the 21-024(f) outfall pit (see Figure 2.3-1). A sample and field duplicate for analysis of isotopic plutonium and isotopic thorium were collected from location 21-11439, in the DP canyon flood plain, from 0 to 0.5 ft to better define the variability of these radionuclides at that location. Another sample was collected from location 21-03-21704 to better define the extent of plutonium immediately down slope of the outfall pit. Sampling requirements, deviations, and the justification for the deviations are presented in Table 2.3-2.

Table 2.3-1
Deviations from VCA Plan and ROC Specifications:
21-024(f) Septic Tank Footprint, Lines, and Outfall Pit Sampling

Media	VCA Plan/ROC Specification		Actual Fieldwork Performed		Rationale for Deviation
	Number of Samples Specified	Analytes Specified	Number of Samples Collected	Analytes Measured	
Soil and Qbt 3	Not specified	Not specified	16 + 1 Duplicate	Isotopic plutonium, under 21-024(f) septic tank and lines	Isotopic plutonium samples were collected in the 2003 sampling event. Although isotopic plutonium was not specified in the ROC, it is a common TA-21 contaminant.
Soil and Qbt3	8 locations under the septic tank inlet/outlet line at 2 depths each **Total:** 16 samples	TAL metals, VOCs, gamma spectroscopy, americium-241, and tritium.	9 locations under the septic tank inlet/outlet line at 2 depths each **Total:** 18 samples	TAL metals, VOCs, gamma spectroscopy, americium-241, and tritium.	An extra location (2 depths) was sampled along the septic tank inlet/outlet line.
Soil and Qbt 3	3 from borehole in outfall pit	VOCs	4	VOCs	VOCs were analyzed in all samples from the outfall pit, as opposed to just samples collected from the three subsurface intervals.
Soil and Qbt 3	4 from borehole beneath tank, 4 from borehole in outfall pit, and 2 from a single location along outlet line **Total:** 10 samples	Perchlorates	24	Perchlorates	Analysis for perchlorate was conducted on all samples collected beneath the outlet line, as opposed to 2 depths from 1 locations as specified in the ROC

Table 2.3-2
Summary of VCA Plan and ROC Specifications and Rationale for Deviations for the 21-024(f) Outfall Slope Sampling

Media	VCA Plan/ROC Specification		Actual Fieldwork Performed		Rationale for Deviation
	Number of Samples Specified	Analytes Specified	Number of Samples Collected	Analytes Measured	
Soil	Approximately 13 locations	TAL metals; isotopic plutonium, uranium, and thorium; americium-241, and tritium.	14 locations	TAL metals; Isotopic plutonium, uranium, and thorium; americium-241, and tritium	Sample locations 21-11429 through 21-11439 were moved from those shown in the ROC to locations identified in the field as being the most likely to have come in contact with any discharge from the 21-024(f) outfall (see discussion above).
Soil	Not specified	Not specified	4	Perchlorate	Locations 21-11296 through 21-11298 included perchlorate analysis that was not specified in the ROC.
Soil	Not specified	Not specified	1 + 1 duplicate	Isotopic plutonium	Additional sample collected to check variability of isotopic plutonium at location 21-11439.
Soil	Not specified	Not specified	1	Isotopic thorium	Additional sample collected to check variability of isotopic thorium at location 21-11439.
Soil	Not specified	Not specified	1	Isotopic plutonium	Location 21-03-21704 was sampled for isotopic plutonium to better define the extent down slope of the 21-024(f) outfall pit.

2.3.1.4 AOC 21-030 Outlet Line/Sump Removal and Confirmation Sampling Activities

The Laboratory started VCA activities at AOC 21-030, which included sump and outlet line removal and confirmation sampling, on September 4, 2001. The sides of the concrete sump were exposed and the sump outlet line was located with a backhoe. The entire length of the sump outlet line was screened for alpha and beta/gamma radiation. Screening for alpha and beta/gamma radiation was performed over the entire length of the exposed outlet pipe using an ESP-1 rate meter with an HP-260 probe and a Ludlum Model-139 rate meter equipped with an air proportional probe, respectively. Field screening did not identify any elevated radiation levels. Inspection of the line showed it to be in good condition with the threaded fittings intact. No soil staining was observed beneath the line during removal.

The VCA plan (LANL 1999, 64159) and ROC (LANL 2001, 70218) specified four sample locations along the length of the 3/4-in. steel sump outlet line. However, a total of seven locations (locations 21-11282 through 21-11288) were sampled along the line during completion of the VCA activities (Figure 2.3-2). Each of the seven locations was positioned beneath a threaded pipefitting used to connect sections of the line. A total of ten threaded pipefittings were encountered during removal of the line. Of the three fittings not sampled, none were more than three ft from a sampling location. Samples were collected per ER SOP 6.10, "Hand Auger and Thin-Wall Tube Sampler" (LANL 1998, 59545) and submitted for fixed laboratory analysis of TAL metals, PCBs, SVOCs, radionuclides by gamma spectroscopy, and strontium-90. To correct an oversight, three locations were resampled at two depths, and the samples were submitted for tritium and isotopic plutonium analysis (see Table 2.3-3).

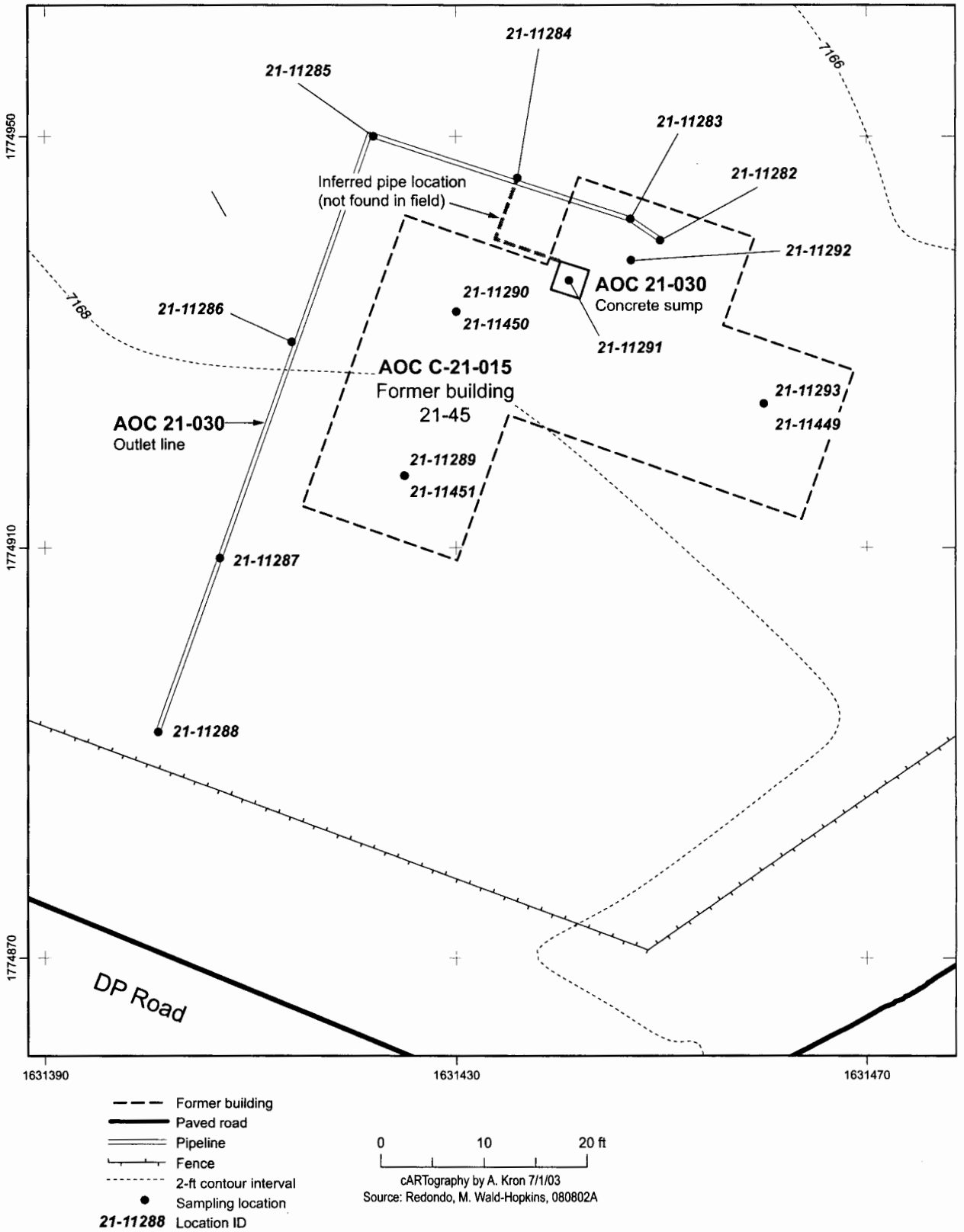


Figure 2.3-2. AOCs C-21-015 and 21-030 VCA sample locations

Table 2.3-3
Summary of VCA Plan and ROC Specifications and Rationale for Deviations for the AOC 21-030 Concrete Sump and Outlet Line Sampling

	Work Plan/ROC Specification		Actual Fieldwork Performed		
Media	Number of Samples Specified	Analytes Specified	Number of Samples Collected	Analytes Measured	Rationale for Deviation
Soil and Qbt 3	4 outlet line locations at 2 depths each 2 boreholes sampled at 4 depths each **Total:** 16 samples	TAL metals, SVOCs, gamma spectroscopy, americium-241, and tritium. Perchlorate was also specified for the boreholes samples.	7 locations along the outlet line at 2 depths each 2 boreholes sampled at 4 depths each and 1 field duplicate **Total**: 23 samples	TAL metals, SVOCs, PCBs, perchlorate, gamma spectroscopy, and strontium-90.	Perchlorate was added to the outlet line sample suite to eliminate potential data gaps. PCBs and strontium-90 analysis were added based on very low-level detections in waste samples from the AOC 21-030 sump. Tritium and americium-241 by alpha spectroscopy were inadvertently omitted from the sample suite. Americium-241 was measured using gamma spectroscopy.
Soil and Qbt 3	4 outlet line locations at 2 depths each 2 boreholes sampled at 4 depths each **Total:** 16 samples	Tritium	3 locations along line at 2 depths each (and 1 field duplicate) and 2 locations below the former sump **Total:** 9 samples	Tritium and isotopic plutonium	To fill the data gap that resulted from the omission of tritium analysis, locations 21-11283, 21-11284 and 21-11287 were sampled at approximately the same depths as originally sampled. Although isotopic plutonium was not specified in the ROC, the samples that were re-collected for tritium (see above) were also analyzed for isotopic plutonium, because isotopes of plutonium are common TA-21 contaminants.

The concrete sump was excavated and removed from the ground on September 14, 2001, using heavy equipment. The sump was placed directly into a plastic lined waste bin for later disposal at TA-54, Area G. The walls and bottom of the sump were inspected. No cracks or staining were identified that would indicate an unintended release had occurred. The excavation was backfilled using site soils from immediately around the excavation.

Confirmation sampling beneath and downgradient of the sump was conducted on December 18, 2001, when a drill rig was mobilized to the site. VCA Plan and ROC requirements and deviations are listed in Table 2.3-3. The planned sample depths were relative to the bottom of the former sump. The exact depth of the sump bottom was established during drilling by the fact the sump was formed in place on tuff bedrock. Therefore, the backfill/tuff interface clearly marked the bottom depth of the former sump. Two locations (21-11291 and 21-11292) (Figure 2.3-2) were continuously cored by advancing 4.25-in. inside diameter hollow stem auger flights and 5-ft core barrel samplers per ER SOP 6.26, "Core Barrel Sampling

for Subsurface Earth Materials" (LANL 2001, 70270). Recovered cores were first screened for VOCs as the core barrel was opened, followed by screening for alpha and beta/gamma radiation using the previously described equipment. The field screening detected no VOCs and no elevated levels of radiation. Samples were collected at the planned depth intervals and submitted for fixed laboratory analysis of perchlorate, radionuclides by gamma spectroscopy, strontium-90, TAL metals, PCBs, and SVOCs.

In January and February of 2002, additional sampling was conducted at AOC 21-030. Tritium and isotopic plutonium was inadvertently omitted from the sample suite during sample collection in 2001. Three sample locations along the sump outlet line (21-11283, -11284, and -11287) were resampled for tritium and isotopic plutonium. Location 21-11291 (beneath the former concrete sump) was also resampled for tritium and isotopic plutonium. Samples were collected per ER SOP 6.10 as described above. Due to recontouring of the site during restoration, and to avoid incorporating backfill materials, the exact sample depths were not duplicated from the initial sampling. The shallowest samples were collected at the fill/tuff interface and a second sample interval was collected starting 1 ft below the bottom of the first interval.

2.3.1.5 AOC C-21-015 Confirmation Sample Collection Activities

VCA activities at AOC 21-015 consisted of sampling in the building footprint. Three surface samples were collected at depths of 0 to 0.5 ft from within the footprint of AOC C-21-015 on December 18, 2001 (locations 21-11289, -11290, and -11293). Sample locations were distributed throughout the building footprint (Figure 2.3-2) and samples were collected per ER SOP 6.09. All samples were screened for alpha and beta/gamma radiation as previously described. Field screening identified no elevated radiation levels in the samples. Samples were analyzed for perchlorate, radionuclides by gamma spectroscopy, strontium-90, TAL metals, PCBs, and SVOCs.

In January and February of 2002, additional sampling was conducted at AOC C-21-015 to fill data gaps resulting from the inadvertent omission of tritium and isotopic plutonium from the sample suite as previously described. Location 21-11293 was resampled at two depths (0 to 0.5 and 1.5 to 2 ft bgs) for tritium and isotopic plutonium. Samples were collected per ER SOP 6.10 as described above.

Deeper samples (18 to 30 in.) were collected at locations immediately adjacent to the surface samples in February 2002 with a hand auger per Laboratory ER SOP 6.10, (LANL 1998, 59545) (location IDs 21-11449, -11450, and -11451). The samples collected in 2002 were analyzed for perchlorate, radionuclides by gamma spectroscopy, americium-241, tritium, TAL metals, and SVOCs.

A direct survey for beta/gamma radiation was performed within the footprint of AOC C-21-015 on May 15, 2002. A total of 67 points on a 5 ft grid were screened using one-minute counts with an ESP-1 rate meter equipped with an HP-260 probe. Data review indicated a random distribution of count rates with three data points that exceeded the 95% confidence interval by no more than 17 disintegrations per minute (dpm) and no additional samples were collected. Table 2.3-4 summarizes the VCA plan and ROC, and gives the rationale for deviations for AOC C-21-015.

2.3.1.6 Site Restoration Activities

Following the removal of the concrete sump and outlet line and backfilling of the excavations in September 2001, the site was regraded to ensure proper drainage. Grass seed was spread on the disturbed areas and straw mulch applied across the reseeded areas.

Table 2.3-4
Summary of VCA Plan and ROC Specifications, Fieldwork, and Rationale for Deviations for AOC C-21-015 Building Footprint Sampling

	VCA Plan/ROC Specification		Actual Fieldwork Performed		
Media	Number of Samples Specified	Analytes Specified	Number of Samples Collected	Analytes Measured	Rationale for Deviation
Soil	Not specified	Not specified	3	Perchlorate, TAL metals, PCBs, SVOCs, gamma spectroscopy, strontium-90	The building footprint was not specified for sampling in the ROC, so the 2001 sample suite used for AOC 21-030 was adopted. As with AOC 21-030, tritium and americium-241 by alpha spectroscopy were inadvertently omitted from the sample suite. Americium-241 was measured using gamma spectroscopy.
Tuff (Qbt 3)	Not specified	Not specified	2	Tritium and isotopic plutonium	Location 21-11293 was resampled and analyzed for tritium and isotopic plutonium to fill the data gaps identified in the suite for AOC 21-030 as discussed previously.
Tuff (Qbt 3)	Not specified	Not specified	3	Perchlorate, TAL metals, SVOCs, americium 241, gamma spectroscopy, tritium	Deeper samples collected adjacent to locations 21-11289, 21-11290 and 21-11293. The suite duplicates that listed for AOC 21-030 in the ROC.

In April 2003, a backhoe was mobilized to SWMU 21-024(f) to remove the outfall pit that remained at the site. Removal of the pit was performed so that no structures that made up the 21-024(f) system remained. Approximately six yd^3 of rock and soil were removed at the pit location and immediately down slope from the pit. This soil and rock was placed in a plastic lined roll off bin for disposal at TA-54, MDA G.

The total depth of the removal averaged approximately 8 in. (the depth to bedrock). Because the pit was bermed and there is very little soil development in the surrounding area, the outfall pit removal resulted in natural grade being restored.

2.3.2 Data Review

With the exception of 1993 radionuclide data, all inorganic, radionuclide, and organic site data are reviewed in this section to identify any COPCs remaining at SWMU 21-024(f) and AOCs C-21-015 and 21-030 following completion of the VCA. The 1993 radionuclide results (locations 21-01680 and 21-01681) do not have complete data packages to allow an assessment of data quality and are not used quantitatively in this VCA. These results were replaced with data collected in 2001 (locations 21-11294 and 21-11295) to ensure definition of nature and extent and assessment of risk from these sites.

The COPC identification process is conducted by comparing site data with

- naturally occurring Laboratory soil and tuff background concentrations for inorganic chemicals,
- naturally occurring Laboratory soil and tuff background concentrations for non-fallout radionuclides,

- atmospheric fallout background concentrations for those radionuclides present in atmospheric fallout (applies to 0 to 6 in. bgs soil samples only), and
- estimated quantitation limits (EQLs) for organic chemicals.

A subsequent step in the COPC identification process includes statistical analysis of inorganic chemicals and radionuclides data to determine if the site data set is different from or similar to the background data set. The statistical analysis is discussed in detail in Appendix E.

All COPCs identified through the data review are retained for further evaluation in the site assessments presented in Section 2.4. It is important to note the identification and retention of a COPC for further assessment does not explicitly indicate there has been a chemical release due to site activities.

Data from multiple sampling events are used in this report to identify COPCs and confirm the completion of the VCA at SWMU 21-024(f) and the AOCs. This data review includes analytical results for samples collected during the 1992 and 1993 RFIs from locations undisturbed by VCA activities and is therefore representative of current conditions at the site. Also included are data collected as part of the VCA activities in late 2001 and 2002, as well as data from early 2003 collected following an initial review of the VCA data. The analytical suites for the RFI and the VCA confirmation samples varied from location to location and from field campaign to field campaign. In particular, the analytical suites for the VCA confirmation samples collected in late 2001 to 2002 were tailored to specific areas within the site depending upon the results of waste characterization sampling of tank and sump contents. Table 2.3-5 presents a sample-by-sample summary of RFI and VCA sample analytical suites. Note that the early 2003 samples are additional VCA confirmation samples collected to fill potential data gaps for isotopic plutonium and isotopic thorium identified during a preliminary review of the VCA confirmation data.

In total, the confirmation data set is comprised of analytical results from 49 soil samples, 70 tuff (Qbt 3) samples, and 4 fill material samples. All sample results are presented comprehensively in Appendix D. All data are of good quality and sufficient for data assessments and decision-making. Data quality, including a description of data qualifiers, is discussed in Appendix C.

2.3.2.1 Inorganic Chemical Comparison with Background

The inorganic chemical analytical data for SWMU 21-024(f) and AOCs C-21-015 and 21-030 are summarized in Table 2.3-6; the table shows the medium specific Laboratory BV, the concentration range, the frequency of detections greater than the BV, and the frequency of nondetections (detection limits) greater than the BV for each inorganic chemical measured in the site samples. Table 2.3-7 presents sample analytical results for each inorganic chemical that either was detected at concentrations above the BV or had an analytical detection limit (DL) that exceeded the BV.

Several inorganic chemicals were detected at concentrations above medium-specific BVs; however, sample concentrations are in general only slightly elevated (typically 1.5 to 2 times the BV) and none of the analytes were detected above the BV in more than half the samples. The majority of detects above the BV occurred in tuff samples.

Aluminum, barium, calcium, copper, magnesium, and selenium were detected at concentrations greater than BVs in tuff samples only. The sample data for these chemicals were not put through statistical analysis. Because calcium and magnesium are essential nutrients, they are eliminated as COPCs; the other analytes are retained as COPCs.

Oxalate, detected in one sample near the DL, does not have an established BV. However, it is not a historical contaminant at the Laboratory and was not retained as a COPC.

Table 2.3-5
Summary of Samples Collected and Analyses Requested, SWMU 21-024(f) and AOCs C-21-015 and 21-030

Sample ID	Location ID	Depth (ft)	Media	Anions	Metals	Uranium	PCBs	SVOCs	VOCs	Alpha Spectroscopy	Americium-241	Gamma Spectroscopy	Tritium	Isotopic Plutonium	Isotopic Thorium	Isotopic Uranium	Strontium-90
SWMU 21-024(f) 1992 RFI Sampling																	
AAA1095	21-01431	0–0.5	Soil	—[a]	X[b]	X	—	X	X	—	X	X	X	X	X	—	—
AAA1096	21-01431	0.5–1	Soil	—	X	X	—	X	X	—	X	X	X	X	X	—	—
AAA1097	21-01431	1–1.5	Soil	—	X	X	—	X	X	—	X	X	X	X	X	—	—
AAA1100	21-01432	0.5–1	Soil	—	X	X	—	X	X	—	X	X	X	X	X	—	—
AAA1101	21-01432	1–1.5	Soil	—	X	X	—	X	X	—	X	X	X	X	X	—	—
AAA1102	21-01433	0–0.5	Soil	—	X	X	—	X	X	—	X	X	X	X	X	—	—
AAA1103	21-01433	0.5–1	Soil	—	X	X	—	X	X	—	X	X	X	X	X	—	—
AAA1104	21-01433	1–1.5	Soil	—	X	X	—	X	X	—	X	X	X	X	X	—	—
SWMU 21-024(f) 1993 Pit and Septic Tank Borehole Samples																	
AAA4173	21-01680	0–2.5	Qbt 3	—	X	X	—	X	X	X[c]	X[c]	—	—	—	—	—	—
AAA4176	21-01680	2.5–5	Qbt 3	—	X	X	—	X	X	X[c]	X[c]	—	—	—	—	—	—
AAA4177	21-01680	5–7.5	Qbt 3	—	X	X	—	X	X	X[c]	X[c]	—	—	—	—	—	—
AAA4178	21-01680	7.5–10	Qbt 3	—	X	X	—	X	X	X[c]	X[c]	—	—	—	—	—	—
AAA4179	21-01681	0–5	Qbt 3	—	X	X	—	X	X	X[c]	X[c]	—	—	—	—	—	—
AAA4180	21-01681	0–5	Qbt 3	—	X	X	—	X	X	X[c]	X[c]	—	—	—	—	—	—
AAA4181	21-01681	5–10	Qbt 3	—	X	X	—	X	X	X[c]	X[c]	—	—	—	—	—	—
AAA4182	21-01681	10–15	Qbt 3	—	X	X	—	X	X	X[c]	X[c]	—	—	—	—	—	—
AAA4183	21-01681	15–20	Qbt 3	—	X	X	—	X	X	X[c]	X[c]	—	—	—	—	—	—

Table 2.3-5 (continued)

Sample ID	Location ID	Depth (ft)	Media	Anions	Metals	Uranium	PCBs	SVOCs	VOCs	Alpha Spectroscopy	Americium-241	Gamma Spectroscopy	Tritium	Isotopic Plutonium	Isotopic Thorium	Isotopic Uranium	Strontium-90
SWMU 21-024(f) 2001 through 2003 VCA Confirmation Samples																	
MD21-01-0215	21-11273	0.5–1	Soil	X	X	—	—	—	X	—	X	X	X	—	—	—	—
MD21-01-0217	21-11273	2–2.5	Qbt 3	X	X	—	—	—	X	—	X	X	X	—	—	—	—
MD21-01-0218	21-11274	0.5–1	Soil	X	X	—	—	—	X	—	X	X	X	—	—	—	—
MD21-01-0219	21-11274	2–2.5	Qbt 3	X	X	—	—	—	X	—	X	X	X	—	—	—	—
MD21-01-0220	21-11275	0.5–1	Soil	X	X	—	—	—	X	—	X	X	X	—	—	—	—
MD21-01-0221	21-11275	2–2.5	Qbt 3	X	X	—	—	—	X	—	X	X	X	—	—	—	—
MD21-01-0222	21-11276	1–1.5	Soil	X	X	—	—	—	X	—	X	X	X	—	—	—	—
MD21-01-0223	21-11276	1–1.5	Soil	X	X	—	—	—	X	—	X	X	X	—	—	—	—
MD21-01-0224	21-11277	1.5–2	Soil	X	X	—	—	—	X	—	X	X	X	—	—	—	—
MD21-01-0225	21-11277	3–3.5	Qbt 3	X	X	—	—	—	X	—	X	X	X	—	—	—	—
MD21-01-0226	21-11278	4–4.5	Soil	X	X	—	—	—	X	—	X	X	X	—	—	—	—
MD21-01-0227	21-11276	2–2.5	Qbt 3	X	X	—	—	—	X	—	X	X	X	—	—	—	—
MD21-01-0228	21-11278	5.5–6	Soil	X	X	—	—	—	X	—	X	X	X	—	—	—	—
MD21-01-0229	21-11279	2–2.5	Soil	X	X	—	—	—	X	—	X	X	X	—	—	—	—
MD21-01-0230	21-11279	3.5–4	Qbt 3	X	X	—	—	—	X	—	X	X	X	—	—	—	—
MD21-01-0231	21-11280	3–3.5	Soil	X	X	—	—	—	X	—	X	X	X	—	—	—	—
MD21-01-0232	21-11280	4.5–5	Qbt 3	X	X	—	—	—	X	—	X	X	X	—	—	—	—
MD21-01-0234	21-11281	5.5–6	Soil	X	X	—	—	—	X	—	X	X	X	—	—	—	—
MD21-01-0235	21-11281	7–7.5	Qbt 3	X	X	—	—	—	X	—	X	X	X	—	—	—	—
MD21-01-0236	21-11295	8.8–9.8	Qbt 3	X	X	—	—	—	X	—	X	X	X	—	—	—	—

Table 2.3-5 (continued)

Sample ID	Location ID	Depth (ft)	Media	Anions	Metals	Uranium	PCBs	SVOCs	VOCs	Alpha Spectroscopy	Americium-241	Gamma Spectroscopy	Tritium	Isotopic Plutonium	Isotopic Thorium	Isotopic Uranium	Strontium-90
MD21-01-0237	21-11295	12.8–13.8	Qbt 3	X	X	—	—	—	X	—	X	X	X	—	—	—	—
MD21-01-0238	21-11295	17.8–18.8	Qbt 3	X	X	—	—	—	X	—	X	X	X	—	—	—	—
MD21-01-0239	21-11295	27.8–28.8	Qbt 3	X	X	—	—	—	X	—	X	X	X	—	—	—	—
MD21-01-0242	21-11294	4–5	Qbt 3	X	X	—	—	—	X	—	X	—	X	X	X	X	—
MD21-01-0243	21-11294	9–10	Qbt 3	X	X	—	—	—	X	—	X	—	X	X	X	X	—
MD21-01-0244	21-11294	19–20	Qbt 3	X	X	—	—	—	X	—	X	—	X	X	X	X	—
MD21-01-0428	21-11297	0–1	Soil	X	X	—	—	—	—	—	X	—	X	X	X	X	—
MD21-01-0430	21-11298	0.08–0.5	Soil	X	X	—	—	—	—	—	X	—	X	X	X	X	—
MD21-01-0431	21-11296	0–1	Soil	X	X	—	—	—	—	—	X	—	X	X	X	X	—
MD21-01-0433	21-11298	0.5–1	Soil	X	X	—	—	—	—	—	X	X	X	X	X	X	X
MD21-02-0001	21-11429	0.75–1.5	Soil	—	X	—	—	—	—	—	X	—	X	X	X	—	X
MD21-02-0002	21-11430	0.58–0.92	Soil	—	X	—	—	—	—	—	X	—	X	X	X	—	X
MD21-02-0003	21-11431	0.5–0.92	Soil	—	X	—	—	—	—	—	X	—	X	X	X	—	X
MD21-02-0004	21-11432	0.5–0.92	Soil	—	X	—	—	—	—	—	X	—	X	X	X	—	X
MD21-02-0005	21-11433	0.5–0.92	Soil	—	X	—	—	—	—	—	X	—	X	X	X	X	—
MD21-02-0006	21-11434	0.75–0.92	Soil	—	X	—	—	—	—	—	X	—	X	X	X	X	—
MD21-02-0007	21-11435	0.58–0.83	Soil	—	X	—	—	—	—	—	X	—	X	X	X	X	—
MD21-02-0008	21-11435	0.58–0.83	Soil	—	X	—	—	—	—	—	X	—	X	X	X	X	—
MD21-02-0009	21-11436	0.75–1	Soil	—	X	—	—	—	—	—	X	—	X	X	X	X	—
MD21-02-0010	21-11437	0.33–0.66	Soil	—	X	—	—	—	—	—	X	—	X	X	X	X	—
MD21-02-0011	21-11437	0–0.33	Soil	—	X	—	—	—	—	—	X	—	X	X	X	X	—

Table 2.3-5 (continued)

Sample ID	Location ID	Depth (ft)	Media	Anions	Metals	Uranium	PCBs	SVOCs	VOCs	Alpha Spectroscopy	Americium-241	Gamma Spectroscopy	Tritium	Isotopic Plutonium	Isotopic Thorium	Isotopic Uranium	Strontium-90
MD21-02-0012	21-11438	0.33–0.66	Soil	—	X	—	—	—	—	—	X	—	X	X	X	X	—
MD21-02-0013	21-11438	0.66–0.98	Soil	—	X	—	—	—	—	—	X	—	X	X	X	X	—
MD21-02-0014	21-11439	0–0.33	Soil	—	X	—	—	—	—	—	X	—	X	X	X	X	—
MD21-02-0015	21-11439	0.66–0.98	Soil	—	X	—	—	—	—	—	X	—	X	X	X	X	—
MD21-03-50279	21-11273	0.5–1	Qbt 3	—	—	—	—	—	—	—	—	—	—	X	—	—	—
MD21-03-50280	21-11273	2–2.5	Qbt 3	—	—	—	—	—	—	—	—	—	—	X	—	—	—
MD21-03-50281	21-11274	0.5–1	Qbt 3	—	—	—	—	—	—	—	—	—	—	X	—	—	—
MD21-03-50282	21-11274	2–2.5	Qbt 3	—	—	—	—	—	—	—	—	—	—	X	—	—	—
MD21-03-50283	21-11276	1–1.5	Qbt 3	—	—	—	—	—	—	—	—	—	—	X	—	—	—
MD21-03-50284	21-11276	2.5–3	Qbt 3	—	—	—	—	—	—	—	—	—	—	X	—	—	—
MD21-03-50285	21-03-21704	0–0.2	Soil	—	—	—	—	—	—	—	—	—	—	X	—	—	—
MD21-03-50286	21-11275	0.5–1	Qbt 3	—	—	—	—	—	—	—	—	—	—	X	—	—	—
MD21-03-50287	21-11275	2–2.5	Qbt 3	—	—	—	—	—	—	—	—	—	—	X	—	—	—
MD21-03-50288	21-11277	1.5–2	Qbt 3	—	—	—	—	—	—	—	—	—	—	X	—	—	—
MD21-03-50289	21-11277	1.5–2	Qbt 3	—	—	—	—	—	—	—	—	—	—	X	—	—	—
MD21-03-50290	21-11277	3–3.5	Qbt 3	—	—	—	—	—	—	—	—	—	—	X	—	—	—
MD21-03-50292	21-11280	1.5–2	Qbt 3	—	—	—	—	—	—	—	—	—	—	X	—	—	—
MD21-03-50293	21-11439	0–0.5	Soil	—	—	—	—	—	—	—	—	—	—	X	—	—	—
MD21-03-50294	21-11439	0–0.5	Soil	—	—	—	—	—	—	—	—	—	—	X	—	—	—
MD21-03-50295	21-11280	3–3.5	Qbt 3	—	—	—	—	—	—	—	—	—	—	X	—	—	—
MD21-03-50296	21-11279	2–2.5	Qbt 3	—	—	—	—	—	—	—	—	—	—	X	—	—	—

Table 2.3-5 (continued)

Sample ID	Location ID	Depth (ft)	Media	Anions	Metals	Uranium	PCBs	SVOCs	VOCs	Alpha Spectroscopy	Americium-241	Gamma Spectroscopy	Tritium	Isotopic Plutonium	Isotopic Thorium	Isotopic Uranium	Strontium-90
MD21-03-50297	21-11279	3.5–4	Qbt 3	—	—	—	—	—	—	—	—	—	—	X	—	—	—
MD21-03-50298	21-11281	9–9.5	Qbt 3	—	—	—	—	—	—	—	—	—	—	X	—	—	—
MD21-03-50299	21-11281	10.5–11	Qbt 3	—	—	—	—	—	—	—	—	—	—	X	—	—	—
MD21-03-50300	21-11439	0–0.5	Soil	—	—	—	—	—	—	—	—	—	—	—	X	—	—
AOC 21-030 2001 through 2003 VCA Confirmation Samples																	
MD21-01-0283	21-11282	1.5–2	Soil	X	X	—	X	X	—	—	—	X	—	—	—	—	X
MD21-01-0284	21-11282	3–3.5	Qbt 3	X	X	—	X	X	—	—	—	X	—	—	—	—	X
MD21-01-0285	21-11283	1.5–2	Soil	X	X	—	X	X	—	—	—	X	—	—	—	—	X
MD21-01-0286	21-11283	3–3.5	Qbt 3	X	X	—	X	X	—	—	—	X	—	—	—	—	X
MD21-01-0287	21-11284	1.5–2	Soil	X	X	—	X	X	—	—	—	X	—	—	—	—	X
MD21-01-0288	21-11284	3–3.5	Qbt 3	X	X	—	X	X	—	—	—	X	—	—	—	—	X
MD21-01-0289	21-11285	1.5–2	Soil	X	X	—	X	X	—	—	—	X	—	—	—	—	X
MD21-01-0290	21-11285	3–3.5	Qbt 3	X	X	—	X	X	—	—	—	X	—	—	—	—	X
MD21-01-0291	21-11286	1.5–2	Soil	X	X	—	X	X	—	—	—	X	—	—	—	—	X
MD21-01-0292	21-11286	3–3.5	Qbt 3	X	X	—	X	X	—	—	—	X	—	—	—	—	X
MD21-01-0293	21-11287	1.5–2	Soil	X	X	—	X	X	—	—	—	X	—	—	—	—	X
MD21-01-0294	21-11287	3–3.5	Qbt 3	X	X	—	X	X	—	—	—	X	—	—	—	—	X
MD21-01-0295	21-11288	1.5–2	Soil	X	X	—	X	X	—	—	—	X	—	—	—	—	X
MD21-01-0296	21-11288	3–3.5	Qbt 3	X	X	—	X	X	—	—	—	X	—	—	—	—	X
MD21-01-0532	21-11291	4–5	Qbt 3	X	X	—	X	X	—	—	—	X	—	—	—	—	X
MD21-01-0533	21-11291	9–10	Qbt 3	X	X	—	X	X	—	—	—	X	—	—	—	—	X

Table 2.3-5 (continued)

Sample ID	Location ID	Depth (ft)	Media	Anions	Metals	Uranium	PCBs	SVOCs	VOCs	Alpha Spectroscopy	Americium-241	Gamma Spectroscopy	Tritium	Isotopic Plutonium	Isotopic Thorium	Isotopic Uranium	Strontium-90
MD21-01-0534	21-11291	14–15	Qbt 3	X	X	—	X	X	—	—	—	X	—	—	—	—	X
MD21-01-0535	21-11291	14–15	Qbt 3	X	X	—	X	X	—	—	—	X	—	—	—	—	X
MD21-01-0536	21-11291	24–25	Qbt 3	X	X	—	X	X	—	—	—	X	—	—	—	—	X
MD21-01-0537	21-11292	4–5	Qbt 3	X	X	—	X	X	—	—	—	X	—	—	—	—	X
MD21-01-0538	21-11292	9–10	Qbt 3	X	X	—	X	X	—	—	—	X	—	—	—	—	X
MD21-01-0539	21-11292	14–15	Qbt 3	X	X	—	X	X	—	—	—	X	—	—	—	—	X
MD21-01-0540	21-11292	24–25	Qbt 3	X	X	—	X	X	—	—	—	X	—	—	—	—	X
MD21-02-49498	21-11287	1–1.5	Qbt 3	—	—	—	—	—	—	—	—	—	X	X	—	—	—
MD21-02-49499	21-11287	2.5–3	Qbt 3	—	—	—	—	—	—	—	—	—	X	X	—	—	—
MD21-02-49503	21-11291	2.5–2.75	Qbt 3	—	—	—	—	—	—	—	—	—	X	X	—	—	—
MD21-02-49504	21-11291	3.75–4.25	Qbt 3	—	—	—	—	—	—	—	—	—	X	X	—	—	—
MD21-02-49505	21-11283	1.5–2	Qbt 3	—	—	—	—	—	—	—	—	—	X	X	—	—	—
MD21-02-49506	21-11283	3–3.5	Qbt 3	—	—	—	—	—	—	—	—	—	X	X	—	—	—
MD21-02-49507	21-11284	1.75–2.5	Qbt 3	—	—	—	—	—	—	—	—	—	X	X	—	—	—
MD21-02-49508	21-11284	1.75–2.5	Qbt 3	—	—	—	—	—	—	—	—	—	X	X	—	—	—
MD21-02-49509	21-11284	3.5–4	Qbt 3	—	—	—	—	—	—	—	—	—	X	X	—	—	—
AOC C-21-015 2001 through 2003 VCA Confirmation Samples																	
MD21-01-0541	21-11293	0–0.5	Fill	X	X	—	X	X	—	—	—	X	—	—	—	—	X
MD21-01-0542	21-11290	0–0.5	Fill	X	X	—	X	X	—	—	—	X	—	—	—	—	X
MD21-01-0543	21-11289	0–0.5	Fill	X	X	—	X	X	—	—	—	X	—	—	—	—	X
MD21-02-0021	21-11449	1.5–2.5	Qbt 3	X	X	—	—	X	—	—	X	X	X	—	—	—	—

Table 2.3-5 (continued)

Sample ID	Location ID	Depth (ft)	Media	Anions	Metals	Uranium	PCBs	SVOCs	VOCs	Alpha Spectroscopy	Americium-241	Gamma Spectroscopy	Tritium	Isotopic Plutonium	Isotopic Thorium	Isotopic Uranium	Strontium-90
MD21-02-0022	21-11450	1.5–2.5	Qbt 3	X	X	—	—	X	—	—	X	X	X	—	—	—	—
MD21-02-0023	21-11451	1.5–2.5	Qbt 3	X	X	—	—	X	—	—	X	X	X	—	—	—	—
MD21-02-49501	21-11293	0–0.5	Fill	—	—	—	—	—	—	—	—	—	X	X	—	—	—
MD21-02-49502	21-11293	1.5–2	Qbt 3	—	—	—	—	—	—	—	—	—	X	X	—	—	—

[a] — = The sample was not requested for a given suite.

[b] X = The sample was requested/analyzed for a given suite.

[c] Due to a lack of adequate laboratory documentation, radionuclide data from 1993 samples were not used in quantitative data assessments (i.e., data review and risk assessment). Sample results were replaced with more recent results from boreholes drilled in the pit and tank footprint (locations 21-11295 and 21-11294).

Table 2.3-6
Frequency of Detected Inorganic Chemicals at SWMU 21-024(f) and AOCs C-21-015 and 21-030

Analyte	Media	Number of Analyses	Number of Detections	Concentration Range (mg/kg)[a]	Background Value[b] (mg/kg)	Frequency of Detections Above BV	Frequency of Non-detections Above BV
Aluminum	Soil	45	45	280 to 22100	29200	0/45	0/45
Aluminum	Fill	3	3	10470 to 15030	29200	0/3	0/3
Aluminum	Qbt 3	43	43	175 to 15000	7340	9/43	0/43
Antimony	Soil	45	6	[0.021 to 6.4]	0.83	0/45	8/45
Antimony	Fill	3	0	[0.114 to 0.13]	0.83	0/3	0/3
Antimony	Qbt 3	40	2	[0.019] to [0.406]	0.5	0/40	0/40
Arsenic	Soil	45	45	0.69 to 3.3	8.17	0/45	0/45
Arsenic	Fill	3	3	3.02 to 4.02	8.17	0/3	0/3
Arsenic	Qbt 3	43	39	0.66 to 4.56	2.79	9/43	0/43
Barium	Soil	45	45	6.67 to 233	295	0/45	0/45
Barium	Fill	3	3	130 to 192	295	0/3	0/3
Barium	Qbt 3	43	42	4.39 to 280	46	12/43	0/43
Beryllium	Soil	45	45	0.172 to 1.41	1.83	0/45	0/45
Beryllium	Fill	3	3	0.785 to 1.35	1.83	0/3	0/3
Beryllium	Qbt 3	43	38	0.0502 to 1.9	1.21	2/43	0/43
Cadmium	Soil	45	27	[0.04] to 1.6	0.4	5/45	2/45
Cadmium	Fill	3	3	0.0426 to 0.0739	0.4	0/3	0/3
Cadmium	Qbt 3	43	7	0.0085 to [0.66]	1.63	0/43	0/43
Calcium	Soil	45	45	167 to 3570	6120	0/45	0/45
Calcium	Fill	3	3	2640 to 4700	6120	0/3	0/3
Calcium	Qbt 3	43	42	71.3 to 12600	2200	9/43	0/43
Chromium	Soil	45	39	0.942 to 15.3	19.3	0/45	0/45
Chromium	Fill	3	3	6.84 to 10.7	19.3	0/3	0/3
Chromium	Qbt 3	40	38	0.751 to 14.5	7.14	7/40	0/40
Cobalt	Soil	45	39	0.159 to 5.1	8.64	0/45	0/45
Cobalt	Fill	3	3	3.65 to 4.34	8.64	0/3	0/3
Cobalt	Qbt 3	40	31	0.0789 to 3.25	3.14	1/40	40
Copper	Soil	45	45	0.863 to 7.7	14.7	0/45	0/45
Copper	Fill	3	3	6 to 6.95	14.7	0/3	0/3
Copper	Qbt 3	43	40	[0.62] to 12	4.66	6/43	0/43
Iron	Soil	45	45	2250 to 16700	21500	0/45	0/45
Iron	Fill	3	3	10330 to 12670	21500	0/3	0/3
Iron	Qbt 3	43	43	1960 to 12700	14500	0/43	0/43
Lead	Soil	45	45	1.84 to 23.1	22.3	2/45	0/45

Table 2.3-6 (continued)

Analyte	Media	Number of Analyses	Number of Detections	Concentration Range (mg/kg)	Background Value (mg/kg)	Frequency of Detections Above BV	Frequency of Non-detections Above BV
Lead	Fill	3	3	31.9 to 35.3	22.3	3/3	0/3
Lead	Qbt 3	43	43	0.267 to 16.8	11.2	4/43	0/43
Lithium	Soil	34	25	1.9 to 19.4	NA[c]	25/34	NA
Lithium	Qbt 3	24	20	1 to 14.6	NA	20/24	NA
Magnesium	Soil	45	45	131 to 2830	4610	0/45	0/45
Magnesium	Fill	3	3	2010 to 2790	4610	0/3	0/3
Magnesium	Qbt 3	43	42	78 to 3350	1690	6/43	0/43
Manganese	Soil	45	45	99.4 to 365	671	0/45	0/45
Manganese	Fill	3	3	200 to 315	671	0/3	0/3
Manganese	Qbt 3	40	40	27.7 to 362	482	0/40	0/40
Mercury	Soil	37	24	0.01 to 2.13	0.1	11/37	0/37
Mercury	Fill	3	3	0.0247 to 0.0348	0.1	0/3	0/3
Mercury	Qbt 3	34	28	0.00387 to 0.35	0.1	1/34	0/34
Molybdenum	Soil	8	0	[4.8 to 5.3][c]	NA	0/8	NA
Molybdenum	Qbt 3	9	0	[6 to 6.4]	NA	0/9	NA
Nickel	Soil	45	45	1.57 to 10.3	15.4	0/45	0/45
Nickel	Fill	3	3	6.690001 to 8.21	15.4	0/3	0/3
Nickel	Qbt 3	43	34	0.53 to [8.5]	6.58	3/43	3/43
Oxalate	Fill	3	1	0.931 to [0.978]	NA	1/3	NA
Oxalate	Qbt 3	9	0	[0.895 to 0.923]	NA	0/9	NA
Perchlorate	Soil	18	0	[0.015 to 0.0416]	NA	0/18	NA
Perchlorate	Fill	3	1	0.153 to [0.161]	NA	1/3	NA
Perchlorate	Qbt 3	31	10	0.0125 to [0.154]	NA	10/31	NA
Potassium	Soil	45	44	110 to 1870	3460	0/45	0/45
Potassium	Fill	3	3	1320 to 1570	3460	0/3	0/3
Potassium	Qbt 3	43	36	60 to 1630	3500	0/43	0/43
Selenium	Soil	45	7	[0.096] to 0.673	1.52	0/45	0/45
Selenium	Fill	3	0	[0.476 to 0.494]	1.52	0/3	0/3
Selenium	Qbt 3	43	8	0.14 to [0.507]	0.3	7/43	33/43
Silver	Soil	45	18	[0.001 to 0.68]	1	0/45	0/45
Silver	Fill	3	3	0.0103 to 0.0167	1	0/3	0/3
Silver	Qbt 3	43	16	[0.001] to [1.1]	1	0/43	5/43
Sodium	Soil	45	31	59.5 to 350	915	0/45	0/45
Sodium	Fill	3	3	113 to 230	915	0/3	0/3
Sodium	Qbt 3	34	34	32 to 865	2770	0/34	0/34
Strontium	Soil	38	38	1.03 to 29.9	NA	38/38	NA

Table 2.3-6 (continued)

Analyte	Media	Number of Analyses	Number of Detections	Concentration Range (mg/kg)	Background Value (mg/kg)	Frequency of Detections Above BV	Frequency of Non-detections Above BV
Strontium	Qbt 3	24	23	0.43 to 62	NA	23/24	NA
Thallium	Soil	45	28	[0.004] to 0.47	0.73	0/45	0/45
Thallium	Fill	3	3	0.143 to 0.188	0.73	0/3	0/3
Thallium	Qbt 3	43	28	[0.004] to 0.75	1.1	0/43	0/43
Uranium	Soil	8	8	3.3 to 5.4	1.82	8/8	0/8
Vanadium	Soil	45	45	0.999 to 25.5	39.6	0/45	0/45
Vanadium	Fill	3	3	15.4 to 17.9	39.6	0/3	0/3
Vanadium	Qbt 3	43	41	0.439 to 15	17	0/43	0/43
Zinc	Soil	45	45	20.4 to 130	48.8	1/45	0/45
Zinc	Fill	3	3	26.1 to 30.6	48.8	0/3	0/3
Zinc	Qbt 3	43	43	6.53 to 192	63.5	1/43	0/43

Note: Samples with field duplicates are counted as one result.

[a] Square brackets indicate detection limits for nondetected analytical results.

[b] Source: LANL (1998, 59730).

[c] NA = No background value is available.

Table 2.3-7
Inorganic Chemicals Detected above Background at SWMU 21-024(f) and AOCs C-21-015 and 21-030

Sample ID	Location ID	Depth (ft)	Media	Sample QC Type	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Lead	Lithium
Soil and Fill BV[a] (mg/kg)					**29200**	**0.83**	**8.17**	**295**	**1.83**	**0.4**	**6120**	**19.3**	**8.64**	**14.7**	**22.3**	**NA[b]**
Qbt 2,3,4 BV (mg/kg)					**7340**	**0.5**	**2.79**	**46**	**1.21**	**1.63**	**2200**	**7.14**	**3.14**	**4.66**	**11.2**	**NA**
SWMU 21-024(f)																
AAA1095	21-01431	0.00–0.50	Soil	N[c]	—[d]	6.3 (U)[e]	—	—	—	1.6	—	—	—	—	—	10.2
AAA1096	21-01431	0.50–1.00	Soil	N	—	6.4 (U)	—	—	—	0.45 (U)	—	—	—	—	—	3.1
AAA1097	21-01431	1.00–1.50	Soil	N	—	5.9 (U)	—	—	—	0.42 (U)	—	—	—	—	—	1.9
AAA1100	21-01432	0.50–1.00	Soil	N	—	6 (U)	—	—	—	0.93	—	—	—	—	—	4.9
AAA1101	21-01432	1.00–1.50	Soil	N	—	5.8 (U)	—	—	—	—	—	—	—	—	—	2.5
AAA1102	21-01433	0.00–0.50	Soil	N	—	6.1 (U)	—	—	—	0.88	—	—	—	—	—	5.6
AAA1103	21-01433	0.50–1.00	Soil	N	—	5.9 (U)	—	—	—	0.62	—	—	—	—	—	2.8
AAA1104	21-01433	1.00–1.50	Soil	N	—	6 (U)	—	—	—	0.61	—	—	—	—	—	3
AAA4173	21-01680	0.00–2.50	Qbt 3	N	—	—	—	—	—	—	—	—	—	—	—	—
AAA4176	21-01680	2.50–5.00	Qbt 3	N	7750	—	—	62.7	1.9	—	8340	14.5	—	9.8	—	—
AAA4177	21-01680	5.00–7.50	Qbt 3	N	11400	—	3.4	280	1.9	—	10600	7.6	—	12	—	—
AAA4178	21-01680	7.50–10.00	Qbt 3	N	8390	—	3.7	188	—	—	12600	—	—	7.3	—	—
AAA4179	21-01681	0.00–5.00	Qbt 3	N	—	—	—	—	—	—	—	—	—	—	—	8.4
AAA4180	21-01681	0.00–5.00	Qbt 3	N	—	—	—	—	—	—	—	—	—	7.9	—	3.9
AAA4181	21-01681	5.00–10.00	Qbt 3	N	—	—	—	—	—	—	—	—	—	—	—	10.9
AAA4182	21-01681	10.00–15.00	Qbt 3	N	—	—	—	—	—	—	—	—	—	—	—	5.5
AAA4183	21-01681	15.00–20.00	Qbt 3	N	—	—	—	—	—	—	—	—	—	—	—	1.3
MD21-01-0215	21-11273	0.50–1.00	Soil	N	—	—	—	—	—	—	—	—	—	—	—	5.23
MD21-01-0217	21-11273	2.00–2.50	Qbt 3	N	7510	—	—	47.8 (J+)[h]	—	—	—	—	—	—	—	5.34
MD21-01-0218	21-11274	0.50–1.00	Soil	N	—	—	—	—	—	—	—	—	—	—	—	2.29
MD21-01-0219	21-11274	2.00–2.50	Qbt 3	N	—	—	—	—	—	—	—	—	—	—	—	1.53 (J)[f]
MD21-01-0220	21-11275	0.50–1.00	Soil	N	—	—	—	—	—	—	—	—	—	—	—	5.08

Table 2.3-7 (continued)

Sample ID	Location ID	Depth (ft)	Media	Sample QC Type	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Lead	Lithium
Soil and Fill BV (mg/kg)					**29200**	**0.83**	**8.17**	**295**	**1.83**	**0.4**	**6120**	**19.3**	**8.64**	**14.7**	**22.3**	**NA**
Qbt 2,3,4 BV (mg/kg)					**7340**	**0.5**	**2.79**	**46**	**1.21**	**1.63**	**2200**	**7.14**	**3.14**	**4.66**	**11.2**	**NA**
MD21-01-0221	21-11275	2.00–2.50	Qbt 3	N	—	—	—	—	—	—	—	8.73	—	—	—	4.65
MD21-01-0222	21-11276	1.00–1.50	Soil	N	—	—	—	—	—	—	—	—	—	—	—	5.54
MD21-01-0223	21-11276	1.00–1.50	Soil	FD[9]	—	—	—	—	—	—	—	—	—	—	—	5.16
MD21-01-0227	21-11276	2.00–2.50	Qbt 3	N	—	—	—	—	—	—	—	—	—	—	—	2.93
MD21-01-0224	21-11277	1.50–2.00	Soil	N	—	—	—	—	—	—	—	—	—	—	—	7.45
MD21-01-0225	21-11277	3.00–3.50	Qbt 3	N	—	—	—	—	—	—	—	—	—	—	—	3.96
MD21-01-0226	21-11278	4.00–4.50	Soil	N	—	—	—	—	—	—	—	—	—	—	—	10.1
MD21-01-0228	21-11278	5.50–6.00	Soil	N	—	—	—	—	—	—	—	—	—	—	—	9.25
MD21-01-0229	21-11279	2.00–2.50	Soil	N	—	—	—	—	—	—	—	—	—	—	—	8.92
MD21-01-0230	21-11279	3.50–4.00	Qbt 3	N	—	—	—	—	—	—	—	—	—	—	—	6.25
MD21-01-0231	21-11280	3.00–3.50	Soil	N	—	—	—	—	—	—	—	—	—	—	—	5.96
MD21-01-0232	21-11280	4.50–5.00	Qbt 3	N	—	—	2.87	117 (J+)	—	—	3990 (J+)	8.89	—	—	—	5.78
MD21-01-0234	21-11281	5.50–6.00	Soil	N	—	—	—	—	—	—	—	—	—	—	—	7.44
MD21-01-0235	21-11281	7.00–7.50	Qbt 3	N	9690	—	3.26	81.1 (J+)	—	—	3160 (J+)	7.17	—	4.69	—	6.94
MD21-01-0242	21-11294	4.00–5.00	Qbt 3	N	—	—	—	—	—	—	—	—	—	—	—	1.1 (J)
MD21-01-0243	21-11294	9.00–10.00	Qbt 3	N	—	—	—	—	—	—	—	—	—	—	—	1.1 (J)
MD21-01-0244	21-11294	19.00–20.00	Qbt 3	N	—	—	—	—	—	—	—	—	—	—	—	1 (J)
MD21-01-0236	21-11295	8.80–9.80	Qbt 3	N	—	—	—	—	—	—	—	—	—	—	—	14.6
MD21-01-0237	21-11295	12.80–13.80	Qbt 3	N	—	—	—	—	—	—	—	—	—	—	—	3.59
MD21-01-0238	21-11295	17.80–18.80	Qbt 3	N	—	—	—	—	—	—	—	—	—	—	—	13.2
MD21-01-0239	21-11295	27.80–28.80	Qbt 3	N	—	—	—	—	—	—	—	—	—	—	—	5.29
MD21-01-0431	21-11296	0.00–1.00	Soil	N	—	—	—	—	—	—	—	—	—	—	—	—
MD21-01-0428	21-11297	0.00–1.00	Soil	N	—	—	—	—	—	—	—	—	—	—	22.9	—

Table 2.3-7 (continued)

Sample ID	Location ID	Depth (ft)	Media	Sample QC Type	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Lead	Lithium
Soil and Fill BV (mg/kg)					**29200**	**0.83**	**8.17**	**295**	**1.83**	**0.4**	**6120**	**19.3**	**8.64**	**14.7**	**22.3**	**NA**
Qbt 2,3,4 BV (mg/kg)					**7340**	**0.5**	**2.79**	**46**	**1.21**	**1.63**	**2200**	**7.14**	**3.14**	**4.66**	**11.2**	**NA**
MD21-01-0430	21-11298	0.08–0.50	Soil	N	—	—	—	—	—	—	—	—	—	—	23.1	—
MD21-01-0433	21-11298	0.50–1.00	Soil	N	—	—	—	—	—	—	—	—	—	—	—	—
MD21-02-0001	21-11429	0.75–1.50	Soil	N	—	—	—	—	—	—	—	—	—	—	—	—
MD21-02-0002	21-11430	0.58–0.92	Soil	N	—	—	—	—	—	—	—	—	—	—	—	—
MD21-02-0003	21-11431	0.50–0.92	Soil	N	—	—	—	—	—	—	—	—	—	—	—	18.3
MD21-02-0004	21-11432	0.50–0.92	Soil	N	—	—	—	—	—	—	—	—	—	—	—	19.4
MD21-02-0005	21-11433	0.50–0.92	Soil	N	—	—	—	—	—	—	—	—	—	—	—	—
MD21-02-0006	21-11434	0.75–0.92	Soil	N	—	—	—	—	—	—	—	—	—	—	—	10.5
MD21-02-0007	21-11435	0.58–0.83	Soil	N	—	—	—	—	—	—	—	—	—	—	—	13.4
MD21-02-0008	21-11435	0.58–0.83	Soil	FD[9]	—	—	—	—	—	—	—	—	—	—	—	13.5
MD21-02-0009	21-11436	0.75–1.00	Soil	N	—	—	—	—	—	—	—	—	—	—	—	8.9
MD21-02-0011	21-11437	0.00–0.33	Soil	N	—	—	—	—	—	—	—	—	—	—	—	—
MD21-02-0010	21-11437	0.33–0.66	Soil	N	—	—	—	—	—	—	—	—	—	—	—	—
MD21-02-0012	21-11438	0.33–0.66	Soil	N	—	—	—	—	—	—	—	—	—	—	—	—
MD21-02-0013	21-11438	0.66–0.98	Soil	N	—	—	—	—	—	—	—	—	—	—	—	—
MD21-02-0014	21-11439	0.00–0.33	Soil	N	—	—	—	—	—	—	—	—	—	—	—	—
MD21-02-0015	21-11439	0.66–0.98	Soil	N	—	—	—	—	—	—	—	—	—	—	—	—
AOC 21-030																
MD21-01-0283	21-11282	1.50–2.00	Soil	N	—	—	—	—	—	—	—	—	—	—	—	—
MD21-01-0284	21-11282	3.00–3.50	Qbt 3	N	—	—	—	—	—	—	—	—	—	—	—	—
MD21-01-0285	21-11283	1.50–2.00	Soil	N	—	—	—	—	—	—	—	—	—	—	—	—
MD21-01-0286	21-11283	3.00–3.50	Qbt 3	N	—	—	3.01	—	—	—	—	—	—	—	—	—
MD21-01-0287	21-11284	1.50–2.00	Soil	N	—	—	—	—	—	—	—	—	—	—	—	—
MD21-01-0288	21-11284	3.00–3.50	Qbt 3	N	15000	—	3.96	101 (J+)	—	—	2500 (J)	7.95 (J)	3.25	—	—	—

Table 2.3-7 (continued)

Sample ID	Location ID	Depth (ft)	Media	Sample QC Type	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Lead	Lithium
Soil and Fill BV (mg/kg)					**29200**	**0.83**	**8.17**	**295**	**1.83**	**0.4**	**6120**	**19.3**	**8.64**	**14.7**	**22.3**	**NA**
Qbt 2,3,4 BV (mg/kg)					**7340**	**0.5**	**2.79**	**46**	**1.21**	**1.63**	**2200**	**7.14**	**3.14**	**4.66**	**11.2**	**NA**
MD21-01-0289	21-11285	1.50–2.00	Soil	N	—	—	—	—	—	—	—	—	—	—	—	—
MD21-01-0290	21-11285	3.00–3.50	Qbt 3	N	—	—	—	—	—	—	—	—	—	—	—	—
MD21-01-0291	21-11286	1.50–2.00	Soil	N	—	—	—	—	—	—	—	—	—	—	—	—
MD21-01-0292	21-11286	3.00–3.50	Qbt 3	N	—	—	4.56	—	—	—	—	—	—	—	—	—
MD21-01-0293	21-11287	1.50–2.00	Soil	N	—	—	—	—	—	—	—	—	—	—	—	—
MD21-01-0294	21-11287	3.00–3.50	Qbt 3	N	8700	—	2.97	83 (J+)	—	—	2290 (J)	9.24 (J)	—	9.45	—	—
MD21-01-0295	21-11288	1.50–2.00	Soil	N	—	—	—	—	—	—	—	—	—	—	—	—
MD21-01-0296	21-11288	3.00–3.50	Qbt 3	N	—	—	—	47.4 (J+)	—	—	—	—	—	—	—	—
MD21-01-0532	21-11291	4.00–5.00	Qbt 3	N	—	—	3.01	—	—	—	—	—	—	—	14.8 (J)	—
MD21-01-0533	21-11291	9.00–10.00	Qbt 3	N	—	—	—	—	—	—	—	—	—	—	16.8 (J)	—
MD21-01-0534	21-11291	14.00–15.00	Qbt 3	N	—	—	—	—	—	—	—	—	—	—	16.3 (J)	—
MD21-01-0535	21-11291	14.00–15.00	Qbt 3	N	—	—	—	—	—	—	—	—	—	—	15.3 (J)	—
MD21-01-0536	21-11291	24.00–25.00	Qbt 3	N	—	—	—	85.5	—	—	—	—	—	—	—	—
MD21-01-0537	21-11292	4.00–5.00	Qbt 3	N	—	—	—	—	—	—	—	—	—	—	—	—
MD21-01-0538	21-11292	9.00–10.00	Qbt 3	N	—	—	—	—	—	—	—	—	—	—	—	—
MD21-01-0539	21-11292	14.00–15.00	Qbt 3	N	—	—	—	—	—	—	—	—	—	—	—	—
MD21-01-0540	21-11292	24.00–25.00	Qbt 3	N	—	—	—	—	—	—	—	—	—	—	—	—
AOC C-21-015																
MD21-02-0021	21-11449	1.50–2.50	Qbt 3	N	8560	—	—	80.9 (J)	—	—	4290 (J)	—	—	—	—	—
MD21-02-0023	21-11451	1.50–2.50	Qbt 3	N	12700	—	—	94.4 (J)	—	—	3640 (J)	—	—	—	—	—
MD21-01-0541	21-11293	0.00–0.50	Fill	N	—	—	—	—	—	—	—	—	—	—	35 (J)	—
MD21-01-0543	21-11289	0.00–0.50	Fill	N	—	—	—	—	—	—	—	—	—	—	35.3 (J)	—
MD21-01-0542	21-11290	0.00–0.50	Fill	N	—	—	—	—	—	—	—	—	—	—	31.9 (J)	—

Table 2.3-7 (continued)

Sample ID	Location ID	Depth (ft)	Media	Sample QC Type	Magnesium	Mercury	Nickel	Oxalate	Perchlorate	Selenium	Silver	Strontium	Uranium	Zinc
Soil and Fill BV (mg/kg)					**4610**	**0.1**	**15.4**	**NA**	**NA**	**1.52**	**1**	**NA**	**1.82**	**48.8**
Qbt 2,3,4 BV (mg/kg)					**1690**	**0.1**	**6.58**	**NA**	**NA**	**0.3**	**1**	**NA**	**2.22**	**63.5**
SWMU 21-024(f)														
AAA1095	21-01431	0.00–0.50	Soil	N	—	—	—	—	—	—	—	25.5	4.6	—
AAA1096	21-01431	0.50–1.00	Soil	N	—	—	—	—	—	—	—	4.2	3.3	—
AAA1097	21-01431	1.00–1.50	Soil	N	—	—	—	—	—	—	—	1.7	3.7	—
AAA1100	21-01432	0.50–1.00	Soil	N	—	—	—	—	—	—	—	3.8	4.3	—
AAA1101	21-01432	1.00–1.50	Soil	N	—	—	—	—	—	—	—	1.7	3.5	—
AAA1102	21-01433	0.00–0.50	Soil	N	—	—	—	—	—	—	—	12.6	5.4	—
AAA1103	21-01433	0.50–1.00	Soil	N	—	—	—	—	—	—	—	5.4	3.7	—
AAA1104	21-01433	1.00–1.50	Soil	N	—	—	—	—	—	—	—	4	3.4	—
AAA4173	21-01680	0.00–2.50	Qbt 3	N	—	—	—	—	—	0.41 (UJ)	—	—	—	—
AAA4176	21-01680	2.50–5.00	Qbt 3	N	1910	—	7.1 (U)	—	—	0.42 (UJ)	1.1 (U)	32.3	—	—
AAA4177	21-01680	5.00–7.50	Qbt 3	N	3350	—	8.5 (U)	—	—	0.43 (U)	1.1 (U)	62	—	—
AAA4178	21-01680	7.50–10.00	Qbt 3	N	2770	—	7.6 (U)	—	—	0.44 (UJ)	1.1 (U)	58.5	—	—
AAA4179	21-01681	0.00–5.00	Qbt 3	N	—	—	—	—	—	0.42	—	1.3	—	—
AAA4180	21-01681	0.00–5.00	Qbt 3	N	—	—	—	—	—	0.41 (U)	—	1.5	—	—
AAA4181	21-01681	5.00–10.00	Qbt 3	N	—	—	—	—	—	0.42 (U)	—	1	—	—
AAA4182	21-01681	10.00–15.00	Qbt 3	N	—	—	—	—	—	0.42 (U)	1.1 (U)	1.3	—	—
AAA4183	21-01681	15.00–20.00	Qbt 3	N	—	—	—	—	—	0.42 (U)	1.1 (U)	1	—	—
MD21-01-0215	21-11273	0.50–1.00	Soil	N	—	0.139	—	—	—	—	—	9.55	—	—
MD21-01-0217	21-11273	2.00–2.50	Qbt 3	N	—	—	—	—	—	0.351 (U)	—	14.9	—	—
MD21-01-0218	21-11274	0.50–1.00	Soil	N	—	—	—	—	—	—	—	3.3	—	—
MD21-01-0219	21-11274	2.00–2.50	Qbt 3	N	—	—	—	—	—	0.34 (U)	—	0.839	—	—

Table 2.3-7 (continued)

Sample ID	Location ID	Depth (ft)	Media	Sample QC Type	Magnesium	Mercury	Nickel	Oxalate	Perchlorate	Selenium	Silver	Strontium	Uranium	Zinc
Soil and Fill BV (mg/kg)					**4610**	**0.1**	**15.4**	**NA**	**NA**	**1.52**	**1**	**NA**	**1.82**	**48.8**
Qbt 2,3,4 BV (mg/kg)					**1690**	**0.1**	**6.58**	**NA**	**NA**	**0.3**	**1**	**NA**	**2.22**	**63.5**
MD21-01-0220	21-11275	0.50–1.00	Soil	N	—	0.16 (J-)[i]	—	—	—	—	—	13	—	—
MD21-01-0221	21-11275	2.00–2.50	Qbt 3	N	—	—	—	—	—	0.336 (U)	—	8.05	—	—
MD21-01-0222	21-11276	1.00–1.50	Soil	N	—	0.234 (J-)	—	—	—	—	—	12.4	—	—
MD21-01-0223	21-11276	1.00–1.50	Soil	FD	—	0.236 (J-)	—	—	—	—	—	10.2	—	—
MD21-01-0227	21-11276	2.00–2.50	Qbt 3	N	—	—	—	—	—	0.322 (U)	—	1.25	—	—
MD21-01-0224	21-11277	1.50–2.00	Soil	N	—	0.514 (J-)	—	—	—	—	—	7.94	—	—
MD21-01-0225	21-11277	3.00–3.50	Qbt 3	N	—	—	—	—	0.0159 (J)	0.347 (U)	—	1.42	—	—
MD21-01-0226	21-11278	4.00–4.50	Soil	N	—	0.83 (J-)	—	—	—	—	—	20.4	—	—
MD21-01-0228	21-11278	5.50–6.00	Soil	N	—	2.13 (J-)	—	—	—	—	—	13.4	—	—
MD21-01-0229	21-11279	2.00–2.50	Soil	N	—	0.114	—	—	—	—	—	1.03	—	—
MD21-01-0230	21-11279	3.50–4.00	Qbt 3	N	—	—	—	—	—	0.356 (U)	—	6.01	—	—
MD21-01-0231	21-11280	3.00–3.50	Soil	N	—	—	—	—	—	—	—	24.7	—	—
MD21-01-0232	21-11280	4.50–5.00	Qbt 3	N	—	—	6.59	—	—	0.331 (U)	—	19.4	—	—
MD21-01-0234	21-11281	5.50–6.00	Soil	N	—	0.448 (J-)	—	—	—	—	—	5.35	—	—
MD21-01-0235	21-11281	7.00–7.50	Qbt 3	N	—	—	—	—	0.145 (J+)	0.349 (U)	—	21.3	—	—
MD21-01-0242	21-11294	4.00–5.00	Qbt 3	N	—	—	—	—	0.0177 (J)	0.43	—	0.59	—	—
MD21-01-0243	21-11294	9.00–10.00	Qbt 3	N	—	—	—	—	—	0.43	—	1	—	—
MD21-01-0244	21-11294	19.00–20.00	Qbt 3	N	—	—	—	—	0.0125	0.43	—	1.9	—	—
MD21-01-0236	21-11295	8.80–9.80	Qbt 3	N	—	0.35 (J+)	—	—	0.133 (J)	0.491 (U)	—	0.967 (J)	—	—
MD21-01-0237	21-11295	12.80–13.80	Qbt 3	N	—	—	—	—	—	0.498 (U)	—	0.43 (J)	—	—
MD21-01-0238	21-11295	17.80–18.80	Qbt 3	N	—	—	—	—	—	0.459 (U)	—	0.443 (J)	—	—
MD21-01-0239	21-11295	27.80–28.80	Qbt 3	N	—	—	—	—	—	0.505 (U)	—	0.878 (J)	—	—
MD21-01-0431	21-11296	0.00–1.00	Soil	N	—	—	—	—	—	—	—	14	—	—
MD21-01-0428	21-11297	0.00–1.00	Soil	N	—	0.415	—	—	—	—	—	15.5	—	—

Table 2.3-7 (continued)

Sample ID	Location ID	Depth (ft)	Media	Sample QC Type	Magnesium	Mercury	Nickel	Oxalate	Perchlorate	Selenium	Silver	Strontium	Uranium	Zinc
Soil and Fill BV (mg/kg)					**4610**	**0.1**	**15.4**	**NA**	**NA**	**1.52**	**1**	**NA**	**1.82**	**48.8**
Qbt 2,3,4 BV (mg/kg)					**1690**	**0.1**	**6.58**	**NA**	**NA**	**0.3**	**1**	**NA**	**2.22**	**63.5**
MD21-01-0430	21-11298	0.08–0.50	Soil	N	—	0.134	—	—	—	—	—	12.8	—	—
MD21-01-0433	21-11298	0.50–1.00	Soil	N	—	—	—	—	—	—	—	11	—	—
MD21-02-0001	21-11429	0.75–1.50	Soil	N	—	—	—	—	—	—	—	9.5	—	—
MD21-02-0002	21-11430	0.58–0.92	Soil	N	—	—	—	—	—	—	—	13.1	—	—
MD21-02-0003	21-11431	0.50–0.92	Soil	N	—	—	—	—	—	—	—	28.4	—	—
MD21-02-0004	21-11432	0.50–0.92	Soil	N	—	—	—	—	—	—	—	29.9	—	—
MD21-02-0005	21-11433	0.50–0.92	Soil	N	—	—	—	—	—	—	—	10.7	—	—
MD21-02-0006	21-11434	0.75–0.92	Soil	N	—	—	—	—	—	—	—	15.8	—	—
MD21-02-0007	21-11435	0.58–0.83	Soil	N	—	—	—	—	—	—	—	21.7	—	—
MD21-02-0008	21-11435	0.58–0.83	Soil	FD	—	—	—	—	—	—	—	22.6	—	—
MD21-02-0009	21-11436	0.75–1.00	Soil	N	—	—	—	—	—	—	—	14.2	—	—
MD21-02-0011	21-11437	0.00–0.33	Soil	N	—	—	—	—	—	—	—	15.5	—	—
MD21-02-0010	21-11437	0.33–0.66	Soil	N	—	—	—	—	—	—	—	14.7	—	—
MD21-02-0012	21-11438	0.33–0.66	Soil	N	—	—	—	—	—	—	—	15.8	—	—
MD21-02-0013	21-11438	0.66–0.98	Soil	N	—	—	—	—	—	—	—	16.5	—	—
MD21-02-0014	21-11439	0.00–0.33	Soil	N	—	—	—	—	—	—	—	15.3	—	—
MD21-02-0015	21-11439	0.66–0.98	Soil	N	—	—	—	—	—	—	—	11.6	—	—
AOC 21-030														
MD21-01-0283	21-11282	1.50–2.00	Soil	N	—	—	—	—	—	—	—	—	—	130
MD21-01-0284	21-11282	3.00–3.50	Qbt 3	N	—	—	—	—	—	0.331 (U)	—	—	—	—
MD21-01-0285	21-11283	1.50–2.00	Soil	N	—	—	—	—	—	—	—	—	—	—
MD21-01-0286	21-11283	3.00–3.50	Qbt 3	N	—	—	—	—	—	0.349 (U)	—	—	—	—
MD21-01-0287	21-11284	1.50–2.00	Soil	N	—	—	—	—	—	—	—	—	—	—
MD21-01-0288	21-11284	3.00–3.50	Qbt 3	N	2680 (J+)	—	—	—	—	0.428 (J)	—	—	—	—

Table 2.3-7 (continued)

Sample ID	Location ID	Depth (ft)	Media	Sample QC Type	Magnesium	Mercury	Nickel	Oxalate	Perchlorate	Selenium	Silver	Strontium	Uranium	Zinc
Soil and Fill BV (mg/kg)					**4610**	**0.1**	**15.4**	**NA**	**NA**	**1.52**	**1**	**NA**	**1.82**	**48.8**
Qbt 2,3,4 BV (mg/kg)					**1690**	**0.1**	**6.58**	**NA**	**NA**	**0.3**	**1**	**NA**	**2.22**	**63.5**
MD21-01-0289	21-11285	1.50–2.00	Soil	N	—	—	—	—	—	—	—	—	—	—
MD21-01-0290	21-11285	3.00–3.50	Qbt 3	N	—	—	6.82	—	—	0.478 (J)	—	—	—	—
MD21-01-0291	21-11286	1.50–2.00	Soil	N	—	—	—	—	—	—	—	—	—	—
MD21-01-0292	21-11286	3.00–3.50	Qbt 3	N	—	—	—	—	—	0.353 (U)	—	—	—	—
MD21-01-0293	21-11287	1.50–2.00	Soil	N	—	—	—	—	—	—	—	—	—	—
MD21-01-0294	21-11287	3.00–3.50	Qbt 3	N	—	—	—	—	—	0.436 (J)	—	—	—	192
MD21-01-0295	21-11288	1.50–2.00	Soil	N	—	—	—	—	—	—	—	—	—	—
MD21-01-0296	21-11288	3.00–3.50	Qbt 3	N	—	—	—	—	—	0.346 (U)	—	—	—	—
MD21-01-0532	21-11291	4.00–5.00	Qbt 3	N	—	—	—	—	—	0.476 (U)	—	—	—	—
MD21-01-0533	21-11291	9.00–10.00	Qbt 3	N	—	—	—	—	—	0.455 (U)	—	—	—	—
MD21-01-0534	21-11291	14.00–15.00	Qbt 3	N	—	—	—	—	0.146 (J)	0.474 (U)	—	—	—	—
MD21-01-0535	21-11291	14.00–15.00	Qbt 3	N	—	—	—	—	0.11 (J)	0.506 (U)	—	—	—	—
MD21-01-0536	21-11291	24.00–25.00	Qbt 3	N	—	—	—	—	—	0.507 (U)	—	—	—	—
MD21-01-0537	21-11292	4.00–5.00	Qbt 3	N	—	—	—	—	0.123 (J)	0.484 (U)	—	—	—	—
MD21-01-0538	21-11292	9.00–10.00	Qbt 3	N	—	—	—	—	0.108 (J)	0.5 (U)	—	—	—	—
MD21-01-0539	21-11292	14.00–15.00	Qbt 3	N	—	—	—	—	—	0.497 (U)	—	—	—	—
MD21-01-0540	21-11292	24.00–25.00	Qbt 3	N	—	—	—	—	0.117 (J)	0.492 (U)	—	—	—	—
AOC C-21-015														
MD21-01-0543	21-11289	0.00–0.50	Fill	N	—	—	—	—	0.153 (J)	—	—	—	—	—
MD21-01-0542	21-11290	0.00–0.50	Fill	N	—	—	—	—	—	—	—	—	—	—
MD21-01-0541	21-11293	0.00–0.50	Fill	N	—	—	—	0.931	—	—	—	—	—	—

Table 2.3-7 (continued)

Sample ID	Location ID	Depth (ft)	Media	Sample QC Type	Magnesium	Mercury	Nickel	Oxalate	Perchlorate	Selenium	Silver	Strontium	Uranium	Zinc
Soil and Fill BV (mg/kg)					**4610**	**0.1**	**15.4**	**NA**	**NA**	**1.52**	**1**	**NA**	**1.82**	**48.8**
Qbt 2,3,4 BV (mg/kg)					**1690**	**0.1**	**6.58**	**NA**	**NA**	**0.3**	**1**	**NA**	**2.22**	**63.5**
MD21-02-0021	21-11449	1.50–2.50	Qbt 3	N	1790	—	6.7 (J-)	—	—	—	—	—	—	—
MD21-02-0023	21-11451	1.50–2.50	Qbt 3	N	2450	—	—	—	—	—	—	—	—	—

Note: All results are in units of mg/kg.

[a] Source: LANL (1999, 59730).

[b] NA = No BV is available.

[c] N = Normal sample.

[d] — = Result was not detected, does not exceed BV, or wasn't analyzed.

[e] (U) = Not detected.

[f] (J) = Estimated value.

[g] FD = Field duplicate.

[h] (J+) = Estimated value, biased high.

[i] (J-) = Estimated value, biased low.

Arsenic, beryllium, cobalt, chromium, and nickel were also only detected in tuff samples at concentrations greater than BVs. The sample data for these chemicals were analyzed statistically. At least one of the three statistical tests performed indicated the confirmation sample data was different from the background data set. All of these analytes are retained as COPCs.

Cadmium and uranium, detected at concentrations above the BV in soil only, were also put through statistical analysis. However, at least one of the statistical tests indicated the confirmation sample data were different from the background data set and both chemicals are retained as COPCs.

Lead, mercury, and zinc were detected in both soil and tuff at concentrations greater than the medium-specific BV. Lead and zinc data were also analyzed statistically; however, at least one of the statistical tests indicated the sample data were statistically different from the background data set. Mercury was not analyzed statistically because there is no background data set for comparisons. Therefore, all three chemicals are retained as COPCs.

Antimony and silver were not detected in any of the site samples; however, the analyses for 8 of 45 soil samples had DLs that exceeded the antimony BV and 5 of 43 tuff samples had DLs that exceeded the silver BV. Both chemicals are retained as COPCs.

Background values have not been established for lithium, strontium, and perchlorate. All three chemicals were detected in some of the site confirmation samples and they are all retained as COPCs.

Iron, manganese, molybdenum, potassium, sodium, and thallium were not detected at concentrations greater than BVs in any medium nor were the DLs for these analytes above the BV in any sample. These chemicals are therefore eliminated as COPCs.

2.3.2.2 Radionuclide Comparison with Background/Fallout Radionuclide Concentration

The radionuclide analytical data for SWMU 21-024(f) and AOCs C-21-015 and 21-030 are summarized in Table 2.3-8; the table shows the medium specific Laboratory BV/FV, the concentration range and the frequency of detections greater than the BV/FV for each radionuclide measured in the site samples. Note that FVs are applied only to soil samples collected from 0 to 6 in. bgs, and tritium was not screened against its FV because not enough information is available to convert all of the earlier tritium results to pCi/mL for FV comparisons. Additionally, BVs/FVs have not been established for some radionuclides, regardless of sample medium or sample depth horizon. For these radionuclides, the detection status is used to determine if they are COPCs. Table 2.3-9 presents sample analytical results for each radionuclide that either was detected at concentrations above the BV/FV or the analytical detection limit exceeded the BV/FV.

Five radionuclides were detected at concentrations above their respective soil BVs/FVs: americium-241, cesium-137, plutonium-238, plutonium-239, and thorium-228. Although thorium-228 was found not to be statistically different from background, it was retained as a COPC because of analytical variability in the results. In addition, tritium, which was not screened against its soil FV, was detected in soil samples. Uranium-235, a naturally occurring radionuclide, was detected above its Qbt 3 BV in one sample. Americium-241, plutonium-239, and tritium (all fallout radionuclides) were also detected in tuff samples, for which there are no FVs. All of these radionuclides are retained as COPCs. The frequency of detections is typically low (much less than 50% of the samples) and the maximum concentrations are only slightly elevated above BVs/FVs. The notable exceptions are plutonium-239 and tritium. Plutonium-239 was detected above the soil FV (0.054 pCi/g) in half the samples (15 of 30) and was detected in 7 of 30 tuff samples. Tritium was also detected with a frequency near 50 percent.

Table 2.3-8
Frequency of Detected Radionuclides at SWMU 21-024(f) and AOCs C-21-015 and 21-030

Analyte	Media	Number of Analyses	Number of Detections	Concentration Range (pCi/g)[a]	Background Value[b] (pCi/g)	Frequency of Detections Above BV
Americium-241	Soil	45	4	[-0.0928 to 0.179]	0.013	4/45
Americium-241	Fill	3	0	[-0.0793 to 0.0461]	0.013	0/3
Americium-241	Qbt 3	34	2	[-0.114] to 0.0862	NA[c]	NA
Cesium-134	Soil	18	0	[-0.0778 to 0.0291]	NA	NA
Cesium-134	Fill	3	0	[0.0104 to 0.0623]	NA	NA
Cesium-134	Qbt 3	31	0	[-0.193 to 0.033]	NA	NA
Cesium-137	Soil	18	3	[-0.03] to 0.0853	1.65	3/18
Cesium-137	Fill	3	0	[-0.00786 to 0.039]	1.65	0/3
Cesium-137	Qbt 3	31	0	[-0.0399 to 0.0396]	NA	NA
Cobalt-60	Soil	18	0	[-0.0169 to 0.0579]	NA	NA
Cobalt-60	Fill	3	0	[0.00443 to 0.0181]	NA	NA
Cobalt-60	Qbt 3	31	0	[-0.072 to 0.0482]	NA	NA
Europium-152	Soil	18	0	[-0.0842 to 0.0387]	NA	NA
Europium-152	Fill	3	0	[-0.158 to -0.00488]	NA	NA
Europium-152	Qbt 3	31	0	[-0.0776 to 0.46]	NA	NA
Plutonium-238	Soil	30	3	[-0.011 to 0.164]	0.023	2/30
Plutonium-238	Fill	1	0	[0.00433 to 0.00433]	0.023	0/1
Plutonium-238	Qbt 3	30	0	[-0.012 to 0.0332]	NA	NA
Plutonium-239	Soil	30	15	[0.0093] to 2.43	0.054	15/30
Plutonium-239	Fill	1	1	0.0823 to 0.0823	0.054	0/1
Plutonium-239	Qbt 3	30	7	[-0.0163] to 0.452	NA	NA
Ruthenium-106	Soil	18	0	[-0.189 to 0.327]	NA	NA
Ruthenium-106	Fill	3	0	[-0.202 to 0.108]	NA	NA
Ruthenium-106	Qbt 3	31	0	[-0.27 to 0.216]	NA	NA
Sodium-22	Soil	18	0	[-0.0507 to 0.0406]	NA	NA
Sodium-22	Fill	3	0	[-0.0177 to -0.0143]	NA	NA
Sodium-22	Qbt 3	28	0	[-0.0362 to 0.0408]	NA	NA
Strontium-90	Soil	15	0	[-0.0687 to 0.736]	1.31	0/15
Strontium-90	Fill	3	0	[-0.0416 to 0.011]	1.31	0/3
Strontium-90	Qbt 3	16	0	[-0.174 to 0.134]	NA	NA
Thorium-228	Soil	28	28	1.04 to 2.98	2.28	2/28
Thorium-228	Qbt 3	3	3	1.14 to 1.59	2.52	0/3
Thorium-230	Soil	28	25	[0.0972] to 1.47	2.29	0/28
Thorium-230	Qbt 3	3	3	0.72 to 0.99	1.98	0/3
Thorium-232	Soil	28	28	0.93 to 1.71	2.33	0/28
Thorium-232	Qbt 3	3	3	1.16 to 1.55	2.52	0/3
Tritium	Soil	38	18	[-0.08] to 0.244	NA	NA

Table 2.3-8 (continued)

Analyte	Media	Number of Analyses	Number of Detections	Concentration Range (pCi/g)[a]	Background Value[b] (pCi/g)	Frequency of Detections Above BV
Tritium	Fill	1	1	0.0412 to 0.0412	NA[d]	NA
Tritium	Qbt 3	28	11	[-0.886 to 0.27]	NA	NA
Uranium-234	Soil	19	19	0.66 to 1.3	2.59	0/19
Uranium-234	Qbt 3	3	3	0.71 to 0.98	1.98	0/3
Uranium-235	Soil	37	3	[-0.0463 to 0.278]	0.2	0/37
Uranium-235	Fill	3	0	[0.0186 to 0.157]	0.2	0/3
Uranium-235	Qbt 3	34	3	[-0.0543] to 0.388	0.09	1/34
Uranium-238	Soil	19	19	0.57 to 1.44	2.29	0/19
Uranium-238	Qbt 3	3	3	0.69 to 1.01	1.93	0/3

Note: Samples with field duplicates are counted as one result.

[a] Square brackets indicate detection limits for nondetected analytical results.

[b] Source: LANL (1998, 59730)

[c] NA = No background value is available.

[d] Although there is a soil BV for tritium (0.76 pCi/mL), it is not used for comparisons in this data set. Not enough information is available to convert all of the earlier tritium results to the correct units for FV comparisons.

Table 2.3-9
Radionuclides Detected Above Background/Fallout Values

Sample ID	Location ID	Depth (ft)	Media	Sample QC Type	Americium-241	Cesium-137	Plutonium-238	Plutonium-239	Thorium-228	Tritium	Uranium-235
Soil and Fill BV/FV[a] (pCi/g except as noted)					**0.013[b]**	**1.65**	**0.023**	**0.054**	**2.28**	**0.76 pCi/mL[c]**	**0.2**
Qbt 2,3,4 BV (pCi/g)					**NA[d]**	**NA**	**NA**	**NA**	**2.52**	**NA**	**0.09**
SWMU 21-024(f)											
AAA1095	21-01431	0.00–0.50	Soil	N[e]	—[f]	—	—	1.06	—	0.222	—
AAA1096	21-01431	0.50–1.00	Soil	N	—	—	—	—	—	—	—
AAA1097	21-01431	1.00–1.50	Soil	N	—	—	—	—	—	0.111	—
AAA1100	21-01432	0.50–1.00	Soil	N	—	—	—	0.571	—	—	—
AAA1101	21-01432	1.00–1.50	Soil	N	—	—	—	—	—	—	—
AAA1102	21-01433	0.00–0.50	Soil	N	—	—	—	1.04	—	0.244	—
AAA1103	21-01433	0.50–1.00	Soil	N	—	—	—	—	—	0.111	—
AAA1104	21-01433	1.00–1.50	Soil	N	—	—	—	—	—	—	—
MD21-03-50285	21-03-21704	0.00–0.20	Soil	N	—	—	0.0252	2.43	—	—	—
MD21-01-0215	21-11273	0.50–1.00	Soil	N	—	0.0853	—	—	—	0.114	—
MD21-01-0217	21-11273	2.00–2.50	Qbt 3	N	—	—	—	—	—	0.111	—
MD21-03-50280	21-11273	2.00–2.50	Qbt 3	N	—	—	—	0.0643	—	—	—
MD21-01-0218	21-11274	0.50–1.00	Soil	N	—	—	—	—	—	0.0423	—
MD21-01-0219	21-11274	2.00–2.50	Qbt 3	N	—	—	—	—	—	0.0724	—
MD21-01-0220	21-11275	0.50–1.00	Soil	N	—	0.0508	—	—	—	0.164	—
MD21-01-0221	21-11275	2.00–2.50	Qbt 3	N	—	—	—	—	—	0.0637	—
MD21-01-0222	21-11276	1.00–1.50	Soil	N	—	—	—	—	—	0.0613	—
MD21-01-0223	21-11276	1.00–1.50	Soil	FD[g]	—	0.0811	—	—	—	—	—
MD21-03-50283	21-11276	1.00–1.50	Qbt 3	N	—	—	—	0.0738	—	—	—
MD21-01-0227	21-11276	2.00–2.50	Qbt 3	N	—	—	—	—	—	—	—
MD21-01-0224	21-11277	1.50–2.00	Soil	N	—	—	—	—	—	0.0978	—

Table 2.3-9 (continued)

Sample ID	Location ID	Depth (ft)	Media	Sample QC Type	Americium-241	Cesium-137	Plutonium-238	Plutonium-239	Thorium-228	Tritium	Uranium-235
Soil and Fill BV/FV (pCi/g except as noted)					**0.013**	**1.65**	**0.023**	**0.054**	**2.28**	**0.76 pCi/mL**	**0.2**
Qbt 2,3,4 BV (pCi/g)					**NA**	**NA**	**NA**	**NA**	**2.52**	**NA**	**0.09**
MD21-03-50288	21-11277	1.50–2.00	Qbt 3	N	—	—	—	0.0577	—	—	—
MD21-03-50289	21-11277	1.50–2.00	Qbt 3	FD	—	—	—	0.16	—	—	—
MD21-01-0225	21-11277	3.00–3.50	Qbt 3	N	—	—	—	—	—	0.0577	0.388
MD21-01-0226	21-11278	4.00–4.50	Soil	N	—	—	—	—	—	0.0873	—
MD21-01-0228	21-11278	5.50–6.00	Soil	N	—	—	—	—	—	0.0714	—
MD21-01-0229	21-11279	2.00–2.50	Soil	N	—	—	—	—	—	0.107	—
MD21-01-0230	21-11279	3.50–4.00	Qbt 3	N	—	—	—	—	—	0.0453	—
MD21-01-0231	21-11280	3.00–3.50	Soil	N	—	—	—	—	—	0.106	—
MD21-01-0234	21-11281	5.50–6.00	Soil	N	—	—	—	—	—	0.0725	—
MD21-01-0235	21-11281	7.00–7.50	Qbt 3	N	—	—	—	—	—	—	—
MD21-03-50298	21-11281	9.00–9.50	Qbt 3	N	—	—	—	0.452	—	—	—
MD21-03-50299	21-11281	10.50–11.00	Qbt 3	N	—	—	—	0.062	—	—	—
MD21-01-0236	21-11295	8.80–9.80	Qbt 3	N	0.0862	—	—	—	—	—	—
MD21-01-0237	21-11295	12.80–13.80	Qbt 3	N	—	—	—	—	—	—	—
MD21-01-0238	21-11295	17.80–18.80	Qbt 3	N	0.0274	—	—	—	—	—	—
MD21-01-0431	21-11296	0.00–1.00	Soil	N	0.059	—	—	0.613	—	0.0890	—
MD21-01-0428	21-11297	0.00–1.00	Soil	N	0.103	—	—	0.897	—	0.0723	—
MD21-01-0430	21-11298	0.08–0.50	Soil	N	0.0806	—	—	0.591	—	0.0762	—
MD21-01-0433	21-11298	0.50–1.00	Soil	N	0.127	—	0.0245	0.992	—	0.0529	—
MD21-02-0001	21-11429	0.75–1.50	Soil	N	—	—	—	—	—	—	—
MD21-02-0002	21-11430	0.58–0.92	Soil	N	—	—	—	0.23 (J-)[h]	—	—	—
MD21-02-0003	21-11431	0.50–0.92	Soil	N	—	—	—	—	—	—	—
MD21-02-0004	21-11432	0.50–0.92	Soil	N	—	—	—	—	—	—	—

Table 2.3-9 (continued)

Sample ID	Location ID	Depth (ft)	Media	Sample QC Type	Americium-241	Cesium-137	Plutonium-238	Plutonium-239	Thorium-228	Tritium	Uranium-235
Soil and Fill BV/FV (pCi/g except as noted)					**0.013**	**1.65**	**0.023**	**0.054**	**2.28**	**0.76 pCi/mL**	**0.2**
Qbt 2,3,4 BV (pCi/g)					**NA**	**NA**	**NA**	**NA**	**2.52**	**NA**	**0.09**
MD21-02-0005	21-11433	0.50–0.92	Soil	N	—	—	—	0.237 (J-)	—	—	—
MD21-02-0006	21-11434	0.75–0.92	Soil	N	—	—	—	0.169 (J-)	—	—	—
MD21-02-0007	21-11435	0.58–0.83	Soil	N	—	—	—	—	2.84	—	—
MD21-02-0008	21-11435	0.58–0.83	Soil	FD	—	—	—	—	—	—	—
MD21-02-0009	21-11436	0.75–1.00	Soil	N	—	—	—	—	—	—	—
MD21-02-0011	21-11437	0.00–0.33	Soil	N	—	—	—	0.43 (J-)	—	—	—
MD21-02-0010	21-11437	0.33–0.66	Soil	N	—	—	—	—	—	—	—
MD21-02-0012	21-11438	0.33–0.66	Soil	N	—	—	—	—	—	—	—
MD21-02-0014	21-11439	0.00–0.33	Soil	N	—	—	—	0.43 (J-)	2.98	—	—
MD21-03-50293	21-11439	0.00–0.50	Soil	N	—	—	—	0.193	—	—	—
MD21-03-50294	21-11439	0.00–0.50	Soil	FD	—	—	—	0.407	—	—	—
MD21-02-0015	21-11439	0.66–0.98	Soil	N	—	—	—	—	—	—	—
AOC 21-030											
MD21-01-0283	21-11282	1.50–2.00	Soil	N	—	—	—	—	—	—	—
MD21-01-0284	21-11282	3.00–3.50	Qbt 3	N	—	—	—	—	—	—	—
MD21-01-0285	21-11283	1.50–2.00	Soil	N	—	—	—	—	—	—	—
MD21-02-49505	21-11283	1.50–2.00	Qbt 3	N	—	—	—	0.0307	—	0.0143	—
MD21-01-0286	21-11283	3.00–3.50	Qbt 3	N	—	—	—	—	—	—	—
MD21-02-49506	21-11283	3.00–3.50	Qbt 3	N	—	—	—	—	—	0.0128	—
MD21-01-0287	21-11284	1.50–2.00	Soil	N	—	—	—	—	—	—	—
MD21-01-0288	21-11284	3.00–3.50	Qbt 3	N	—	—	—	—	—	—	—
MD21-02-49509	21-11284	3.50–4.00	Qbt 3	N	—	—	—	—	—	0.032	—
MD21-01-0290	21-11285	3.00–3.50	Qbt 3	N	—	—	—	—	—	—	—

Table 2.3-9 (continued)

Sample ID	Location ID	Depth (ft)	Media	Sample QC Type	Americium-241	Cesium-137	Plutonium-238	Plutonium-239	Thorium-228	Tritium	Uranium-235
Soil and Fill BV/FV (pCi/g except as noted)					**0.013**	**1.65**	**0.023**	**0.054**	**2.28**	**0.76 pCi/mL**	**0.2**
Qbt 2,3,4 BV (pCi/g)					**NA**	**NA**	**NA**	**NA**	**2.52**	**NA**	**0.09**
MD21-02-49498	21-11287	1.00–1.50	Qbt 3	N	—	—	—	—	—	0.0139	—
MD21-01-0293	21-11287	1.50–2.00	Soil	N	—	—	—	—	—	—	—
MD21-01-0294	21-11287	3.00–3.50	Qbt 3	N	—	—	—	—	—	—	—
MD21-01-0295	21-11288	1.50–2.00	Soil	N	—	—	—	—	—	—	—
MD21-01-0296	21-11288	3.00–3.50	Qbt 3	N	—	—	—	—	—	—	—
MD21-02-49503	21-11291	2.50–2.75	Qbt 3	N	—	—	—	—	—	0.0126	—
MD21-02-49504	21-11291	3.75–4.25	Qbt 3	N	—	—	—	—	—	0.0246	—
MD21-01-0532	21-11291	4.00–5.00	Qbt 3	N	—	—	—	—	—	—	—
MD21-01-0533	21-11291	9.00–10.00	Qbt 3	N	—	—	—	—	—	—	—
MD21-01-0535	21-11291	14.00–15.00	Qbt 3	N	—	—	—	—	—	—	—
MD21-01-0537	21-11292	4.00–5.00	Qbt 3	N	—	—	—	—	—	—	—
MD21-01-0538	21-11292	9.00–10.00	Qbt 3	N	—	—	—	—	—	—	—
MD21-01-0539	21-11292	14.00–15.00	Qbt 3	N	—	—	—	—	—	—	—
AOC C-21-015											
MD21-02-0023	21-11451	1.50–2.50	Qbt 3	N	—	—	—	—	—	—	—
MD21-01-0542	21-11290	0.00–0.50	Fill	N	—	—	—	—	—	—	—

Note: All results are in units of mg/kg.

[a] Source: LANL (1998, 59730)

[b] FVs apply to only fallout radionuclides detected in soil samples collected from 0 to 0.5 ft bgs.

[c] Although there is a soil FV for tritium (0.76 pCi/mL), it is not used for comparisons in this data set. Not enough information is available to convert all of the earlier tritium results to the correct units for FV comparisons.

[d] NA = No FV/BV is available.

[e] N = Normal sample.

[f] — = Result was not detected, does not exceed BV, or was not analyzed.

[g] FD = Field duplicate.

[h] (J-) = Estimated value, biased low.

2.3.2.3 Evaluation of Organic Chemicals

The organic chemical analytical data for SWMU 21-024(f) and AOCs C-21-015 and 21-030 are summarized in Table 2.3-10; the table shows the EQLs, the concentration range, and the frequency of detections for organic chemicals in the site samples. The data are summarized further in Table 2.3-11, which presents sample analytical results for each detected organic chemical.

Table 2.3-10
Detected Organic Chemicals at SWMU 21-024(f) and AOCs C-21-015 and 21-030

Analyte	Media	Number of Analyses	Number of Detections	Concentration Range (mg/kg)[a]	EQL (mg/kg)	Frequency of Detections
Acetone	Soil	19	11	[0.011 to 0.28]	0.28	11/19
Acetone	Qbt 3	20	6	0.0036 to [0.06]	0.06	6/20
Anthracene	Soil	15	2	0.0051 to [0.39]	0.39	2/15
Aroclor-1016	Soil	7	1	0.0014 to [0.0038]	0.0038	1/7
Aroclor-1242	Qbt 3	16	1	[0.0033] to 0.0074	0.0035	1/16
Benzene	Qbt 3	20	1	0.00036 to [0.007]	0.007	1/20
Benz(a)anthracene	Soil	15	2	0.0124 to [0.39]	0.39	2/15
Benzo(a)anthracene	Fill	3	1	[0.105] to 0.269	0.107	1/3
Benzo(b)fluoranthene	Soil	15	2	[0.0343 to 0.39]	0.39	2/15
Benzo(k)fluoranthene	Fill	3	2	0.0770 to 0.218	0.105	2/3
Bis(2-chloroethyl)ether	Fill	3	1	0.0702 to [1.07]	1.07	1/3
Bis(2-ethylhexyl)phthalate	Soil	15	5	0.154 to [0.39]	0.39	5/15
Bis(2-ethylhexyl)phthalate	Qbt 3	28	5	0.149 to [1.03]	1.03	5/28
2-Butanone	Soil	19	8	0.0032 to [0.012]	0.012	8/19
2-Butanone	Qbt 3	20	1	0.002 to [0.035]	0.035	1/20
Butylbenzylphthalate	Soil	15	1	0.0162 to [0.39]	0.39	1/15
Chloromethane	Soil	19	6	0.00066 to [0.012]	0.012	6/19
Chloromethane	Qbt 3	20	3	0.00054 to [0.01]	0.01	3/20
2-Chlorophenol	Qbt 3	28	1	0.0166 to [1.03]	1.03	1/28
Chrysene	Soil	15	2	0.01 to [0.39]	2/15	0.39
Chrysene	Fill	3	1	0.0776 to [0.109]	1/3	0.109
Dibenzofuran	Soil	15	1	0.003 to [0.39]	1/15	0.39
1,3-Dichlorobenzene	Qbt 3	48	1	[0.0012 to 1.03]	1/48	1.03
1,4-Dichlorobenzene	Qbt 3	48	1	[0.0012 to 1.03]	1/48	1.03
Dichlorodifluoromethane	Qbt 3	20	2	0.00098 to [0.01]	2/20	0.01
Di-n-butylphthalate	Soil	15	1	0.023 to [0.39]	1/15	0.39
Ethylbenzene	Qbt 3	20	1	0.0004 to [0.007]	1/20	0.007
Fluoranthene	Soil	15	4	0.0141 to [0.39]	4/15	0.39
Fluoranthene	Fill	3	3	0.0947 to 0.488	3/3	0.11
Fluorene	Soil	15	1	0.0052 to [0.39]	1/15	0.39
2-Hexanone	Soil	19	1	0.0017 to [0.012]	1/19	0.012

Table 2.3-10 (continued)

Analyte	Media	Number of Analyses	Number of Detections	Concentration Range (mg/kg)[a]	EQL (mg/kg)	Frequency of Detections
4-Isopropyltoluene	Soil	19	5	0.00053 to 0.0068	5/19	0.006
4-Methyl-2-pentanone	Soil	19	1	[0.0061] to 0.0202	1/19	0.0012
Methylene Chloride	Soil	19	1	[0.0006] to 0.007	1/19	0.0069
Phenanthrene	Soil	15	4	0.0075 to [0.39]	4/15	0.39
Pyrene	Soil	15	4	0.0187 to [0.39]	4/15	0.39
Pyrene	Fill	3	1	[0.105] to 0.259	1/3	0.107
Styrene	Qbt 3	20	1	0.00032 to [0.007]	1/20	0.007
Toluene	Soil	19	7	0.00078 to 0.008	7/19	0.006
Toluene	Qbt 3	20	1	0.00055 to [0.007]	1/20	0.007
Trichlorofluoromethane	Soil	19	3	0.0011 to [0.012]	3/19	0.012
Trichlorofluoromethane	Qbt 3	20	4	[0.0012] to 0.0145	4/20	0.0014
1,3-Xylene and 1,4-Xylene	Qbt 3	12	1	0.0012 to [0.0027]	1/12	0.0027

Note: Samples with field duplicates are counted as one result.

*Square brackets indicate detection limits for nondetected analytical results.

Table 2.3-11
Detected Organic Compounds

Sample ID	Location ID	Depth (ft)	Media	Sample QC Type	Acetone	Anthracene	Aroclor-1016	Aroclor-1242	Benzene	Benzo(a)anthracene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Bis(2-chloroethyl)ether
SWMU 21-024(f)													
AAA1095	21-01431	0.00–0.50	Soil	N[a]	0.028	—[b]	—	—	—	—	—	—	—
AAA1096	21-01431	0.50–1.00	Soil	N	0.025	—	—	—	—	—	—	—	—
AAA1097	21-01431	1.00–1.50	Soil	N	0.019	—	—	—	—	—	—	—	—
AAA1100	21-01432	0.50–1.00	Soil	N	0.055	—	—	—	—	—	—	—	—
AAA1101	21-01432	1.00–1.50	Soil	N	0.02	—	—	—	—	—	—	—	—
AAA1103	21-01433	0.50–1.00	Soil	N	0.036	—	—	—	—	—	—	—	—
AAA1104	21-01433	1.00–1.50	Soil	N	0.042	—	—	—	—	—	—	—	—
MD21-01-0215	21-11273	0.50–1.00	Soil	N	0.0128	—	—	—	—	—	—	—	—
MD21-01-0217	21-11273	2.00–2.50	Qbt 3	N	0.0084	—	—	—	—	—	—	—	—
MD21-01-0218	21-11274	0.50–1.00	Soil	N	0.0617	—	—	—	—	—	—	—	—
MD21-01-0219	21-11274	2.00–2.50	Qbt 3	N	0.0036 (J)[c]	—	—	—	—	—	—	—	—
MD21-01-0220	21-11275	0.50–1.00	Soil	N	—	—	—	—	—	—	—	—	—
MD21-01-0221	21-11275	2.00–2.50	Qbt 3	N	—	—	—	—	—	—	—	—	—
MD21-01-0222	21-11276	1.00–1.50	Soil	N	—	—	—	—	—	—	—	—	—
MD21-01-0223	21-11276	1.00–1.50	Soil	FD[d]	—	—	—	—	—	—	—	—	—
MD21-01-0227	21-11276	2.00–2.50	Qbt 3	N	—	—	—	—	—	—	—	—	—
MD21-01-0224	21-11277	1.50–2.00	Soil	N	—	—	—	—	—	—	—	—	—
MD21-01-0225	21-11277	3.00–3.50	Qbt 3	N	—	—	—	—	—	—	—	—	—
MD21-01-0226	21-11278	4.00–4.50	Soil	N	—	—	—	—	—	—	—	—	—
MD21-01-0228	21-11278	5.50–6.00	Soil	N	—	—	—	—	—	—	—	—	—
MD21-01-0229	21-11279	2.00–2.50	Soil	N	—	—	—	—	—	—	—	—	—
MD21-01-0230	21-11279	3.50–4.00	Qbt 3	N	0.0258 (J)	—	—	—	—	—	—	—	—
MD21-01-0231	21-11280	3.00–3.50	Soil	N	0.047 (J)	—	—	—	—	—	—	—	—

Table 2.3-11 (continued)

Sample ID	Location ID	Depth (ft)	Media	Sample QC Type	Acetone	Anthracene	Aroclor-1016	Aroclor-1242	Benzene	Benzo(a)anthracene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Bis(2-chloroethyl)ether
MD21-01-0236	21-11295	8.80–9.80	Qbt 3	N	—	—	—	—	0.00036 (J)	—	—	—	—
MD21-01-0237	21-11295	12.80–13.80	Qbt 3	N	0.005 (J)	—	—	—	—	—	—	—	—
MD21-01-0238	21-11295	17.80–18.80	Qbt 3	N	—	—	—	—	—	—	—	—	—
MD21-01-0239	21-11295	27.80–28.80	Qbt 3	N	—	—	—	—	—	—	—	—	—
MD21-01-0232	21-11280	4.50–5.00	Qbt 3	N	0.0124 (J)	—	—	—	—	—	—	—	—
MD21-01-0234	21-11281	5.50–6.00	Soil	N	0.048 (J)	—	—	—	—	—	—	—	—
MD21-01-0235	21-11281	7.00–7.50	Qbt 3	N	0.0052 (J)	—	—	—	—	—	—	—	—
AOC 21-030													
MD21-01-0283	21-11282	1.50–2.00	Soil	N	—	—	—	—	—	0.025 (J)	0.103	—	—
MD21-01-0285	21-11283	1.50–2.00	Soil	N	—	0.0051 (J)	—	—	—	0.0124 (J)	0.0829	—	—
MD21-01-0286	21-11283	3.00–3.50	Qbt 3	N	—	—	—	—	—	—	—	—	—
MD21-01-0287	21-11284	1.50–2.00	Soil	N	—	—	0.0014 (J)	—	—	—	—	—	—
MD21-01-0288	21-11284	3.00–3.50	Qbt 3	N	—	—	—	—	—	—	—	—	—
MD21-01-0289	21-11285	1.50–2.00	Soil	N	—	0.01 (J)	—	—	—	—	—	—	—
MD21-01-0290	21-11285	3.00–3.50	Qbt 3	N	—	—	—	—	—	—	—	—	—
MD21-01-0291	21-11286	1.50–2.00	Soil	N	—	—	—	—	—	—	—	—	—
MD21-01-0292	21-11286	3.00–3.50	Qbt 3	N	—	—	—	—	—	—	—	—	—
MD21-01-0296	21-11288	3.00–3.50	Qbt 3	N	—	—	—	—	—	—	—	—	—
MD21-01-0532	21-11291	4.00–5.00	Qbt 3	N	—	—	—	—	—	—	—	—	—
MD21-01-0538	21-11292	9.00–10.00	Qbt 3	N	—	—	—	0.0074	—	—	—	—	—
MD21-01-0539	21-11292	14.00–15.00	Qbt 3	N	—	—	—	—	—	—	—	—	—
AOC C-21-015													
MD21-01-0543	21-11289	0.00–0.50	Fill	N	—	—	—	—	—	0.269	—	0.218	0.0702 (J)
MD21-01-0542	21-11290	0.00–0.50	Fill	N	—	—	—	—	—	—	—	0.0770 (J)	—
MD21-01-0541	21-11293	0.00–0.50	Fill	N	—	—	—	—	—	—	—	—	—

Table 2.3-11 (continued)

Sample ID	Location ID	Depth (ft)	Media	Sample QC Type	Bis(2-ethylhexyl)phthalate	2-Butanone	Butylbenzylphthalate	Chloromethane	2-Chlorophenol	Chrysene	Dibenzofuran	1,3-Dichlorobenzene
SWMU 21-024(f)												
AAA1095	21-01431	0.00–0.50	Soil	N	—	—	—	—	—	—	—	—
AAA1096	21-01431	0.50–1.00	Soil	N	—	—	—	—	—	—	—	—
AAA1097	21-01431	1.00–1.50	Soil	N	—	—	—	—	—	—	—	—
AAA1100	21-01432	0.50–1.00	Soil	N	—	—	—	—	—	—	—	—
AAA1101	21-01432	1.00–1.50	Soil	N	—	—	—	—	—	—	—	—
AAA1103	21-01433	0.50–1.00	Soil	N	—	—	—	—	—	—	—	—
AAA1104	21-01433	1.00–1.50	Soil	N	—	—	—	—	—	—	—	—
MD21-01-0215	21-11273	0.50–1.00	Soil	N	—	—	—	—	—	—	—	—
MD21-01-0217	21-11273	2.00–2.50	Qbt 3	N	—	—	—	—	—	—	—	—
MD21-01-0218	21-11274	0.50–1.00	Soil	N	—	0.0047 (J)	—	—	—	—	—	—
MD21-01-0219	21-11274	2.00–2.50	Qbt 3	N	—	—	—	—	—	—	—	—
MD21-01-0220	21-11275	0.50–1.00	Soil	N	—	0.0073	—	0.00082 (J)	—	—	—	—
MD21-01-0221	21-11275	2.00–2.50	Qbt 3	N	—	—	—	0.00068 (J)	—	—	—	—
MD21-01-0222	21-11276	1.00–1.50	Soil	N	—	0.0049 (J)	—	0.00076 (J)	—	—	—	—
MD21-01-0223	21-11276	1.00–1.50	Soil	FD	—	0.0046 (J)	—	0.00066 (J)	—	—	—	—
MD21-01-0227	21-11276	2.00–2.50	Qbt 3	N	—	0.002 (J)	—	0.00054 (J)	—	—	—	—
MD21-01-0224	21-11277	1.50–2.00	Soil	N	—	—	—	0.0007 (J)	—	—	—	—
MD21-01-0225	21-11277	3.00–3.50	Qbt 3	N	—	—	—	0.0008 (J)	—	—	—	—
MD21-01-0226	21-11278	4.00–4.50	Soil	N	—	0.0032 (J)	—	—	—	—	—	—
MD21-01-0228	21-11278	5.50–6.00	Soil	N	—	0.0038 (J)	—	0.00084 (J)	—	—	—	—
MD21-01-0229	21-11279	2.00–2.50	Soil	N	—	0.0072 (J)	—	0.0008 (J)	—	—	—	—
MD21-01-0230	21-11279	3.50–4.00	Qbt 3	N	—	—	—	—	—	—	—	—
MD21-01-0231	21-11280	3.00–3.50	Soil	N	—	—	—	—	—	—	—	—
MD21-01-0236	21-11295	8.80–9.80	Qbt 3	N	—	—	—	—	—	—	—	—

Table 2.3-11 (continued)

Sample ID	Location ID	Depth (ft)	Media	Sample QC Type	Bis(2-ethylhexyl)phthalate	2-Butanone	Butylbenzylphthalate	Chloromethane	2-Chlorophenol	Chrysene	Dibenzofuran	1,3-Dichlorobenzene
MD21-01-0237	21-11295	12.80–13.80	Qbt 3	N	—	—	—	—	—	—	—	—
MD21-01-0238	21-11295	17.80–18.80	Qbt 3	N	—	—	—	—	—	—	—	—
MD21-01-0239	21-11295	27.80–28.80	Qbt 3	N	—	—	—	—	—	—	—	—
MD21-01-0232	21-11280	4.50–5.00	Qbt 3	N	—	—	—	—	—	—	—	—
MD21-01-0234	21-11281	5.50–6.00	Soil	N	—	0.0047 (J)	—	—	—	—	—	—
MD21-01-0235	21-11281	7.00–7.50	Qbt 3	N	—	—	—	—	—	—	—	—
AOC 21-030												
MD21-01-0283	21-11282	1.50–2.00	Soil	N	0.154 (J)	—	—	—	—	0.0381	—	—
MD21-01-0285	21-11283	1.50–2.00	Soil	N	0.179 (J)	—	—	—	—	0.01 (J)	—	—
MD21-01-0286	21-11283	3.00–3.50	Qbt 3	N	0.149 (J)	—	—	—	—	—	—	—
MD21-01-0287	21-11284	1.50–2.00	Soil	N	0.166 (J)	—	—	—	—	—	—	—
MD21-01-0288	21-11284	3.00–3.50	Qbt 3	N	0.15 (J)	—	—	—	—	—	—	—
MD21-01-0289	21-11285	1.50–2.00	Soil	N	0.233 (J)	—	0.0162 (J)	—	—	—	0.003 (J)	—
MD21-01-0290	21-11285	3.00–3.50	Qbt 3	N	0.152 (J)	—	—	—	—	—	—	—
MD21-01-0291	21-11286	1.50–2.00	Soil	N	0.156 (J)	—	—	—	—	—	—	—
MD21-01-0292	21-11286	3.00–3.50	Qbt 3	N	0.15 (J)	—	—	—	—	—	—	—
MD21-01-0296	21-11288	3.00–3.50	Qbt 3	N	0.155 (J)	—	—	—	—	—	—	—
MD21-01-0532	21-11291	4.00–5.00	Qbt 3	N	—	—	—	—	0.0166 (J)	—	—	0.0124 (J)
MD21-01-0538	21-11292	9.00–10.00	Qbt 3	N	—	—	—	—	—	—	—	—
MD21-01-0539	21-11292	14.00–15.00	Qbt 3	N	—	—	—	—	—	—	—	—
AOC C-21-015												
MD21-01-0541	21-11293	0.00–0.50	Fill	N	—	—	—	—	—	—	—	—
MD21-01-0543	21-11289	0.00–0.50	Fill	N	—	—	—	—	—	—	—	—
MD21-01-0542	21-11290	0.00–0.50	Fill	N	—	—	—	—	—	0.0776 (J)	—	—

Table 2.3-11 (continued)

Sample ID	Location ID	Depth (ft)	Media	Sample QC Type	1,4-Dichlorobenzene	Dichlorodifluoromethane	Di-n-butylphthalate	Ethylbenzene	Fluoranthene	Fluorene	2-Hexanone	4-Isopropyltoluene
SWMU 21-024(f)												
AAA1095	21-01431	0.00–0.50	Soil	N	—	—	—	—	—	—	—	—
AAA1096	21-01431	0.50–1.00	Soil	N	—	—	—	—	—	—	—	—
AAA1097	21-01431	1.00–1.50	Soil	N	—	—	—	—	—	—	—	—
AAA1100	21-01432	0.50–1.00	Soil	N	—	—	—	—	—	—	—	—
AAA1101	21-01432	1.00–1.50	Soil	N	—	—	—	—	—	—	—	—
AAA1103	21-01433	0.50–1.00	Soil	N	—	—	—	—	—	—	—	—
AAA1104	21-01433	1.00–1.50	Soil	N	—	—	—	—	—	—	—	—
MD21-01-0215	21-11273	0.50–1.00	Soil	N	—	—	—	—	—	—	—	—
MD21-01-0217	21-11273	2.00–2.50	Qbt 3	N	—	—	—	—	—	—	—	—
MD21-01-0218	21-11274	0.50–1.00	Soil	N	—	—	—	—	—	—	—	0.0068 (J)
MD21-01-0219	21-11274	2.00–2.50	Qbt 3	N	—	—	—	—	—	—	—	—
MD21-01-0220	21-11275	0.50–1.00	Soil	N	—	—	—	—	—	—	—	0.0033 (J)
MD21-01-0221	21-11275	2.00–2.50	Qbt 3	N	—	—	—	—	—	—	—	—
MD21-01-0222	21-11276	1.00–1.50	Soil	N	—	—	—	—	—	—	—	—
MD21-01-0223	21-11276	1.00–1.50	Soil	FD	—	—	—	—	—	—	—	—
MD21-01-0227	21-11276	2.00–2.50	Qbt 3	N	—	—	—	—	—	—	—	—
MD21-01-0224	21-11277	1.50–2.00	Soil	N	—	—	—	—	—	—	—	0.00053 (J)
MD21-01-0225	21-11277	3.00–3.50	Qbt 3	N	—	—	—	—	—	—	—	—
MD21-01-0226	21-11278	4.00–4.50	Soil	N	—	—	—	—	—	—	—	—
MD21-01-0228	21-11278	5.50–6.00	Soil	N	—	—	—	—	—	—	—	0.00094 (J)
MD21-01-0229	21-11279	2.00–2.50	Soil	N	—	—	—	—	—	—	0.0017 (J)	0.0013 (J)
MD21-01-0230	21-11279	3.50–4.00	Qbt 3	N	—	—	—	—	—	—	—	—
MD21-01-0231	21-11280	3.00–3.50	Soil	N	—	—	—	—	—	—	—	—
MD21-01-0232	21-11280	4.50–5.00	Qbt 3	N	—	—	—	—	—	—	—	—

Table 2.3-11 (continued)

Sample ID	Location ID	Depth (ft)	Media	Sample QC Type	1,4-Dichlorobenzene	Dichlorodifluoromethane	Di-n-butylphthalate	Ethylbenzene	Fluoranthene	Fluorene	2-Hexanone	4-Isopropyltoluene
MD21-01-0234	21-11281	5.50–6.00	Soil	N	—	—	—	—	—	—	—	—
MD21-01-0235	21-11281	7.00–7.50	Qbt 3	N	—	—	—	—	—	—	—	—
MD21-01-0236	21-11295	8.80–9.80	Qbt 3	N	—	—	—	—	—	—	—	—
MD21-01-0237	21-11295	12.80–13.80	Qbt 3	N	—	0.00098 (J)	—	—	—	—	—	—
MD21-01-0238	21-11295	17.80–18.80	Qbt 3	N	—	0.0012	—	0.0004 (J)	—	—	—	—
MD21-01-0239	21-11295	27.80–28.80	Qbt 3	N	—	—	—	—	—	—	—	—
AOC 21-030												
MD21-01-0283	21-11282	1.50–2.00	Soil	N	—	—	—	—	0.0852	—	—	—
MD21-01-0285	21-11283	1.50–2.00	Soil	N	—	—	—	—	0.0199 (J)	—	—	—
MD21-01-0286	21-11283	3.00–3.50	Qbt 3	N	—	—	—	—	—	—	—	—
MD21-01-0287	21-11284	1.50–2.00	Soil	N	—	—	—	—	0.0141 (J)	—	—	—
MD21-01-0288	21-11284	3.00–3.50	Qbt 3	N	—	—	—	—	—	—	—	—
MD21-01-0289	21-11285	1.50–2.00	Soil	N	—	—	0.023 (J)	—	0.0359	0.0052 (J)	—	—
MD21-01-0290	21-11285	3.00–3.50	Qbt 3	N	—	—	—	—	—	—	—	—
MD21-01-0291	21-11286	1.50–2.00	Soil	N	—	—	—	—	—	—	—	—
MD21-01-0292	21-11286	3.00–3.50	Qbt 3	N	—	—	—	—	—	—	—	—
MD21-01-0296	21-11288	3.00–3.50	Qbt 3	N	—	—	—	—	—	—	—	—
MD21-01-0532	21-11291	4.00–5.00	Qbt 3	N	—	—	—	—	—	—	—	—
MD21-01-0538	21-11292	9.00–10.00	Qbt 3	N	—	—	—	—	—	—	—	—
MD21-01-0539	21-11292	14.00–15.00	Qbt 3	N	0.0933 (J)	—	—	—	—	—	—	—
AOC C-21-015												
MD21-01-0541	21-11293	0.00–0.50	Fill	N	—	—	—	—	0.0947 (J)	—	—	—
MD21-01-0543	21-11289	0.00–0.50	Fill	N	—	—	—	—	0.488	—	—	—
MD21-01-0542	21-11290	0.00–0.50	Fill	N	—	—	—	—	0.162	—	—	—

Table 2.3-11 (continued)

Sample ID	Location ID	Depth (ft)	Media	Sample QC type	4-Methyl-2-pentanone	Methylene Chloride	Phenanthrene	Pyrene	Styrene	Toluene	Trichlorofluoro-methane	1,3-Xylene and 1,4-Xylene
SWMU 21-024(f)												
AAA1095	21-01431	0.00–0.50	Soil	N	—	—	—	—	—	—	—	—
AAA1096	21-01431	0.50–1.00	Soil	N	—	—	—	—	—	—	—	—
AAA1097	21-01431	1.00–1.50	Soil	N	—	—	—	—	—	—	—	—
AAA1100	21-01432	0.50–1.00	Soil	N	—	—	—	—	—	0.008	—	—
AAA1101	21-01432	1.00–1.50	Soil	N	—	—	—	—	—	—	—	—
AAA1103	21-01433	0.50–1.00	Soil	N	—	—	—	—	—	—	—	—
AAA1104	21-01433	1.00–1.50	Soil	N	—	0.007	—	—	—	—	—	—
MD21-01-0215	21-11273	0.50–1.00	Soil	N	—	—	—	—	—	—	—	—
MD21-01-0217	21-11273	2.00–2.50	Qbt 3	N	—	—	—	—	—	—	—	—
MD21-01-0218	21-11274	0.50–1.00	Soil	N	—	—	—	—	—	0.0016	—	—
MD21-01-0219	21-11274	2.00–2.50	Qbt 3	N	—	—	—	—	—	—	—	—
MD21-01-0220	21-11275	0.50–1.00	Soil	N	—	—	—	—	—	0.0052	0.0032 (J)	—
MD21-01-0221	21-11275	2.00–2.50	Qbt 3	N	—	—	—	—	—	—	—	—
MD21-01-0222	21-11276	1.00–1.50	Soil	N	—	—	—	—	—	0.0015	0.0011 (J)	—
MD21-01-0223	21-11276	1.00–1.50	Soil	FD	—	—	—	—	—	0.0013	0.0026 (J)	—
MD21-01-0227	21-11276	2.00–2.50	Qbt 3	N	—	—	—	—	—	—	—	—
MD21-01-0224	21-11277	1.50–2.00	Soil	N	—	—	—	—	—	—	—	—
MD21-01-0225	21-11277	3.00–3.50	Qbt 3	N	—	—	—	—	—	—	—	—
MD21-01-0226	21-11278	4.00–4.50	Soil	N	—	—	—	—	—	—	—	—
MD21-01-0228	21-11278	5.50–6.00	Soil	N	—	—	—	—	—	0.00078 (J)	—	—
MD21-01-0229	21-11279	2.00–2.50	Soil	N	0.0202	—	—	—	—	0.0013 (J)	—	—
MD21-01-0230	21-11279	3.50–4.00	Qbt 3	N	—	—	—	—	—	—	—	—

Table 2.3-11 (continued)

Sample ID	Location ID	Depth (ft)	Media	Sample QC type	4-Methyl-2-pentanone	Methylene Chloride	Phenanthrene	Pyrene	Styrene	Toluene	Trichlorofluoro-methane	1,3-Xylene and 1,4-Xylene
MD21-01-0231	21-11280	3.00–3.50	Soil	N	—	—	—	—	—	—	—	—
MD21-01-0232	21-11280	4.50–5.00	Qbt 3	N	—	—	—	—	—	—	—	—
MD21-01-0234	21-11281	5.50–6.00	Soil	N	—	—	—	—	—	—	—	—
MD21-01-0235	21-11281	7.00–7.50	Qbt 3	N	—	—	—	—	—	—	—	—
MD21-01-0236	21-11295	8.80–9.80	Qbt 3	N	—	—	—	—	—	—	0.0144	—
MD21-01-0237	21-11295	12.80–13.80	Qbt 3	N	—	—	—	—	—	—	0.0132	—
MD21-01-0238	21-11295	17.80–18.80	Qbt 3	N	—	—	—	—	0.00032 (J)	0.00055 (J)	0.0145	0.0012 (J)
MD21-01-0239	21-11295	27.80–28.80	Qbt 3	N	—	—	—	—	—	—	0.0048	—
AOC 21-030												
MD21-01-0283	21-11282	1.50–2.00	Soil	N	—	—	0.0075 (J)	0.0823	—	—	—	—
MD21-01-0285	21-11283	1.50–2.00	Soil	N	—	—	0.0238 (J)	0.019 (J)	—	—	—	—
MD21-01-0286	21-11283	3.00–3.50	Qbt 3	N	—	—	—	—	—	—	—	—
MD21-01-0287	21-11284	1.50–2.00	Soil	N	—	—	0.0133 (J)	0.0187 (J)	—	—	—	—
MD21-01-0288	21-11284	3.00–3.50	Qbt 3	N	—	—	—	—	—	—	—	—
MD21-01-0289	21-11285	1.50–2.00	Soil	N	—	—	0.0453	0.0356	—	—	—	—
MD21-01-0290	21-11285	3.00–3.50	Qbt 3	N	—	—	—	—	—	—	—	—
MD21-01-0291	21-11286	1.50–2.00	Soil	N	—	—	—	—	—	—	—	—
MD21-01-0292	21-11286	3.00–3.50	Qbt 3	N	—	—	—	—	—	—	—	—
MD21-01-0296	21-11288	3.00–3.50	Qbt 3	N	—	—	—	—	—	—	—	—
MD21-01-0532	21-11291	4.00–5.00	Qbt 3	N	—	—	—	—	—	—	—	—
MD21-01-0538	21-11292	9.00–10.00	Qbt 3	N	—	—	—	—	—	—	—	—
MD21-01-0539	21-11292	14.00–15.00	Qbt 3	N	—	—	—	—	—	—	—	—

Table 2.3-11 (continued)

Sample ID	Location ID	Depth (ft)	Media	Sample QC type	4-Methyl-2-pentanone	Methylene Chloride	Phenanthrene	Pyrene	Styrene	Toluene	Trichlorofluoro-methane	1,3-Xylene and 1,4-Xylene
AOC C-21-015												
MD21-01-0541	21-11293	0.00–0.50	Fill	N	—	—	—	—	—	—	—	—
MD21-01-0543	21-11289	0.00–0.50	Fill	N	—	—	—	0.259	—	—	—	—
MD21-01-0542	21-11290	0.00–0.50	Fill	N	—	—	—	—	—	—	—	—

Note: All results are in units of mg/kg.

[a] N = Normal sample.

[b] — = Not detected or not analyzed.

[c] (J) = Estimated value.

[d] FD = Field duplicate.

Thirty-three organic chemicals were detected in the site confirmation samples and are retained as COPCs. Nearly all of the detected organic chemicals were reported in less than half the samples. The single exception is acetone, which was detected in 11 of 19 soil samples. All of the detected organic chemicals were detected at concentrations near the EQL.

2.3.2.4 Summary of COPCs at SWMU 21-024(f) and AOCs C-21-015 and 21-030

Table 2.3-12 summarizes the results of the data review for soil, fill, and tuff samples at SWMU 21-024(f) and AOCs C-21-015 and 21-030. The table lists all inorganic chemicals, radionuclides, and organic chemicals analyzed for in the site confirmatory samples that are retained as COPCs, and describes the basis for the decision to retain a chemical as a COPC.

Table 2.3-12
Summary of Data Review Results

COPC	Rationale
Inorganic COPCs	
Aluminum	Exceeds BV in nine samples
Antimony	Detection limits exceeded BVs
Arsenic	Statistically different than the background data set
Barium	Exceeds BV in twelve samples
Beryllium	Statistically different than the background data set
Cadmium	Statistically different than the background data set
Chromium	Statistically different than the background data set
Cobalt	Statistically different than the background data set
Copper	Exceeds BV in six samples
Lead	Statistically different than the background data set
Lithium	No BV; Detected in one or more samples
Mercury	Exceeds BV in one or more samples
Nickel	Statistically different than the background data set
Perchlorate	No BV; detected in one or more samples
Silver	Detection limits exceeded BVs
Selenium	Exceeds BV in seven samples
Strontium	No BV; detected in one or more samples
Uranium	Statistically different than the background data set
Zinc	Statistically different than the background data set
Radionuclide COPCs	
Americium-241	Exceeds FV in four soil samples and detected in tuff samples
Cesium-137	Exceeds FV in three soil samples
Plutonium-238	Exceeds FV in two soil samples
Plutonium-239	Statistically different than the background data set
Thorium-228	Exceeds BV in two soil samples; high analytical variability
Tritium	Not screened against FV; detected in one or more samples
Uranium-235	Statistically different than the background data set

Table 2.3-12 (continued)

COPC	Rationale
Organic COPCs	
Acetone	Detected in one or more samples
Anthracene	Detected in one or more samples
Aroclor-1016	Detected in one or more samples
Aroclor-1242	Detected in one or more samples
Benzene	Detected in one or more samples
Benzo(a)anthracene	Detected in one or more samples
Benzo(b)fluoranthene	Detected in one or more samples
Benzo(k)fluoranthene	Detected in one or more samples
Bis(2-chloroethyl)ether	Detected in one or more samples
Bis(2-ethylhexyl)phthalate	Detected in one or more samples
2-Butanone	Detected in one or more samples
Butylbenzylphthalate	Detected in one or more samples
Chloromethane	Detected in one or more samples
2-Chlorophenol	Detected in one or more samples
Chrysene	Detected in one or more samples
Dibenzofuran	Detected in one or more samples
1,3-Dichlorobenzene	Detected in one or more samples
1,4-Dichlorobenzene	Detected in one or more samples
Dichlorodifluoromethane	Detected in one or more samples
Di-n-butylphthalate	Detected in one or more samples
Ethylbenzene	Detected in one or more samples
Fluoranthene	Detected in one or more samples
Fluorene	Detected in one or more samples
2-Hexanone	Detected in one or more samples
4-Isopropyltoluene	Detected in one or more samples
4-Methyl-2-pentanone	Detected in one or more samples
Methylene chloride	Detected in one or more samples
Phenanthrene	Detected in one or more samples
Pyrene	Detected in one or more samples
Styrene	Detected in one or more samples
Toluene	Detected in one or more samples
Trichlorofluoromethane	Detected in one or more samples
1,3-Xylene and 1,4-Xylene	Detected in one or more samples

2.3.3 Revised Conceptual Site Model

The preliminary conceptual site model identified potential release mechanisms as leaks from the septic tank and sump, leaking joints in inlet and outlet lines, overflow of the concrete sump, and the intended release of septic tank contents within the SWMU 21-024(f) outfall pit. Results of the VCA activities at SWMU 21-024(f) and AOCs 21-030 and C-21-015 showed the preliminary conceptual model for these sites need not be revised.

2.3.3.1 Nature and Extent of Contamination

The distribution of COPCs at SWMU 21-024(f) and AOCs C-21-015 and 21-030 was evaluated in light of the conceptual site model. Aspects of this evaluation included (1) the presence of the chemical in the waste samples collected from the tank and sump, (2) the presence of the chemicals in samples from the intentional discharge point (i.e., the outfall pit), (3) the distribution of potential contaminants under structures where leaks could occur (i.e., tank, sump, and lines), and (4) downgradient of the sump and pit where releases could occur from overflow.

Inorganic Chemicals

The distribution of inorganic chemicals detected above BVs at SWMU 21-024(f) and AOCs 21-030 and C-21-015 are shown in Figures 2.3-3 and 2.3-4. Nineteen inorganic chemicals were retained as COPCs. As discussed in the data review, above-background sample concentrations are in general only slightly elevated (typically less than 2 times BV) and none of the COPCs were detected above the BV in more than half the samples.

SWMU 21-024(f)

The distribution of inorganic chemicals within the outfall pit at SWMU 21-024(f), where wastes were intentionally released, follows the conceptual site model. Inorganic chemicals detected within the tank sludge and liquids (e.g., chromium, lead, mercury; see Appendix D, Table D-2.0-3, Waste Data) were detected at the highest concentrations in the shallowest sample collected within the outfall pit (location ID 21-11294, 6 to 10 in. bgs). Concentrations of these COPCs decrease with depth at this location. Chromium was detected in the shallow (6 to 10 in. bgs) pit sample at 20 mg/kg. Chromium concentrations in all three of the deeper samples fall below the BV for Qbt 3 (7.14 mg/kg). Lead was detected in the shallow pit sample at 28 mg/kg and decreases to below the BV for Qbt 3 (11.4 mg/kg) in all three deeper samples. Mercury was detected at 25 mg/kg in the shallow pit sample and likewise decreases below the BV for Qbt 3 (0.1 mg/kg) in the three deeper samples. This decrease with depth in the pit boring placed in 2001 (location ID 21-11294) is very consistent among inorganic constituents found in the septic tank. This trend cannot be seen in Figure 2.3-3 because the soil within the pit (approximately 0 to 0.75 ft bgs) was removed during site restoration. However, the data are included in Appendix D, Table D-2.0-2 (Excavated Samples).

Most of the inorganic constituents detected in the tank contents and the shallowest outfall pit sample were either not detected elsewhere at SWMU 21-024(f) or were detected in only a few samples at concentrations similar to background concentrations. Lead and mercury are detected above BVs in two of the samples down slope of the pit, and show a decrease in concentration with distance from the outfall pit. The rest of the slope samples have only lithium and strontium detections. Approximately half of the detections shown in Figures 2.3-3 are attributable to lithium and strontium, which have no published BVs and are retained as COPCs whenever detected.

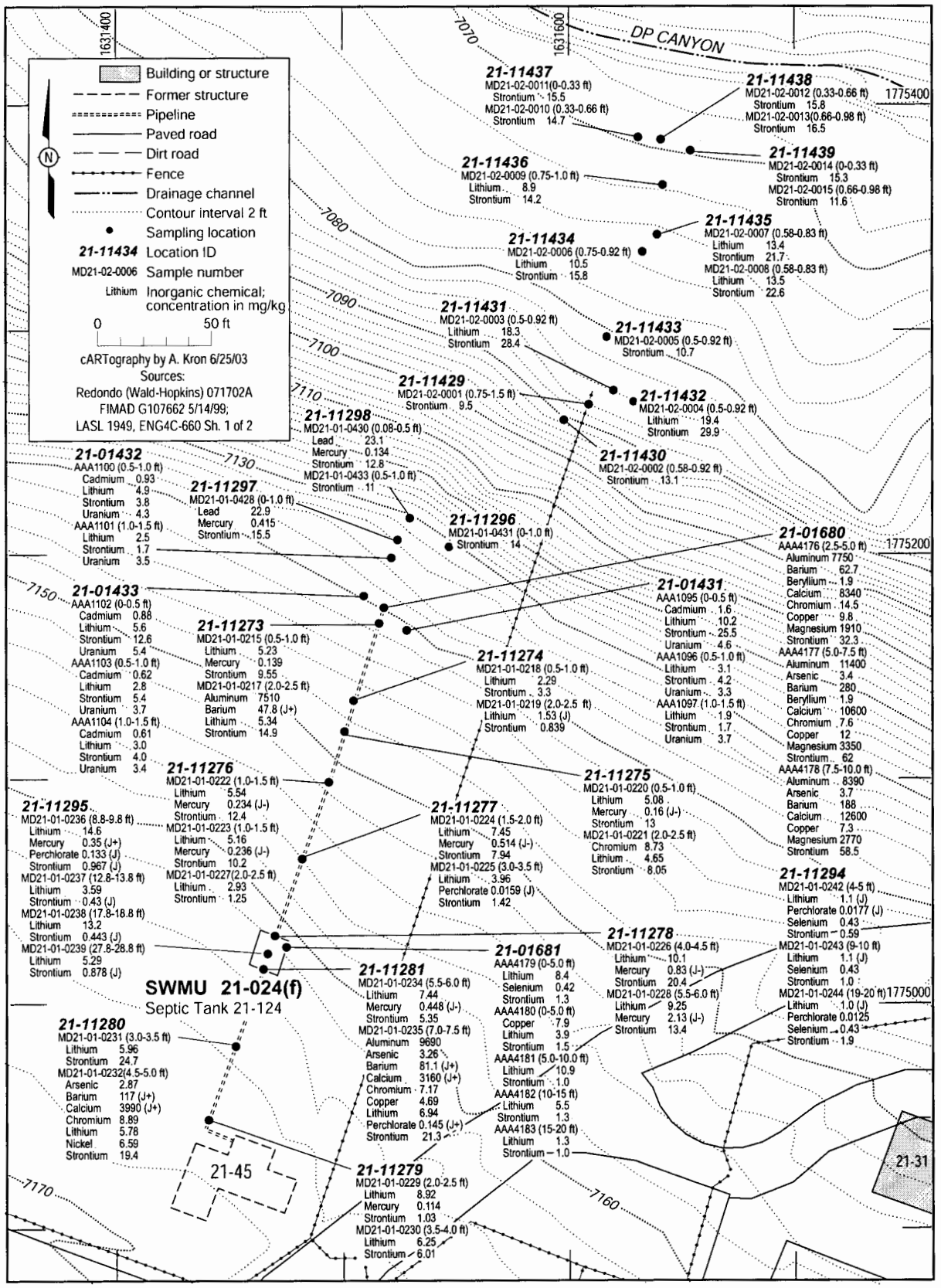


Figure 2.3-3. Sample locations of inorganic chemicals above background, SWMU 21-024(f)

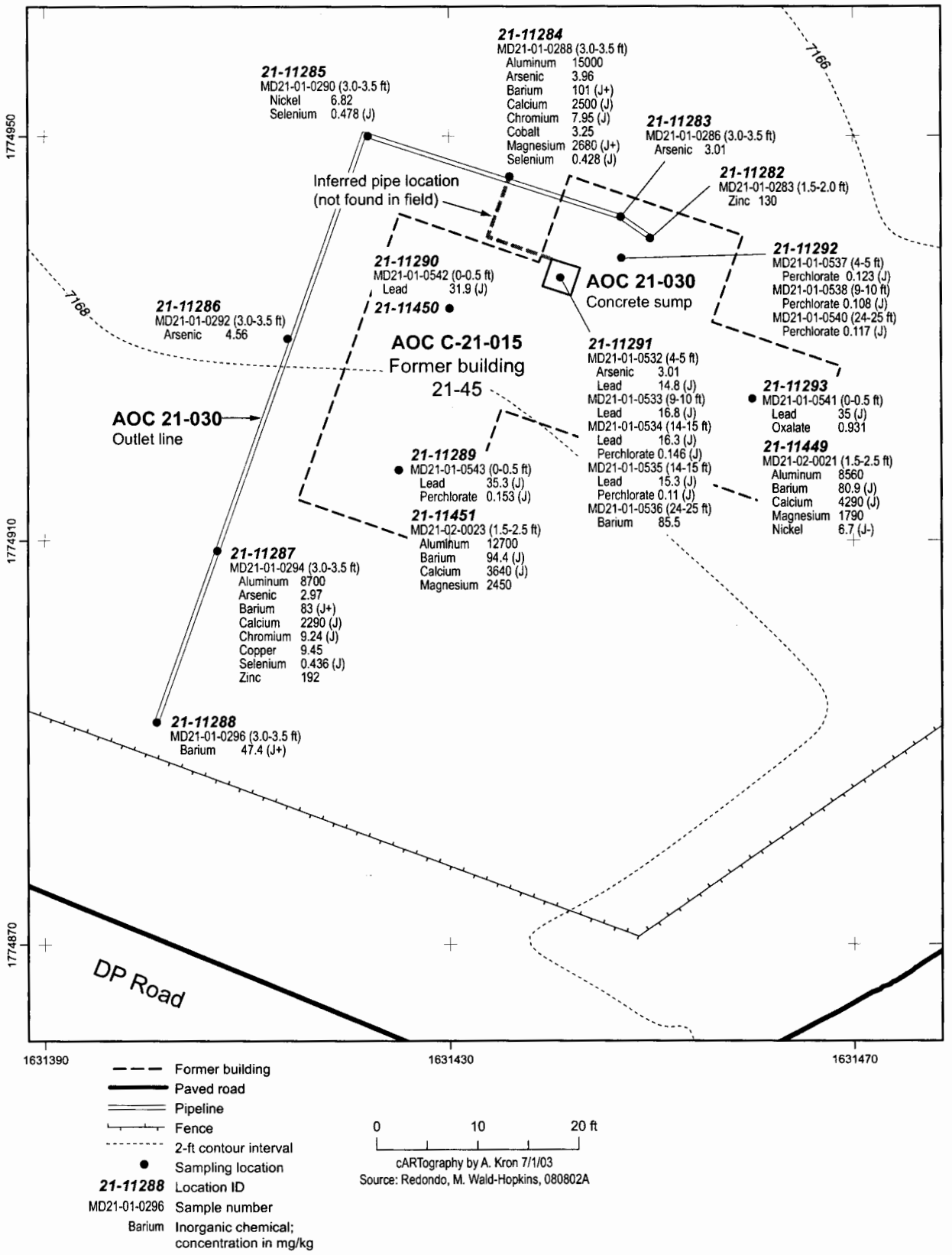


Figure 2.3-4. Sample locations of inorganic chemicals above background, AOCs C-21-015 and 21-030

Although there was no evidence of any leaks from the VCP inlet and outlet lines, mercury was detected in samples from several locations under the line. Mercury is generally detected only in the shallowest sample collected at any given location. This trend has been noted at other TA-21 locations and may be the result of the glaze or some other component of the VCP (LANL 2003, 76053). Mercury was detected at location 21-11278 (under the outlet) at 0.83 mg/kg at 4 to 4.5 ft bgs and at 2.13 mg/kg at 5.5 to 6 ft bgs. Although a deeper sample was not collected at this location, the sample location beneath the septic tank (21-11295) had mercury at 0.35 mg/kg at 8.8 to 9.8 ft bgs and no detected concentrations of mercury in three deeper samples, down to nearly 30 ft bgs. This location is within ten ft of 21-11278 and indicates that the elevated mercury at 5.5 to 6 ft beneath the outlet is limited in vertical extent. All other samples collected beneath the inlet and outlet line had lower concentrations of mercury than the samples collected from location 21-11278, indicating limited lateral extent.

Samples collected in 1993 from the borehole drilled within the outfall pit (location 21-01680) contained several inorganic chemicals at concentrations in excess of BVs. Samples collected in 2001 from another borehole drilled within the outfall pit (location 21-11294) contained only lithium, strontium, selenium, and perchlorate. Strontium, which was detected in both sets of samples, was reported at concentrations more than an order of magnitude lower in the 2001 VCA confirmation samples than the 1993 RFI samples. The 2001 sample results are consistent with the other sample results for inorganic chemicals across this SWMU and indicate that the 1993 data from location 21-01680 are not representative of inorganic chemical concentrations at this SWMU.

Strontium and lithium were detected across SWMU 21-024(f) in the surface soil as well as in the tuff (Figure 2.3-3). Although the Laboratory-wide BVs for these metals have not been determined, both are naturally occurring elements. In general, strontium and lithium concentrations either decrease or remain constant with depth. There are a few locations where strontium increases with depth (21-11281 and 21-11273) but these locations are close to other locations (within 10–20 ft) where strontium does decrease with depth indicating that the extent of elevated subsurface concentrations is limited. Strontium and lithium concentrations in soil are somewhat higher on the outfall slope than on the mesa top (Figure 2.3-3). This difference may be due in part to releases from the outfall pit, as both inorganic chemicals were detected in the septic tank contents (3.2 mg/kg lithium and 33 mg/kg strontium). It may also be related to the higher organic content of soils on the slope versus those on the mesa top.

Perchlorate was detected in 5 of 30 VCA confirmation samples (all Qbt3) with concentrations ranging from 0.0125 mg/kg to 0.145 mg/kg. All detected concentrations are at depth and are detected at trace levels below or slightly above the estimated detection limit (EDL) (0.037 mg/kg). Because perchlorate was not detected in the tank contents, the concentrations of perchlorate are not due to a release from the septic system and the infrequent detection of perchlorate at trace levels do not warrant further sampling for extent.

In general, the concentrations of inorganic chemicals across SWMU 21-024(f) decrease or remain relatively constant with depth and decrease laterally from the mesa top northward into DP Canyon. Therefore, the VCA confirmation samples have defined the extent of contamination originating from this SWMU.

AOCs C-21-015 and 21-030

Aluminum, arsenic, barium, and lead are the four inorganic chemicals most frequently detected above their respective BVs at AOCs C-21-015 and 21-030. These metals were not detected at concentrations greater than two times their BVs. Perchlorate is also detected regularly, but has no BV. Lead and perchlorate are most prevalent in the building footprint (AOC C-21-015), arsenic is most prevalent along

the sump outlet line (AOC 21-030), and aluminum and barium are found in both locations. All four inorganic chemicals were detected in samples from beneath the sump (AOC 21-030).

None of the other inorganic chemicals detected above BVs at AOCs 21-030 and C-21-015 are detected with any regular frequency or distribution. Nickel, for instance, is detected just above the Qbt 3 BV of 6.58 mg/kg in one sample from beneath the outlet line (6.82 mg/kg) and one sample from within the building footprint (6.7 mg/kg). Selenium is detected in three samples just above the Qbt 3 BV of 0.3 mg/kg (0.478, 0.428, and 0.436 mg/kg). Chromium is detected in two outlet line samples at concentrations slightly above the Qbt 3 BV of 7.14 mg/kg (7.95 and 9.24 mg/kg). Zinc is present in two outlet line samples at concentrations three times the appropriate medium-specific BV.

With the exception of only one zinc detection (location 21-11282), all of the detections beneath the outlet line are in the deeper Qbt 3 sample with no exceedance of BVs in the corresponding shallow soil sample. This distribution indicates contaminants are not present as a result of releases from the outlet line. Lead generally decreases with depth within the sump and building footprint. Barium shows up in deeper samples without being detected in shallower samples. Perchlorate detections show very little trend, as they either decrease with depth (locations 21-11291 and 21-11289/-11451), are not detected, or remain constant (location 21-11292) at concentrations slightly below the EDL (0.15 mg/kg). Arsenic is detected only in the shallowest sample beneath the sump.

Radionuclides

Seven radionuclide COPCs were identified for SWMU 21-024(f) and AOCs C-21-015 and 21-030: americium-241, cesium-137, plutonium-238, plutonium-239, thorium-228, uranium-235, and tritium (Figures 2.3-5 and 2.3-6).

SWMU 21-024(f)

There were several radionuclides detected in the septic tank and detected in the outfall pit with a clearly decreasing trend with depth. Plutonium-239 and americium-241 are the radionuclides that were detected in septic tank sludge at the highest concentrations (579 and 22.4 pCi/g, respectively). Plutonium-239 was detected in the shallowest outfall pit sample (location 21-11294), which was subsequently excavated, at a concentration of 27.4 pCi/g. Americium-241 was detected in the shallow outfall pit sample at 0.85 pCi/g. Neither these nor any other fallout radionuclides were detected in the three deeper samples collected from the outfall pit borehole. No naturally occurring radionuclides were detected above Qbt 3 BVs at this location (see Figure 2.3-5). Both plutonium-239 and americium-241 were detected in samples collected down slope and to either side of the outfall pit, but show decreasing trends with distance from the outfall pit.

In other parts of SWMU 21-024(f), plutonium-239 and tritium are the most commonly detected radionuclides. Plutonium-239 is present at concentrations consistent with samples collected across TA-21 "non-process" areas to characterize the effect of air emissions on TA-21 surface soil (LANL 1995, 52350). These samples were collected on a grid, and yielded a range of plutonium-239/240 concentration of 0.002 to 3.26 pCi/g.

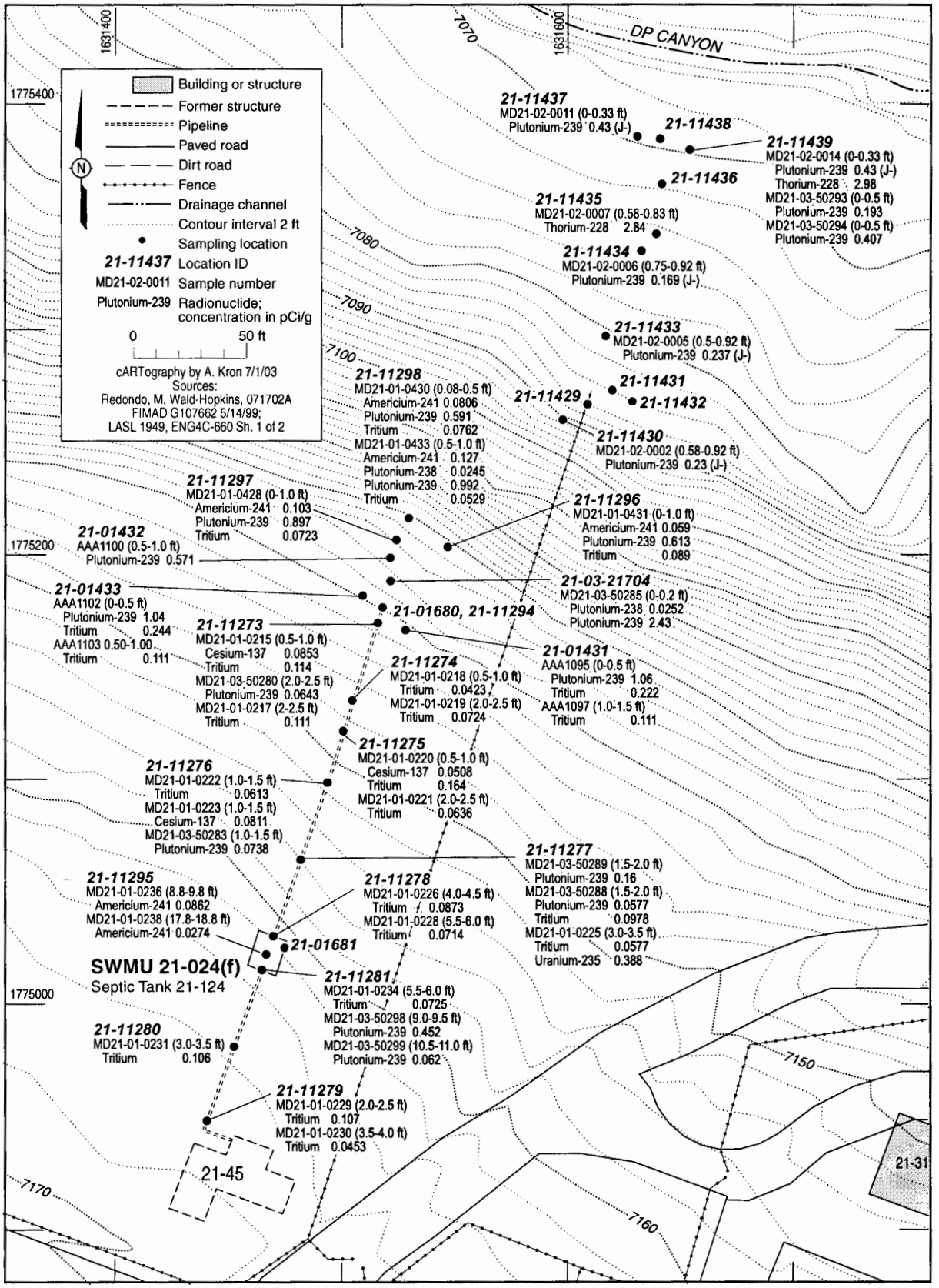


Figure 2.3-5. Radionuclide concentrations greater than background, SWMU 21-024(f)

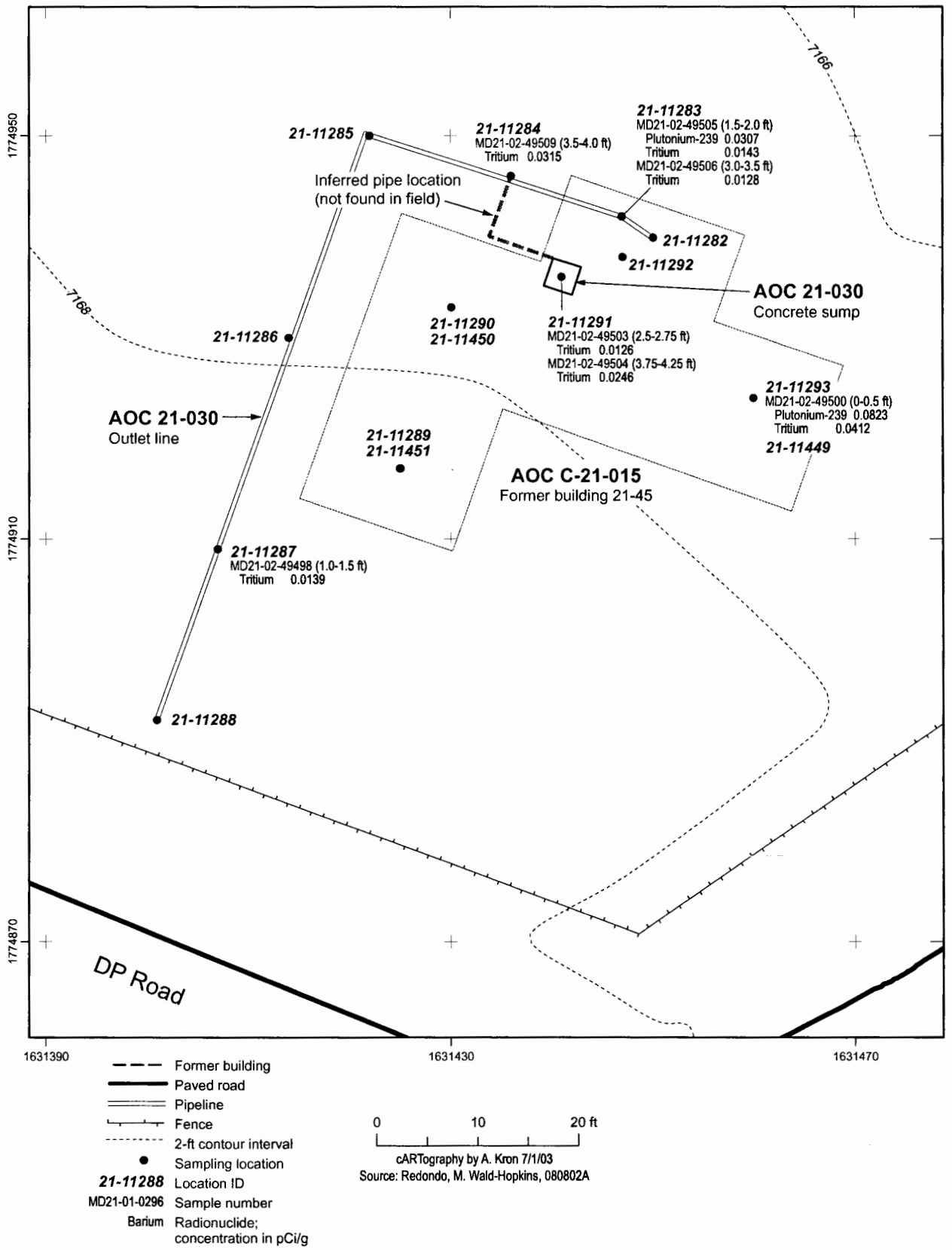


Figure 2.3-6. Radionuclide concentrations greater than background, AOCs C-21-015 and 21-030

Tritium is detected consistently along the VCP inlet and outlet lines associated with the septic tank at concentrations ranging from 0.0423 pCi/g to 0.114 pCi/g. It was detected in liquid samples collected from the tank at a concentration of 328 pCi/L. This value is less than the FV reported for tritium in soil moisture, which is 0.76 pCi/mL, or 760 pCi/L (LANL 1998, 59730). Although there was no physical evidence of a release from the line, tritium is capable of diffusing through materials via replacement of hydrogen atoms. Tritium generally shows a decreasing trend with depth in sample locations along the VCP, and decreases laterally to the north.

The remaining radionuclides detected above BVs/FVs in samples from SWMU 21-024(f) are detected infrequently. Cesium-137 was detected above the FV in three samples at relatively low concentrations (less than 0.1 pCi/g). Plutonium-238 was detected in the shallowest pit sample at a concentration of 0.182 pCi/g prior to excavation, and was detected in two samples downslope of the pit at just over 0.2 pCi/g. The detections on the slope coincide with detections of plutonium-239 and are likely the result of site activities. Plutonium-239 was not detected in samples collected farther down the slope into DP Canyon. Uranium-235, a naturally occurring radionuclide, was detected at a concentration above the BV in one tuff sample collected beneath the outlet line.

Thorium-228, another naturally occurring radionuclide, was detected in the septic tank contents at 0.711 pCi/g. Prior to removal of the outfall pit, thorium-228 was detected in the shallowest sample at location 21-11294 at a concentration of 1.59 pCi/g, well below the soil BV of 2.28 pCi/g. Although thorium-228 exceeded the BV in two of the slope samples (2.84 and 2.98 pCi/g at locations 21-11435 and 21-11439, respectively), it was not detected above the BV in any other samples collected down slope from the outfall pit or any other part of the site. In addition, the field duplicate sample from location 21-11435 had only 1.51 pCi/g thorium-228, well below the BV. Resampling for thorium-228 at location 21-11439 to better understand the analytical variability yielded a result of 1.2 pCi/g. The thorium-228 distribution at the site appears to be the result of locally variable background and/or high analytical variability.

AOCs C-21-015 and 21-030

Tritium and plutonium-239 were the only radionuclides detected at the AOCs. Tritium was detected in seven samples distributed randomly within the building footprint, under the outlet line, and under the sump (see Figure 2.3-6). Plutonium-239 was detected in only two AOC samples: one surface sample from the building footprint (location 21-11293) and one sample immediately beneath the sump outlet line. They were present at low concentrations (less than 0.1 pCi/g) and generally exhibited a decreasing trend with depth. The observed detections are within the ranges generally found within TA-21 non-process areas (0.002 to 3.26 pCi/g plutonium-239/240 and 0.005 to 0.9 pCi/g tritium at an assumed 10% soil moisture content) (LANL 1995, 52350).

Organic Chemicals

Thirty-three organic analytes were detected at SWMU 21-024(f) and AOCs 21-030 and C-21-015 (Figures 2.3-7 and 2.3-8). All of the organic chemicals detected were present at low concentrations, with the majority of results close to EQLs and J-qualified.

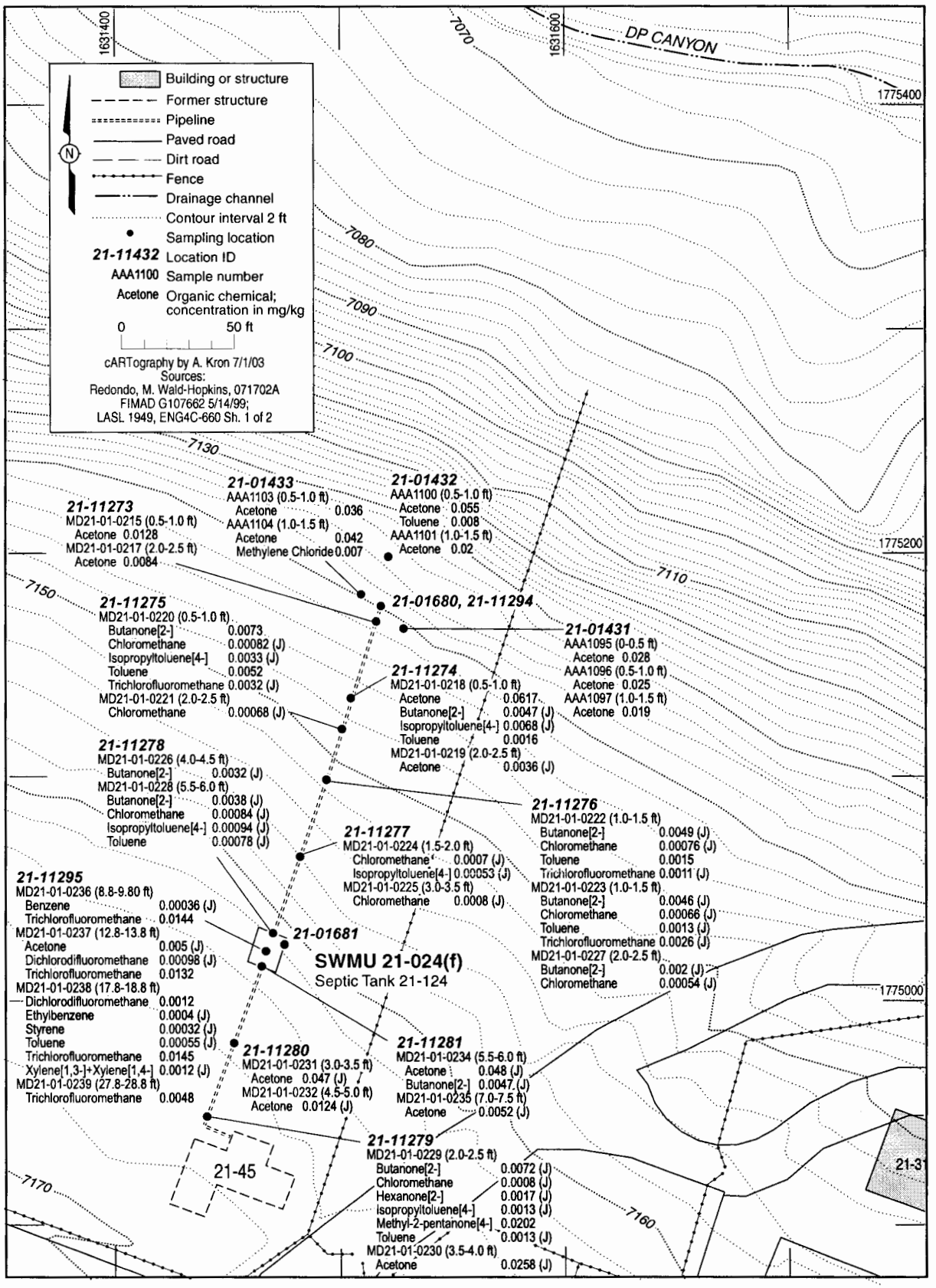


Figure 2.3-7. Sample locations of detected organic chemicals for SWMU 21-024(f)

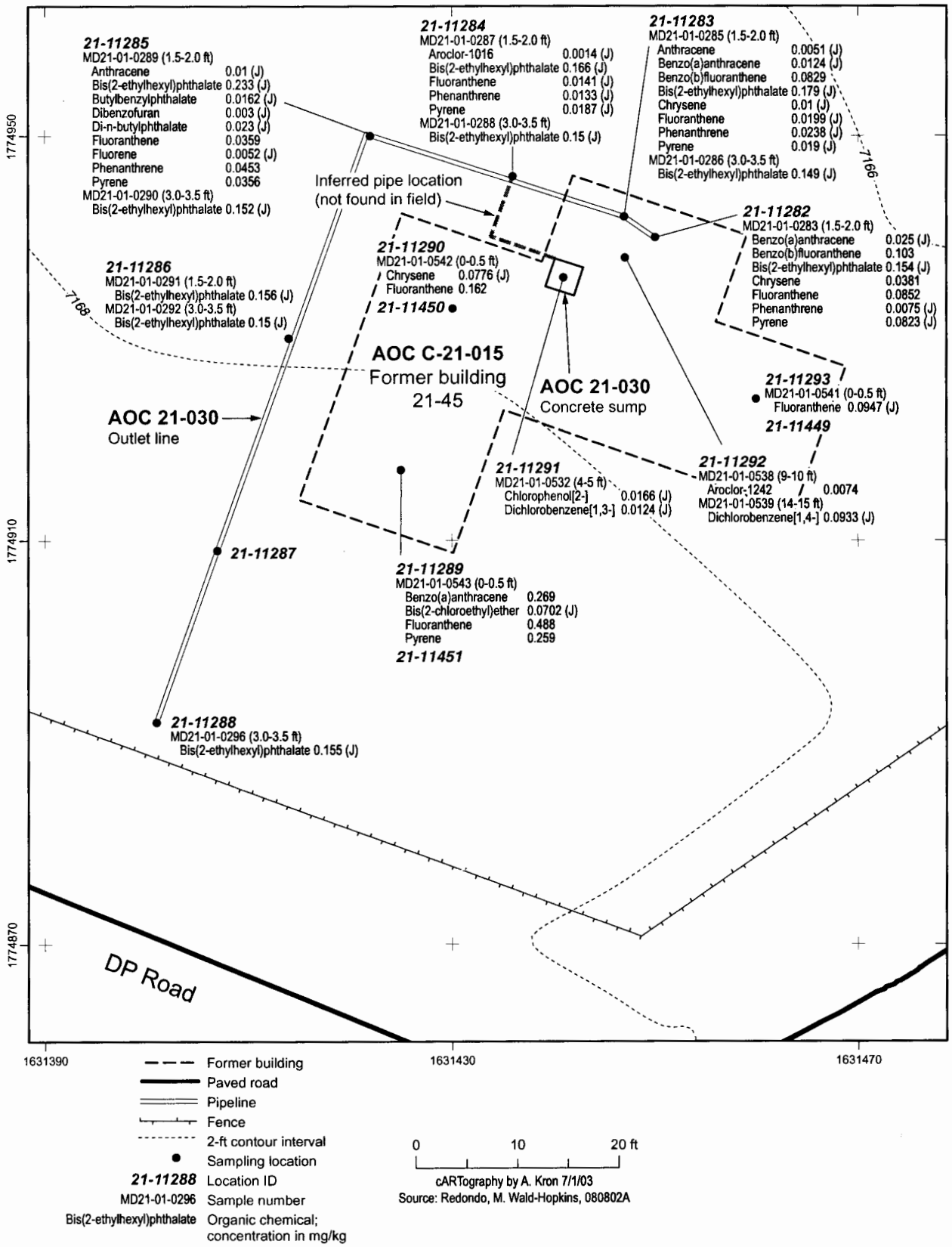


Figure 2.3-8. Sample locations of detected organic chemicals for AOCs C-21-015 and 21-030

SWMU 21-024(f)

Only a few organic chemicals were detected in the septic tank contents. These include acetone, Aroclor-1260, bromochloromethane, 2-butanone, 4,4'-DDT, isopropyltoluene, and methylene chloride. Because Aroclor-1260 and 4,4'-DDT were detected in only one of the septic tank sludge samples at low J-qualified concentrations, pesticides and PCBs were not added to the SWMU 21-024(f) analytical suite. Of the remaining organic compounds detected in the tank contents, one (bromochloromethane) was not detected in site samples. Methylene chloride was detected in only one sample at 0.007 mg/kg, which is slightly above the EQL (0.0069 mg/kg). Acetone, 2-butanone, and isopropyltoluene were detected in several samples from the site. Only acetone and isopropyltoluene were detected in the shallow outfall pit sample (location 21-11294, 6 to 10 in. bgs), which was subsequently excavated. Consistent with the distribution of inorganic and radionuclide COPCs, acetone and isopropyltoluene were not detected in deeper samples from the pit. All detected organic chemicals are VOCs that are detected at trace levels (below or near the EQLs) and show a general decrease with depth.

AOCs C-21-015 and 21-030

More than half of the organic COPCs detected in soil samples from the AOCs are polyaromatic hydrocarbons (PAHs). Although PAHs were detected in waste samples collected from the sump, they were not detected in the shallowest sample beneath the sump, suggesting no release. PAHs are detected in some of the shallowest samples collected beneath the sump outlet line, but are not detected in the deeper samples from beneath the line. Some PAHs are also detected in surface samples from within the footprint of building 21-45. The PAHs at the AOCs may be the result of site activities, or they may be the result of surface run-on from nearby DP Road. They are generally reported below or slightly above the EQLs (0.39 mg/kg) and show a decreasing trend with depth.

Summary of Nature and Extent

Based on the nature and extent of contamination detected in samples collected from SWMU 21-024(f) and AOCs C-21-015 and 21-030, there has not been a major release of contaminants attributable to the septic system or waste research activities conducted at Building 21-45. Contamination at the site that is consistent with the conceptual site model was evidenced by elevated concentrations of plutonium-239 and mercury in the shallowest sample collected from the outfall pit, and potentially some of the mercury and PAH detections immediately under the septic tank and sump lines, respectively. The sump sample location, which had the highest concentrations of several COPCs, was subsequently excavated during restoration of the outfall pit, and is no longer representative of site conditions. The mercury and PAH detections under lines at the site are low and show a consistently decreasing trend (usually to below BV or DLs) with depth. Based on the field screening and visual observations, there is no evidence of a release from the septic tank or sump and associated piping.

Past TA-21 industrial activities have resulted in low-level impacts across TA-21, and these impacts apply to SWMU 21-024(f) and AOCs C-21-015 and 21-030. The scattered, variable, and low concentrations in surface soil of some site COPCs make defining the spatial extent of contamination difficult. However, COPCs generally decrease with depth and distance from the SWMU and AOCs and are consistent with the conceptual site model. Therefore, the nature and extent of residual contamination resulting from activities at the SWMU and AOCs has been defined.

2.3.3.2 Environmental Fate and Transport

The evaluation of environmental fate addresses the chemical processes that affect the persistence of a chemical in the environment. The evaluation of transport addresses the physical processes that affect mobility of a contaminant along a given migration pathway. The following paragraphs summarize the fate and transport tendencies of the COPCs at SWMU 21-024(f) and AOCs 21-030 and C-21-015.

Water solubility is perhaps the most important chemical parameter used to assess chemical mobility and ultimate fate in the environment. 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, and persist in the environment. Chemicals with water solubility greater than 1 g/l are more prone to biodegradation and metabolism. Chemicals with water solubility less than 0.01 g/l are more likely to be immobilized by adsorption (Ney 1995, 58210). Vapor pressures also indicate a chemical's fate and transport tendencies. Chemicals with vapor pressure greater than 0.01 mm Hg are more likely to volatilize and diffuse through the soil pore-gas, with potential release to the atmosphere. Chemicals with vapor pressures less than 1.0×10^{-6} mm Hg are less likely to volatilize and therefore remain immobile (Ney 1995, 58210). Table 2.3-13 presents data for vapor pressure and solubility of COPCs. Note that inorganic and radionuclide COPCs that are not listed in the table are not expected to be soluble or volatile.

Table 2.3-13
Physicochemical Properties of COPCs, SWMU 21-024(f) and AOCs C-21-015 and 21-030

Analyte	Vapor Pressure[a] (mmHg)	Water Solubility[a] (g/L)
Inorganic Chemicals		
Aluminum	8.74 E-10	Insoluble[b]
Beryllium	~ 0[b]	5.0 E-4[c]
Mercury	1.96 E-3	Insoluble[b]
Perchlorates (Na, K, NH_4)	~0[d]	Soluble[c,e]
Selenium	1.00 E-3[b]	Insoluble
Radionuclides		
Tritium	17.5[f]	n/a[g]
Organic Chemicals		
Acetone	231	1000
Anthracene (PAH)	2.67 E-6	4.34 E-5
Aroclor-1016 (PCB)	4.0 E-4	2.7 E-4
Aroclor-1242 (PCB)	8.3 E-5	2.8 E-4
Benzene	94.8	1.8
Benzo(a)anthracene (PAH)	1.9 E-6	9.4 E-6
Benzo(b)fluoranthene (PAH)	5.0 E-7	1.5 E-6
Benzo(k)fluoranthene (PAH)	9.65 E-10	8.0 E-7
Bis(2-ethylhexyl)phthalate	1.42 E-7	2.7 E-4
2-Butanone	91b	353b
Butylbenzylphthalate	8.6 E-6[b]	7.1 E-4[b]
Chloromethane	4300	5.32

Table 2.3-13 (continued)

Analyte	Vapor Pressure[a] (mmHg)	Water Solubility[a] (g/L)
2-Chlorophenol	2.53	28.5
Chrysene (PAH)	6.23 E-9	2.0 E-6
Dibenzofuran	2.48 E-3	3.1 E-3
1,3-Dichlorobenzene	2.15	0.125
1,4-Dichlorobenzene	1.74	0.0813
Dichlorodifluoromethane	4850	0.280
Di-n-butylphthalate	2.01 E-5[b]	0.013[b]
Ethylbenzene	9.6	0.169
Fluoranthene (PAH)	9.22 E-6	2.6 E-5
Fluorene (PAH)	8.42 E-3	1.89 E-3
2-Hexanone	11.6	17.5
4-Isopropyltoluene	1.55[b]	0.0234[b]
4-Methyl-2-pentanone	19.9[b]	19.0b
Methylene chloride	435	13.0
Phenanthene (PAH)	1.12 E-4	1.15 E-3
Pyrene (PAH)	4.5 E-6	1.35 E-4
Styrene (PAH)	6.4	0.310
Toluene	28.4	0.526
Trichlorofluoromethane	803	1.1
m-Xylene	8.29	0.161
o-Xylene	7.99	0.106

Note: Solubility and vapor pressure as given in Table 2.3-13 are for the elemental form of each inorganic or radionuclide constituent.

[a] Source: DOE (2001, 70089), unless otherwise noted.

[b] Source: HSDB (2001, 63385).

[c] Source: CRC (1985, 40244).

[d] Perchlorates are crystalline solids and based on general knowledge the vapor pressure is approximately 0 mm Hg.

[e] Solubility for Na-perchlorate: 2090 g/l; NH4-perchlorate: 107.4 g/l; and K-perchlorate: 7.5 g/l. Source: CRC (1985, 40244).

[f] Source: CRC (1985, 40244); value represents vapor pressure of water at 20 0 C.

[g] n/a = Not applicable.

Organic Chemicals

Most VOCs, such as acetone, benzene, 2-butanone, methylene chloride, toluene, and trichlorofluoromethane, have relatively high solubility and high vapor pressure, indicating the dominant phase of these chemicals is gaseous and they are present mainly in soil gas. Both 4-isopropyltoluene and dichlorodifluoromethane have low water solubility but high vapor pressures, indicating these chemicals are not highly mobile in the dissolved state but are volatile. Some of the organic COPCs, most notably the PCBs (Aroclor-1016 and Aroclor-1242), phthalates (bis-2[ethylhexyl]phthalate, butylbenzylphthalate and

di-n-butylphthalate) and PAHs (see Table 2.3-13) have low vapor pressure and solubility, and tend to be less mobile and more persistent in the environment.

Inorganic Chemicals

Table 2.3-13 lists only those inorganic COPCs with measurable solubility and/or vapor pressure greater than 0 mm/Hg. In general, metals and other inorganic chemicals tend not be very soluble or mobile in the environment. There are some exceptions, however, such as perchlorates that, depending on form, can be significantly soluble; and mercury and selenium that, in their elemental form, can be volatile. The speciation of the COPCs at the SWMUs and AOCs is unknown. Appendix F provides more detailed information on the properties that affect fate and transport for each of the inorganic COPCs.

Radionuclides

Several of the radionuclides identified as COPCs at SWMU 21-024(f) and AOCs 21-030 and C-21-015 are actinides, including americium-241, plutonium-238 and -239, thorium-228, and uranium-235. These actinides have similar chemical properties, but widely varying half-lives (e.g., thorium-228 with a half-life of 1.9 years vs. uranium-235 with a half-life of 704 million years). The following information on actinides is summarized from Whicker and Schultz (1982, 58209, pp. 147–162).

In general, the actinide nuclides form comparatively insoluble compounds in the environment and are not considered biologically mobile. The actinides are transported in ecosystems mainly by physical and sometimes chemical processes. Uptake of actinides by plants from soil is generally considered to be low. Plutonium in the environment undergoes hydrolysis and oxidation with plutonium oxide (PuO_2) as a common form. Under most environmental conditions, plutonium occurs in forms that are poorly transferred across biological membranes; therefore, movement of plutonium from soil and sediments to plants and animals is greatly inhibited.

Because plutonium and americium under oxidizing conditions preferentially bind to fine soil or sediment particles or organic matter with high surface to volume ratios, it is likely they will be transported and deposited with sediments.

Two additional radionuclide COPCs at the SWMU and AOCs are cesium-137 and tritium, which are both fallout radionuclides. Cesium-137 has a half-life of approximately 30 years. Cesium-137 is so tightly bound by the clay minerals of soil that root uptake is slight. (Eisenbud and Gesell 1977, 70130, page 104). Tritium has a half-life of approximately 12 years. In the form of tritiated water, tritium generally follows the hydrologic cycle. Tritium released in liquid form can be diluted by water and is subject to physical dispersion, percolation, and evaporation. Tritium readily enters plants by way of the roots (Whicker and Schultz, 1982, 58209, pp. 147-162). Because of their relatively short half-lives, both cesium-137 and tritium will persist in the environment for a short period of time compared to the other fallout radionuclides that are COPCs.

2.4 Site Assessments

2.4.1 Screening Assessments

The human health screening assessment was performed according to the process outlined in the draft IWP (LANL 2000, 66802) and Laboratory guidance (LANL 2002, 72639). The ecological screening assessment was performed in accordance with the process outlined in "Screening Level Ecological Risk Assessment Methods" (LANL 1999, 64783).

2.4.1.1 Human Health

(a) Scoping

Although SWMU 21-024(f) and AOCs C-21-015 and 21-030 are located in an area currently used for industrial purposes, the potential present-day risks were evaluated using a residential land-use scenario because it is most protective of human health. The SALs used in the screening evaluation reflect a residential exposure scenario based on exposure 24 hr/day and 350 days/yr. Exposure to both adults and children are taken into account in calculation of SALs for radionuclides. Potential exposure pathways include inhalation of particulates, dust or vapors, incidental ingestion of soil, dermal contact with the soil, and external irradiation.

(b) Screening Evaluation

The 95% upper confidence limit (UCL) was used as an upper limit on the average exposure concentration for receptors, which is a better representation of the actual site-wide COPC concentrations than a maximum value (EPA 1989, 08021). There were a sufficient number of confirmation samples to calculate the 95% (UCL) of the arithmetic mean as the exposure point concentration for each COPC. For each detected COPC, a dataset was generated for samples taken in the 0- to 12-ft interval. This depth interval is identified in Laboratory guidance as the interval of interest for human health screening (LANL 2002, 72639). Ninety-five percent UCLs were estimated using these datasets. The 95% UCL was not calculated for antimony and silver since they were not detected, but had elevated DLs. Therefore, the maximum DL was used as the representative concentration for antimony and silver.

Appendix E provides details of the statistical calculations of the 95% UCLs used in this screening assessment.

The screening assessment is a comparison of COPC concentrations with SALs. SALs for nonradiological COPCs were calculated based on the methodology provided in Appendix C of the draft IWP (LANL 2000, 66802) and LANL (2002, 72639). The methodology is based on guidance from NMED (2000, 68554) and US Environmental Protection Agency Region 6 (EPA 2002, 73691). The methodology for radionuclides is described in LANL (2001, 69683). The SAL comparison is presented separately for noncarcinogenic chemicals, carcinogenic chemicals, and radionuclides. The SALs for noncarcinogens are based on a hazard quotient (HQ) of 1.0; SALs for carcinogens are based on a target cancer risk of 10^{-6}; and SALs for radionuclides are based on an annual dose limit of 15 mrem/yr. The 95 % UCL concentration for each COPC was compared to its corresponding SAL for carcinogens and radionuclides, and 0.1 SAL for noncarcinogens. Comparisons with SALs are presented in Table 2.4-1 for noncarcinogens, Table 2.4-2 for carcinogens, and Table 2.4-3 for radionuclides. Four noncarcinogenic chemicals were eliminated as COPCs because they were not detected in the 0- to 12-ft depth interval. These chemicals are: dichlorodifluoromethane, ethylbenzene, styrene, and xylene.

Noncarcinogenic COPCs had exposure concentrations less than their respective SALs (Table 2.4-1). The exposure concentration for antimony exceeded 0.1 SAL, but not the SAL. In addition, the hazard index (HI) (the sum of the ratio of each exposure point concentration divided by the respective SAL) was less than 1.0, indicating that there is no potential health hazard from exposure to noncarcinogenic COPCs.

Carcinogenic COPCs had 95% UCL concentrations less than their respective SALs, with the exception of arsenic (Table 2.4-2). The exposure concentration for arsenic was almost 6 times greater than its SAL. However, the total excess cancer risk is equivalent to 7×10^{-6}, which is less than NMED's target cancer risk of 10^{-5} (NMED 2000, 68554). This risk estimate indicates there is no potential unacceptable increase in the cancer risk from exposure to carcinogenic COPCs.

Table 2.4-1
SAL Comparison of Noncarcinogenic COPCs at SWMU 21-024(f) and AOCs C-21-015 and 21-030 with SALs

Analyte	95% UCL (mg/kg)	SAL (mg/kg)	0.1 SAL (mg/kg)	Hazard Quotient[a] (unitless)
Aluminum	9100	74000	7400	0.12
Antimony	6.4 (U)	30	3	0.21
Barium	73.6	5200	520	0.014
Beryllium	0.495	150	15	0.003
Cadmium	0.153	70	7	0.002
Chromium	6.24	230	23	0.027
Cobalt	2.3	4500	450	0.001
Copper	4.28	2800	280	0.002
Lead	11.2	400	40	0.028
Lithium	7.46	1600	160	0.005
Mercury	0.0985	6.5	0.65	0.015
Nickel	4.43	1500	150	0.003
Perchlorate	0.0302	7.8	0.78	0.004
Selenium	0.237	380	38	0.001
Silver	1.1 (U)	380	38	0.003
Strontium	12.0	37000	3700	0.001
Uranium	4.47	16[b]	1.6	0.280
Zinc	33.4	23000	2300	0.001
Acetone	0.038	1600	160	2.4E-5
Anthracene	0.137	16000	1600	8.6E-6
Aroclor-1016	0.002	3.9	0.39	5.1E-4
2-Butanone	0.006	37000	3700	1.6E-7
Butylbenzylphthalate	0.269	240	24	0.001
2-Chlorophenol	0.261	64	6.4	4.1E-3
Dibenzofuran	0.269	290	29	9.3E-4
1,3-Dichlorobenzene	0.143	12	1.2	0.01
Di-n-butylphthalate	0.268	6100	610	4.4E-5
Fluoranthene	0.153	2300	230	6.6E-5
Fluorene	0.136	2100	210	6.5E-5
2-Hexanone[c]	0.005	14000	1400	3.6E-7
4-Isopropyltoluene[d]	0.002	370	37	5.4E-6
4-Methyl-2-pentanone	0.006	790	79	7.6E-6
Phenanthrene	0.132	1800	180	7.3E-5
Pyrene	0.139	1800	180	7.7E-5

Table 2.4-1 (continued)

Analyte	95% UCL (mg/kg)	SAL (mg/kg)	0.1 SAL (mg/kg)	Hazard Quotient[a] (unitless)
Toluene	0.002	180	18	1.1E-5
Trichlorofluoromethane	0.003	390	39	7.7E-6
			Hazard Index[e]	**0.74**

[a] Hazard quotient is the ratio of the Exposure Point Concentration divided by the SAL.

[b] Uranium (soluble salts; from IRIS) SAL taken from EPA Region 9 Preliminary Remediation Goals table (http://www.epa.gov/reg9). No SAL available from NMED or EPA Region VI sources.

[c] No SAL was available for 2-Hexanone. 2-Butanone (Methyl ethyl ketone) was used as a surrogate based on structural similarity (LANL 2002, 72639).

[d] No SAL was available for 4-Isopropyltoluene. Isopropylbenzene (Cumene) was used as a surrogate based on structural similarity (LANL 2002, 72639).

[e] Hazard Index is the sum of the HQs.

Table 2.4-2
SAL Comparison of Carcinogenic COPCs at SWMU 21-024(f) and AOCs C-21-015 and 21-030

Analyte	95% UCL (mg/kg)	SAL (mg/kg)	Incremental Cancer Risk (unitless)
Arsenic	2.18	0.39	$6x\ 10^{-6}$
Aroclor-1242	0.002	0.22	9×10^{-9}
Benzene	0.001	0.64	2×10^{-9}
Benzo(a)anthracene	0.142	0.62	2×10^{-7}
Benzo(b)fluoranthene	0.140	0.62	2×10^{-7}
Bis(2-chloroethyl)ether	0.261	0.44	6×10^{-7}
Bis(2-ethylhexyl)phthalate	0.272	35	8×10^{-9}
Chloromethane	0.003	1.2	3×10^{-9}
Chrysene	0.132	61	2×10^{-9}
1,4-Dichlorobenzene	0.149	3.2	5×10^{-8}
Methylene Chloride	0.002	8.9	2×10^{-10}
		Total ICR	**7×10^{-6}**

Table 2.4-3
SAL Comparison of Radionuclide COPCs at SWMU 21-024(f) and AOCs C-21-015 and 21-030

Analyte	95% UCL (pCi/g)	SAL (pCi/g)	Annual Dose (mrem/yr)
Americium-241	0.0258	39	0.010
Cesium-137	0.008	5.3	0.023
Plutonium-238	0.014	49	0.004
Plutonium-239	0.213	44	0.073
Thorium-228	1.46	2.0	11.0
Tritium	0.051	890	0.001
Uranium-235	0.125	17	0.110
		Total Dose	**11.2**

Radionuclide COPCs had 95% UCLs less than their respective SALs (Table 2.4-3). The total dose of 11.2 mrem/yr is less than the dose limit of 15 mrem/yr.

(c) Uncertainty Analysis

The analysis presented in this human health screening assessment is subject to varying degrees and types of uncertainty. Aspects of data evaluation and COPC identification, exposure assessment, toxicity assessment, and the additive approach all contribute to uncertainties in the risk assessment process.

Data Evaluation and COPC Identification Process

Uncertainties associated with the data include sampling errors, laboratory analysis errors, and data analysis errors. For this SWMU and the AOCs, these uncertainties are expected to have little effect on the results even though most detected concentrations of organic COPCs were qualified J, indicating the values were less than estimated quantitation limits (EQLs) and were estimated. Use of these estimated values in the screening assessments may overestimate risks.

Three inorganic chemicals (lithium, perchlorate, and strontium) were retained as COPCs because they were detected, but there is no background data for comparison. Antimony and silver were not detected but were retained as COPCs because their DLs exceeded their respective BVs. Use of these DLs in the screening assessments may overestimate risks.

Four noncarcinogenic chemicals were eliminated as COPCs because they were not detected in the 0- to 12-ft depth interval. These chemicals are: dichlorodifluoromethane, ethylbenzene, styrene, and xylene. These chemicals were each detected once at low concentrations (< 0.03 mg/kg) at a depth of 17.8 to 18.8 ft, so the likelihood that they would be encountered by a receptor is low. It is unlikely that eliminating these chemicals as COPCs underestimates risk.

Exposure Assessment

Four main uncertainties were identified in the exposure assessment process.

1. *Identification of receptors.* Land-use and activity patterns are not represented by activities assumed in a residential land-use scenario; therefore, uncertainties in the assessment of risk to

human receptors are introduced. If the potentially exposed individual is an industrial worker, as dictated by the industrial land-use scenario or a recreational user, a screening assessment based on a residential scenario overestimates exposure and potential hazard, risk, and dose calculations.

2. *Exposure pathway assumptions.* For each exposure pathway, input parameters, routes of exposure, amounts of contaminated media to which an individual can be exposed, and intake rates for different routes of exposure were assumed. In the absence of site-specific data, the exposure assumptions used were consistent with EPA-approved parameters and default values (EPA 2002, 73691). When upper-bound values (as in EPA 2002, 73691) are combined to estimate exposure for any one pathway, the resulting risk may exceed the 99th percentile of expected risk and therefore exceed the range of risk that reasonably is expected for the site. Exposure pathways at these sites potentially are not complete unless the site is disturbed (e.g., excavated). Although these sites were disturbed during remediation, the timeframe for exposure was short relative to the exposure assumptions used in the risk calculations, which resulted in an overestimation of potential exposure (and risk) to COPCs.

3. *Derivation of exposure point concentrations.* Some uncertainty was introduced in the aggregation of data for estimating the representative COPC concentrations at the site. The 95% UCL represents the overall exposure of the receptors to COPC concentrations across the entire site, rather than the exposure at a single location. The use of the 95% UCL is intended to provide an upper bound on the average COPC concentration at the site, potentially leading to an overestimation of the concentration representative of average exposure over the entire site. This practice also may result in an overestimation of the potential risk to human health at the site.

4. *Extrapolation of low frequency-of-detect concentrations to the entire site.* COPCs such as Aroclor-1242 and benzene were detected at low frequency (6% and 5%, respectively). However, the screening assessment assumes the COPC concentrations are uniform throughout the site. This leads to an overestimation of the exposure and subsequently overestimates the potential risk.

5. *Cancer risk from arsenic background.* Arsenic was identified as a COPC in Qbt 3 and an incremental cancer risk of 6×10^{-6} was estimated from the exposure concentration of 2.18 mg/kg and SAL of 0.39 mg/kg. The BV for arsenic in Qbt 3 is 2.79 mg/kg (LANL 1998, 59730). Exposure to this concentration of arsenic would result in an incremental cancer risk of 7×10^{-6}, which is slightly less than NMED's target cancer risk of 1×10^{-5}.

6. *Radiation dose from thorium-228.* The maximum concentration of thorium-228 is 2.98 pCi/g at sampling location 21-11439, with an associated dose of 22 mrem/yr. The BV for thorium-228 in soil is 2.28 pCi/g (LANL 1998, 59730) with an associated dose of 17 mrem/yr. Therefore, at the point of maximum thorium-228 exposure, dose is only 5 mrem/yr over the dose from thorium-228 in background soil. The 95% UCL for thorium-228 is 1.46 pCi/g, which is less than the soil BV. The dose from this exposure concentration (11.0 mrem/yr) is considered equivalent to background dose and when subtracted from the total dose in Table 2.4-3, results in a total dose at SWMU 21-024(f) and AOCs C-21-015 and 21-030 of 0.2 mrem/yr (11.2 – 11.0 = 0.2 mrem/yr). This estimate is made in accordance with DOE Order 5400.5, which states that the incremental dose above background is to be evaluated (i.e., the 15 mrem/dose limit is the incremental dose above background). Therefore, the dose from exposure to the radionuclide COPCs satisfies the DOE target dose limit requirement of 15 mrem/yr.

Toxicity Values

The primary uncertainty associated with the SALs is related to the derivation of toxicity values used in the calculation. EPA toxicity values (reference doses [RfDs] and slope factors [SFs]) were used to derive the nonradiological SALs used in the screening assessment (EPA 2001, 70109; EPA 1997, 58968). All COPCs (or suitable surrogates) had toxicity information sufficient to calculate SALs. Uncertainties were identified in three areas with respect to the toxicity values: extrapolation from animals to humans, extrapolation from one route of exposure to another route of exposure, and individual variability in the human population.

1. *Extrapolation from animals to humans.* The SFs and RfDs often are determined based on extrapolating animal data to humans, which may result in uncertainties in toxicity values due to differences in chemical absorption, metabolism, excretion, and toxic response between animals and humans. EPA takes into account differences in body weight, surface area, and pharmacokinetic relationships between animals and humans in order to minimize the potential for underestimating the dose-response relationship. However, conservatism usually is incorporated into each of these steps, which results in overestimations of potential risk
2. *Extrapolation from one route of exposure to another route of exposure.* The SFs and RfDs often contain extrapolations from one route of exposure to another that result in additional conservatisms used in the risk calculations. For example, an extrapolation from the oral route to the inhalation and/or the dermal route was used to calculate SALs (EPA 2002, 73691) and differences between the exposure pathways contribute to uncertainty in the estimation of potential risk at this site.
3. *Individual 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 a risk assessment. This factor of 10 generally results in a conservative estimate of risk for noncarcinogenic COPCs.

Additive Approach

For noncarcinogens, the effects of exposure to multiple chemicals generally are unknown and possible interactions could be additive, synergistic, or antagonistic. These interactions could result in either an overestimation or underestimation of potential risk. Additionally, 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 can be overestimated for individual COPCs that act by different mechanisms and on different target organs but are addressed additively.

(d) Interpretation

Based on the screening assessment, the HI (0.7) is less than NMED's target level of 1.0, the carcinogenic risk (7×10^{-6}) is less than NMED's target risk of 10^{-5}, and the radiological dose is less than the DOE's target dose limit of 15 mrem/yr. These results indicate there is no potential unacceptable risk to human health at SWMU 21-024(f) and AOCs C-21-015 and 21-030.

2.4.1.2 Ecological

The approach for conducting ecological assessments is described in "Screening Level Ecological Risk Assessment Methods" (LANL 1999, 64783). The assessment consists of four parts: scoping, screening evaluation, uncertainty analysis, and interpretation of the results.

(a) Scoping

The scoping evaluation establishes the breadth and focus of the screening assessment. One result of the scoping process is the ecological conceptual site model (ECSM) for the site. The ecological scoping checklist, which is included in the VCA plan (LANL 1999, 64159), as well as in Appendix F of this document, was completed early in the assessment process and was a useful tool for organizing existing ecological information. This information was used to confirm whether ecological receptors might be affected, identify the types of receptors that might be present, and develop the ECSM for the site.

The site is located in a moderately disturbed area of the mesa top of DP Mesa and is moderately vegetated. The vegetation is predominantly ponderosa pine with ground cover of grasses and shrubs. Habitat suitable for threatened or endangered species was not identified at the site, but the site borders core habitat for the Mexican spotted owl.

Potential for contamination of surface water or aquatic receptors is not possible because there are no surface water bodies in or near the SWMU and AOCs. Groundwater transport is not feasible because of the depth of the regional aquifer (approximately 1000 ft) and lack of saturated conditions (Section 2.2.2 Preliminary Conceptual Model). Soil ingestion by burrowing animals and root uptake by plants are potential exposure pathways for terrestrial ecological receptors (See the ecological scoping checklist in Appendix F), as well as food web transfer. However, burrowing activity is limited by shallow tuff and no burrows have been observed at the site.

SWMU 21-013(d)-99 is the only site that is contiguous to (west of) SWMU 21-024(f). SWMU 21-013(d)-99 had several debris piles on its surface, including construction and demolition debris, which was removed during a VCA performed in 1995. Additional characterization was performed in 2003 and the VCA completion report is in progress.

(b) Screening Evaluation

The ecological screening evaluation is designed to identify chemicals of potential ecological concern (COPECs) and is based primarily on the comparison of representative COPC concentrations to chemical concentrations determined not to be potentially harmful to ecological receptors. This comparison is summarized in the calculation of HQs for all COPCs and all appropriate screening receptors. The ecological screening process calls for the use of COPC concentrations measured down to 5 ft and assumes terrestrial ecological receptors will not contact soils below this depth (LANL 1999, 64783).

The HQ is defined as the ratio of the representative contaminant concentration in the exposure medium being investigated to the dose determined acceptable to a given ecological receptor (i.e., ESLs). The higher the contaminant levels relative to the ESLs, the higher the potential risk to receptors; conversely, the higher the ESLs relative to the contaminant levels, the lower the potential risk to receptors. Chemicals with HQs greater than 0.3 and chemicals without associated ESLs are identified as COPECs and further evaluated (LANL 1999, 64783). The HI is the sum of HQs; an HI greater than 1.0 is considered an indication of potential adverse impacts to a given receptor due to exposure to multiple chemicals at a site. In this assessment, representative soil concentrations (95% UCL on the mean), and minimum ESLs were used to calculate an HQ for each COPC (Table 2.4-4). ESLs were obtained from the Laboratory's

ECORISK database, version 1.5 (LANL 2002, 73702) and revisions (LANL 2003, 74012), as presented in Table 2.4-5.

Table 2.4-4
HQs for Final Terrestrial Receptor ESLs for SWMU 21-024(f) and AOCs C-21-015 and 21-030

Analyte	95% UCL (mg/kg)	Final ESL (mg/kg)	Receptor	HQ	COPEC Yes/No
Inorganic Chemicals					
Antimony	6.4 (U)	0.05	Generic plant	**128**	Yes
Arsenic	2.19	0.83	Vagrant shrew	**2.6**	Yes
Barium	73.6	2.5	Vagrant shrew	**29.4**	Yes
Beryllium	0.495	2.5	Generic plant	0.20	No
Cadmium	0.194	0.0047	Vagrant shrew	**41.3**	Yes
Chromium (total)	6.42	1.4	Earthworm	**4.6**	Yes
Cobalt	2.39	0.051	American Robin	**46.9**	Yes
Copper	4.28	10	Generic plant	**0.43**	Yes
Lead	11.4	100	Vagrant shrew	0.11	No
Lithium	7.46	NA[a]	NA	NA	Yes
Mercury	0.0985	0.05	Earthworm	**1.97**	Yes
Nickel	4.43	1.5	Vagrant shrew	**2.95**	Yes
Perchlorate	0.0378	NA	NA	NA	Yes
Selenium	0.237	0.1	Generic plant	**2.37**	Yes
Silver	1.1(U)	0.05	Generic plant	**22.0**	Yes
Strontium	12.0	71	Deer mouse	0.169	No
Uranium	4.78	25	Generic plant	0.191	No
Zinc	33.9	10	Generic plant	**3.39**	Yes
Organic Chemicals					
Acetone	0.0432	3.8	Deer mouse	0.011	No
Anthracene	0.117	220	Vagrant shrew	0.0005	No
Aroclor-1016	0.00178	0.025	Vagrant shrew	0.071	No
Benz(a)anthracene	0.125	3	Vagrant shrew	0.042	No
Benzo(b)fluoranthene	0.122	18	Generic plant	0.007	No
Bis(2-chloroethyl)ether	0.239	NA	NA	NA	Yes
Bis(2-ethylhexyl)phthalate	0.251	1	American robin	0.251	No
Butanone[2-]	0.005	1300	Deer mouse	3.8E-6	No
Butylbenzylphthalate	0.249	340	Vagrant shrew	0.0007	No
Chloromethane	0.003	NA	NA	NA	Yes
Chlorophenol[2-]	0.239	1	American robin	0.24	No
Chrysene	0.119	2.4	Vagrant shrew	0.05	No
Dibenzofuran	0.248	6.1	Generic plant	0.04	No
Dichlorobenzene[1,3-]	0.134	1.2[b]	Earthworm	0.112	No
Dichlorobenzene[1,4-]	0.143	1.2	Earthworm	0.119	No

Table 2.4-4 (continued)

Analyte	95% UCL (mg/kg)	Final ESL (mg/kg)	Receptor	HQ	COPEC Yes/No
Di-n-butylphthalate	0.250	0.17	American robin	**1.47**	Yes
Fluoranthene	0.138	26	Vagrant shrew	0.005	No
Fluorene	0.127	1.7	Earthworm	0.075	No
Hexanone[2-]	0.005	1300	Deer mouse	3.8E-6	No
Isopropyltoluene[4-]	0.002	NA	NA	NA	Yes
Methyl-2-pentanone[4-]	0.006	NA	NA	NA	Yes
Methylene Chloride	0.002	7.1	Deer mouse	0.0003	No
Phenanthrene	0.118	11	Vagrant shrew	0.011	No
Pyrene	0.122	15	Vagrant shrew	0.008	No
Toluene	0.002	70	Vagrant shrew	2.9E-5	No
Trichlorofluoromethane	0.002	NA	NA	NA	Yes
Radionuclides (pCi/g)					
Americium-241	0.026	44	Earthworm	0.0006	No
Cesium-137	0.007	680	Red fox	1.0E-5	No
Plutonium-238	0.014	44	Earthworm	0.0003	No
Plutonium-239	0.214	47	Earthworm	0.005	No
Thorium-228	1.46	43	Earthworm	0.034	No
Tritium	0.0526	48000	Earthworm	1.1E-6	No
Uranium-235	0.129	55	Earthworm	0.002	No

Note: Bold values indicate HQ >0.3.

[a] NA = ESL not available.

[b] Based on ESL for 1,4-dichlorobenzene.

Table 2.4-5
HI Summary for Terrestrial Receptors for SWMU 21-024(f) and AOCs C-21-015 and 21-030

Analyte	95% UCL Concentration	Plant	HI	Invertebrate	HI	American Robin (insectivore)	HI	American Robin (omnivore)	HI	American Robin (herbivore)	HI	American Kestrel (top carnivore)	HI
Antimony	6.4	0.05	128	NA[a]	—	NA	—	NA	—	NA	—	NA	—
Arsenic	2.19	10	0.219	6.8	0.322	19	0.115	32	0.068	100	0.022	2400	0.001
Barium	73.6	100	0.736	NA	—	230	0.32	380	0.194	1000	0.074	46000	0.002
Cadmium	0.194	1	0.194	10	0.019	0.0075	2.59E+01	0.013	14.923	0.093	2.086	6.9	0.028
Chromium (total)	6.42	2.4	2.675	1.4	4.586	460	0.014	550	0.012	680	0.009	13000	0.001
Cobalt	2.39	0.25	9.56	NA	—	0.051	46.87	0.093	25.70	0.46	5.196	6	0.398
Copper	4.28	10	0.428	13	0.329	25	0.171	20	0.214	17	0.252	1400	0.003
Mercury	0.0985	34	0.003	0.05	1.970	0.61	0.161	0.87	0.113	1.4	0.070	12	0.008
Nickel	4.43	20	0.221	100	0.044	350	0.013	440	0.010	580	0.008	13000	0.001
Selenium	0.237	0.1	2.37	7.7	0.031	1.1	0.215	2	0.118	10	0.024	140	0.002
Silver	1.1	0.05	22	NA	—	14	0.078	19	0.058	30	0.037	2400	0.001
Zinc	33.9	10	3.39	350	0.097	97	0.349	130	0.261	210	0.161	4900	0.008
Chlorophenol [2-]	0.307	NA	—	NA	—	1.8	0.171	1.3	0.236	1	0.307	290	0.001
Di-n-butylphthalate	0.313	200	0.002	NA	—	0.17	1.841	0.29	1.079	0.89	0.352	3.7	0.085
Total HI			169.8		7.4		76.10		42.99		8.60		0.54

Table 2.4-5 (continued)

Analyte	95% UCL Concentration	American kestrel (intermediate carnivore)	HI	Desert Cottontail	HI	Deer Mouse	HI	Vagrant Shrew	HI	Red Fox	HI
Antimony	6.4	NA	—	1.4	4.571	0.24	26.667	0.13	49.231	23	0.278
Arsenic	2.19	140	0.016	21	0.104	1.7	1.29	0.83	2.64	97	0.024
Barium	73.6	1700	0.043	35	2.103	4.6	16	2.5	29.44	430	0.171
Cadmium	0.194	0.053	3.660	0.15	1.293	0.0091	21.319	0.0047	41.277	4	0.048
Chromium (total)	6.42	5300	0.001	8000	0.001	2100	0.003	700	0.009	18000	0.001
Cobalt	2.39	0.38	6.289	5	0.478	0.19	12.579	0.091	26.264	10	0.239
Copper	4.28	210	0.020	930	0.005	530	0.008	520	0.008	27000	0.001
Mercury	0.0985	4.6	0.021	250	0.001	44	0.002	20	0.005	450	0.001
Nickel	4.43	3500	0.001	13	0.341	3.6	1.231	1.5	2.953	53	0.084
Selenium	0.237	8.4	0.028	55	0.004	1.9	0.125	0.91	0.260	110	0.002
Silver	1.1	100	0.011	490	0.002	130	0.008	86	0.013	14000	0.000
Zinc	33.9	660	0.051	910	0.037	250	0.136	180	0.188	11000	0.003
Chlorophenol [2-]	0.307	13	0.024	1.8	0.171	1	0.307	1.4	0.219	230	0.001
Di-n-butylphthalate	0.313	1.1	0.285	18000	0.001	2300	0.001	1300	0.001	34000	0.000
Total HI			10.45		9.11		79.67		152.51		0.85

[a] NA = ESL not available.
— = HI cannot be calculated without the ESL.

Six chemicals were eliminated as COPECs because they were not detected in the 0- to 5-ft depth interval. These chemicals are: Aroclor-1242, benzene, dichlorodifluoromethane, ethylbenzene, styrene, and xylene. The toxicity of aluminum is highly dependent on soil pH and the EPA identified aluminum as a COPEC only where soil pH is less than 5.5 (EPA 2000, 73306). Measurements of pH on soil samples from the SWMU and AOCs were all greater than 5.5. In addition, a soil survey of Los Alamos County indicated the soil pH on the mesa tops ranges from 6.5 to 7.8 (Nyhan et al. 1978, 05702), eliminating aluminum as a COPEC. Therefore, aluminum is not a COPEC at this site and will not be evaluated further.

The following COPECs were identified for further evaluation because the HQ based on the 95% UCL soil concentration and minimum ESL exceeded 0.3: antimony, arsenic, barium, cadmium, chromium, cobalt, copper, mercury, nickel, selenium, silver, zinc, and di-n-butylphthalate (Table 2.4-4).

Other COPECs were identified because no ESLs are available. These include lithium, perchlorate, bis(2-chloroethyl)ether, chloromethane, isopropyltoluene[4-], methyl-2-pentanone[4-], and trichlorofluoromethane.

All other compounds listed in Table 2.4-4 have an HQ less than 0.3 or were not detected in the 0- to 5-ft interval and therefore are not retained as COPECs.

The COPECs identified using 95% UCL concentrations and final ESLs in Table 2.4-4 were evaluated further by calculating the HQs for each COPEC/receptor combination in addition to the HI for each receptor (Table 2.4-5). The HI clarifies the potential for adverse effects on ecological receptors by identifying how many receptors potentially may be affected by the residual contaminant concentrations at the site, as well as assessing the potential risk to surrogates of T&E species. As presented in Table 2.4-5, HI values for the terrestrial receptors range from 0.5 for the top carnivore kestrel to 149 for the vagrant shrew (insectivorous small mammal). The HI was less than 1.0 for the kestrel top carnivore and fox, and less than 10 for the soil invertebrate, American robin herbivore, kestrel intermediate carnivore, and rabbit. Antimony is the greatest contributor to HIs exceeding one.

(c) Uncertainty Analysis

Uncertainty is inherent in all aspects of the risk process, including the selection of indicator species, the estimation of exposure of the selected receptors, the characterization of potential ecological effects related to exposure, and the final evaluation of risk to the receptors. For this screening assessment, conservatism was incorporated at many points in the process to ensure that the uncertainties do not lead to an underestimation of the potential risk to the site's ecological receptors. Conservatisms most likely lead to an overestimation of the potential risks posed by COPCs at the site. This is especially true when multiple conservatisms are used, resulting in an additive effect on the estimation of risk.

Key uncertainties in this screening assessment have been identified and are discussed below.

1. *Data evaluation and COPC identification process.* As discussed in Section 2.4.1.1(c), uncertainties associated with the data can include sampling, laboratory analysis, and data analysis errors. For this SWMU and the AOCs, these uncertainties are expected to have little effect on the results even though many detected organic COPC concentrations were qualified J, indicating the values were less than EQLs and were estimated.

   Six chemicals were eliminated as COPECs because they were not detected in the 0- to 5-ft depth interval. These chemicals are Aroclor-1242, benzene, dichlorodifluoromethane, ethylbenzene, styrene, and xylene. These chemicals were detected at low concentrations at depth exceeding

9 ft for Aroclor-1242 and benzene, exceeding 13 ft for dichlorodifluoromethane, and exceeding 18 ft for ethylbenzene, styrene, and xylene. Therefore, it is unlikely that ecological receptors would encounter these chemicals and unlikely that eliminating these chemicals as COPECs underestimates risk.

2. *Derivation of exposure point concentrations.* Some uncertainty was introduced in the aggregation of data for estimating representative, site-specific COPC concentrations. The 95% UCL represents overall receptor exposure to COPC concentrations across the entire site, rather than exposure at a single location. The use of the 95% UCL is intended to provide an upper bound on the average COPC concentration at the site, potentially leading to an overestimation of the concentration representative of average exposure over the entire site. This practice also may result in an overestimation of potential risk to ecological receptors at the site.

   Use of data only in the 0- to 5-ft interval does not underestimate exposure to ecological receptors. This is demonstrated by comparing the UCLs for the 0- to 5-ft interval and those for the 0- to 12-ft interval (used in screening for human health; see Tables 2.4-1 to 2.4-3). The 95% UCLs are essentially identical, indicating that the higher concentrations were reported in the 0- to 5-ft interval.

3. *Selection of ESL benchmarks.* ESLs for the vertebrate terrestrial receptors were based on species similar to species common to Laboratory habitats and were derived from experimentally determined NOAELs, lowest-observed-adverse-effect levels, lowest-observed-effect concentrations, or doses or concentrations lethal to 50% of the test populations. Receptor-specific toxicological data often are unavailable, which requires extrapolating effects from laboratory animals to site receptors. Laboratory studies often are limited to evaluation of a single chemical and exposure pathway, conducted in controlled conditions, and performed on laboratory animals obtained from artificial and maintained populations. Thus, extrapolating laboratory studies to wild populations introduces many uncertainties in the thresholds determined to potentially cause adverse effects to ecological receptors associated with the site and may overestimate risk.

4. *Chemical form of COPCs.* The investigation of SWMU 21-024(f) and AOCs C-21-015 and 21-030 did not identify the exact chemical forms of the COPECs. Laboratory-derived toxicological data, as used in this assessment, typically are based on chemical forms not found in the environment (e.g., text substances are often the most toxic and/or bioavailable chemical species). Both inorganic and organic chemicals are not expected to be 100% bioavailable in the natural environment due to complexing with other chemicals and adsorbing to soil matrix surfaces.

Each chemical designated as a COPEC in Table 2.4-4 is discussed below in the context of the uncertainties presented in this section. Those chemicals having HQs greater than 0.3 are discussed first, followed by those having no ESL.

Antimony

Antimony was not detected in any samples, but 8 of 45 soil samples had DLs exceeding BV (0.83 mg/kg) (LANL 1998, 59730). These eight samples were all collected just below the outfall pit for SWMU 21-024(f). Three samples collected downgradient from those with elevated DLs showed no antimony detected with DLs less than the BV. Therefore, antimony is within background levels across the area. Nonetheless, all of the ecological screening results for antimony are based on the assumption that concentrations across the site could all be as high as the highest detection limit reported (6.4 mg/kg). The final ESL for antimony (0.05 for plant) is much lower than the soil BV. ESLs for desert cottontail, deer

mouse and vagrant shrew (1.4, 0.24, and 0.13 mg/kg, respectively) are also less than the BV. Since all HQ scores exceeding one are the result of ESLs lower than the BV, and antimony was not detected in soil, antimony is not retained as a COPEC at SWMU 21-024(f) and AOCs C-21-015 and 21-030.

Arsenic

Arsenic was detected above the Qbt 3 BV in 9 of 43 samples. The maximum detected concentration (4.56 mg/kg) is less than the maximum range of arsenic in Qbt 3 background (5 mg/kg) (LANL 1998, 59730). HQs slightly exceeded 1.0 for the deer mouse and vagrant shrew, but the ESLs are within the range of Qbt3 background concentrations (0.25 to 5 mg/kg) (LANL 1998, 59730), i.e., exposure across the site is similar to background. Since the 95% UCL for arsenic in Qbt 3 (2.29 mg/kg) is approximately equal to BV (2.79 mg/kg), and HQs are low, arsenic is not retained as a COPEC at SWMU 21-024(f) and AOCs C-21-015 and 21-030.

Barium

The final ESL for barium (2.5 mg/kg for the vagrant shrew) is less than the tuff BV (46 mg/kg)(LANL 1998, 59730). Two other receptor ESLs also were less than the BV (desert cottontail and deer mouse) and had HQs greater than 1.0. Levels of barium in tuff were comparable to soil background (295 mg/kg) and are not indicative of a release from the SWMU and AOCs. Because ESLs for these receptors are below BV and the 95% UCL for barium in Qbt 3 (74 mg/kg) is less than twice Qbt3 BV, barium is not retained as a COPEC at SWMU 21-024(f) and AOCs C-21-015 and 21-030.

Cadmium

Cadmium was detected above the soil BV in 5 of 45 soil samples. The final ESL for cadmium (0.0047 mg/kg for vagrant shrew) is less than BV (0.4 mg/kg). ESLs for several other receptors are also less than the BV and HQs for cadmium exceeded 1.0 for these receptors. Since these ESLs are less than the BV, they overestimate both exposure and potential risk to these receptors. The 95% UCL of 0.19 mg/kg is less than the BV and within the range of background concentrations (LANL 1998, 59730). Therefore, exposure across the site is similar to background and cadmium is not retained as a COPEC at SWMU 21-024(f) and AOCs C-21-015 and 21-030.

Chromium

The final ESL for chromium (1.4 mg/kg for invertebrate) is less than the tuff BV (7.14 mg/kg). No other ESLs resulted in HQs exceeding 1.0. The 95% UCL of 6.4 mg/kg is less than the BV for tuff so potential exposure to receptors across the site is similar to background (LANL 1998, 59730). Therefore, chromium is not retained as a COPEC at SWMU 21-024(f) and AOCs C-21-015 and 21-030.

Cobalt

The final ESL for cobalt (2.07 mg/kg for robin insectivore) is slightly less than BV in tuff (3.14 mg/kg). Other ESLs associated with HQ scores exceeding 1.0 are also less than BV. The EPA has developed an ecological soil screening level (Eco-SSL) for cobalt and avian receptors. Use of this SSL (32 mg/kg) (EPA 2000, 73306) results in an HQ of 0.06 for bird receptors. The 95% UCL of 2.07 is approximately the same as BV, so potential exposure to ecological receptors is similar to background. Therefore, cobalt is not retained as a COPEC at SWMU 21-024(f) and AOCs C-21-015 and 21-030.

Copper

The highest HQ for copper is 0.4 based on a plant and it is the only HQ that exceeds 0.3. The BV for copper in Qbt 3 is 4.7 mg/kg and the site 95% UCL is 4.3 mg/kg. Since the 95% UCL is similar to background, and the vegetative community at the site is abundant and healthy, copper is not retained as a COPEC at SWMU 21-024(f) and AOCs C-21-015 and 21-030.

Mercury

The highest HQ for mercury is approximately 2 (based on an invertebrate receptor ESL of 0.05 mg/kg) and it is the only HQ that exceeds 1.0. The BV for mercury in Qbt 3 is 0.1 mg/kg (LANL 1998, 59730). The 95% UCL is approximately 0.1 mg/kg. Because these values are the same and the single ESL of concern is one-half the BV, mercury is not retained as a COPEC at SWMU 21-024(f) and AOCs C-21-015 and 21-030.

Nickel

The final ESL for nickel (1.5 mg/kg for the vagrant shrew) is less than the BV for nickel in Qbt 3 of 6.6 mg/kg. No other ESL results in a HQ greater than 1.0. The 95% UCL for nickel is 4.4 mg/kg compared to BV of 6.6 mg/kg for tuff and 14.7 mg/kg for soil (LANL 1998, 59730). Therefore, exposure across the site is similar to background and nickel is not retained as a COPEC at SWMU 21-024(f) and AOCs C-21-015 and 21-030.

Selenium

The final plant ESL for selenium (0.1 mg/kg) is approximately one-third of the tuff BV (0.3 mg/kg). Additionally, selenium concentrations exceeded the BV in only 8 of 43 confirmation samples. The exposure concentration (95% UCL = 0.24 mg/kg) is similar to the tuff BV of 0.3 mg/kg, so the potential exposure to receptors is similar to background (LANL 1998, 59730). Although the plant HQ of 2.4 exceeded 1.0), the vegetative community is healthy and no impacts to the plants were evident. Therefore, selenium is not retained as a COPEC at SWMU 21-024(f) and AOCs C-21-015 and 21-030.

Silver

Silver was not detected in Qbt 3 samples, but 5 of 43 samples had DLs exceeding BV (1 mg/kg). Therefore, all of the ecological screening results for silver are based on the assumption that concentrations across the site are as high as the highest detection limit reported (1.1 mg/kg). The final ESL for silver (0.05 for the plant) is less than Qbt 3 BV of 1 mg/kg. The vegetative community is abundant and healthy. Since the HQ score exceeding 1.0 is the result an ESL lower than BV, and silver was not detected in Qbt 3, silver is not retained as a COPEC at SWMU 21-024(f) and AOCs C-21-015 and 21-030.

Zinc

The final ESL for zinc (10 mg/kg for the plant) is less than the soil BV of 48.8 mg/kg. The 95% UCL for zinc is 38 mg/kg and the vegetative community is abundant and healthy. The UCL and the BV are comparable so exposure across the site is similar to background. Therefore, zinc is not retained as a COPEC at SWMU 21-024(f) and AOCs C-21-015 and 21-030.

Di-n-butylphthalate

Di-n-butylphthalate was detected in 1 of 15 samples at 0.02 mg/kg, but the 95% UCL is 0.3 mg/kg due to elevated DLs. The robin (insectivore and omnivore) had HQs exceeding 1.0 (1.8 and 1.1, respectively). No other receptors had HQs exceeding 1.0. Therefore, di-n-butylphthalate is not retained as a COPEC at SWMU 21-024(f) and AOCs C-21-015 and 21-030.

COPECs Without ESLs

Several inorganic and organic chemicals were identified as COPECs because no ESLs are available for screening potential ecological risks. These chemicals and summary information on analytical results are listed in Table 2.4-6 and are briefly discussed below.

Table 2.4-6
Analytes without ESLs Summary Information

Analyte	Frequency of Detection in 0 to 5 ft	Range of Detections in 0 to 5 ft (mg/kg)	Detection Limit (mg/kg)
Lithium	33/44	1.1–19.4	7.7
Perchlorate	4/36	0.018 (J)*–0.153 (J)	0.16
Bis(2-chloroethyl)ether	1/34	0.66 (J)	1.07
Chloromethane	8/27	0.0012 (J)–0.011 (J)	0.012
Dichlorobenzene[1,3-]	1/61	0.124 (J)	1.03
Isopropyltoluene[4-]	4/27	0.005 (J)–0.005 (J)	0.006
Methyl-2-pentanone	1/27	0.0202	0.0012

*(J) = Estimated value.

Both lithium and perchlorate were retained as COPCs and retained for site assessments because there are no background data for these analytes. Lithium is an inorganic compound having low toxicity to mammals. However, lithium was analyzed during characterization of SWMU 21-021(99) (LANL 1995, 52350). This SWMU covers the surface of DP Mesa and should be representative of mesa-wide conditions. The maximum soil concentration for lithium across the mesa was 27 mg/kg, while at SWMU 21-024(f), the maximum soil concentration was 19.4 mg/kg. Comparison of these values implies that lithium levels at SWMU 21-024(f) are similar to those seen mesa-wide. There is limited toxicity information on perchlorate, which is an anion. Detected concentrations of this anion indicate that the data were below or slightly above the DLs and infrequently detected (11 of 52 samples). These analytes are not major contributors to contamination and neither is retained as a COPEC.

The organic chemicals shown in Table 2.4-6 are detected infrequently and only at trace levels (less than or equivalent to the EQLs). Based on the data, these organic chemicals do not contribute to overall exposure and risks. They are not retained as COPECs.

(d) Interpretation

Many inorganic and organic COPCs identified at SWMU 21-024(f) and AOCs had HQs greater than 0.3 and were identified as COPECs. No radionuclides had scores exceeding 0.3 and they were eliminated from further evaluation. Exposure concentrations (95% UCLs) for the inorganic COPECs were similar to

background concentrations. Based on site observations, the vegetative community was not stressed or adversely affected by the residual contamination and was typical of a disturbed area. Di-n-butylphthalate was not a potential risk to receptors because of infrequent detections and low HQs. COPECs without ESLs do not contribute to potential risk to ecological receptors because of infrequent detections, trace level concentrations, and, in the case of lithium, concentrations similar to mesa-wide levels that are likely naturally occurring. Based on the ecological screening evaluation of COPECs at SWMU 21-024(f) and AOCs C-21-015 and 21-030, there is no potential risk to receptors.

2.4.2 Surface Water Assessments

Surface water assessments were conducted at SWMU 21-024(f) and the AOCs separately. Based on slope, vegetation cover, and visible signs of erosion, an erosion matrix score of 30.9 was applied to the SWMU and a score of 22.7 was applied to the AOCs. These scores indicate a low potential for erosion in the area of SWMU 21-024(f) and AOCs C-21-015 and 21-030 (see Appendix B).

2.5 Conclusions and Recommendations

With the exception of COPCs detected in the shallowest sample collected from the outfall pit and possibly mercury and PAHs under the septic tank and sump lines, respectively, there is no evidence of a substantial release from SWMU 21-024(f) and AOCs 21-030 and C-21-015. Because the outfall pit was removed during site restoration activities, many of the maximum COPC concentrations reported in site samples are no longer representative of site conditions. The remaining COPC concentrations are low, and many appear to reflect TA-21's use for industrial purposes over the past six decades. The low chemical concentrations in the soil and tuff at SWMU 21-024(f) and the AOCs require no further removal action or additional investigation activities. The SWMU and AOCs have been adequately characterized and restored.

All COPCs retained by the data review process were screened for their potential risk to human and ecological receptors. The human health screening assessment determined that all COPCs were less than their respective SALs. COPC concentrations were below the NMED target risk levels of 10^{-5} for cancer risk and an HI of 1.0 (NMED 2000, 68554) and below DOE's dose limit of 15 mrem/yr for radionuclides (DOE 2000, 67489). The human health screening assessment, based on a residential exposure, concluded that the COPCs at SWMU 21-024(f) and the AOCs do not pose unacceptable levels of risk to human receptors. The ecological screening assessment conducted by comparing soil concentrations to ESLs eliminated all COPCs as COPECs at the site. The ecological screening assessment concluded the concentrations of COPECs at SWMU 21-024(f) and AOCs C-21-015 and 21-030 do not pose an unacceptable risk to ecological receptors.

SWMU 21-024(f) and AOCs C-21-015 and 21-030 are recommended for no further action based on Criterion 5 (NMED 1998, 57897), which states that these sites have been characterized or remediated in accordance with applicable state or federal regulations and the available data indicate chemicals of concern either are not present or are present at concentrations that would pose no potential unacceptable risk.

3.0 WASTE MANAGEMENT

The following waste streams were generated and disposed as part of this VCA: mixed metal/concrete/VCP debris; contaminated environmental media; and other investigation-derived wastes (IDW). All wastes were managed in accordance with applicable Federal, State, DOE, and Laboratory

requirements. The waste streams, regulatory classification, amounts, and disposal pathways are shown in Table 3.0-1. A description of the sources and components of each waste stream is included below.

Table 3.0-1
Waste Streams from SWMU 21-024(f) and AOCs C-21-015 and 21-030 Voluntary Corrective Action

Waste Stream	Waste Type	Volume	Shipped To
Metal/concrete/VCP debris	Solid, low-level radioactive waste (LLRW)	360 ft^3	The Laboratory, TA-54, Area G
Contaminated media (drill cuttings and excavated soil)	Solid, LLRW	177 ft^3	The Laboratory, TA-54, Area G
Personal protective equipment (PPE), plastic, disposable sampling supplies, and other IDW	Solid, LLRW	8 ft^3	The Laboratory, TA-54, Area G

Mixed Metal and Concrete Debris: This waste stream was generated from removal of the steel septic tank (Building 21-124), VCP inlet and discharge lines; a small concrete sump; and approximately 70 ft of 3/4-in. diameter steel pipe. The septic tank contained approximately 20 gal. of residual sludge that was sampled and de-watered prior to being excavated.

Contaminated Media: This waste stream consisted of radioactively contaminated media generated both from confirmatory sampling and soil removal activities. Approximately 162 ft^3 of soil was excavated from the vicinity of the septic outfall pit and placed in a rolloff container for transport and disposal. The balance of this waste stream (15 ft^3) comprised excess drill cuttings generated from confirmatory sampling events.

Plastics, PPE, and Sampling Wastes: This waste stream consisted of a variety of IDW including various types of plastic sheeting; polyvinyl chloride (PVC) pipe; PPE; and disposable sampling supplies such as plastic scoops, plastic bags, and dry decontamination wipes. IDW was generated during all phases of the fieldwork including excavation, sampling, and site restoration activities. These materials were managed as low-level waste due to direct contact with contaminated environmental media and debris. IDW was packaged into 55-gal. drums for transport and disposal.

4.0 REFERENCES

The following list includes all references cited in this document. Parenthetical information following each reference provides the author, publication date, and the ER identification number. This information also is included in the citations in the text. ER identification numbers are assigned by the Laboratory's RRES-RS project to track records associated with the project. These numbers can be used to locate copies of the actual documents at the RRES-RS project's Records Processing Facility and, where applicable, with the RRES-RS Program's reference library titled "Reference Set for Material Disposal Areas, Technical Area 21."

Copies of the reference library are maintained at the NMED Hazardous Waste Bureau; the DOE Los Alamos Site Office; and EPA, Region 6. This library is a living collection of documents that was developed to ensure that the administrative authority has all the necessary material to review the decisions and actions proposed in this document. However, documents previously submitted to the administrative authority are not included.

Blackwell, C., October 12, 1953. "Old Safety Training Building on DP Road," Letter to John Bolton (Eng-DO) from Charles Blackwell (H-1), Los Alamos, New Mexico. (Blackwell 1953, 63127)

Broxton, D., P. Longmire, P. Eller, and D. Flores, June 1995. "Preliminary Drilling Results for Boreholes LADP-3 and LADP-4," in "Earth Science Investigations for Environmental Restoration—Los Alamos National Laboratory Technical Area 21," D. Broxton and P. Eller (Eds), Los Alamos National Laboratory report LA-12934-MS, Los Alamos, New Mexico (Broxton et al. 1995, 50119)

CRC, 1985. Handbook of Chemistry and Physics, 65th Edition, R. Weast, editor. CRC Press, Inc. Boca Raton, Florida. (CRC 1985, 40244)

DOE, June 13, 2000. "Procedure for the Release of Residual Radioactive Material from Real Property," Los Alamos National Laboratory memorandum to D. Glenn (DOE Area Manager) from C. Soden (ESH Division Director), Los Alamos, New Mexico. (DOE 2000, 67489)

DOE (US Department of Energy), August 2001. Risk Assessment Information System (RAIS) online database, http://risk.lsd.ornl.gov/rap_hp.shtml, Office of Environmental Management, Oak Ridge Operations Office, Oak Ridge, Tennessee. (DOE 2001, 70089)

Eisenbud, M., and T. Gesell, 1977. *Environmental Radioactivity, from Natural, Industrial, and Military Sources,"* Academic Press, San Diego, California. (Eisenbud and Thomas 1997, 70130)

EPA (US Environmental Protection Agency), July, 1989. "Risk Assessment Guidance for Superfund," Human Health Evaluation Manual Part A, Interim Final, Washington DC. (EPA, 1989, 08021)

EPA (US Environmental Protection Agency), April 10, 1990. Module VIII of RCRA Permit No. NM0890010515, EPA Region VI, issued to Los Alamos National Laboratory, Los Alamos, New Mexico, effective May 23, 1990, EPA Region VI, Hazardous Waste Management Division, Dallas, Texas. (EPA 1990, 1585)

EPA (US Environmental Protection Agency), April 19, 1994. Module VIII of RCRA Permit No. NM0890010515, EPA Region VI, new requirements issued to Los Alamos National Laboratory, Los Alamos, New Mexico, effective May 19, 1994, EPA Region VI, Hazardous Waste Management Division, Dallas, Texas. (EPA 1994, 44146)

EPA (US Environmental Protection Agency), July 1997. "Health Effects Assessment Summary Tables FY 1997 Update," 9200.6-303 (97-1), PB97-921199, Washington DC. (EPA 2001, 58968)

EPA (US Environmental Protection Agency), July 10, 2000. "Ecological Soil Screening Level Guidance," Draft. Office of Emergency and Remedial Response, Washington DC. (EPA 2000, 73306)

EPA (US Environmental Protection Agency), August, 2001. "The Redesigned IRIS Web Site, EPA's Integrated Risk Information System (IRIS), Search Results for Aroclor 1254 and Benzene" (EPA 2001, 70109)

EPA (US Environmental Protection Agency), November, 2002. "Region 6 Human Health Medium-Specific Screening Levels," US Environmental Agency report, Washington DC. (EPA 2002, 73691)

Francis, William, July 1, 1996. "Telephone Log Regarding TA-21, Bldg. 45," telephone conversation between Bill Francis and Linnea Wahl, Los Alamos, New Mexico. (Francis 1996, 63125)

Francis, William, April 6, 1999. "A History of the 1949 Alterations to Building TA-21-45," Los Alamos National Laboratory memo EM/ER: RAFA: 99-025 to Gary McMath (CST-7) from William Francis (CST-18), Los Alamos National Laboratory, Los Alamos, New Mexico. (Francis 1999, 63126)

HSDB (Hazardous Substances Data Bank), 2001. Toxicology Data Network (TOXNET), Online database, http://toxnet.nlm.nih.gov (HSDB 2001, 63385)

LANL (Los Alamos National Laboratory), May 1991. 'VOL III TA-21 Operable Unit RFI Work Plan for Environmental Restoration," Los Alamos National Laboratory document LA-UR-91-962, Los Alamos, New Mexico. (LANL 1991, 07680)

LANL (Los Alamos National Laboratory), 1992. "Spade and Scoop Method for the Collection of Soil Samples," Environmental Restoration Project standard operating procedure ER-SOP-6.09, Los Alamos, New Mexico. (LANL 1992, 57969)

LANL, January, 1995. "Phase Report Addendum 1B & 1C Operable Unit 1106 RCRA Facility Investigation," Los Alamos National Laboratory document LA-UR-94-4360, Los Alamos, New Mexico. (LANL 1995, 52350)

LANL (Los Alamos National Laboratory), February 1998. "Environmental Restoration Project Standard Operating Procedure for Spade-and-Scoop Method for the collection of Soil Samples," ER-SOP-6.10. (LANL 1998, 65059)

LANL (Los Alamos National Laboratory), August 1998. "Hand Auger and Thin-wall Tube Sampler," Environmental Restoration Project standard operating procedure ER-SOP-6.10, Los Alamos, New Mexico. (LANL 1998, 59545)

LANL (Los Alamos National Laboratory, September 24, 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, 59730)

LANL (Los Alamos National Laboratory), July 1999. "Voluntary Corrective Action Plan for Potential Release Sites 21-024(f) and C-21-015," Los Alamos, New Mexico (LANL 1999, 64159)

LANL (Los Alamos National Laboratory), December 1999. "Screening Level Ecological Risk Assessment Methods," Rev. 1, Los Alamos National Laboratory report LA-UR-99-1405, Los Alamos, New Mexico. (LANL 1999, 64783)

LANL (Los Alamos National Laboratory), March 2000. "Installation Work Plan for Environmental Restoration Project, Revision 8", Los Alamos National Laboratory document LA-UR-00-1336, Los Alamos, New Mexico. (LANL 2000, 66802)

LANL (Los Alamos National Laboratory), April 2001. "Core Barrel Sampling for Subsurface Earth Materials," ER-SOP-6.26, Los Alamos, New Mexico. (LANL 2001, 70270)

LANL (Los Alamos National Laboratory), 2001. "Derivation and Use of Radionuclide Screening Levels," Los Alamos National Laboratory report LA-UR-01-990, Los Alamos, New Mexico. (LANL 2001, 69683)

LANL (Los Alamos National Laboratory), 2001. "VCA of PRS 21-024f, C-21-015, and 21-030," record of communication with the New Mexico Environment Department, Los Alamos, New Mexico. (LANL 2001, 70218)

LANL (Los Alamos National Laboratory), April 2002. "Human Health Risk-Based Screening Methodology," Los Alamos National Laboratory report LA-UR-02-1563, Los Alamos, New Mexico. (LANL 2002, 72639)

LANL (Los Alamos National Laboratory), September 2002. "ECORISK database, version 1.5," Los Alamos National Laboratory, Los Alamos, New Mexico. (LANL 2002, 73702)

LANL (Los Alamos National Laboratory), 2003. ECORISK Db 1.5, TRVs and ESL revision memo. (LANL 2003, 74012)

LANL (Los Alamos National Laboratory), 2003. "Interim Action Completion Report for Solid Waste Management Unit 21-024(i) at Technical Area 21," Los Alamos National Laboratory document LA-UR-03-1546, Los Alamos, New Mexico. (LANL 2003, 76053)

LASL (Los Alamos Scientific Laboratory), March 30, 1950. Engineering Drawing ENG 4C-660, sheet number 1 of 2, "Drawing Re: Plan, Building No. DPW-45, D.P. West Alterations to Building DPW-45, TA21." ENG 4C-660, Job no. 382 (LANL 1950, 63095.6)

LASL (Los Alamos Scientific Laboratory), March 30, 1950. "Drawing Re: Mechanical Plan, Alterations to Building No. DPW-45, D.P., TA21," Engineering Drawing ENG 4C-660A, sheet number 2 of 2, Job no. 382, Los Alamos, New Mexico. (LANL 1950, 63095.7)

Ney, R. 1995. *Fate and Transport of Organic Chemicals in the Environment, A Practical Guide, Second Edition,* Government Institutes Inc. publication ISBN 0-86587-470-0, Rockville, Maryland. (Ney 1995, 58210)

NMED (New Mexico Environment Department), 1998. "New Mexico Environment Department (NMED) Hazardous and Radioactive Material Bureau (HRMB) RCRA Permits Management Program (RPMP) Document Requirement Guide, Control Document #14," Santa Fe, New Mexico. (NMED 1998, 57897)

NMED (New Mexico Environment Department), December 18, 2000. "Technical Background Document for Development of Soil Screening Levels, Volume I, Soil Screening Guidance," New Mexico Environment Department Hazardous Waste Bureau and Ground Water Quality Bureau Voluntary Remediation Program Santa Fe, New Mexico. (NMED 2000, 68554)

Nyhan, J., Hacker, L., Calhoun, T. and E. Young. June 1978. "Soil Survey of Los Alamos County, New Mexico" LA-6779-MS Informal Report. (Nyhan et al. 1978, 05702)

Whicker, F. and V. Schultz, 1982. "Radioecology: Nuclear Energy and the Environment," Vol. 1, CRC Press, Boca Raton, Florida. (Whicker and Schultz 1982, 58209)

Appendix A

Acronyms, Glossary, and Conversion Table

APPENDIX A ACRONYMS, GLOSSARY, AND CONVERSION TABLE

A-1.0 ACRONYMS AND ABBREVIATIONS

AOC	area of concern
bgs	below ground surface
BV	background value
COPC	chemical of potential concern
COPEC	chemical of potential ecological concern
CRDL	contract-required detection limit
CV	coefficient of variation (test)
DP	Delta Prime
DL	detection limit
DOE	(US) Department of Energy
dpm	disintegrations per minute
Eco-SSL	ecological soil screening level
ECSM	ecological conceptual site model
EDL	estimated detection limit
EPA	(US) Environmental Protection Agency
EQL	estimated quantitation limit
ER	environmental restoration
ESL	ecological screening level
FV	fallout value
HI	hazard index
HQ	hazard quotient
ICR	incremental cancer risk
ID	identification (sample or location)
IDW	investigation derived waste
IWP	installation work plan
LANL	Los Alamos National Laboratory
LCS	laboratory control sample
LLRW	low-level radioactive waste
MDA	material disposal area
MDL	minimum detection limit
NFA	no further action
NMED	New Mexico Environment Department

NOAEL	no observed adverse effect level
OU	operable unit
PAH	polyaromatic hydrocarbon
PCB	polychlorinated biphenyl
PID	photo ionization detector
PPE	personal protective equipment
PQL	practical quantitation limit
PVC	polyvinyl chloride
QA	quality assurance
Qbt	Quaternary Bandelier tuff
QC	quality control
RCRA	Resource Conservation and Recovery Act
RfD	reference dose
RFI	RCRA facility investigation
RL	reporting limit
RPD	relative percent difference
RRES-RS	Risk Reduction and Environmental Stewardship-Remediation Services
SAL	screening action level
SF	slope factor
SOP	standard operating procedure
SOW	statement of work
SR	Studentized Range (test)
SVOC	semivolatile organic compound
SWMU	solid waste management unit
TA	technical area
TAL	target analyte list
TCLP	toxicity characteristic leaching procedure
TPU	total propagated uncertainty
UCL	upper confidence limit
VCA	voluntary corrective action
VCP	vitrified clay pipe
VOC	volatile organic compound

A-2.0 GLOSSARY

Alluvium. Clay, silt, sand, and gravel transported by water and deposited on streambeds, flood plains, and alluvial fans.

Analyte. The element, nuclide, or ion a chemical analysis seeks to identify and/or quantify; the *chemical* constituent of interest.

Background level. Naturally occurring concentrations (levels) of an inorganic chemical and naturally occurring radionuclides in soil, sediment, and tuff.

Chemical of potential concern (COPC). A chemical, detected at a site, that has the potential to adversely affect human receptors due to its concentration, distribution, and mechanism of toxicity. A COPC remains a concern until exposure pathways and receptors are evaluated in a site-specific human health risk assessment.

Chemical of potential ecological concern (COPEC). A chemical, detected at a site, that has the potential to adversely affect ecological *receptors* due to its concentration, distribution, and mechanism of toxicity.

Cleanup level. Media-specific contaminant concentration level that must be met by a selected corrective action. Cleanup levels are established by using criteria such as protection of human health and the environment; compliance with regulatory requirements; reduction of toxicity, mobility, or volume through treatment; long- and short-term effectiveness; implementability; cost; and public acceptance.

Cold vapor atomic absorption (CVAA). An analytical technique used for measuring mercury; it is described in EPA Methods 7470A (Mercury in Liquid Waste) and 7471A (Mercury in Solid or Semisolid Waste). The technique is based on the absorption of radiation at 253.7-nm by mercury vapor. The mercury is reduced to the elemental state and aerated from solution in a closed system. The mercury vapor passes through a cell positioned in the light path of an atomic absorption spectrophotometer. Absorbance (peak height) is measured as a function of mercury concentration.

Contaminant. Any chemical (including radionuclides) present in environmental media or on structural debris.

Contract-required detection limit (CRDL). The minimum reporting limits required under a contract between Los Alamos National Laboratory and a contract laboratory. The CRDLs are not necessarily intrinsically tied to instrument sensitivity but rather are reporting limits.

Department of Energy (DOE). Federal agency that sponsors energy research and regulates nuclear materials for weapons production.

Detect. Sample result above the method detection level reported by the laboratory. The laboratory reports the concentration of the analyte in the sample.

Detection limit. Minimum concentration that can be determined by a single measurement by an instrument; implies a specified statistical confidence that the analytical concentration is greater than zero.

Environmental Protection Agency (EPA). Federal agency responsible for enforcing environmental laws. While state regulatory agencies may be authorized to administer some of this responsibility, the EPA retains oversight authority to ensure protection of human health and the environment.

Estimated quantitation limit (EQL). The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine analytical-laboratory operating conditions. The low point on a calibration curve should reflect this quantitation limit. The EQL is not used to establish detection status. Sample estimated quantitation limits are highly matrix-dependent, and the specified

estimated quantitation limits might not always be achievable. See the statement of work (SOW) for analytical services (RFP No. 9-XS1-Q4257) for a more complete definition.

Half-life. The time required for one-half of the radioactive atoms initially present in a sample to decay. Each radionuclide has a characteristic half-life ranging from a fraction of a second to thousands of years.

Hazard index (HI). The sum of *hazard quotients* for multiple *contaminants* to which a *receptor* (j) is determined to be exposed, i.e., $HI_j = \sum_I HQ_{ij}$.

Hazard quotient (HQ). The ratio of a calculated exposure (E) to or *dose* (D) from a given *contaminant* (I) to a given *receptor* (j) over a reference value (TRV) for *contaminant* (I) determined to be protective of *receptor* (j), i.e., $HQ_{ij} = E_{ij}$ [or D_{ij}]TRV_{ij}.

Hazardous waste. Any *solid waste* is generally a hazardous waste if it

- is not excluded from regulation as a hazardous waste,
- is listed in the regulations as a hazardous waste,
- exhibits any of the defined characteristics of hazardous waste (ignitability, corrosivity, reactivity, or toxicity), or
- is a mixture of *solid waste* and hazardous waste.

See 40 CFR 261.3 for a complete definition of hazardous waste.

Holding time. The maximum elapse of time that one can expect to store a sample without unacceptable changes in analyte concentrations. Holding times apply under prescribed conditions and deviations from these conditions may affect the holding time. Extraction holding time refers to the time lapse from sample collection to sample preparation; analytical holding time refers to the time lapse between sample preparation and analysis.

Hydraulic conductivity. The rate at which water moves through a medium in a unit of time under a unit hydraulic gradient through a unit area measured perpendicular to the direction of flow.

Inductively coupled plasma emission spectroscopy (ICPES). ICPES determines trace elements, including metals, in solutions. The instrument measures characteristic emission spectra by optical spectrometry. Samples are nebulized, and the resulting aerosol is transported to the plasma torch. Element-specific emission spectra are produced by a radio-frequency inductively coupled plasma. The spectra are dispersed by a grating spectrometer, and photosensitive devices are used to monitor the intensities of the emission lines.

Industrial-use scenario. Industrial use is the scenario in which current Laboratory operations continue. Any necessary remediation involves cleanup to standards designed to ensure a safe and healthy work environment for Laboratory workers.

Laboratory control sample (LCS). A known matrix that has been spiked with compounds representative of the target analytes. The LCS is used to document laboratory performance. The acceptance criteria for LCSs are method specific.

Laboratory qualifier (or laboratory flag). Codes applied to the data by the contract analytical laboratory to indicate, on a gross scale, a verifiable or potential data deficiency. These flags are applied using the Environmental protection Agency (EPA) contract laboratory program (CLP) guidelines.

Matrix. Relatively fine material in which coarser fragments or crystals are embedded; also called "ground mass" in the case of igneous rocks.

Method blank. An analyte-free matrix to which all reagents are added in the same volumes or proportions as those used in the environmental sample processing and which is prepared and analyzed in the same manner as the corresponding environmental samples. The method blank is used to assess the potential for contamination to the sample during preparation and analysis.

Migration. The movement of inorganic and organic species through unsaturated or saturated materials.

Operable unit (OU). At the Laboratory, one of 24 areas originally established for administering the ER Project. Set up as groups of potential release sites, the OUs were aggregated based on geographic proximity for the purpose of planning and conducting RCRA facility assessments and RCRA facility investigations. As the project matured, it became apparent that 24 were too many to allow efficient communication and to ensure consistency in approach. Therefore, in 1994, the 24 OUs were reduced to 6 administrative "field units."

Perched groundwater. *Groundwater* that lies above the regional *water table* and is separated from it by one or more *unsaturated zones*.

Polychlorinated biphenyl (PCB). Any chemical substance that is limited to the biphenyl molecule that has been chlorinated to varying degrees or any combination of substances which contains such substances. PCBs are colorless, odorless compounds that are chemically, electrically, and thermally stable and have proven to be toxic to both humans and animals.

Potential release site (PRS). Refers to potentially contaminated sites at the Laboratory that are identified either as solid waste management units (SWMUs) or areas of concern (AOCs). PRS refers to SWMUs and AOCs collectively.

Quality assurance (QA). All those planned and systematic actions necessary to provide adequate confidence that a facility, structure, system, or component will perform satisfactorily in service.

Quality control (QC). (1) All those actions necessary to control and verify the features and characteristics of a material, process, product, or service to specified requirements. QC is the process through which actual quality performance is measured and compared with standards. (2) All methods and procedures used to obtain accurate and reliable results from environmental sampling and analysis. Includes rules for when, where, and how samples are taken; sample storage, preservation and transport; and the use of blanks, duplicates, and split samples during the analysis.

RCRA facility investigation (RFI). The investigation that determines if a release has occurred and the nature and extent of the contamination at a hazardous waste facility. The RFI is generally equivalent to the remedial investigation portion of the Comprehensive Environment Response, Compensation, and Liability Act (CERCLA) process.

Receptor. A person, plant, animal, or geographical location that is exposed to a chemical or physical agent released to the environment by human activities.

Regional aquifer. Geologic material(s) or unit(s) of regional extent whose saturated portion yields significant quantities of water to wells, contains the regional zone of saturation, and is characterized by the regional water table or potentiometric surface.

Remediation. The process of reducing the concentration of a contaminant (or contaminants) in air, water, or soil media to a level that poses an acceptable risk to human health and the environment; the act of restoring a contaminated area to a usable condition based on specified standards.

Residential-use scenario. The standards for residential use are the most stringent of the three current- and future-use scenarios being considered by the RRES-RS Program and is the level of cleanup the EPA is currently specifying for SWMUs located off the Laboratory site and for those released for non-Laboratory use.

Resource Conservation and Recovery Act (RCRA). The Solid Waste Disposal Act as amended by the Resource Conservation and Recovery Act of 1976 (40 CFR 270.2).

Risk. A measure of a negative or undesirable impact associated with an event.

Screening assessment. A process designed to determine whether contamination detected in a particular medium at a site may present a potentially unacceptable human-health and /or ecological risk. The assessment utilizes screening levels that are either human-health or ecologically based concentrations derived by using chemical-specific toxicity information and standardized exposure assumptions below which no additional actions are generally warranted.

Site conceptual model. A qualitative or quantitative description of sources of contamination, environmental transport pathways for contamination, and biota that may be impacted by contamination (called receptors) and whose relationships describe qualitatively or quantitatively the release of contamination from the sources, the movement of contamination along the pathways to the exposure points, and the uptake of contaminant by the receptors.

Target analyte. An element, *chemical*, or parameter, the concentration, mass, or magnitude of which is designed to be quantified by use of a particular test method.

Technical area (TA). The Laboratory established technical areas as administrative units for all its operations. There are currently 49 active TAs spread over 43 square miles.

Vadose zone. The unsaturated zone. Portion of the subsurface above the regional water table in which pores are not fully saturated.

A-3.0 METRIC TO ENGLISH CONVERSION TABLE

Multiply SI (Metric) Unit	by	To Obtain US 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)

Appendix B

Technical Area 21
Operational and Environmental Setting

APPENDIX B TECHNICAL AREA 21 OPERATIONAL AND ENVIRONMENTAL SETTING

B-1.0 OPERATIONAL HISTORY AND LAND USE

Technical Area (TA) 21 is located on Delta Prime (DP) Mesa on the northern boundary of Los Alamos National Laboratory (the Laboratory) and is immediately east-southeast of the Los Alamos townsite (Figure 1.2-1, Section 1). It extends from the mesa top to the stream channels in the adjacent canyons, with DP Canyon to the north and Los Alamos Canyon to the south.

During World War II, the Laboratory was established for the research, development, and testing of the first deliverable nuclear weapon. In 1945, the operations for establishing the chemical and metallurgical properties of the nuclear material necessary to achieve and sustain the required nuclear fission reaction were transferred to the newly built facilities at TA-21.

TA-21 includes five material disposal areas (MDAs) (MDAs A, B, T, U, and V), and numerous solid waste management units (SWMUs) and areas of concern (AOCs) representing features such as septic tanks, sumps, pipelines, and outfalls. Process wastes, transuranic wastes, and liquid wastes were disposed of at the MDAs from the early 1940s until the late 1970s; details of the disposal methods are presented in the TA-21 Operable Unit (OU) Work Plan (LANL 1991, 7528). The major contributors to waste streams at TA-21 were plutonium-processing activities. However, because plutonium was scarce, waste-stream recycling became a common practice to remove as much plutonium as possible from the waste streams. Wide ranges of other chemicals were used for separation techniques and were present in the waste streams. Airborne effluents were released from some of the buildings at DP West and DP East; these are also discussed in the Work Plan (LANL 1991, 7528).

The locations of SWMU 21-024(f) and AOCs C-21-015 and 21-030 are depicted in Figure 2.1-1 in the main body of this report, and the site descriptions and operational histories are presented in Section 2.2 of the report.

B-2.0 CLIMATE

Los Alamos County has a semiarid, temperate mountain climate. Annual precipitation, including both rain and snow, averages about 18 in. Recorded extremes in annual precipitation range between 6.8 in. and 30.3 in. An average of 40% of the annual precipitation falls during thunderstorms in July and August, often in brief, high-intensity rains. Significant amounts of surface water often run off during these rainfall events. Daily rainfall extremes of 1 in. or greater occur in most years, and the estimated 100-yr daily rainfall extreme is about 2.5 in. Snowstorms with accumulations exceeding 4 in. are common in Los Alamos. Snowfall is greatest from December through March; heavy snowfall is infrequent in other months (Bowen 1990, 6899). The average snowfall is 51 in. annually.

Summers are generally sunny, with warm days and cool nights. Summer afternoon temperatures in Los Alamos County are typically in the 70s and 80s (°F), infrequently reaching 90°F; nighttime temperatures are typically in the 50s (°F). Typical winter temperatures range between 30°F and 50°F during the day and 15°F and 25°F during the night, occasionally dropping to 0°F or below (Bowen 1990, 6899).

Strong winds occur predominantly in the spring. The predominant wind direction, especially for strong winds, is south-southwest. Because of complex terrain, surface winds in Los Alamos often vary greatly with time of day and location. The winds toward the eastern edge of the Pajarito Plateau near the Rio Grande Valley differ from those at the western edge adjacent to the mountains. Along the eastern edge, the daily wind cycle is a moderate southwesterly up-valley wind during the day and either a light northwesterly to northerly drainage wind or moderate southwesterly wind at night. Along the western

edge, the predominant winds are southerly to northwesterly during the day and southwesterly and northeasterly at night toward the Rio Grande Valley. TA-21 is located approximately midway between the western and eastern edges of the Pajarito Plateau. No tornadoes have been reported to have touched down in Los Alamos County. Strong dust devils can produce winds up to 75 mph at isolated spots in the county, especially at lower elevations. Strong winds with gusts exceeding 60 mph are common during the spring.

B-3.0 GEOLOGY

TA-21 is centrally located on the Pajarito Plateau, approximately midway between the flanks of the Jemez Mountains to the west and the Rio Grande to the east. The geology of the area and the specific geology of TA-21 are summarized in this section. Additional information on the geologic setting of the TA-21 area and information on the Pajarito Plateau can be found in the installation work plan (LANL 1998, 62060), the TA-21 operable unit work plan (LANL 1991, 7528), and the hydrogeologic work plan (LANL 1998, 59599).

B-3.1 Stratigraphy

The following sections describe the rock units below the TA-21 area; these units were encountered during environmental restoration investigations at the TA. The descriptions begin with the oldest (deepest) and proceed to the youngest (topmost) (Figure B-3.1-1).

B-3.1.1 Santa Fe Group

The Santa Fe Group consists of predominately fluvial, slightly consolidated sedimentary rocks that crop out in the lower reaches of Los Alamos Canyon, along White Rock Canyon, and in extensive areas east of the Rio Grande. Galusha and Blick (1971, 21526) subdivided the Santa Fe Group into formations and members based on geologic mapping and faunal assemblages of late tertiary mammals. Manley (1979, 11714) refined their stratigraphy based on additional mapping and dates on interbedded volcanic ash layers, lava flows, and dikes. Cavazza (1989, 21501) proposed changes in stratigraphic nomenclature based on sedimentary facies pattern. In the vicinity of the Pajarito Plateau, the Santa Fe Group consists of the Tesuque Formation and overlying Chamita Formation.

Tesuque Formation. The Tesuque Formation is a massive, thick unit consisting of arkosic sediments, derived primarily from Precambrian basement and Tertiary volcanic sources to the east and northeast. This unit is a light pink-to-buff siltstone and silty sandstone with a few lenses of pebbly conglomerate and clay. It is poorly to moderately consolidated and has an age range of about 7 to 21 million years (Manley 1979, 11714; Cavazza 1989, 21501). This formation exists in deep well boreholes under the Pajarito Plateau and is the primary aquifer for municipal and industrial water supply in Los Alamos County. Regional cross sections suggest that it does not exist beneath TA-21.

Chamita Formation. The Chamita Formation overlies and interfingers with the Tesuque Formation. It consists of arkosic siltstones, sandstones, pebbly conglomerate, and includes two prominent beds of white ash. Because of similarities of appearance and interfingering relations, the differentiation of Chamita from Tesuque deposits is difficult in borehole investigations, and it does not outcrop in the area of TA-21. Regional cross sections suggest that it does not exist beneath TA-21. The estimated age ranges between 4.5 and 12 million years (MacFadden 1977, 21569; Manley 1979, 11714).

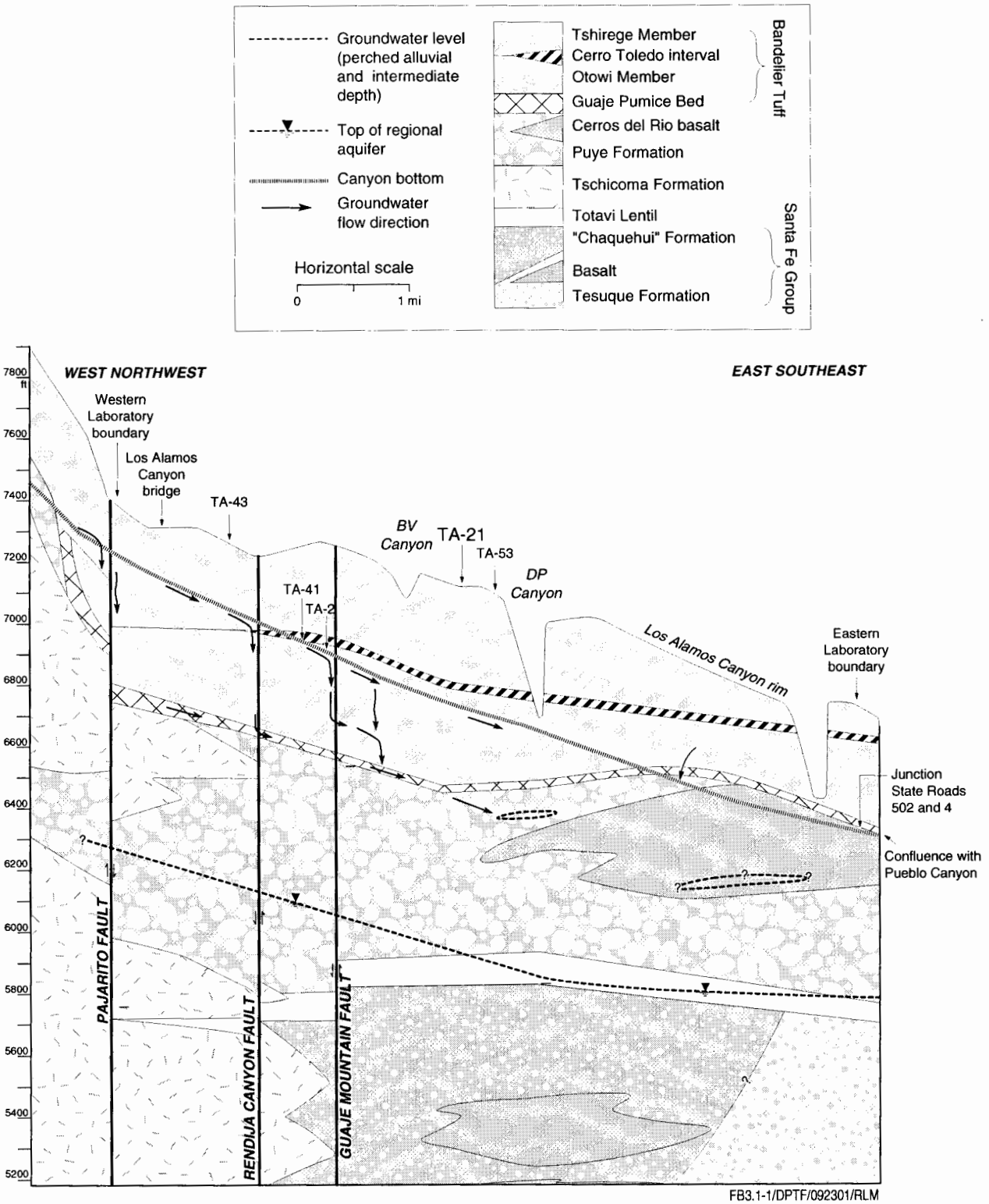


Figure B-3.1-1. Generalized stratigraphy beneath TA-21

Purtymun (1995, 45344) describes a trough of late Miocene coarse-grained sediments at the top of the Santa Fe Group that postdates the Chamita Formation. Purtymun called these deposits the Chaquehui Formation, and they are important for the development of high-yield, low-drawdown municipal and industrial water supply wells for the Los Alamos area. The trough is 3 to 4 miles wide and extends 7 to 8 miles from the northeast to the southwest. It is filled with up to 1500 ft of gravels, cobbles, and boulders derived from highlands to the north and east. Regional cross sections suggest it exists beneath TA-21 and most of the Laboratory.

B-3.1.2 The Puye Formation

The Puye Formation is a fanglomerate deposit consisting of poorly sorted boulders, cobbles, and coarse sands made up of dacitic to latitic debris eroded from the contemporaneous Tschicoma Formation (Turbeville et al. 1989, 21587; Spell et al. 1990, 21586). In the lower reaches of Los Alamos Canyon and along the Rio Grande, the Puye Formation also contains basaltic debris derived from contemporaneous volcanism and erosion of the Cerros del Rio volcanic field. The Puye Formation contains numerous interbedded lapilli tuff beds and laharic deposits. Lacustrine deposits are volumetrically significant in the distal parts of the fan. Regional cross sections show this deposit under TA-21.

The lower part of the Puye Formation includes the Totavi lentil (Griggs 1964, 8795), a deposit of well-rounded cobbles and boulders of Precambrian quartzites and crystalline rocks. The Totavi lentil probably represents channel deposits of the ancestral Rio Grande, and it may interfinger with the fanglomerate facies of the Puye Formation along White Rock Canyon.

B-3.1.3 The Bandelier Tuff

The Bandelier Tuff under TA-21 consists of the Otowi and Tshirege Members, which are stratigraphically separated in many places by the tephras and volcaniclastic sediments of the Cerro Toledo interval. The Bandelier Tuff was emplaced during cataclysmic eruptions of the Valles Caldera between 1.61 and 1.22 million years ago. The tuff is composed of pumice, minor rock fragments, and crystals supported in an ashy matrix. It is a prominent cliff-forming unit because of its generally strong consolidation. Because the Bandelier Tuff is the most prominent rock type on the Pajarito Plateau, its detailed stratigraphy is of considerable importance and is discussed further below (see also Broxton and Reneau 1995, 49726).

Otowi Member. Griggs (1964, 8795), Smith and Bailey (1966, 21584), Bailey et al. (1969, 21498), and Smith et al. (1970, 9752) describe the nature and extent of the Otowi Member. It consists of moderately consolidated (indurated), porous, and nonwelded vitric tuff (ignimbrite) that forms gentle colluvium-covered slopes along the base of canyon walls. The Otowi ignimbrites contain light gray-to-orange pumice that is supported in a white-to-tan ash matrix (Broxton et al. 1995, 50119; Broxton et al. 1995, 50121; Goff 1995, 49682). The ash matrix consists of glass shards, broken pumice and crystal fragments, and fragments of perlite.

The Guaje Pumice Bed occurs at the base of the Otowi Member, making a significant and extensive marker horizon. The Guaje Pumice Bed (Bailey et al. 1969, 21498; Self et al. 1986, 21579) contains well-sorted pumice fragments whose mean size varies between 0.8 and 1.6 in. Its thickness averages approximately 28 ft below most of the plateau with local areas of thickening and thinning. Its distinctive white color and texture make it easily identifiable in borehole cuttings and core, and it is an important marker bed for the base of the Bandelier Tuff.

Tephras and Volcaniclastic Sediments of the Cerro Toledo Interval. The Cerro Toledo interval is an informal name given to a sequence of volcaniclastic sediments and tephras of mixed provenance that

separates the Otowi and Tshirege Members of the Bandelier Tuff (Broxton et al. 1995, 50121; Broxton and Reneau 1995, 49726; Goff 1995, 49682). Although it is intercalated between the two members of the Bandelier Tuff, it is not considered part of that formation (Bailey et al. 1969, 21498). Outcrops of the Cerro Toledo interval generally occur wherever the top of the Otowi Member appears in Los Alamos Canyon and in canyons to the north; the interval outcrops in the TA-21 area. The unit contains primary volcanic deposits normally assigned to the Cerro Toledo rhyolite, as described by Smith et al. (1970, 9752), as well as intercalated and reworked volcaniclastic sediments not normally included in the Cerro Toledo rhyolite. The occurrence of the Cerro Toledo interval is widespread. However, its thickness is variable, ranging between several feet and more than 100 ft.

The predominant rock types in the Cerro Toledo interval are rhyolitic tuffaceous sediments and tephra at TA-21 (Broxton et al. 1995, 50121; Goff 1995, 49682; Heiken et al. 1986, 48638; Stix et al. 1988, 49680). The tuffaceous sediments are the reworked equivalents of Cerro Toledo rhyolite tephra that erupted from the Cerro Toledo and Rabbit Mountain rhyolite domes located in the Sierra de los Valles. At TA-21, oxidation and clay-rich horizons suggest that at least two periods of soil development occurred within the Cerro Toledo deposits. Because these soils are rich in clay, they may act as barriers to the movement of vadose-zone groundwater. Some of the epiclastic tuffaceous deposits contain both crystal-poor and crystal-rich varieties of pumice. The ashy matrix of these deposits is commonly rich with crystals and contains subhedral sanadine and quartz. The mixed pumice and the crystal-rich nature of the matrix suggest that these reworked tuffs were derived from both the Cerro Toledo Rhyolite and the underlying Otowi Member. The pumice falls tend to form porous and permeable horizons within the Cerro Toledo interval, and they may locally provide important pathways for moisture transport in the vadose zone. A subordinate lithology within the Cerro Toledo interval includes clast-supported gravel, cobble, and boulder deposits made up of porphyritic dacite derived from the Tschicoma Formation that are interbedded with the tuffaceous rocks. In some deposits, dacitic materials are volumetrically more important than rhyolitic detritus (Broxton and Reneau 1996, 55429; Broxton et al. 1995, 50121; Goff 1995, 49682).

Tshirege Member. The Tshirege Member is the upper member of the Bandelier Tuff and is the most widely exposed bedrock unit of the Pajarito Plateau (Bailey et al. 1969, 21498; Griggs 1964, 8795; Smith and Bailey 1966, 21584; Smith et al. 1970, 9752). Emplacement of this unit occurred during eruptions of the Valles Caldera approximately 1.2 million years ago (Izett and Obradovich 1994, 48817; Spell et al. 1996, 55542). The Tshierge Member is a multiple-flow, ash-and-pumice sheet that forms the prominent cliffs in most of the canyons on the Pajarito Plateau and at TA-21. It is a compound-cooling unit whose physical properties vary vertically and laterally. The consolidation in this member is largely due to compaction and welding at high temperatures after the tuff was emplaced. Its light brown, orange brown, purplish, and white cliffs have numerous, mostly vertical fractures (called joints) that average between several feet and several tens of feet. The Tshirege Member includes thin but distinctive layers of bedded, sand-sized particles called surge deposits that demark separate flow units within the tuff. The Tshirege Member is generally over 200 ft thick.

The Tshirege Member differs from the Otowi Member most notably in its generally greater degree of welding compaction. Time breaks between the successive emplacement of flow units caused the tuff to cool as several distinct cooling units. For this reason, the Tshirege Member is a compound cooling unit, consisting of at least four cooling subunits that display variable physical properties vertically and horizontally (Smith and Bailey 1966, 21584; Crowe et al. 1978, 5720; Broxton et al. 1995, 50121). These variations in physical properties reflect zonal patterns of varying degrees of welding and glass crystallization that accompany welding (Smith 1960, 48819; Smith 1960, 48820). The welding and crystallization variabilities in the Tshirege Member produce recognizable vertical variations in its properties, such as density, porosity, hardness, composition, color, and surface weathering patterns. The subunits are mappable based on a combination of hydrologic properties and lithologic characteristics.

There is a certain amount of confusion because of the inconsistent use of subunit names for the Tshirege Member (Baltz et al. 1963, 8402; Weir and Purtymun 1962, 11890; Crowe et al. 1978, 5720; Vaniman and Wohletz 1990, 21589; Vaniman 1991, 9995; Goff 1995, 49682; Broxton et al. 1995, 50121). To avoid confusion, this discussion follows the nomenclature of Broxton and Reneau (1995, 49726), which has been adopted by the Risk Reduction and Environmental Stewardship Division–Remediation Services (RRES-RS) Project, formerly the Environmental Restoration (ER) Project.

Broxton et al. (1995, 50121) provide extensive descriptions of the Tshirege Member cooling units. The following paragraphs describe, in ascending order, subunits of the Tshirege Member.

The Tsankawi Pumice Bed forms the base of the Tshirege Member. Where exposed, it is commonly 20–30 in. thick. This pumice-fall deposit contains moderately well-sorted pumice lapilli (diameters reaching about 2.5 in.) in a crystal-rich matrix. Several thin ash beds are interbedded with the pumice-fall deposits.

Qbt 1g is the lowermost subunit of the thick ignimbrite sheet overlying the Tsankawi Pumice Bed. It consists of porous, nonwelded, and poorly sorted ash-flow tuffs. The *g* in this designation stands for glass because none of the glass in ash shards and pumices shows crystallization by devitrification or vapor-phase crystallization. This unit is poorly indurated but nonetheless forms steep cliffs because of a resistant bench near the top of the unit; the bench forms a harder, protective cap over the softer underlying tuffs. A thin (4–10 in.) pumice-poor surge deposit commonly occurs at the base of this unit.

Qbt 1v forms alternating cliff-like and sloping outcrops composed of porous, nonwelded, crystallized tuffs. The *v* stands for vapor-phase crystallization, which together with in situ devitrification, has converted much of the glass in shards and pumices into microcrystalline aggregates. The base of this unit is a thin, horizontal zone of preferential weathering that marks the abrupt transition from glassy tuffs below (in Unit 1g) to the crystallized tuffs above. This feature forms a widespread marker horizon (locally termed the vapor-phase notch) throughout the Pajarito Plateau, which is readily visible in canyon walls at TA-21. The lower part of Qbt 1v is orange brown, resistant to weathering, and has distinctive columnar (vertical) joints; therefore, the term *colonnade tuff* is appropriate for its description. A distinctive white band of alternating cliff- and slope-forming tuffs overlies the colonnade tuff. The tuffs of Qbt 1v are commonly nonwelded (pumices and shards retain their initial equant shapes) and have an open, porous structure.

Qbt 2 forms a distinctive, medium brown, vertical cliff that stands out in marked contrast to the slope-forming, lighter-colored tuffs above and below at TA-21. It displays the greatest degree of welding in the Tshirege Member. A series of surge beds commonly mark its base. It is typically nonporous and has low permeability relative to the other units of the Tshirege Member. Vapor-phase crystallization of flattened shards and pumice is extensive in this unit.

Qbt 3 is a nonwelded to partially welded, vapor-phase altered tuff, which forms many of the upper cliffs in the TA-21 area. Its base consists of a purple gray, unconsolidated, porous, and crystal-rich nonwelded tuff that underlies a broad, gently sloping bench developed on top of Qbt 2. This basal, nonwelded portion forms relatively soft outcrops that weather into low rounded mounds with a white color, which contrast with the cliffs of partially welded tuff in the middle and upper portions of Qbt 3.

B-3.2 Geochemistry

Certain minerals present in Bandelier Tuff are important in terms of sorption of chemical species from water. Among them are alkali feldspar and a combination of three silica polymorphs (i.e., quartz, cristobalite, and tridymite). These minerals are found throughout the thickness of the Bandelier Tuff, and their absolute abundance throughout the tuff can have a significant effect on the retardation of several

TA-21 contaminants. Less important in terms of transport are organic materials, which can react with certain constituents to form relatively mobile compounds. The organic content of geologic materials on the Pajarito Plateau mesas is typically less than one wt percentage; however, the fractures can contain higher organic concentrations than the tuff matrix.

In addition to the minerals found in the tuff matrix, clay minerals are found in abundance in fractures and interbeds in the Bandelier Tuff. The primary clay minerals are smectites, with lesser amounts of kaolinite. The clay minerals have high sorptive capacity for many TA-21 contaminants. Hematite (i.e., iron oxide) coatings are also found but with less frequency than clay coatings. Hematite has a very large surface area for binding certain metals and is therefore also important when considering transport in fractures.

B-3.3 Seismology and Fractures

There are three major faults that are considered significant with respect to seismic potential across the Laboratory complex: the Pajarito, the Guaje Mountain, and the Rendija Canyon faults. Figure B-3.3-1 shows the location of major faults in the Laboratory complex with respect to TA-21.

The Pajarito fault system has experienced Holocene movement and historic seismicity (Gardner and House 1987, 6682; Gardner et al. 1990, 48813). Characterized by northerly trending normal faults that intertwine along their traces, the Pajarito fault system shows dominantly down-to-the-east movement and produces a series of prominent fault scarps west of the Laboratory. The vertical throw on this fault system is over several hundred feet south and west of the Laboratory but decreases northward of Los Alamos Canyon where the fault system is less prominent.

The Rendija Canyon and Guaje Mountain faults are also normal faults, are downthrown to the west, and are considered secondary faults within the Pajarito fault system. The Rendija Canyon fault is located 3 mi east of the Pajarito fault, and the Guaje Mountain fault is located about 1.2 mi east of the Rendija Canyon fault. The Rendija Canyon fault crosses Pueblo Canyon near its confluence with Acid Canyon and Los Alamos Canyon but does not have clear surface expression south of Sandia Canyon. The Guaje Mountain fault parallels the Rendija Canyon fault and is projected to cross Los Alamos Canyon near the west end of TA-21, although there is no clear offset of the Tshirege Member south of North Mesa. North of the Laboratory, both of these faults have zones of gouge and breccia up to several meters wide and produce visible offsets of stratigraphic horizons and recognizable scarps. However, these features are not apparent within most of the Laboratory and TA-21. Vaniman and Wohletz (1990, 21589) and Wohletz (1995, 54404) project these faults south of Los Alamos Canyon based on Tshirege Member rock fracture density variations, orientations, and size.

Geologic evidence reveals that the Pajarito fault has ruptured within the past 1.2 million years, perhaps as recently as 50,000 yr ago. Field investigations show that the Rendija Canyon fault has ruptured within the past 10,000 yr and that the Guaje Mountain fault has ruptured within the past 6000 yr. The recurrence interval of seismic events along the Rendija Canyon and Guaje Mountain faults is estimated to be between 10,000 and 150,000 yr.

A number of small-to-moderate earthquakes not associated with mapped faults (termed *background earthquakes*) have occurred in north-central New Mexico within the past 100 yr. Since 1973, local seismicity has been monitored by the Los Alamos Seismograph Network. Measured events have not exceeded a magnitude of 4, which is relatively weak compared with earthquakes producing damage to buildings and structures. Details about a seismic hazard evaluation that was completed for the Laboratory can be found in a report by Wong et al. (1995, 70097), Chapters 8 through 11.

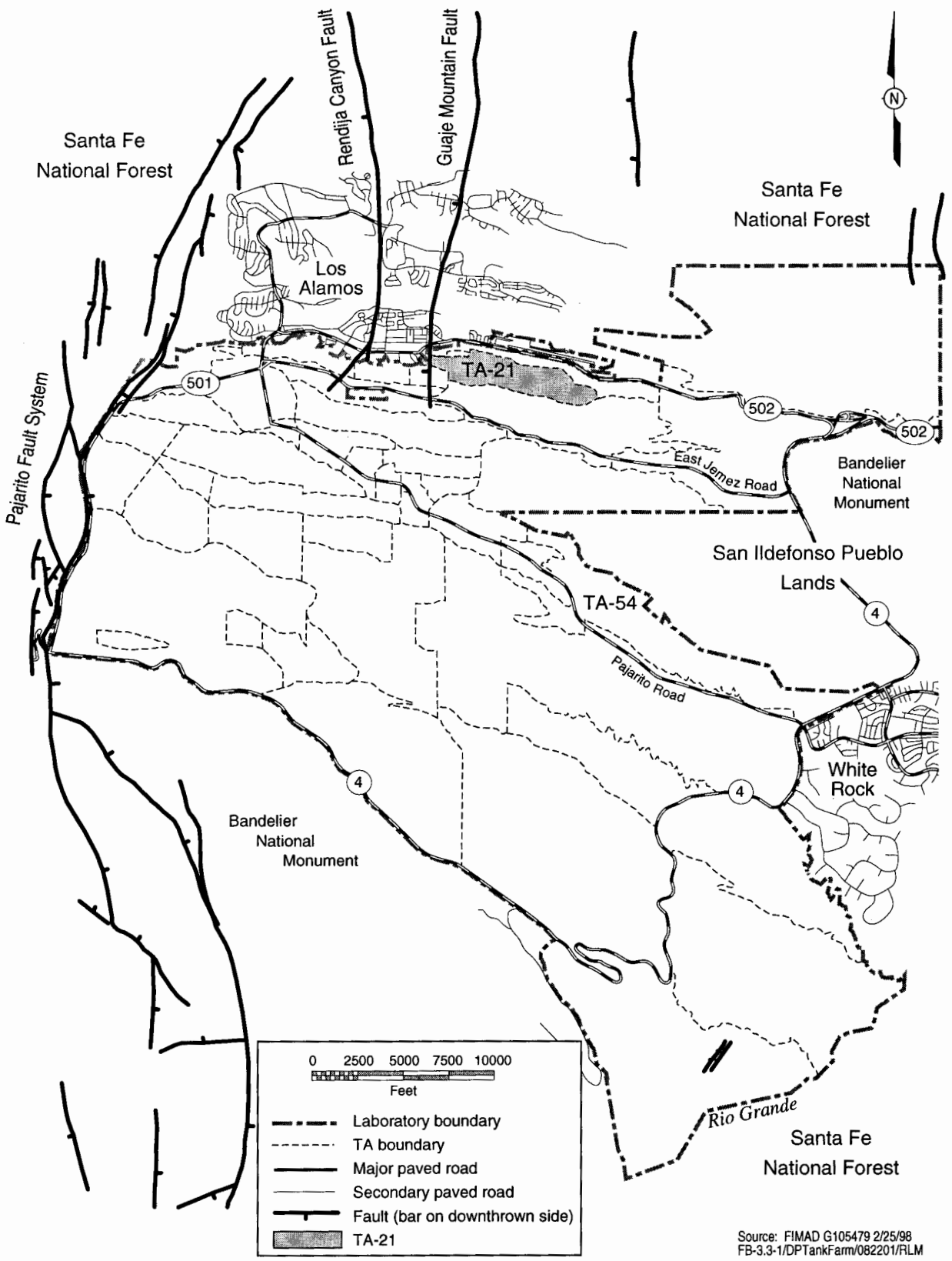


Figure B-3.3-1. Locations of major faults in Laboratory complex relative to TA-21

Abundant fractures extend through the upper units of the Bandelier Tuff, including the Tshirege Unit 3 ignimbrite. The origin of the fractures has not been fully determined, but the most probable cause is brittle failure of the tuff caused by cooling contraction soon after initial emplacement (Vaniman 1991, 9995; Wohletz 1995, 54404). It is probable that past tectonic activity on the Pajarito fault system and the Guaje Mountain Fault Zone has also caused fracture development, reorientation, and extension (Wohletz 1995, 54404).

B-3.3.1 Fractures at TA-21

An extensive field survey of fractures in the Bandelier Tuff at TA-21 was conducted in 1992. Wohletz (1995, 54404) measured strike, dip, and aperture in 1662 fractures in Unit 2 of the Tshirege Member of the Bandelier Tuff (Qbt 2) exposed on cliffs below TA-21 in Los Alamos Canyon. The fracture traverse was 7312 ft long, extending east from a starting point 1200 ft east of the access gate to TA-21 and roughly due south of the eastern end of the DP Tank Farm site. Fractures were plotted on photomosaic maps of the canyon wall and their horizontal position calculated relative to the starting point of the fracture traverse. Linear fracture densities for 10-ft and 100-ft intervals, cumulative fracture width (sum of all fracture apertures within a given interval) for 10-ft and 100-ft intervals, and the relative fracture dips from vertical were calculated from the field data.

The average background fracture spacing at TA-21 is about 5 ft. A 1500-ft-wide zone starting near the gated entrance to TA-21 and extending to the east has a fracture spacing of 1–2 ft. The spacing decreases abruptly near the entrance to TA-21 and then increases gradually, reaching the 5-ft background value about 1500 ft to the east. Wohletz (1995, 54404) suggested that this fracture zone represents a fabric of the Pajarito Fault Zone. Measured strikes show that the fractures in this zone make up two conjugate sets: one trending northwest and the other northeast. The northeast-trending set (988 fractures) has a mean strike of N43E, and the northwest-trending set (674 fractures) has a mean strike of N33W. Fracture dips range between nearly horizontal and vertical, although most are steeply dipping. The majority of fractures in both the northeast- and northwest-trending sets dip steeply toward the north, with mean dips of 73° and 74° from the horizontal, respectively.

Fracture apertures range between 0 cm and 15 cm. The northeast and northwest sets of fractures have mean apertures of 0.82 cm and 0.93 cm, respectively. These mean apertures increase to 1.1 cm and 1.5 cm within the fracture zone. The background cumulative fracture width is about 0.5 m of fracture opening per 100-ft interval. This increases to about 1.4 m per 100-ft interval within the fracture zone. Fracture apertures decreased both above and below Unit 2, although no data were recorded for those units. Fracture fillings were described as sparse to absent in Unit 2 but prominent in Unit 3 (Qbt 3).

B-3.4 Soils

Soils on the Pajarito Plateau were initially mapped and described by Nyhan et al. (1978, 5702). The Nyhan study included only Laboratory-controlled lands and certain United States Forest Service lands within Los Alamos County.

Soils were formed in a semiarid climate and were derived from chemical, biological, and physical weathering of local bedrock units, fallout pumice deposits, eolian deposits, and sediments derived from these geological materials (Nyhan et al. 1978, 5702). A large variety of soils have developed on the Pajarito Plateau as the result of interactions of the underlying bedrock, slope, and climate. The mineral components of the soils are in large part derived from the Bandelier Tuff, but dacitic lavas of the Tschicoma Formation, basalts of the Cerros del Rio volcanic field, and sedimentary rocks of the Puye

Formation are locally important. Alluvium derived from the Pajarito Plateau and from the east side of the Jemez Mountains contributes to soils in the canyons and also to those on some of the mesa tops.

The soils on the slopes between the mesa tops and canyon floors have been mapped as mostly steep rock outcrops consisting of approximately 90% bedrock outcrop and patches of shallow, undeveloped colluvial soils. South-facing canyon walls are steep and usually have little or no soil material or vegetation; in contrast, the north-facing walls generally have areas of very shallow dark-colored soils and are more heavily vegetated. The canyon floors generally contain poorly developed, deep, well-drained soils (Nyhan et al. 1978, 5702).

Soils in the vicinity of TA-21 are typical of those across the Pajarito Plateau and are generally poorly developed, derived from Bandelier Tuff bedrock, and formed in a semiarid climate. Soils on the TA-21 mesa top are mainly shallow, well-drained sandy loams of the Hackroy series. As described by Nyhan et al. (1978, 5702), "The surface layer of the Hackroy soils is a brown sand loam, or loam, about 10-cm thick. The subsoil is a reddish brown clay, gravelly clay, or clay loam, about 20-cm thick. The depth to bedrock and the effective rooting depth are 20 to 50 cm." Hackroy soils are classified as Alfisols, in part reflecting the clayey subsurface horizons. Intermixed with the Hackroy soils on the mesa tops are small areas of deeper loams of the Nyjack series and patches of bedrock. The Nyjack soils are texturally similar to Hackroy soils and are distinguished by thicknesses of 7.9 in. (50 cm) to 40.2 in. (102 cm) and by the common presence of pumice fragments in the lower soil (Nyhan et al. 1978, 5702). Areas of exposed rock are predominant toward the east end of the mesa and TA-21 development. At TA-21, there are typically between one and several feet of soil and/or fill overlying Qbt 3.

B-4.0 HYDROLOGY

The hydrogeology of the Pajarito Plateau is generally separable in terms of mesas and canyons forming the plateau. Mesas are generally devoid of water, both on the surface and within the rock forming the mesa. Canyons range from wet to relatively dry; the wettest canyons contain continuous streams and perennial groundwater in the canyon-bottom alluvium. Dry canyons have only occasional streamflow and may lack alluvial groundwater. Intermediate perched groundwater has been found at certain locations on the plateau at depths ranging between 100 ft and 400 ft (30 m and 122 m). The regional aquifer is found at depths of about 600 ft to 1200 ft (180 m to 360 m).

B-4.1 Hydrological Conceptual Model

The hydrogeologic model (Figure B-4.1-1) shows that, under natural conditions, relatively small volumes of water move beneath mesa tops; this is because of low rainfall, high evaporation, and efficient water use by vegetation. Atmospheric evaporation may extend deeper into mesas, further inhibiting downward flow.

The amount of mesa-top recharge along the western portion of the Laboratory is uncertain. Higher rainfall, increased vegetative cover, and increased welding and jointing of the tuff might lead to different recharge rates than those observed in better-studied portions of the Laboratory. If surface conditions are disturbed, mesa-top recharge can be locally significant. Such change occurs when the soil is compacted, when the vegetation is disturbed, or when more water is artificially added to the hydrologic system by features such as blacktop, lagoons, or effluent disposal. Fractures within mesas do not enhance the movement of dissolved contaminants unless saturated conditions develop. Contaminants in vapor form readily migrate through mesas. Vapors denser than air will sink.

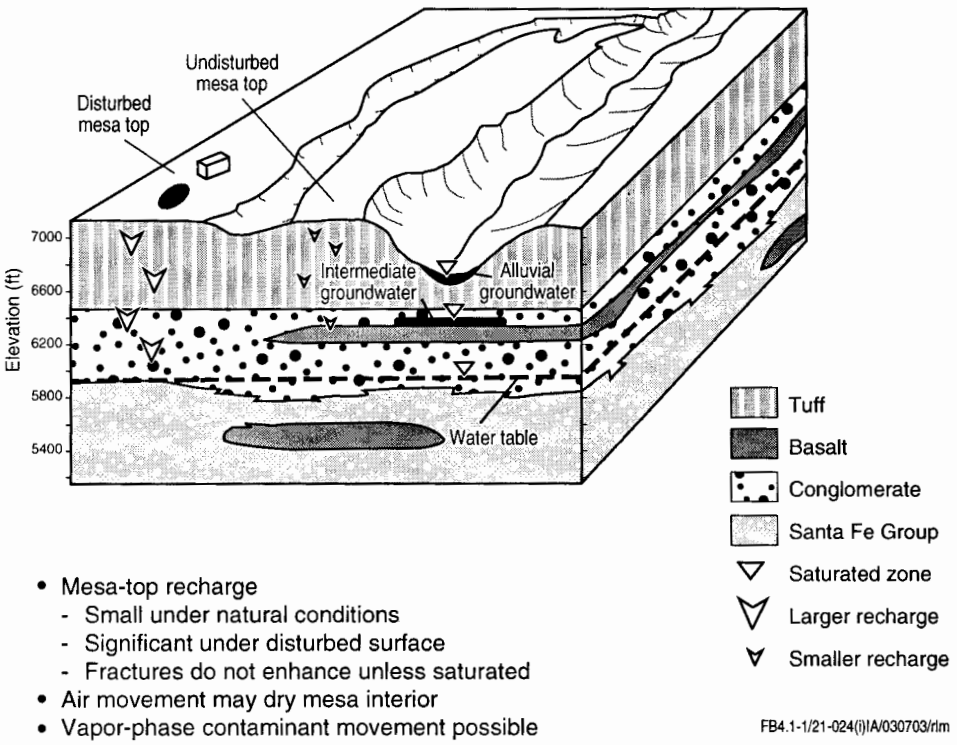
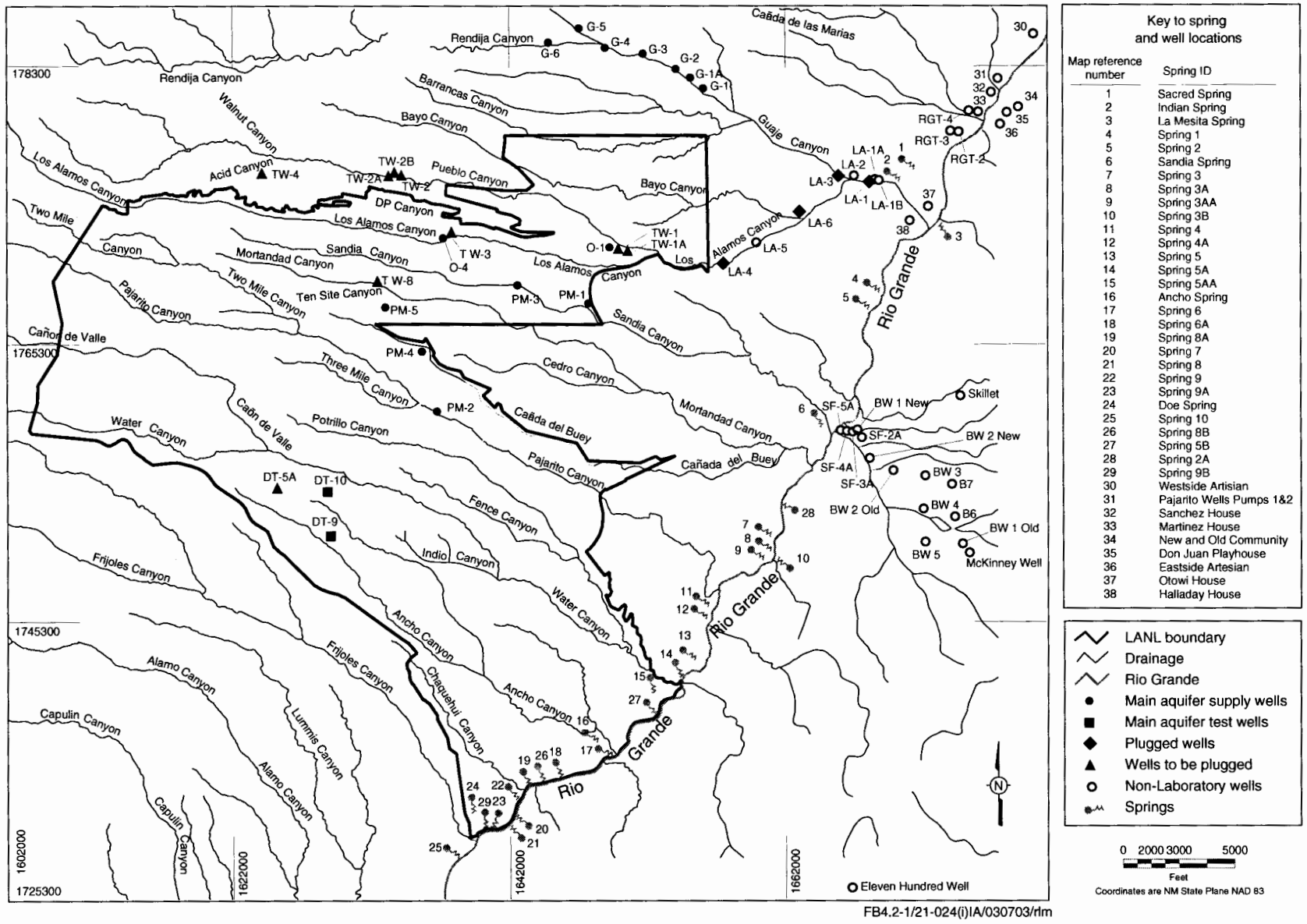


Figure B-4.1-1. Hydrogeologic conceptual model for Laboratory mesa tops

B-4.2 Surface Water

The Rio Grande is the primary river in north-central New Mexico. All surface water drainage and groundwater discharge from the plateau ultimately arrives at the Rio Grande (Figure B-4.2-1). Most Los Alamos County surface water occurs as ephemeral, intermittent, or interrupted (ephemeral, intermittent, and perennial reaches) streams in canyons cut into the Pajarito Plateau. Ephemeral streams flow in response to precipitation; intermittent streams flow in response to the availability of snowmelt or groundwater discharge; and perennial streams flow at all times except during extreme drought. Springs on the flanks of the Jemez Mountains, west of the Laboratory's western boundary, supply flow to the upper reaches of Cañon de Valle and to Guaje, Los Alamos, Pajarito, and Water Canyons (Purtymun 1975, 11787; Stoker 1993, 56021). These springs discharge water perched in the Bandelier Tuff and Tschicoma Formation at rates from 2 gpm to 135 gpm (Abeele et al. 1981, 6273). The volume of flow from the springs maintains natural perennial reaches of varying lengths in each of the canyons.

Perennial flow has historically occurred in the upper reaches (west of the Laboratory) of Los Alamos Canyon and in the lower reaches downstream of the confluence with Pueblo Canyon. In the past, the Los Alamos Reservoir operated as a throughput for runoff originating in the upper watershed. The outflow would result in nearly continuous surface water flow in Los Alamos Canyon from the reservoir to downstream locations, sometimes all the way to the Laboratory boundary, for several weeks to several months each year (LANL 1995, 50290). However, it is not clear how the impacts of the Cerro Grande fire and future reservoir management practices will affect surface water flow in Los Alamos Canyon. For most of the year, the only surface flow in Los Alamos Canyon is in the lower part of the canyon due to



FB4.2-1/21-024(i)IA/030703/rlm

Figure B-4.2-1. Surface water drainage to Rio Grande and well locations

discharge from the Los Alamos County Sewage Treatment Plant (LANL 1995, 50290) (Figure B-4.2-2). Surface water in Los Alamos Canyon rarely flows the length of the Laboratory. Most often surface waters are depleted by infiltration into canyon alluvium creating saturated zones of seasonally variable extent (LANL 1995, 50290).

Surface flow in DP Canyon, a tributary to Los Alamos Canyon that runs along the north side of TA-21, is generated by rainfall and snowmelt events, and by runoff from the Los Alamos downtown area. DP Spring, located in DP Canyon (Figure B-4.2-2), discharges continuously except for a dry period that occurred during the winter and spring of 1996.

At the Laboratory, surface water runoff and sediment transport are among the potential migration pathways by which contaminants might be transported off site. Surface water may also access subsurface contaminants exposed by soil erosion. Soil erosion is dependent on several factors, including soil properties, the amount of vegetative cover, the slope of the contaminated area, exposure, the intensity and frequency of precipitation, and seismic activity.

B-4.2.1 LANL ER-SOP 2.01 Assessments

The Laboratory's RRES Division has developed standard operating procedure (SOP) 2.01 to assess sediment transport and erosion concerns at specific SWMUs and AOCs. SOP 2.01 provides a basis for prioritizing and scheduling actions to control erosion of potentially contaminated soils at specific sites. The procedure calls for a two-part evaluation. The first part is a compilation of existing analytical data, site maps, and knowledge-of-process information and is initiated and completed by the Laboratory's Environmental Characterization and Remediation Group (RRES-ECR). The second part is an assessment of the erosion/sediment transport potential at the site and is completed by the Laboratory's Water Quality and Hydrology Group (RRES-WQH, formerly ESH-18). Erosion potential is numerically rated from 1 to 100 using a matrix system. Sites that score below 40 to 60 have low erosion potential. A Surface Water Assessment Team, which includes representatives from RRES Division, the DOE, the DOE Oversight Bureau, and the New Mexico Environment Department (NMED), evaluates each completed assessment. If necessary, a best management practice (BMP) or other action is implemented based on the results of the assessment. The SOP 2.01 assessments for SWMU 21-024(f) and AOCs C-21-015 and 21-030 are attached at the end of this appendix. The score for the SWMU is 30.9 and the score for the combined AOCs is 22.7, indicating a low erosion potential for the entire area.

B-4.3 Groundwater

In the Los Alamos area, groundwater occurs as (1) water in shallow alluvium in some of the larger canyons, (2) intermediate perched groundwater (a perched groundwater body that lies above a less permeable layer and is separated from the underlying aquifer by an unsaturated zone), and (3) the regional aquifer of the Los Alamos area. Numerous wells have been installed over the past several decades at the Laboratory and in the surrounding area to investigate the presence of groundwater in these zones and to monitor groundwater quality. The locations of the existing wells around TA-21 are shown in Figure B-4.2-2.

The Laboratory has formulated a comprehensive groundwater protection plan (LANL 1995, 50124) for an enhanced set of characterization and monitoring activities. The hydrogeologic work plan (LANL 1998, 59599) details the implementation of extensive groundwater characterization across the Pajarito Plateau within an area potentially affected by past and present Laboratory operations, such as those at TA-21.

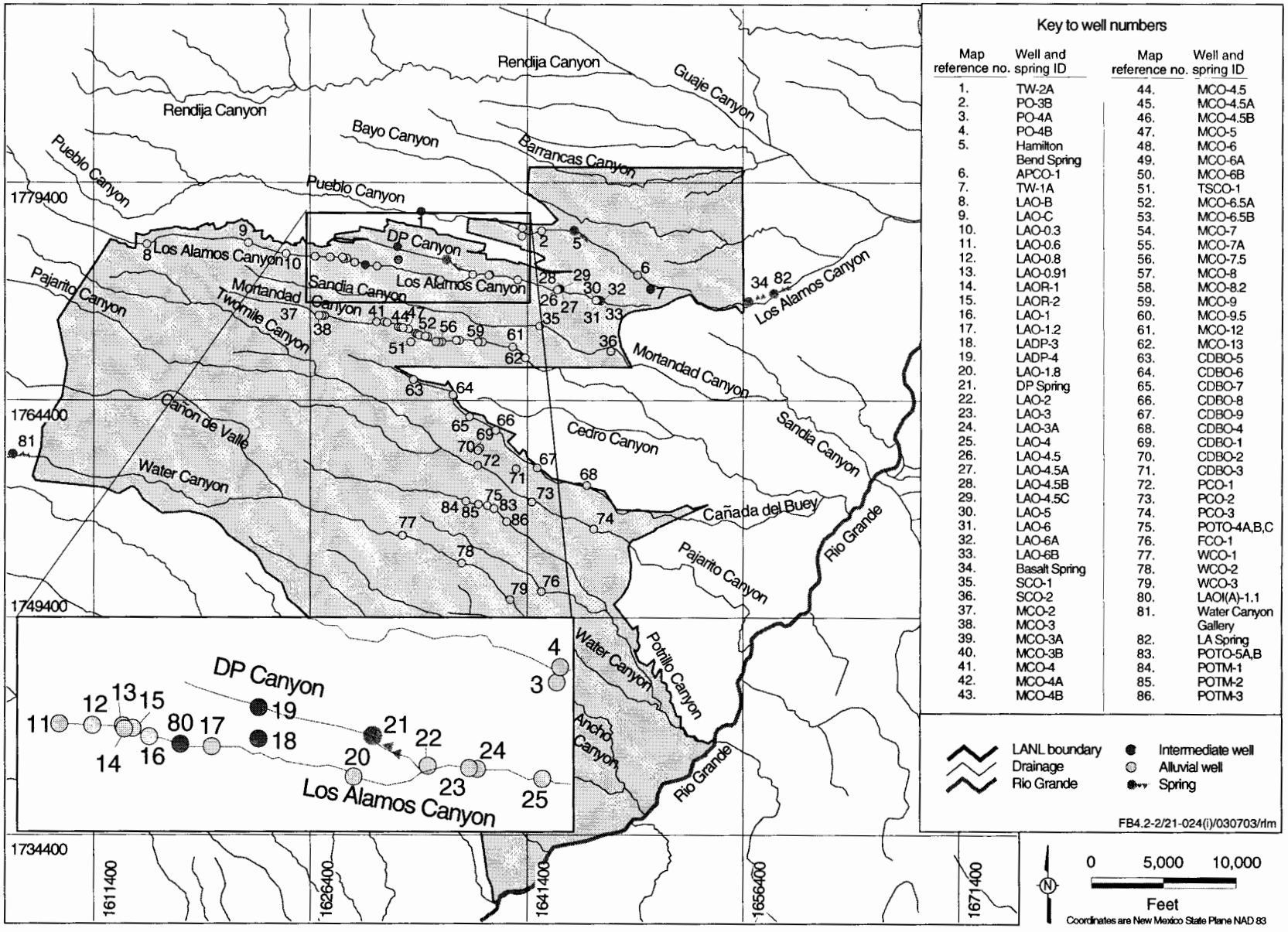


Figure B-4.2-2. Locations of wells and springs near TA-21

B-4.3.1 Alluvial Waters

Intermittent and ephemeral streamflows in the canyons of the Pajarito Plateau have deposited alluvium that can be as much as 100 ft thick. The alluvium in canyons that head on the Jemez Mountains is generally composed of sands, gravels, pebbles, cobbles, and boulders derived from the Tschicoma Formation and Bandelier Tuff. The alluvium in canyons that head on the plateau is comparatively more fine grained, consisting of clays, silts, sands, and gravels derived from the Bandelier Tuff. Saturated hydraulic conductivity of the alluvium typically ranges between 10^{-2} cm/s for a sand and 10^{-4} cm/s for a silty sand (Abeele et al. 1981, 6273).

In contrast to the underlying volcanic tuff and sediments, alluvium is quite permeable. Ephemeral runoff in some canyons infiltrates the alluvium until downward movement is impeded by the less permeable sediments or tuff and results in the buildup of a shallow alluvial groundwater body. Depletion by evapotranspiration and movement into the underlying rocks limit the horizontal and vertical extent of the alluvial water (Purtymun et al. 1977, 11846). The limited saturated thickness and extent of the alluvial groundwater preclude its use as a viable source of water for municipal and industrial needs. Lateral flow of the alluvial perched groundwaters is in an easterly, down canyon direction.

Two saturated zones are known to exist in the alluvium of Los Alamos Canyon. The first is in the upper part of Los Alamos Canyon and extends eastward from the Los Alamos Reservoir to the vicinity of observation well LAO-4.5 west of State Road 4 (Figure B-4.2-2). The second is in the lower part of Los Alamos Canyon and extends from Basalt Spring to the Rio Grande (Figure B-4.2-2). In middle and upper Los Alamos Canyon, the saturated thickness in the alluvium varies seasonally from a few feet in the winter months to 25 ft in the spring and summer months when recharge is the greatest (Environmental Protection Group 1994, 45363).

Alluvial groundwater has been found in DP Canyon at wells LAUZ-1 and LAUZ-2, which were installed for environmental investigations at TA-21. The wells were drilled to a depth of 15 ft. Alluvial water was encountered in both wells at approximately 4.5 ft below the surface. The saturated zone at the time was approximately 3.5 ft thick.

B-4.3.2 Intermediate Perched Waters

Two intermediate perched zones, one beneath the other, have been encountered in Los Alamos Canyon between TA-2 and the confluence with DP Canyon. The upper intermediate perched zone occurs within the Guaje Pumice Bed. This zone was encountered in boreholes LADP-3 (at 325 ft) and LAOI(A)-1.1 (at 295 ft) (Broxton and Eller 1995, 58207; Longmire et al. 1996, 54168) (Figure B-4.3-1). The saturated thickness of this zone decreases from west to east, ranging between 22 ft at LAOI(A)-1.1 and 5 ft at LADP-3.

A deeper intermediate perched zone was encountered in LAOI(A)-1.1 in the Puye Formation at about 317 ft. Possibly the same zone was also observed at a depth of 253 ft in the Puye Formation during development of water supply well O-4 (Stoker et al. 1992, 12017) (Figure B-4.2-1). However, no intermediate perched zone was found at LADP-3 in the approximately 19 ft of the Puye Formation that was penetrated. Another hole was drilled from the mesa top near the gated entrance to TA-21 to investigate the lateral extent of the Guaje Pumice intermediate perched zone under DP Mesa; the location of this well is approximately midway between LAOI(A)-1.1 and LADP-3. There was no perched water in the hole.

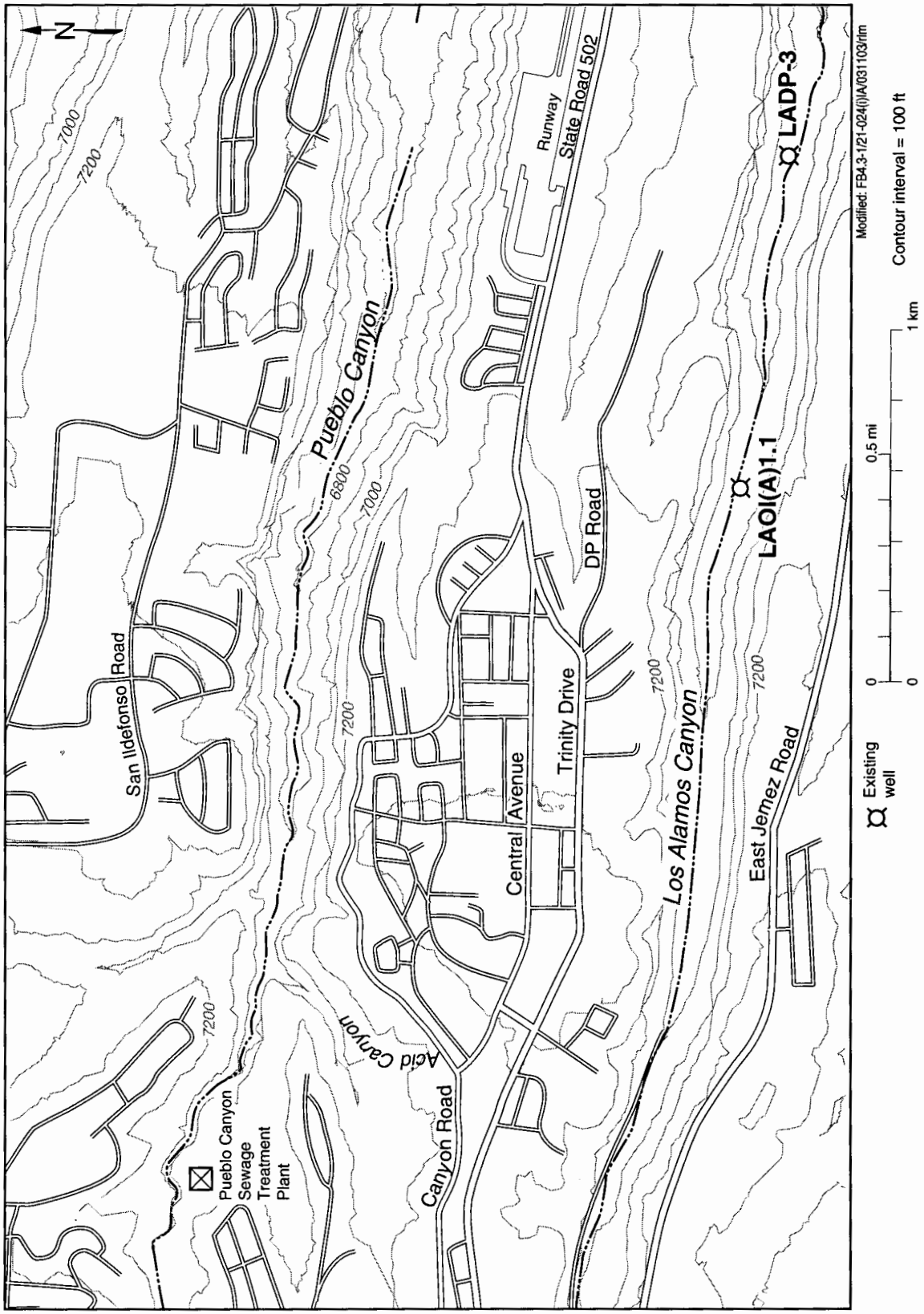


Figure B-4.3-1. Locations of wells LAOI(A)1.1 and LADP-3, where perched water has been encountered

B-4.3.3 Regional Aquifer

In the Los Alamos area, the regional aquifer is the only aquifer capable of large-scale municipal water supply (Purtymun 1984, 6513). The surface of the regional aquifer rises westward from the Rio Grande within the Santa Fe Group into the lower part of the Puye Formation beneath the central and western part of the Pajarito Plateau. The depths to groundwater below the mesa tops range between about 1200 ft along the western margin of the plateau and about 600 ft at the eastern margin. Figure B-4.3-2 shows the location of wells and generalized water-level contours on top of the regional aquifer. The regional aquifer is typically separated from the alluvial groundwater and intermediate perched zone groundwater by 350 ft to 620 ft of tuff, basalt, and sediments (Environmental Protection Group 1993, 23249).

The regional aquifer beneath TA-21 is at an elevation of approximately 5900 ft above sea level, or approximately 1100 ft below the ground surface, and is located chiefly within sediments of the Puye and Tesuque Formations (Broxton and Eller 1995, 58207). Therefore, for mesa-top sites at TA-21, more than 1100 ft of tuff and volcaniclastic sediments separate the surface from the regional aquifer.

B-4.4 Vadose Zone

The region beneath the mesa surface and above the regional aquifer is referred to as the vadose zone. The source of moisture for the vadose zone is precipitation, but much of it runs off, evaporates, or is absorbed by plants. The subsurface vertical movement of the remaining water (often referred to as recharge) is influenced by properties and conditions of the vadose zone.

Two properties of rock that influence fluid flow are the degree of welding and devitrification; both are effects of prolonged presence of residual gases and high temperatures when the rock was deposited. Because different units of the Bandelier Tuff were deposited at different temperatures and because individual units were laid out in variable thicknesses over different landscapes, cooling was not uniform. Consequently, welding varies spatially, both between and within separate depositional layers. Welded tuffs tend to be more fractured than nonwelded tuffs. While water moves slowly through the unsaturated tuff matrix, it can move relatively rapidly through fractures if nearly saturated conditions exist (LANL 1997, 63131). Modeling studies indicate that when fractures disappear at contacts between stratigraphic subunits, when fracture fills are encountered, or when coatings are disturbed or broken, moisture is absorbed into the matrix. Thus, fractures may provide conduits for fluid flow but only in discrete, disconnected intervals of the subsurface. Because they are open to the passage of both air and water, fractures can have both wetting and drying effects, depending on the relative abundance of water in the fractures and matrix. Devitrification is vapor-phase crystallization. The variability of welding and crystallization in the Tshirege Member produces recognizable vertical variations in its properties such as density, porosity, hardness, composition, color, and surface weathering patterns.

As a rule, the Bandelier Tuff is very dry and does not readily transmit moisture. Most of the pore spaces in the tuff are of capillary size and have a strong tendency to hold water against gravity by surface-tension forces. Moisture content is generally more variable near the top of the mesa than in the central portions because of variations in temperature, humidity, and evapotranspiration. Vegetation is very effective at removing moisture near the surface. During the summer rainy season when rainfall is highest, near-surface moisture content is variable because of higher rates of evaporation and of transpiration by vegetation, which flourishes during this time.

The various units of the Bandelier Tuff tend to have relatively high porosities. Porosity ranges between 30% and 60% by volume, generally decreasing for more highly welded tuff. Permeability varies for each cooling unit of the Bandelier Tuff. Values for the Tshirege Member of the Bandelier Tuff at TA-54, determined using in situ vacuum and water injection tests and laboratory analyses of cores, range

between 0.1 and 0.6 darcies. No specific TA-21 data are available. Moisture content of native tuff is low, generally less than 5% by volume throughout the profile. Previous studies at TA-21 where liquid has been added have shown that moisture content changes little below 40 ft. The specific retention of the tuff ranges between 18% and 38% by volume, indicating a considerable field capacity for holding moisture (Purtymun and Stoker 1990, 7508; Kearl et al. 1986, 15368).

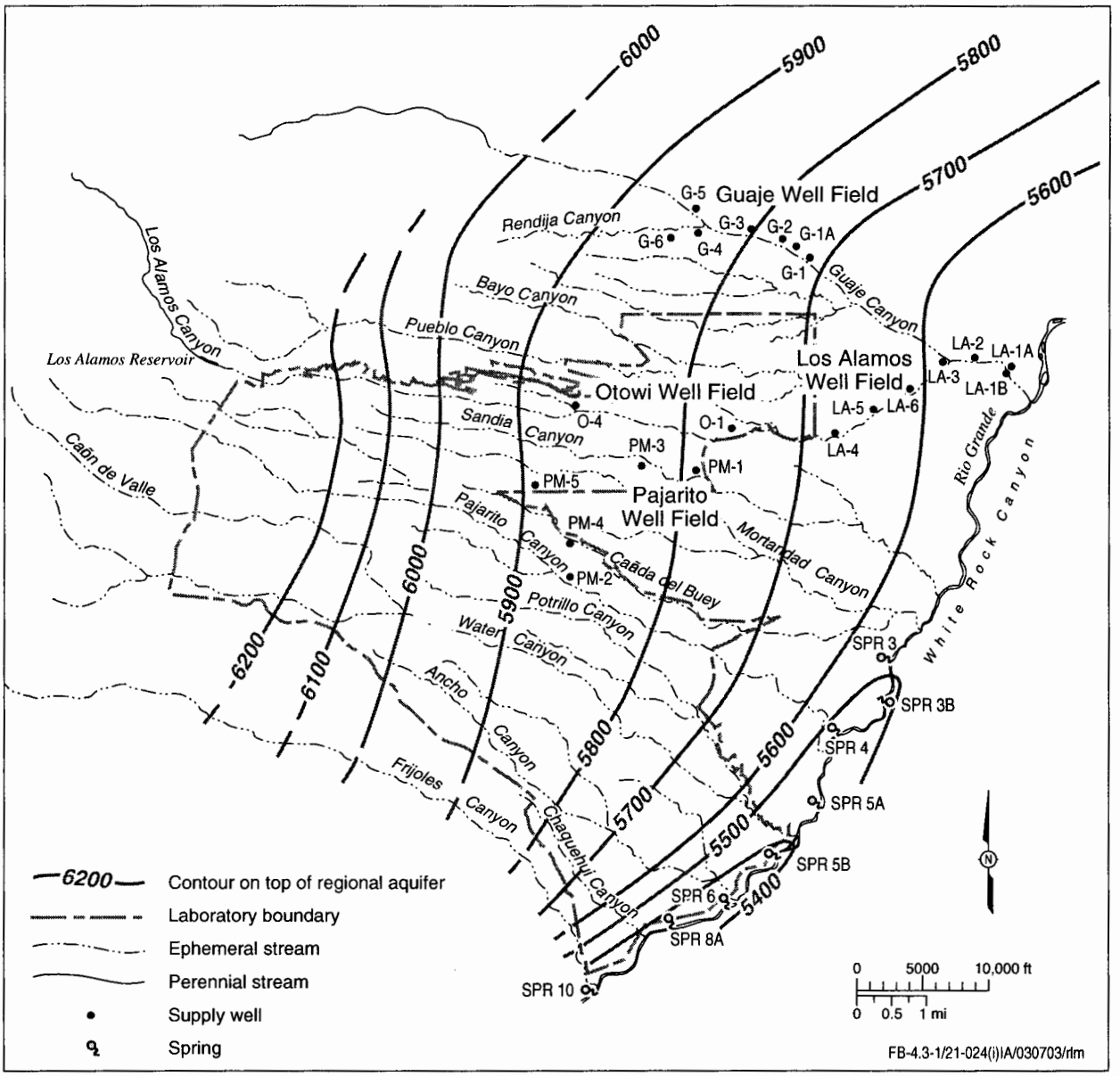


Figure B-4.3-2. Locations of wells and generalized water-level contours on top of the regional aquifer (modified from Purtymun 1984, 6513)

Hydraulic conductivity is dependent on the porous medium and the fluid. Saturated tuff has a hydraulic conductivity in the range of 0.02 cm/hr for welded tuff to 1.12 cm/hr for nonwelded tuff. The hydraulic conductivity of unsaturated tuff varies with moisture content and has values two to five orders of magnitude lower than saturated tuff (Purtymun and Stoker 1990, 7508).

The moisture characteristic curve is important in unsaturated porous media in relating water content to suction, tension, or negative pressure head. However, tests have only been done on crushed Bandelier Tuff, and the applicability of these results to intact tuff remains in question.

B-5.0 ECOLOGICAL RESOURCES

Biological resource field surveys were conducted within OU 1106 (TA-21) and OU 1078 (TA-1) for compliance with the Federal Endangered Species Act of 1973; New Mexico Wildlife Conservation Act; Executive Order 11990, "Protection of Wetlands"; Executive Order 11988, "Floodplain Management"; CFR Title 10 Part 1022, "Compliance with Floodplain/Wetlands Environmental Review Requirements"; and DOE Order 5400.1, "General Environmental Protection Program" (Bennett 1996, 58236).

The Pajarito Plateau is a biologically diverse area. This diversity is due partly to the dramatic 5000-ft elevation gradient from the Rio Grande to the Jemez Mountains (a distance of 12 mi) and partly to the many steep canyons that dissect the area. The pronounced east-west canyon and mesa orientations, with concomitant differences in soils, moisture, and solar radiation, produce an interlocking finger effect among ecological life zones, resulting in many transitional overlaps of plant and animal communities within small areas.

B-5.1 Flora

The elevation of TA-21 ranges between 6680 and 7220 ft above mean sea level. The topography is varied, ranging from steep canyon walls or cliffs to gently sloping mesa tops. Mesa tops are characterized by development and disturbance. Canyon areas are relatively free from development and disturbance.

TA-21 is primarily a mesa-top site in a developed, industrialized area. The preurban natural overstory of the mesa was a ponderosa pine community; no overstory now exists at the site. The understory currently present includes grasses and forbs commonly found in disturbed soils: western wheat grass, Canada bluegrass, bottlebrush squirrel tail, cheat grass, sand dropseed, summer cypress, prickly lettuce, and horseweed. It is similar to the understory that existed before the site became industrialized.

SWMU 21-024(f) and AOCs C-21-015 and 21-030 are situated on the mesa top south of DP Canyon. The overstory of DP Canyon is a ponderosa pine forest with a dominant shrub species of Gambel's oak and codominance of mountain mahogany. The understory of DP Canyon is characterized by numerous grasses (brome grass, mountain muhly, and bluegrass), upland sedges, and a variety of forbs.

B-5.2 Fauna

The mesa top provides limited habitat for biota and does not contain sensitive habitats. Threatened or endangered species are not present on the mesa top or in Los Alamos and DP Canyons, according to Bennett (1996, 58236). However, more recent evaluations indicate Mexican Spotted Owl core habitat may occur in portions of Los Alamos and DP Canyons.

B-5.3 Floodplains and Wetlands

Los Alamos Canyon has stretches of riverine and palustrine wetlands. There is a palustrine wetland just south of the west end of DP Mesa in Los Alamos Canyon and there is a riverine wetland just south of the gated entrance to TA-21 in Los Alamos Canyon. Floodplains also exist within Los Alamos Canyon.

B-6.0 CULTURAL RESOURCES

Pursuant to the National Historic Preservation Act of 1966 (amended), a cultural resource survey was conducted at TA-21 9 (formerly Operable Unit 1106) during the summer of 1991 (McGehee et al. 1992, 28310). There are no archeological sites in the TA-21 area that are eligible for inclusion in the National Register of Historic Places.

B-7.0 REFERENCES

The following list includes all references cited in this appendix. Parenthetical information following each reference provides the author, publication date, and the ER record identification (ER ID) number. This information also is included in the citations in the text. ER ID numbers are assigned by the Laboratory's RRES-RS Project to track records associated with the Project. These numbers can be used to locate copies of the actual documents at the RRES-RS Project Records Processing Facility and, where applicable, with the ER Project reference library titled "Reference Set for Material Disposal Areas, Technical Area 21."

Copies of the reference library are maintained at the NMED Hazardous Waste Bureau; the DOE Los Alamos Area Office; United States EPA, Region VI; and the RRES-RS Project Office. This library is a living collection of documents that was developed to ensure that the administrative authority has all the necessary material to review the decisions and actions proposed in this document. However, documents previously submitted to the administrative authority are not included.

Abeele, W., M. Wheeler, and B. Burton, October 1981. "Geohydrology of Bandelier Tuff," Los Alamos National Laboratory report LA-8962-MS, Los Alamos, New Mexico. (Abeele et al. 1981, 6273)

Bailey, R., R. Smith, and C. Ross, 1969. "Stratigraphic Nomenclature of Volcanic Rocks in the Jemez Mountains, New Mexico," in *Contributions to Stratigraphy*, US Geological Survey Bulletin 1274-P, p. 1, Washington, DC. (Bailey et al. 1969, 21498)

Baltz, E., J. Abrahams, Jr., and W. Purtymun, March 1963. "Preliminary Report on the Geology and Hydrology of Mortandad Canyon near Los Alamos, N. M., with Reference to Disposal of Liquid Low-Level Radioactive Waste," US Geological Survey open file report, Albuquerque, New Mexico. (Baltz et al. 1963, 8402)

Bennett, K., July 1996. "Biological and Floodplain/Wetlands Assessment for Environmental Restoration Program Operable Units 1106 & 1078, TA-1 and TA-21, Los Alamos and DP Canyons," Los Alamos National Laboratory report LA-UR-93-107, Los Alamos, New Mexico. (Bennett 1996, 58236)

Bowen, B., May 1990. "Los Alamos Climatology," Los Alamos National Laboratory report LA-11735-MS, Los Alamos, New Mexico. (Bowen 1990, 6899)

Broxton, D., and P. Eller (Eds), June 1995. "Earth Science Investigations for Environmental Restoration—Los Alamos National Laboratory Technical Area 21," Los Alamos National Laboratory report LA-12934-MS, Los Alamos, New Mexico. (Broxton and Eller 1995, 58207)

Broxton, D., and S. Reneau, August 1995. "Stratigraphic Nomenclature of the Bandelier Tuff for the Environmental Restoration Project at Los Alamos National Laboratory," Los Alamos National Laboratory report LA-13010-MS, Los Alamos, New Mexico. (Broxton and Reneau 1995, 49726)

Broxton, D., and S. Reneau, 1996. "Buried Early Pleistocene Landscapes Beneath the Pajarito Plateau, Northern New Mexico," in *New Mexico Geological Society Guidebook,* 47th Field Conference, Jemez Mountains Region, New Mexico, pp. 325–334. (Broxton and Reneau 1996, 55429)

Broxton, D., G. Heiken, S. Chipera, and F. Byers, Jr., 1995. "Stratigraphy, Petrography, and Mineralogy of Bandelier Tuff and Cerro Toledo Deposits," in "Earth Science Investigation for Environmental Restoration—Los Alamos National Laboratory Technical Area 21," Los Alamos National Laboratory report LA-12934-MS, Los Alamos, New Mexico. (Broxton et al. 1995, 50121)

Broxton, D., P. Longmire, P. Eller, and D. Flores, June 1995. "Preliminary Drilling Results for Boreholes LADP-3 and LADP-4," in "Earth Science Investigations for Environmental Restoration—Los Alamos National Laboratory Technical Area 21," D. Broxton and P. Eller (Eds), Los Alamos National Laboratory report LA-12934-MS, Los Alamos, New Mexico (Broxton et al. 1995, 50119)

Cavazza, W., 1989. "Sedimentation Pattern of a Rift-Filling Unit, Tesuque Formation (Miocene), Española Basin, Rio Grande Rift, New Mexico," in *Journal of Sedimentary Petrology*, Vol. 59, No. 2, pp. 287–296. (Cavazza 1989, 21501)

Crowe, B., G. Linn, G. Heiken, and M. Bevier, April 1978. "Stratigraphy of the Bandelier Tuff in the Pajarito Plateau, Applications to Waste Management," Los Alamos Scientific Laboratory report LA-7225-MS, Los Alamos, New Mexico. (Crowe et al. 1978, 5720)

Environmental Protection Group, August 1993. "Environmental Surveillance at Los Alamos During 1991," Los Alamos National Laboratory report LA-12572-ENV, Los Alamos, New Mexico. (Environmental Protection Group 1993, 23249)

Environmental Protection Group, July 1994. "Environmental Surveillance at Los Alamos during 1992," Los Alamos National Laboratory report LA-12764-ENV, Los Alamos, New Mexico. (Environmental Protection Group 1994, 45363)

Galusha, T., and J. Blick, April 1971. "Stratigraphy of the Santa Fe Group, New Mexico," in *Bulletin of the American Museum of Natural History*, Vol. 144, Article 1, Lund Humphries, Great Britain, pp. 1–128. (Galusha and Blick 1971, 21526)

Gardner, J., and L. House, October 1987. "Seismic Hazards Investigations at Los Alamos National Laboratory, 1984 to 1985," Los Alamos National Laboratory report LA-11072-MS, Los Alamos, New Mexico. (Gardner and House 1987, 6682)

Gardner, J., W. Baldridge, R. Gribble, K. Manley, K. Tanaka, J. Geissman, M. Gonzalez, and G. Baron, December 1990. "Results from Seismic Hazards Trench #1 (SHT-1) Los Alamos Seismic Hazards Investigations," Informal Report EES1-SH90-19, Los Alamos, New Mexico. (Gardner et al. 1990, 48813)

Goff, F., June 1995. "Geologic Map of Technical Area 21," in *Earth Science Investigations for Environmental Restoration—Los Alamos National Laboratory Technical Area 21*, Los Alamos National Laboratory report LA-12934-MS, Los Alamos, New Mexico, pp. 7–18. (Goff 1995, 49682)

Griggs, R., 1964. "Geology and Ground-Water Resources of The Los Alamos Area New Mexico," with a section on Quality of Water by John D. Hem, US Geological Survey Water-Supply Paper 1753, Washington, DC. (Griggs 1964, 8795)

Heiken, G., F. Goff, J. Stix, S. Tamanyu, M. Shafiqullah, S. Garcia, and R. Hagan, February 10, 1986. "Intracaldera Volcanic Activity, Toledo Caldera and Embayment, Jemez Mountains, New Mexico," in *Journal of Geophysical Research*, Vol. 91, No. B2, pp. 1799–1815. (Heiken et al. 1986, 48638)

Izett, G., and J. Obradovich, February 10, 1994. "$^{40}Ar/^{39}Ar$ Age Constraints for the Jaramillo Normal Subchron and the Matuyama-Brunhes Geomagnetic Boundary," in *Journal of Geophysical Research*, Vol. 99, No. B2, pp. 2925–2934. (Izett and Obradovich 1994, 48817)

Kearl, P., J. Dexter, and M. Kautsky, March 1986. "Vadose Zone Characterization of Technical Area 54, Waste Disposal Areas G and L, Los Alamos National Laboratory, New Mexico, Report 3: Preliminary Assessment of the Hydrogeologic System," Report GJ-44, Bendix Field Engineering Corporation, Grand Junction, Colorado. (Kearl et al. 1986, 15368)

LANL (Los Alamos National Laboratory), May 1991. "TA-21 Operable Unit RFI Work Plan for Environmental Restoration," Vol. I, Los Alamos National Laboratory report LA-UR-91-962, Los Alamos, New Mexico. (LANL 1991, 7528)

LANL (Los Alamos National Laboratory) 1995. "Site Development Plan, Annual Update 1995," Los Alamos National Laboratory publication LALP-95-113, Los Alamos, New Mexico. (LANL 1995, 57224)

LANL (Los Alamos National Laboratory), October 25, 1995. "Groundwater Protection Management Program Plan" (draft), Revision 2.0, Los Alamos, New Mexico. (LANL 1995, 50124)

LANL (Los Alamos National Laboratory), November 1995. "Task/Site Work Plan for Operable Unit 1049, Los Alamos Canyon and Pueblo Canyon," Los Alamos National Laboratory report LA-UR-95-2053, Los Alamos, New Mexico. (LANL 1995, 50290)

LANL (Los Alamos National Laboratory), March 1997. "Performance Assessment and Composite Analysis for Los Alamos National Laboratory Material Disposal Area G," Los Alamos National Laboratory report LA-UR-97-85, Los Alamos, New Mexico. (LANL 1997, 63131)

LANL (Los Alamos National Laboratory), May 22,1998. "Hydrogeologic Workplan Los Alamos National Laboratory," Los Alamos National Laboratory report, Los Alamos, New Mexico. (LANL 1998, 59599)

LANL (Los Alamos National Laboratory), November 1998. "Installation Work Plan for Environmental Restoration Project," Revision 7, Los Alamos National Laboratory report LA-UR-98-4652, Los Alamos, New Mexico. (LANL 1998, 62060)

Longmire, P. A., S. Kung, J. M. Boak, A. I. Adams, F. Caporuscio, and R. N. Gray, 1996. "Aqueous Geochemistry of Upper Los Alamos Canyon, Los Alamos, New Mexico," in New Mexico Geological Society Guidebook, 47th Field Conference, Jemez Mountains Region, New Mexico, pp. 473–480. (Longmire et al. 1996, 54168)

MacFadden, B., 1977. "Magnetic Polarity Stratigraphy of the Chamita Formation Stratotype (Mio-Pliocene) of North-Central New Mexico," in *American Journal of Science*, Vol. 277, pp. 769–800. (MacFadden 1977, 21569)

Manley, K., 1979. "Stratigraphy and Structure of the Española Basin, Rio Grande Rift, New Mexico," in *Rio Grande Rift: Tectonics and Magmatism*, R. Riecker, Ed., American Geophysical Union, Washington, DC. (Manley 1979, 11714)

McGehee, E., S. Hoagland, K. Manz, B. Larson, T. Binzen, and M. Hannaford, May 12, 1992. "Environmental Restoration Program, Operable Unit (OU) 1071 Cultural Resource Survey Report, Survey No. 529," Los Alamos National Laboratory report, Los Alamos, New Mexico. (McGehee et al. 1992, 28310)

Nyhan, J., L. Hacker, T. Calhoun, and D. Young, June 1978. "Soil Survey of Los Alamos County, New Mexico," Los Alamos Scientific Laboratory report LA-6779-MS, Los Alamos, New Mexico. (Nyhan et al. 1978, 5702)

Purtymun, W., 1975. "Geohydrology of the Pajarito Plateau with Reference to Quality of Water, 1949-1972," Los Alamos Scientific Laboratory informal report LA-5744, Los Alamos, New Mexico. (Purtymun 1975, 11787)

Purtymun, W., J. Buchholz, and T. Hakonson 1977. "Chemical Quality of Effluents and Their Influence on Water Quality in a Shallow Aquifer," *Journal of Environmental Quality*, Vol. 6, No. 1, pp. 29–32. (Purtymun et al. 1977, 11846)

Purtymun, W., January 1984. "Hydrologic Characteristics of the Main Aquifer in the Los Alamos Area: Development of Ground Water Supplies," Los Alamos National Laboratory report LA-9957-MS, Los Alamos, New Mexico. (Purtymun 1984, 6513)

Purtymun, W., January 1995. "Geologic and Hydrologic Records of Observation Wells, Test Holes, Test Wells, Supply Wells, Springs, and Surface Water Stations in the Los Alamos Area," Los Alamos National Laboratory report LA-12883-MS, Los Alamos, New Mexico. (Purtymun 1995, 45344)

Purtymun, W., and A. Stoker, September 1990. "Perched Zone Monitoring Well Installation," Los Alamos National Laboratory report LA-UR-90-3230, Los Alamos, New Mexico. (Purtymun and Stoker 1990, 7508)

Self, S., F. Goff, J. Gardner, J. Wright, and W. Kite, 1986. "Explosive Rhyolitic Volcanism in the Jemez Mountains: Vent Locations, Caldera Development, and Relation to Regional Structure," in *Journal of Geophysical Research*, Vol. 91, pp. 1779–1798. (Self et al. 1986, 21579)

Smith, R., 1960. "Zones and Zonal Variations in Welded Ash Flows," US Geological Survey Professional Paper 354-F, pp. 149–159, Washington, DC. (Smith 1960, 48819)

Smith, R., June 1960. "Ash Flows," in *Bulletin of the Geological Society of America*, Vol. 71, pp. 795–842. (Smith 1960, 48820)

Smith, R., and R. Bailey, 1966. "The Bandelier Tuff: A Study of Ash-Flow Eruption Cycles from Zoned Magma Chambers," in *Bulletin Volcanologique*, Vol. 29, pp. 83–104. (Smith and Bailey 1966, 21584)

Smith, R., R. Bailey, and C. Ross, 1970. "Geologic Map of Jemez Mountains, New Mexico," US Geological Survey Miscellaneous Investigations Series Map I-571, Washington, DC. (Smith et al. 1970, 9752)

Spell, T., T. Harrison, and J. Wolf, January 18, 1990. "$^{40}Ar/^{39}Ar$ Dating of the Bandelier Tuff and San Diego Canyon Ignimbrites, Jemez Mountains, New Mexico: Temporal Constraints on Magmatic Evolution," in *Journal of Volcanology and Geothermal Research*, Vol. 43., pp. 175–193. (Spell et al. 1990, 21586)

Spell, T., I. McDougall, and A. Doulgeris, December 1996. "Cerro Toledo Rhyolite, Jemez Volcanic Field, New Mexico: $^{40}Ar/^{39}Ar$ geochronology of eruptions between two caldera-forming events," in *Geological Society of America Bulletin,* Vol. 108, No. 12, pp. 1549–1566. (Spell et al. 1996, 55542)

Stix, J., F. Goff, M. P. Gorton, G. Heiken, and S. Garcia, June 10, 1988. "Restoration of Compositional Zonation in the Bandelier Silicic Magma Chamber Between Two Caldera-Forming Eruptions: Geochemistry and Origin of the Cerro Toledo Rhyolite, Jemez Mountains, New Mexico," in *Journal of Geophysical Research*, Vol. 93, No. B6, pp. 6129–6147. (Stix et al. 1988, 49680)

Stoker, A., March 31, 1993. "Direct Testimony of Alan K. Stoker on Behalf of Petitioners," before the New Mexico Water Quality Control Commission, Los Alamos, New Mexico. (Stoker 1993, 56021)

Stoker, A. K., S. G. McLin, W. D. Purtymun, M. N. Maes, and B.G. Hammock 1992. "Water Supply at Los Alamos During 1989," Los Alamos National Laboratory report LA-12276-PR, Los Alamos, New Mexico. (Stoker et al. 1992, 12017)

Turbeville, B., D. Waresback, and S. Self, February 1989. "Lava-Dome Growth and Explosive Volcanism in the Jemez Mountains, New Mexico: Evidence from the Plio-Pleistocene Puye Alluvial Fan," in *Journal of Volcanology and Geothermal Research*, Vol. 36, pp. 267–291. (Turbeville et al. 1989, 21587)

Vaniman, D., July 29, 1991. "Revisions to Report EES1-SH90-17," Los Alamos National Laboratory memorandum EES1-SH91-12 to J. Gardner (EES-1) from D. Vaniman (EES-1), Los Alamos, New Mexico. (Vaniman 1991, 9995)

Vaniman, D., and K. Wohletz, November 14, 1990. "Results of Geological Mapping/Fracture Studies: TA-55 Area," Los Alamos National Laboratory Memorandum EES1-SH90-17 to J. Gardner (EES-1) from D. Vaniman and K. Wohletz, Los Alamos, New Mexico. (Vaniman and Wohletz 1990, 21589)

Weir, J., Jr. and W. Purtymun 1962. "Geology and Hydrology of Technical Area 49, Frijoles Mesa, Los Alamos County, New Mexico," US Geological Survey Administrative Release, Albuquerque, New Mexico. (Weir and Purtymun 1962, 11890)

Wohletz, K., June 1995. "Measurement and Analysis of Rock Fractures in the Tshirege Member of the Bandelier Tuff along Los Alamos Canyon Adjacent to TA-21," in "Earth Science Investigations for Environmental Restoration—Los Alamos National Laboratory Technical Area 21," D. E. Broxton and P. G. Eller (Eds),Los Alamos National Laboratory report LA-12934-MS, Los Alamos, New Mexico. (Wohletz 1995, 54404)

Wong, I., K. Kelson, S. Olig, T. Kolbe, M. Hemphill-Haley, J. Bott, R. Green, H. Kanakari, J. Sawyer, W. Silva, C. Stark, C. Haraden, C. Fenton, J. Unruh, J. Gardner, S. Reneau, and L. House, February 24, 1995. "Seismic Hazards Evaluation of the Los Alamos National Laboratory," Volume I, Woodward-Clyde Federal Services report, Oakland, California. (Wong et al. 1995, 70097)

Los Alamos National Laboratory

Environment, Safety & Health Division
ESH-18 Water Quality & Hydrology Group

Surface Water Assessment
Erosion Matrix forSWMU 21-024(f)

CRITERIA EVALUATED	Value	Erosion/Sediment Transport Potential Low 0.1	Medium 0.5	High 1.0	Calculated Score
Site Setting (43)					
On mesa top	1	Defined based on topographic setting			
Within bench of canyon	4				4.0
Within the canyon floodplain but not watercourse	13				
Within bottom of canyon channel in watercourse	17				
Estimated % ground and canopy cover	13	>75%	25-75%	<25%	6.5
Slope	13	0-10%	10-30%	>30%	6.5
Surface Water Factors-Run-off (46)					
Visible evidence of runoff discharging? (Yes/No)	5	If no, score of 0 for runoff section.			5.0
		If yes, score 5 and proceed with section.			
Where does runoff terminate?	19	Other	Bench Setting	Drainage/Wetland	1.9
Has runoff caused visible erosion? (Yes/No)	22	Sheet	Rill	Gully	0.0
		If no, score as 0. If yes, calculate as appropriate.			
Surface Water Factors-Run-on (11)					
Structures adversely affecting run-on (Yes/No)	7*	If yes, score as 7. If no, score as 0.			0.0
Current operations adversely impacting (Yes/No)	4	If yes, score as 4. If no, score as 0.			0.0
Natural drainages onto site (Yes/No)	7*	If yes, score as 7. If no, score as 0.			7.0
**Select either structures or natural drainages.*					
MAX. POSSIBLE EROSION MATRIX SCORE:	**100**			**Total Score**	30.9

REVISED PART B

Report Printed 7/9/2003 11:10:48 AM.

Los Alamos National Laboratory
SURFACE WATER
SITE ASSESSMENT

Part B: page 2 of 4

Revised Part B. Please discard previous.

SITE INFORMATION

1a) PRS Number: 21-024(f) 1b) Structure Number: 1c) FMU Number: 80

2. Date/Time (M/D/Y H:M am/pm): 5/18/1999

SITE SETTING (check all that apply)

3. ◉ On mesa top (a). ○ In the canyon floor, but not in an established channel (c)
◉ Within a bench of a canyon (b). ○ Within established channel in the canyon floor (d).

Explanation: Outfall pipe terminates at edge of bench into seepage pit on south side of DP Canyon, northwest of blue water storage tank - 150 yards.

4. Estimated ground and/or canopy cover at site: (deciduous leaves, pine needles, rocks, vegetation, trees.

(Illustration) (a) (b) (c)

Estimated % of ground/canopy cov ○ 0% to 25% ◉ 25% to 75% ○ 75% to 100%

Explanation: Moderate cover of pine needles and rocks; no grass; some pine trees surrounding the area.

5. Steepest slope at the area impacted:

(a) (b) (c)

○ Less than 10% ◉ 10% to 30% ○ 30% and greater

Explanation: Gradual slope to canyon edge or rim.

RUNOFF FACTORS

Y / N

☑ ☐ 6. Is there visible evidence of runoff discharging from site? If yes, answer a) - c) below:

☐ ☑ 6a) Is runoff channelized? If yes, describ ○ Man-made channel. ○ Natural channel.

Explanation: Mostly sheetflow with a drainage swale in the vicinity.

15: Report Printed 7/9/2003 11:10:48 AM

RUNOFF FACTORS, CONT'D

6b) Where does evidence of runoff terminate?

- ○ Drainage or wetland (name) DP Canyon
- ○ Within bench of canyon setting (name)
- ◉ Other (i.e., retention pond, meadow, mesa top) mesa top and seepage pit at end of pipe

Explanation: Sheet flow from area appears to rarely reach the mesa edge if ever.

Y / N

☐ ☑ 6c) Has runoff caused visible erosion at the site? If yes, explain below: ○ Sheet ○ Rill ○ Gully

Explanation: None observed.

RUN-ON FACTORS

Please rate the potential for storm water to run on to this site: **(Check EITHER #7 or #9)**

☐ ☑ 7. Are structures (i.e., buildings, roof drains, parking lots, storm drains) creating run-on to the site?

Explanation: None

☐ ☑ 8. Are current operations (i.e., fire hydrants, NPDES outfalls) adversely impacting run-on to the site?

Explanation: None

☑ ☐ 9. Are natural drainage patterns directing stormwater onto site?

Explanation: Minimal upslope sheetflow.

ASSESSMENT FINDING:

☐ ☑ 10. Based on the above criteria and the assessment of this site, does soil erosion potential exist? (REFER TO EROSION POTENTIAL MATRIX.)

Veenis, Steve

11. Signature of Water Quality/Hydrology Representative

SV Initials of independent reviewer.

Check here when information is entered in database: ☑

15: Report Printed 7/9/2003 11:10:48 AM

This page is for ESH-18 notes, recommendations, and photos.

	Y	N	
12. a)	○	◉	Is there visible trash/debris on the site?
b)	○	◉	Is there visible trash/debris in a watercourse?

Description of existing BMPs:

○	○	Are BMPs being properly maintained? If no, describe in "Other Internal Notes."
○	○	Are BMPs effectively keeping sediment in place and reducing erosion potential?

OTHER INTERNAL NOTES:

Site was re-evaluated to reflect the outfall, septic and drainline. The original assessment was completed on 09/30/1997 and had an erosion matrix score of (17.0).

15: Report Printed 7/9/2003 11:10:48 AM

Los Alamos National Laboratory

Environment, Safety & Health Division
ESH-18 Water Quality & Hydrology Group

Surface Water Assessment
Erosion Matrix for AOC C-21-015

CRITERIA EVALUATED	Value	Erosion/Sediment Transport Potential Low 0.1	Medium 0.5	High 1.0	Calculated Score
Site Setting (43)					
On mesa top	1	Defined based on topographic setting			1.0
Within bench of canyon	4				
Within the canyon floodplain but not watercourse	13				
Within bottom of canyon channel in watercourse	17				
Estimated % ground and canopy cover	13	>75%	25-75%	<25%	6.5
Slope	13	0-10%	10-30%	>30%	1.3
Surface Water Factors-Run-off (46)					
Visible evidence of runoff discharging? (Yes/No)	5	If no, score of 0 for runoff section.			5.0
		If yes, score 5 and proceed with section.			
Where does runoff terminate?	19	Other	Bench Setting	Drainage/Wetland	1.9
Has runoff caused visible erosion? (Yes/No)	22	Sheet	Rill	Gully	0.0
		If no, score as 0. If yes, calculate as appropriate.			
Surface Water Factors-Run-on (11)					
Structures adversely affecting run-on (Yes/No)	7*	If yes, score as 7. If no, score as 0.			0.0
Current operations adversely impacting (Yes/No)	4	If yes, score as 4. If no, score as 0.			0.0
Natural drainages onto site (Yes/No)	7*	If yes, score as 7. If no, score as 0.			7.0
**Select either structures or natural drainages.*					
MAX. POSSIBLE EROSION MATRIX SCORE:	100			**Total Score**	22.7

Report Printed 7/9/2003 11:11:07 AM.

Los Alamos National Laboratory
SURFACE WATER
SITE ASSESSMENT

SITE INFORMATION

1a) PRS Number: C-21-015 1b) Structure Number: 1c) FMU Number: 80

2. Date/Time (M/D/Y H:M am/pm): 5/18/1999

SITE SETTING (check all that apply)

3. ◉ On mesa top (a). ○ In the canyon floor, but not in an established channel (c)
○ Within a bench of a canyon (b). ○ Within established channel in the canyon floor (d).

Explanation: Generally north trending towards DP Canyon. Former sump location.

4. Estimated ground and/or canopy cover at site: (deciduous leaves, pine needles, rocks, vegetation, trees,

(illustration) (a) (b) (c)

Estimated % of ground/canopy cov ○ 0% to 25% ◉ 25% to 75% ○ 75% to 100%

Explanation: Mixed vegetation with some local bare spots.

5. Steepest slope at the area impacted:

(a) (b) (c)

◉ Less than 10% ○ 10% to 30% ○ 30% and greater

Explanation: Mostly flat near sump location.

RUNOFF FACTORS

Y / N

☑ ☐ **6. Is there visible evidence of runoff discharging from site? If yes, answer a) - c) below:**

☐ ☑ 6a) Is runoff channelized? If yes, describ ○ Man-made channel. ○ Natural channel.

Explanation: Minimal evidence of sheetflow run off from site.

15: Report Printed 7/9/2003 11:11:07 AM

RUNOFF FACTORS, CONT'D

6b) Where does evidence of runoff terminate?

- ○ Drainage or wetland (name) DP Canyon
- ○ Within bench of canyon setting (name)
- ◉ Other (i.e., retention pond, meadow, mesa top) Mesa top

Explanation: Infiltration mostly to mesa top.

Y / N

☐ ☑ 6c) Has runoff caused visible erosion at the site? If yes, explain below: ○ Sheet ○ Rill ○ Gully

Explanation: None observed

RUN-ON FACTORS

Please rate the potential for storm water to run on to this site: **(Check EITHER #7 or #9)**

☐ ☑ 7. Are structures (i.e., buildings, roof drains, parking lots, storm drains) creating run-on to the site?

Explanation:

☐ ☑ 8. Are current operations (i.e., fire hydrants, NPDES outfalls) adversely impacting run-on to the site?

Explanation:

☑ ☐ 9. Are natural drainage patterns directing stormwater onto site?

Explanation: Natural upslope sheetflow run-on.

ASSESSMENT FINDING:

☐ ☑ 10. Based on the above criteria and the assessment of this site, does soil erosion potential exist? **(REFER TO EROSION POTENTIAL MATRIX.)**

Veenis, Steve

11. Signature of Water Quality/Hydrology Representative

SV Initials of independent reviewer.

Check here when information is entered in database: ☑

15: Report Printed 7/9/2003 11:11:07 AM

This page is for ESH-18 notes, recommendations, and photos.

	Y	N	
12. a)	○	⦿	Is there visible trash/debris on the site?
b)	○	⦿	Is there visible trash/debris in a watercourse?

Description of existing BMPs:

○	○	Are BMPs being properly maintained? If no, describe in "Other Internal Notes."
○	○	Are BMPs effectively keeping sediment in place and reducing erosion potential?

OTHER INTERNAL NOTES:

15: Report Printed 7/9/2003 11:11:07 AM

Appendix C

Results of Quality Assurance/Quality Control Activities

APPENDIX C RESULTS OF QUALITY ASSURANCE/QUALITY CONTROL ACTIVITIES

C-1.0 SUMMARY OF QUALITY ASSURANCE/QUALITY CONTROL ACTIVITIES

This appendix consists of an assessment of the quality of analytical results obtained during 1992, 1993 and 2003 voluntary corrective action (VCA) at AOCs C-21-015, 21-030 and SWMU 21-024(f). AOC C-21-015 was the location of the former building TA-21-45. AOC 21-030 is the designation for the inactive concrete sump and associated piping that were left in place when the building was demolished in 1954. SWMU 21-024(f) was an inactive septic system that served Building TA-21-45 and that consisted of an inlet pipe, septic tank, outlet pipe, outfall pit, and drainage area. Table C-1.0-1 presents the analytical suites analyzed for all the samples during this investigation. One hundred twenty-three samples were collected for this investigation.

Table C-1.0-1
Analytical Methods for Samples Collected at AOCs C-21-015, 21-030 and SWMU 21-024(f)

Chemical Category	Analyte List	Analytical Method
Inorganic chemicals	Target Analyte Metals	SW-846 Method 6010* SW-846 Method 6020* SW-846: 7000 Series*
	Perchlorate	EPA Method 314.0
	Oxalate	EPA Method 300
	Uranium	LA-10300-M, Vol. 1:R250
Organic chemicals	Volatile organic compounds	SW-846 Method 8260*
	Semivolatile organic compounds	SW-846 Method 8270*
	Polychlorinated Biphenyls	SW-846 Method 8082
Radionuclides	Americium-241	HASL-300
	Gamma Spectroscopy	EPA Method 901.1
	Tritium	EPA Method 906.0 LA-10300-M, Vol. 1: ER230 LA-10300-M, Vol.2: ER210
	Isotopic Plutonium	HASL-300
	Isotopic Uranium	HASL-300
	Isotopic Thorium	HASL-300
	Strontium-90	EPA Method 905.0

*All test methods were analyzed with the most recent promulgated version at the time of analyses.

Quality assurance (QA), quality control (QC), and data validation procedures were implemented in accordance with the Laboratory guidance (LANL 1996, 54609) and the analytical services statement of work (SOW) for contract laboratories (ER ID 49738 & 71233). The results of the QA/QC activities were used to estimate accuracy, bias, and precision of the analytical measurements. QC samples, e.g., method blanks, laboratory control samples (LCSs), matrix spikes and duplicates were used to assess accuracy and bias. Internal standards, surrogates, and tracers were also used to assess accuracy. The type and frequency of QC analyses are described in the analytical services statement of work (SOW) (ER ID 49738 & 71233). Other QC factors, such as sample preservation and holding times, were also assessed. The requirements for sample preservation and holding times are given in the standard operating procedure (SOP) LANL-ER-SOP-1.02, Rev. 1, "Sample Containers and Preservation." The

applicable procedures to perform the validation are the data analysis and assessment SOPs (LANL-ER-SOP 15.01-15.07).

C-1.1 Samples Collected

A summary of the samples collected for analyses is presented in Table C-1.1-1.

Table C-1.1-1
Summary of All Samples Analyzed at AOCs C-21-015, 21-030 and SWMU 21-024(f)

Request Number	Collection Date	Sample ID	Analytical Suite	Analytical Laboratory
Inorganic Chemicals				
13245	July 1992	AAA1095 AAA1096 AAA1097 AAA1100 AAA1101 AAA1102 AAA1103 AAA1104	Target Analyte Metals SW-846: 6010 SW-846: 7060 SW-846: 7421 SW-846: 7740 SW-846: 7841	Rust Geotech
13247	July 1992	AAA1095 AAA1096 AAA1097 AAA1100 AAA1101 AAA1102 AAA1103 AAA1104	URANIUM LA-10300-M, Vol. 1: R250	LANL Chemical Sciences & Technology
15388	August 1993	AAA4179 AAA4180 AAA4181 AAA4182 AAA4183	Target Analyte Metals SW-846: 6010 SW-846: 6020	Rust Geotech
15412	August 1993	AAA4173 AAA4176 AAA4177 AAA4178	Target Analyte Metals SW-846: 6010 SW-846: 6020	Rust Geotech
9755R	September 2001	MD21-01-0215 MD21-01-0217 MD21-01-0218 MD21-01-0219	Target Analyte Metals SW-846: 6010B SW-846: 6020 SW-846: 7471A	General Engineering Laboratories, Inc.
9755R-1	September 2001	MD21-01-0215 MD21-01-0217 MD21-01-0218 MD21-01-0219	Target Analyte Metals SW-846: 6020	General Engineering
9756R	September 2001	MD21-01-0215 MD21-01-0217 MD21-01-0218 MD21-01-0219	Perchlorate EPA Method: 314.0	General Engineering

Table C-1.1-1 (continued)

Request Number	Collection Date	Sample ID	Analytical Suite	Analytical Laboratory
9759R	September 2001	MD21-01-0220 MD21-01-0221 MD21-01-0222 MD21-01-0223 MD21-01-0224 MD21-01-0225 MD21-01-0226 MD21-01-0227 MD21-01-0228	Target Analyte Metals SW-846: 6010B SW-846: 6020 SW-846: 7471A	General Engineering
9759R-1	September 2001	MD21-01-0221 MD21-01-0222 MD21-01-0223 MD21-01-0224 MD21-01-0225 MD21-01-0228	Target Analyte Metals SW-846: 6020	General Engineering
9760R	September 2001	MD21-01-0220 MD21-01-0221 MD21-01-0222 MD21-01-0223 MD21-01-0224 MD21-01-0225 MD21-01-0226 MD21-01-0227 MD21-01-0228	Perchlorate EPA Method: 314.0	General Engineering
9763R	September 2001	MD21-01-0230 MD21-01-0231 MD21-01-0232 MD21-01-0234 MD21-01-0235	Target Analyte Metals SW-846: 6010B SW-846: 6020 SW-846: 7471A	General Engineering
9763R-1	September 2001	MD21-01-0230 MD21-01-0231 MD21-01-0232 MD21-01-0234 MD21-01-0235	Target Analyte Metals SW-846: 6020	General Engineering
9764R	September 2001	MD21-01-0230 MD21-01-0231 MD21-01-0232 MD21-01-0234 MD21-01-0235	Perchlorate EPA Method: 314.0	General Engineering
9767R	September 2001	MD21-01-0229	Target Analyte Metals SW-846: 6010B SW-846: 6020 SW-846: 7471A	General Engineering
9767R-1	September 2001	MD21-01-0229	Target Analyte Metals SW-846: 6020	General Engineering
9768R	September 2001	MD21-01-0229	Perchlorate EPA Method: 314.0	General Engineering

Table C-1.1-1 (continued)

Request Number	Collection Date	Sample ID	Analytical Suite	Analytical Laboratory
9790R	September 2001	MD21-01-0283 MD21-01-0284 MD21-01-0285 MD21-01-0286 MD21-01-0287 MD21-01-0288 MD21-01-0289 MD21-01-0290 MD21-01-0291 MD21-01-0292 MD21-01-0293 MD21-01-0294 MD21-01-0295 MD21-01-0296	Target Analyte Metals SW-846: 6010B SW-846: 6020 SW-846: 7471A	General Engineering
9791R	September 2001	MD21-01-0283 MD21-01-0284 MD21-01-0285 MD21-01-0286 MD21-01-0287 MD21-01-0288 MD21-01-0289 MD21-01-0290 MD21-01-0291 MD21-01-0292 MD21-01-0293 MD21-01-0294 MD21-01-0295 MD21-01-0296	Perchlorate EPA Method: 314.0	General Engineering
293S	November 2001	MD21-01-0428 MD21-01-0430 MD21-01-0431 MD21-01-0433	Target Analyte Metals SW-846: 6010 SW-846: 6020 SW-846: 7471A	General Engineering
323S	November 2001	MD21-01-0242 MD21-01-0243 MD21-01-0244	Target Analyte Metals SW-846: 6010B SW-846: 6020 SW-846: 7471A	Acculabs INC
324S	November 2001	MD21-01-0242 MD21-01-0243 MD21-01-0244	Perchlorate EPA Method: 314.0	General Engineering
398S	December 2001	MD21-01-0236 MD21-01-0237 MD21-01-0238 MD21-01-0239	Perchlorate EPA Method: 314.0	General Engineering
399S	December 2001	MD21-01-0236 MD21-01-0237 MD21-01-0238 MD21-01-0239	Target Analyte Metals SW-846: 6010 SW-846: 6020 SW-846: 7471A	General Engineering

Table C-1.1-1 (continued)

Request Number	Collection Date	Sample ID	Analytical Suite	Analytical Laboratory
402S	December 2001	MD21-01-0532 MD21-01-0533 MD21-01-0534 MD21-01-0535 MD21-01-0536 MD21-01-0537 MD21-01-0538 MD21-01-0539 MD21-01-0540 MD21-01-0541 MD21-01-0542 MD21-01-0543	Target Analyte Metals SW-846: 6010 SW-846: 6020 SW-846: 7471A	General Engineering
403S	December 2001	MD21-01-0532 MD21-01-0533 MD21-01-0534 MD21-01-0535 MD21-01-0536 MD21-01-0537 MD21-01-0538 MD21-01-0539 MD21-01-0540 MD21-01-0541 MD21-01-0542 MD21-01-0543	Oxalate EPA Method: 300 Perchlorate EPA Method: 314.0	General Engineering
454S	January 2002	MD21-02-0001 MD21-02-0002 MD21-02-0003 MD21-02-0004	Target Analyte Metals SW-846: 6010 SW-846: 6010B SW-846: 6020 SW-846: 7471A	Severn Trent Laboratories, Inc.
456S	January 2002	MD21-02-0005 MD21-02-0006 MD21-02-0007 MD21-02-0008 MD21-02-0009 MD21-02-0010 MD21-02-0011 MD21-02-0012 MD21-02-0013 MD21-02-0014 MD21-02-0015	Target Analyte Metals SW-846: 6010B SW-846: 6020 SW-846: 7471A	Severn Trent Laboratories, Inc.
600S	February 2002	MD21-02-0021 MD21-02-0022 MD21-02-0023	Target Analyte Metals SW-846: 6010B SW-846: 6020 SW-846: 7471A	Severn Trent Laboratories, Inc.

Table C-1.1-1 (continued)

Request Number	Collection Date	Sample ID	Analytical Suite	Analytical Laboratory
Organic Chemicals				
13246	July 1992	AAA1095 AAA1096 AAA1097 AAA1100 AAA1101 AAA1102 AAA1103 AAA1104	Volatile organic compounds SW-846: 8260 Semivolatile organic compounds SW-846: 8270	Quanterra Environmental Services
15385	August 1993	AAA4179 AAA4180 AAA4181 AAA4182 AAA4183	Semivolatile organic compounds SW-846: 8270	Environmental Sciences & Engineering, Inc.
15386	August 1993	AAA4179 AAA4180 AAA4181 AAA4182 AAA4183	Volatile organic compounds SW-846: 8260	LANL Chemical Sciences & Technology
15406	August 1993	AAA4173 AAA4176 AAA4177 AAA4178	Semivolatile organic compounds SW-846: 8270	Environmental Sciences & Engineering, Inc.
9744R	September 2001	MD21-01-0215 MD21-01-0217 MD21-01-0218 MD21-01-0219	Volatile organic compounds SW-846: 8260	General Engineering Laboratories, Inc.
9758R	September 2001	MD21-01-0220 MD21-01-0221 MD21-01-0222 MD21-01-0223 MD21-01-0224 MD21-01-0225 MD21-01-0226 MD21-01-0227 MD21-01-0228	Volatile organic compounds SW-846: 8260	General Engineering Laboratories, Inc.
9762R	September 2001	MD21-01-0230 MD21-01-0231 MD21-01-0232 MD21-01-0234 MD21-01-0235	Volatile organic compounds SW-846: 8260	General Engineering
9766R	September 2001	MD21-01-0229	Volatile organic compounds SW-846: 8260	General Engineering

Table C-1.1-1 (continued)

Request Number	Collection Date	Sample ID	Analytical Suite	Analytical Laboratory
9789R	September 2001	MD21-01-0283 MD21-01-0284 MD21-01-0285 MD21-01-0286 MD21-01-0287 MD21-01-0288 MD21-01-0289 MD21-01-0290 MD21-01-0291 MD21-01-0292 MD21-01-0293 MD21-01-0294 MD21-01-0295 MD21-01-0296	Semivolatile organic compounds SW-846: 8270 Polychlorinated Biphenyls SW-846: 8082	General Engineering
322S	November 2001	MD21-01-0242 MD21-01-0243 MD21-01-0244	Volatile organic compounds SW-846: 8260B	Acculabs INC
397S	December 2001	MD21-01-0236 MD21-01-0237 MD21-01-0238 MD21-01-0239	Volatile organic compounds SW-846: 8260B	General Engineering
401S	December 2001	MD21-01-0532 MD21-01-0533 MD21-01-0534 MD21-01-0535 MD21-01-0536 MD21-01-0537 MD21-01-0538 MD21-01-0539 MD21-01-0540 MD21-01-0541 MD21-01-0542 MD21-01-0543	Semivolatile organic compounds SW-846: 8270C Polychlorinated Biphenyls SW-846: 8082	General Engineering
599S	February 2002	MD21-02-0021 MD21-02-0022 MD21-02-0023	Semivolatile organic compounds SW-846: 8270C	Severn Trent Laboratories, Inc.
Radionuclides				
13247	July 1992	AAA1095 AAA1096 AAA1097 AAA1100 AAA1101 AAA1102 AAA1103 AAA1104	Americium-241 Isotopic Plutonium Isotopic Thorium HASL-300 Tritium LA-10300-M, Vol. 1: R230	IT, Oak Ridge LANL Chemical Sciences & Technology

Table C-1.1-1 (continued)

Request Number	Collection Date	Sample ID	Analytical Suite	Analytical Laboratory
15389	August 1993	AAA4179 AAA4180 AAA4181 AAA4182 AAA4183	Americium-241 Isotopic Plutonium Isotopic Thorium Isotopic Uranium HASL-300 Tritium LA-10300-M, Vol. 1: R230	Rust Geotech
15413	August 1993	AAA4173 AAA4176 AAA4177 AAA4178	Americium-241 Isotopic Plutonium Isotopic Thorium Isotopic Uranium HASL-300 Tritium LA-10300-M, Vol. 1: R230	Rust Geotech
9757R	September 2001	MD21-01-0215 MD21-01-0217 MD21-01-0218 MD21-01-0219	Americium-241 HASL-300 Tritium LA-10300-M, Vol. 2: ER210	General Engineering
9761R	September 2001	MD21-01-0220 MD21-01-0221 MD21-01-0222 MD21-01-0223 MD21-01-0224 MD21-01-0225 MD21-01-0226 MD21-01-0227 MD21-01-0228	Americium-241 HASL-300 Tritium LA-10300-M, Vol. 2: ER210	General Engineering
9765R	September 2001	MD21-01-0230 MD21-01-0231 MD21-01-0232 MD21-01-0233 MD21-01-0234 MD21-01-0235	Americium-241 HASL-300 Tritium LA-10300-M, Vol. 2: ER210	General Engineering
9769R	September 2001	MD21-01-0229	Americium-241 HASL-300 Tritium LA-10300-M, Vol. 2: ER210	General Engineering

Table C-1.1-1 (continued)

Request Number	Collection Date	Sample ID	Analytical Suite	Analytical Laboratory
9792R	September 2001	MD21-01-0283 MD21-01-0284 MD21-01-0285 MD21-01-0286 MD21-01-0287 MD21-01-0288 MD21-01-0289 MD21-01-0290 MD21-01-0291 MD21-01-0292 MD21-01-0293 MD21-01-0294 MD21-01-0295 MD21-01-0296	Gamma Spectroscopy EPA Method 901.1 Strontium-90 EPA Method 905.0	General Engineering
294S	November 2001	MD21-01-0428 MD21-01-0430 MD21-01-0431 MD21-01-0433	Americium-241 Isotopic Plutonium Isotopic Thorium Isotopic Uranium HASL-300 Tritium EPA Method 906.0	General Engineering
325S	November 2001	MD21-01-0242 MD21-01-0243 MD21-01-0244	Americium-241 Isotopic Plutonium Isotopic Thorium Isotopic Uranium HASL-300 Tritium EPA Method 906.0	Acculabs INC
400S	December 2001	MD21-01-0236 MD21-01-0237 MD21-01-0238 MD21-01-0239	Americium-241 HASL-300 Gamma Spectroscopy EPA Method: 901.1 Tritium EPA Method:906.0	General Engineering
404S	December 2001	MD21-01-0532 MD21-01-0533 MD21-01-0534 MD21-01-0535 MD21-01-0536 MD21-01-0537 MD21-01-0538 MD21-01-0539 MD21-01-0540 MD21-01-0541 MD21-01-0542 MD21-01-0543	Gamma Spectroscopy EPA Method: 901.1 Strotium-90 EPA Method 905.0	General Engineering

Table C-1.1-1 (continued)

Request Number	Collection Date	Sample ID	Analytical Suite	Analytical Laboratory
455S	January 2002	MD21-02-0001 MD21-02-0002 MD21-02-0003 MD21-02-0004	Americium-241 Isotopic Plutonium Isotopic Thorium Isotopic Uranium HASL_300 Tritium EPA Method:906.0	Severn Trent Laboratories, Inc.
457S	January 2002	MD21-02-0005 MD21-02-0006 MD21-02-0007 MD21-02-0008 MD21-02-0009 MD21-02-0010 MD21-02-0011 MD21-02-0012 MD21-02-0013 MD21-02-0014 MD21-02-0015	Americium-241 Isotopic Plutonium Isotopic Thorium Isotopic Uranium HASL_300 Tritium EPA Method:906.0	Severn Trent Laboratories, Inc.
601S	February 2002	MD21-02-0021 MD21-02-0022 MD21-02-0023	Americium-241 HASL-300 Gamma Spectroscopy EPA Method: 901.1 Tritium EPA Method:906.0	Severn Trent Laboratories, Inc.
1195S	September 2002	MD21-02-49498 MD21-02-49499 MD21-02-49501 MD21-02-49502 MD21-02-49503 MD21-02-49504 MD21-02-49505 MD21-02-49506 MD21-02-49507 MD21-02-49508 MD21-02-49509	Tritium EPA Method:906.0 Isotopic Plutonium HASL-300	General Engineering
1530S	January 2003	MD21-03-50279 MD21-03-50280 MD21-03-50281 MD21-03-50282 MD21-03-50283 MD21-03-50284	Isotopic Plutonium HASL-300	General Engineering
1531S	January 2003	MD21-03-50285 MD21-03-50286 MD21-03-50287 MD21-03-50288 MD21-03-50289 MD21-03-50290	Isotopic Plutonium HASL-300	General Engineering

Table C-1.1-1 (continued)

Request Number	Collection Date	Sample ID	Analytical Suite	Analytical Laboratory
1532S	January 2003	MD21-03-50292 MD21-03-50293 MD21-03-50294 MD21-03-50295 MD21-03-50296 MD21-03-50297 MD21-03-50298 MD21-03-50299	Isotopic Plutonium HASL-300	General Engineering
1543S	January 2003	MD21-03-50300	Isotopic Thorium HASL-300	General Engineering

Summaries of the analytical methods for inorganics, radionuclides, and organic analytes are provided in the following sections. The contract-required detection limit (CRDL) for each analyte listed is provided in Appendix D-1.0. These limits are also detailed in the analytical services SOW (ER ID 49738 & 71233).

C-2.0 INORGANIC CHEMICAL METHODS

Ninety-nine samples were analyzed for target analyte list (TAL) metals using various methods listed in Table C-2.0-1. Fifty-three samples were analyzed for perchlorate using EPA Method 314.0. Twelve samples were analyzed for oxalate using EPA Method 300. Eight samples were analyzed for uranium using LA-10300-M, Vol. 1:R250.

The inorganic methods for this data set are detailed in Table C-2.0-1.

Table C-2.0-1
Analytical Methods for Inorganic Chemicals

Analytical Method	Analytical Description	Analytical Suite
SW-846 Method 6010* SW-846 Method 6020 SW-846 Method 7000*	Target Analyte Compounds	Analytical services SOW (ER IDs 49738 and 71233)
EPA Method 314.0	Perchlorate	Analytical services SOW (ER IDs 49738 and 71233)
EPA Method 300	Oxalate	Analytical services SOW (ER IDs 49738 and 71233)
LA-10300-M, Vol. 1:R250	Uranium	Analytical services SOW (ER IDs 49738 and 71233)

*All test methods were analyzed with the most recent promulgated version at the time of analyses.

C-2.1 Inorganic Chemical Quality Assurance/Quality Control Samples

The laboratory control sample (LCS) is a known matrix that has been spiked with compound(s) representative of the target analytes. The LCS is used to document laboratory performance. The LCS serves as a monitor of the overall performance of each step during the analysis, including sample extraction and injection.

The method blank is an analyte-free matrix to which all reagents are added in the same volumes and proportions as those used in the environmental sample processing; the method blank is prepared and analyzed in the same manner as the corresponding environmental samples. The method blanks are used as a measurement of bias and potential cross contamination during sample preparation and analysis. For analytes detected in the method blank, results are regarded as not detected if the sample results are less than or equal to 5 times the concentration of the analyte in the method blank. (EPA 1994, 48639).

Accuracy for inorganic chemical analyses is also assessed using matrix spike samples. A matrix spike sample is designed to provide information about the effect of each sample matrix on the sample preparation procedures and analytical technique.

Analysis of laboratory duplicate samples allowed assessment of the precision of the inorganic chemical analyses.

C-3.0 ORGANIC CHEMICAL ANALYSES

Thirty-nine samples were analyzed for volatile organic compounds (VOCs) using SW-846 Method 8260 and SW-846 Method 8260B. Forty-six samples were analyzed for semivolatile organic compounds (SVOCs) using SW-846 Method 8270 and SW-846 Method 8270C. The most recent promulgated methods were used depending on the date of sampling. Twenty-six samples were analyzed for polychlorinated biphenyls (PCBs) using SW-846 Method 8082.

Details for the methods are shown in Table C-3.0-1.

Table C-3.0-1
Analytical Methods for Organic Chemicals

Analytical Method	Analytical Description	Target Compound List
SW-846 Method 3540 – Extraction SW-846 Method 8270* – Analysis SW-846 Method 3540 – Extraction SW-846 Method 8270C*– Analysis	Semivolatile Organic Compounds (SVOCs)	Analytical services SOW (ER IDs 49738 and 71233)
SW-846 Method 5030 – Extraction SW-846 Method 8260* – Analysis SW-846 Method 5035 – Extraction SW-846 Method 8260B* – Analysis	Volatile Organic Compounds (VOCs)	Analytical services SOW (ER IDs 49738 and 71233)
SW-846 Method 8082 – Analysis	Polychlorinated Biphenyls (PCBs)	Analytical services SOW (ER IDs 49738 and 71233)

*All test methods were analyzed with the most recent promulgated version at the time of analyses.

C-3.1 Organic Chemical Quality Assurance/Quality Control Samples

A LCS is a known matrix that has been spiked with compound(s) representative of the target analytes. The LCS is used to document laboratory performance. The LCS serves as a monitor of the overall performance of each step during the analysis, including sample extraction and injection.

The method blank is an analyte-free matrix to which all reagents (surrogates and internal standards) are added in the same volumes and proportions as those used in the environmental sample processing; the method blank is prepared and analyzed in the same manner as the corresponding environmental

samples. The method blanks are used as a measurement of bias and potential cross contamination during sample preparation and analysis. For analytes detected in the method blank, results are regarded as not detected if the sample results are less than or equal to 5 or 10 times the concentration of the analyte in the method blank, depending whether it is a common laboratory contaminant or not. (EPA 1994, 58690.1).

C-4.0 RADIOCHEMICAL ANALYSES

One hundred fourteen samples were analyzed for radionuclides by the methods listed in Table C-4.0-1.

Table C-4.0-1
Analytical Methods for Radiochemicals

Analytical Method	Analytical Description	Target Compound List
HASL-300	Americium-241	Analytical services SOW (ER IDs 49738 and 71233)
EPA Method 901.1	Gamma Spectroscopy	Analytical services SOW (ER IDs 49738 and 71233)
EPA Method 906.0 LA-10300-M, Vol.1:ER230 LA-10300-M, Vol.2:ER210	Tritium	Analytical services SOW (ER IDs 49738 and 71233)
HASL-300	Isotopic Plutonium	Analytical services SOW (ER IDs 49738 and 71233)
HASL-300	Isotopic Uranium	Analytical services SOW (ER IDs 49738 and 71233)
HASL-300	Isotopic Thorium	Analytical services SOW (ER IDs 49738 and 71233)
Strontium-90 (EPA Method 905.0)	Strontium-90	Analytical services SOW (ER IDs 49738 and 71233)

Radionuclides with reported values less than the minimum detectable activity (MDA) were qualified as not detected (U). The radionuclides qualified as not detected based on the MDA are summarized in Table C-5.0-4. Each radionuclide result was also compared with the corresponding 1-sigma total propagated uncertainty (TPU). If the result was not greater than three times the total propagated uncertainty, it was qualified as not detected (U). Radionuclides qualified as not detected (U) based on the 1-sigma TPU are also presented in Table C-5.0-4.

C-4.1 Discussion of Radiochemical Quality Assurance/Quality Control Samples

Precision and bias of radiochemical analyses performed at off-site fixed laboratories were assessed using matrix spike samples, laboratory control samples, method blanks, duplicates and tracers.

A LCS is a known matrix that has been spiked with compound(s) representative of the target analytes. The LCS is used to document laboratory performance. The LCS serves as a monitor of the overall performance of each step during the analysis, including sample extraction and injection.

The method blank is an analyte-free matrix to which all reagents (surrogates and internal standards) are added in the same volumes and proportions as those used in the environmental sample processing; the method blank is prepared and analyzed in the same manner as the corresponding environmental samples. The method blanks are used as a measurement of bias and potential cross contamination during sample preparation and analysis. For analytes detected in the method blank, results are regarded as not detected if the sample results are less than or equal to 5 times the concentration of the analyte in the method blank (EPA 1994, 48639).

Accuracy for radionuclide chemical analyses is also assessed using matrix spike samples. A matrix spike sample is designed to provide information about the effect of each sample matrix on the sample preparation procedures and analytical technique.

Analysis of laboratory duplicate samples allowed assessment of the precision of the radionuclide chemical analyses.

Analysis of laboratory tracers allowed assessment of the accuracy of Strontium-90 samples.

C-5.0 DATA VALIDATION

The following tables present the data qualifiers applied to each analyte for a given sample. The data qualifiers are defined in Table C-5.0-1. Tables C-5.0-2 and C-5.0-2a (inorganic data quality), Table C-5.0-3 (organic data quality), and Tables C-5.0-4 and C-5.0-4a (radionuclide data quality) summarize the qualifiers for this data set.

Table C-5.0-1
Explanation of Data Qualifiers Used in the Data Validation Procedure

Qualifier	Explanation
U	The analyte was analyzed but considered not detected because of a specific Quality Issue.
J	The reported values are considered estimated.
J+	The reported values are considered estimated and biased high.
J-	The reported values are considered estimated and biased low.
UJ	The analyte was analyzed for but not detected. Reported value is an estimate of the sample-specific quantitation limit or detection limit.
R	The sample results were rejected because of serious deficiencies in the ability to analyze the sample and meet quality control criteria; presence or absence cannot be verified.

C-5.1 Inorganic Data Review

The analytical results for inorganic samples collected at AOCs C-21-015, 21-030, and SWMU 21-024(f) are discussed below. See Table C-5.0-2 for more details. Table C-5.0-2a was compiled to present rejected data and follows Table C-5.0-2.

Request 13245. Rust Geotech analyzed eight samples for TAL metals. No target analytes were detected in the method blank. The holding times were met.

Request 13247. LANL Chemical Sciences & Technology analyzed eight samples for uranium. No target analytes were detected in the method blank. The holding times were met.

Request 15388. Rust Geotech analyzed five samples for TAL metals. No target analytes were detected in the method blank. The holding times were met.

Request 15412. Rust Geotech analyzed four samples for TAL metals. No target analytes were detected in the method blank. The holding times were met.

Table C-5.0-2
Inorganic Chemical Data Quality Evaluation for AOCs C-21-015, 21-030 and SWMU 21-024(f)

Request Number	Location ID	Sample ID	Analyte	Explanation
9755R	21-11273 21-11273 21-11274 21-11274	MD21-01-0215 MD21-01-0217 MD21-01-0218 MD21-01-0219	Barium, Calcium, Magnesium, Potassium	The results for these analytes are considered estimated and biased high (J+) because the analytes were recovered above 150% in the associated spike sample.
9755R	21-11274	MD21-01-0219	Cobalt, Lithium	The result for these analytes is considered estimated (J) because the result was less than the practical quantitation limit (PQL), but greater than the minimum detection limit (MDL).
9755R	21-11273 21-11273	MD21-01-0215 MD21-01-0217	Silver, Thallium	The results for these analytes are considered estimated (J) because the results were less than the PQL, but greater than the MDL.
9755R-1	21-11274	MD21-01-0219	Antimony	The result for this analyte is considered not detected (U) because the result was less than five times the amount in the method blank.
9755R-1	21-11273	MD21-01-0215 MD21-01-0217	Antimony	The results for this analyte are considered estimated and biased low (J-) because the analyte was recovered below the LAL but greater than 30% in the associated spike sample.
9759R	21-11275 21-11275 21-11276 21-11276 21-11277 21-11277 21-11278 21-11276 21-11278	MD21-01-0220 MD21-01-0221 MD21-01-0222 MD21-01-0223 MD21-01-0224 MD12-01-0225 MD21-01-0226 MD21-01-0227 MD21-01-0228	Mercury	The results for this analyte are considered estimated and biased low (J-) because the analytes were recovered below the LAL but greater than 30% in the associated spike sample.
9759R	21-11275 21-11275 21-11276 21-11276 21-11277 21-11277 21-11278 21-11276 21-11278	MD21-01-0220 MD21-01-0221 MD21-01-0222 MD21-01-0223 MD21-01-0224 MD12-01-0225 MD21-01-0226 MD21-01-0227 MD21-01-0228	Barium, Calcium, Magnesium, Potassium	The results for these analytes are considered estimated and biased high (J+) because the analytes were recovered above 150% in the associated spike sample.
9759R	21-11276 21-11276	MD21-01-0222 MD21-01-0223	Cadmium	The results for this analyte are considered estimated (J) because the results were less than the PQL, but greater than the MDL.
9759R	21-11277 21-11276	MD21-01-0225 MD21-01-0227	Cobalt	The results for this analyte are considered estimated (J) because the results were less than the PQL, but greater than the MDL.

Table C-5.0-2 (continued)

Request Number	Location ID	Sample ID	Analyte	Explanation
9759R	21-11275 21-11275 21-11276 21-11276 21-11278 21-11278	MD21-01-0220 MD21-01-0221 MD21-01-0222 MD21-01-0223 MD21-01-0226 MD21-01-0227	Silver	The results for this analyte are considered estimated (J) because the results were less than the PQL, but greater than the MDL.
9759R	21-11275 21-11275 21-11276 21-11276 21-11277 21-11276 21-11278	MD21-01-0220 MD21-01-0221 MD21-01-0222 MD21-01-0223 MD21-01-0224 MD21-01-0227 MD21-01-0228	Thallium	The results for this analyte are considered estimated (J) because the results were less than the PQL, but greater than the MDL.
9759R-1	21-11275 21-11275 21-11276 21-11276 21-11277 21-11277	MD21-01-0220 MD21-01-0221 MD21-01-0222 MD21-01-0223 MD21-01-0224 MD21-01-0225	Antimony	The results for this analyte are considered not detected (U) because the results were less than five times the amount in the method blank.
9759R-1	21-11278 21-11276 21-11278	MD21-01-0226 MD21-01-0227 MD21-01-0228	Antimony	The results for this analyte are considered estimated and biased low (J-) because the analytes were recovered below the LAL but greater than 30% in the associated spike sample.
9760R	21-11277	MD21-01-0225	Perchlorate	The result for this analyte is considered estimated (J) because the result was less than the PQL, but greater than the MDL.
9763R	21-11279 21-11280 21-11280 21-11281 21-11281	MD21-01-0230 MD21-01-0231 MD21-01-0232 MD21-01-0234 MD21-01-0235	Mercury	The results for this analyte are considered estimated and biased low (J-) because the analytes were recovered below the LAL but greater than 30% in the associated spike sample.
9763R	21-11279 21-11280 21-11280 21-11281 21-11281	MD21-01-0230 MD21-01-0231 MD21-01-0232 MD21-01-0234 MD21-01-0235	Barium, Calcium, Magnesium, Potassium	The results for these analytes are considered estimated and biased high (J+) because the analytes were recovered above 150% in the associated spike samples.
9763R	21-11279 21-11281	MD21-01-0230 MD21-01-0235	Thallium	The results for this analyte are considered estimated (J) because the results were less than the PQL, but greater than the MDL.
9763R-1	21-11279 21-11280 21-11280 21-11281	MD21-01-0230 MD21-01-0231 MD21-01-0232 MD21-01-0235	Antimony	The results for this analyte are considered not detected (U) because the results were less than five times the amount in the method blank.

Table C-5.0-2 (continued)

Request Number	Location ID	Sample ID	Analyte	Explanation
9763R-1	21-11281	MD21-01-0234	Antimony	The result for this analyte is considered estimated and biased low (J-) because the analyte was recovered below the LAL but greater than 30% in the associated spike sample.
9764R	21-11281	MD21-01-0235	Perchlorate	The result for this analyte is considered estimated and biased high (J+) because the analyte was recovered above the upper acceptance level (UAL) but less than 150% in the associated spike sample.
9767R	21-11279	MD21-01-0229	Barium, Calcium, Magnesium, Potassium,	The result for these analytes is considered estimated and biased high (J+) because the analyte was recovered above 150% in the associated spike samples.
9767R	21-11279	MD21-01-0229	Cobalt, Silver	The result for these analytes is considered estimated (J) because the result was less than the PQL, but greater than the MDL.
9767R-1	21-11279	MD21-01-0229	Antimony	The result for this analyte is considered estimated and biased low (J-) because the analyte was recovered below the LAL but greater than 30% in the associated spike sample.
9790R	21-11282 21-11282 21-11283 21-11283 21-11284 21-11284 21-11285 21-11285 21-11286 21-11286 21-11287 21-11287 21-11288 21-11288	MD21-01-0283 MD21-01-0284 MD21-01-0285 MD21-01-0286 MD21-01-0287 MD21-01-0288 MD21-01-0289 MD21-01-0290 MD21-01-0291 MD21-01-0292 MD21-01-0293 MD21-01-0294 MD21-01-0295 MD21-01-0296	Antimony	The results for this analyte are considered not detected (U) because the results were less than five times the amount in the method blank.

Table C-5.0-2 (continued)

Request Number	Location ID	Sample ID	Analyte	Explanation
9790R	21-11282 21-11282 21-11283 21-11283 21-11284 21-11284 21-11285 21-11285 21-11286 21-11286 21-11287 21-11287 21-11288 21-11288	MD21-01-0283 MD21-01-0284 MD21-01-0285 MD21-01-0286 MD21-01-0287 MD21-01-0288 MD21-01-0289 MD21-01-0290 MD21-01-0291 MD21-01-0292 MD21-01-0293 MD21-01-0294 MD21-01-0295 MD21-01-0296	Magnesium	The results for this analyte are considered estimated and biased high (J+) because the analytes were recovered above 150% in the associated spike sample.
9790R	21-11282 21-11282 21-11283 21-11283 21-11284 21-11285 21-11285 21-11286 21-11286 21-11287 21-11287 21-11288 21-11288	MD21-01-0283 MD21-01-0284 MD21-01-0285 MD21-01-0286 MD21-01-0287 MD21-01-0289 MD21-01-0290 MD21-01-0291 MD21-01-0292 MD21-01-0293 MD21-01-0294 MD21-01-0295 MD21-01-0296	Potassium	The results for this analyte are considered estimated and biased high (J+) because the analytes were recovered above 150% in the associated spike sample.
9790R	21-11282 21-11282 21-11283 21-11283 21-11284 21-11284 21-11285 21-11285 21-11286 21-11286 21-11287 21-11287 21-11288 21-11288	MD21-01-0283 MD21-01-0284 MD21-01-0285 MD21-01-0286 MD21-01-0287 MD21-01-0288 MD21-01-0289 MD21-01-0290 MD21-01-0291 MD21-01-0292 MD21-01-0293 MD21-01-0294 MD21-01-0295 MD21-01-0296	Barium	The results for this analyte are considered estimated and biased high (J+) because the analytes were recovered above the UAL but less than 150% in the associated spike sample.

Table C-5.0-2 (continued)

Request Number	Location ID	Sample ID	Analyte	Explanation
9790R	21-11282 21-11282 21-11283 21-11283 21-11284 21-11284 21-11285 21-11285 21-11286 21-11286 21-11287 21-11287 21-11288 21-11288	MD21-01-0283 MD21-01-0284 MD21-01-0285 MD21-01-0286 MD21-01-0287 MD21-01-0288 MD21-01-0289 MD21-01-0290 MD21-01-0291 MD21-01-0292 MD21-01-0293 MD21-01-0294 MD21-01-0295 MD21-01-0296	Calcium, Chromium	The results for these analytes are considered estimated (J) because both the sample and duplicate sample results were greater than or equal to five times the reporting limit (RL) and the duplicate relative percent difference (RPD) was greater than 35.
9790R	21-11282 21-11282 21-11283 21-11283 21-11284 21-11284 21-11285 21-11285 21-11286 21-11286 21-11287 21-11287 21-11288	MD21-01-0283 MD21-01-0284 MD21-01-0285 MD21-01-0286 MD21-01-0287 MD21-01-0288 MD21-01-0289 MD21-01-0290 MD21-01-0291 MD21-01-0292 MD21-01-0293 MD21-01-0294 MD21-01-0296	Lead	The results for this analyte are considered estimated (J) because both the sample and duplicate sample results were greater than or equal to five times the RL and the duplicate RPD was greater than 35.
9790R	21-11282 21-11287	MD21-01-0283 MD21-01-0294	Cadmium	The results for this analyte are considered estimated (J) because the results were less than the PQL, but greater than the MDL.
9790R	21-11282 21-11283 21-11284 21-11287 21-11288	MD21-01-0284 MD21-01-0286 MD21-01-0287 MD21-01-0293 MD21-01-0295	Cobalt	The results for this analyte are considered estimated (J) because the results were less than the PQL, but greater than the MDL.
9790R	21-11283 21-11284 21-11287	MD21-01-0286 MD21-01-0288 MD21-01-0294	Mercury	The results for this analyte are considered estimated (J) because the results were less than the PQL, but greater than the MDL.
9790R	21-11283 21-11284 21-11285 21-11285 21-11287 21-11288	MD21-01-0285 MD21-01-0288 MD21-01-0289 MD21-01-0290 MD21-01-0294 MD21-01-0295	Selenium	The results for this analyte are considered estimated (J) because the results were less than the PQL, but greater than the MDL.

Table C-5.0-2 (continued)

Request Number	Location ID	Sample ID	Analyte	Explanation
9790R	21-11282 21-11282 21-11283 21-11283 21-11284 21-11284 21-11285 21-11285 21-11286 21-11286 21-11287 21-11287 21-11288 21-11288	MD21-01-0283 MD21-01-0284 MD21-01-0285 MD21-01-0286 MD21-01-0287 MD21-01-0288 MD21-01-0289 MD21-01-0290 MD21-01-0291 MD21-01-0292 MD21-01-0293 MD21-01-0294 MD21-01-0295 MD21-01-0296	Silver	The results for this analyte are considered estimated (J) because the results were less than the PQL, but greater than the MDL.
9790R	21-11282 21-11282 21-11283 21-11283 21-11285 21-11286 21-11287 21-11288 21-11288	MD21-01-0283 MD21-01-0284 MD21-01-0285 MD21-01-0286 MD21-01-0290 MD21-01-0291 MD21-01-0294 MD21-01-0295 MD21-01-0296	Thallium	The results for this analyte are considered estimated (J) because the results were less than the PQL, but greater than the MDL.
293S	21-11297 21-11298 21-11296 21-11298	MD21-01-0428 MD21-01-0430 MD21-01-0431 MD21-01-0433	Antimony	The results for this analyte are considered not detected (U) because the results were less than five times the amount in the method blank.
293S	21-11297 21-11298 21-11298	MD21-01-0428 MD21-01-0430 MD21-01-0433	Barium	The results for this analyte are considered estimated and biased high (J+) because the analytes were recovered above 150% in the associated spike sample.
293S	21-11297 21-11298 21-11296 21-11298	MD21-01-0428 MD21-01-0430 MD21-01-0431 MD21-01-0433	Potassium	The results for this analyte are considered estimated and biased high (J+) because the analytes were recovered above 150% in the associated spike sample.
293S	21-11297 21-11298 21-11296 21-11298	MD21-01-0428 MD21-01-0430 MD21-01-0431 MD21-01-0433	Cadmium, Silver, Thallium	The results for these analytes are considered estimated (J) because the results were less than the PQL, but greater than the MDL.
323S	21-11294 21-11294 21-11294	MD21-01-0242 MD21-01-0243 MD21-01-0244	Manganese, Nickel, Zinc	The results for these analytes are considered estimated and biased low (J-) because the analytes were recovered below the LAL but greater than 30% in the associated spike sample.
323S	21-11294 21-11294 21-11294	MD21-01-0242 MD21-01-0243 MD21-01-0244	Lead	The results for this analyte are considered estimated and biased high (J+) because the analytes were recovered above the UAL but less than 150% in the associated spike sample.

Table C-5.0-2 (continued)

Request Number	Location ID	Sample ID	Analyte	Explanation
323S	21-11294 21-11294 21-11294	MD21-01-0242 MD21-01-0243 MD21-01-0244	Cadmium, Calcium, Lithium, Magnesium, Mercury, Potassium, Silver, Sodium, Thallium	The results for these analytes are considered estimated (J) because the results were less than the PQL, but greater than the MDL.
324R	21-11294	MD21-01-0242	Perchlorate	The result for this analyte is considered estimated (J) because the result was less than the PQL, but greater than the MDL.
398S	21-11295	MD21-01-0236	Perchlorate	The result for this analyte is considered estimated (J) because the result was less than the PQL, but greater than the MDL.
399S	21-11295	MD21-01-0236	Antimony	The result for this analyte is considered not detected (U) because the result was less than five times the amount in the method blank.
399S	21-11295 21-11295 21-11295 21-11295	MD21-01-0236 MD21-01-0237 MD21-01-0238 MD21-01-0239	Aluminum, Mercury	The results for these analytes are considered estimated and biased high (J+) because the analytes were recovered above 150% in the associated spike samples.
399S	21-11295 21-11295 21-11295 21-11295	MD21-01-0236 MD21-01-0237 MD21-01-0238 MD21-01-0239	Arsenic, Calcium, Lead, Strontium	The results for these analytes are considered estimated (J) because both the sample and duplicate sample results were greater than or equal to five times the RL and the duplicate RPD was greater than 35.
399S	21-11295 21-11295 21-11295 21-11295	MD21-01-0236 MD21-01-0237 MD21-01-0238 MD21-01-0239	Cobalt	The results for this analyte are considered estimated (J) because the results were less than the PQL, but greater than the MDL.
399S	21-11295 21-11295	MD21-01-0236 MD21-01-0237	Vanadium	The results for this analyte are considered estimated (J) because the results were less than the PQL, but greater than the MDL.
402S	21-11291 21-11291 21-11291 21-11291 21-11292 21-11292 21-11292 21-11292 21-11293 21-11290 21-11289	MD21-01-0532 MD21-01-0534 MD21-01-0535 MD21-01-0536 MD21-01-0537 MD21-01-0538 MD21-01-0539 MD21-01-0540 MD21-01-0541 MD21-01-0542 MD21-01-0543	Antimony	The results for this analyte are considered not detected (U) because the results were less than five times the amount in the method blank.
402S	21-11291 21-11291 21-11291 21-11292 21-11292 21-11292	MD21-01-0533 MD21-01-0535 MD21-01-0536 MD21-01-0538 MD21-01-0539 MD21-01-0540	Mercury	The reporting limits for this analyte are considered estimated (UJ) because the analytes were recovered above 150% in the associated spike samples.

Table C-5.0-2 (continued)

Request Number	Location ID	Sample ID	Analyte	Explanation
402S	21-11291 21-11291 21-11291 21-11291 21-11291 21-11292 21-11292 21-11292 21-11292 21-11293 21-11290 21-11289	MD21-01-0532 MD21-01-0533 MD21-01-0534 MD21-01-0535 MD21-01-0536 MD21-01-0537 MD21-01-0538 MD21-01-0539 MD21-01-0540 MD21-01-0541 MD21-01-0542 MD21-01-0543	Calcium, Lead	The results for these analytes are considered estimated (J) because both the sample and duplicate sample results were greater than or equal to five times the RL and the duplicate RPD was greater than 35.
402S	21-11291 21-11291 21-11291 21-11291 21-11291 21-11292 21-11292 21-11292 21-11292 21-11293 21-11290 21-11289	MD21-01-0532 MD21-01-0533 MD21-01-0534 MD21-01-0535 MD21-01-0536 MD21-01-0537 MD21-01-0538 MD21-01-0539 MD21-01-0540 MD21-01-0541 MD21-01-0542 MD21-01-0543	Aluminum	The results for this analyte are considered estimated and biased high (J+) because the analytes were recovered above 150% in the associated spike samples.
402S	21-11291 21-11291 21-11292 21-11293 21-11290 21-11289	MD21-01-0532 MD21-01-0534 MD21-01-0537 MD21-01-0541 MD21-01-0542 MD21-01-0543	Mercury	The results for this analyte are considered estimated and biased high (J+) because the analytes were recovered above 150% in the associated spike samples.
402S	21-11293 21-11290 21-11289	MD21-01-0541 MD21-01-0542 MD21-01-0543	Cadmium, Silver	The results for these analytes are considered estimated (J) because the results were less than the PQL, but greater than the MDL.
402S	21-11291 21-11291 21-11291 21-11291 21-11292 21-11292 21-11292	MD21-01-0533 MD21-01-0534 MD21-01-0535 MD21-01-0536 MD21-01-0538 MD21-01-0539 MD21-01-0540	Cobalt	The results for this analyte are considered estimated (J) because the results were less than the PQL, but greater than the MDL.
402S	21-11291 21-11291 21-11291	MD21-01-0534 MD21-01-0535 MD21-01-0536	Nickel	The results for this analyte are considered estimated (J) because the results were less than the PQL, but greater than the MDL.
402S	21-11291 21-11292 21-11292 21-11292	MD21-01-0533 MD21-01-0538 MD21-01-0539 MD21-01-0540	Thallium	The results for this analyte are considered estimated (J) because the results were less than the PQL, but greater than the MDL.

Table C-5.0-2 (continued)

Request Number	Location ID	Sample ID	Analyte	Explanation
403S	21-11291 21-11291 21-11292 21-11292 21-11292 21-11289	MD21-01-0534 MD21-01-0535 MD21-01-0537 MD21-01-0538 MD21-01-0540 MD21-01-0543	Perchlorate	The results for this analyte are considered estimated (J) because the results were less than the PQL, but greater than the MDL.
454S	21-11429 21-11430 21-11431 21-11432	MD21-02-0001 MD21-02-0002 MD21-02-0003 MD21-02-0004	Antimony, Thallium	The results for these analytes are considered not detected (U) because the results were less than five times the amount in the method blank.
454S	21-11429 21-11430	MD21-02-0001 MD21-02-0002	Chromium, Lithium	The results for these analytes are considered not detected (U) because the results were less than five times the amount in the method blank.
454S	21-11429 21-11430 21-11431	MD21-02-0001 MD21-02-0002 MD21-02-0003	Silver	The results for this analyte are considered not detected (U) because the results were less than five times the amount in the method blank.
454S	21-11429 21-11430 21-11432	MD21-02-0001 MD21-02-0002 MD21-02-0004	Sodium	The results for this analyte are considered not detected (U) because the results were less than five times the amount in the method blank.
454S	21-11429 21-11430 21-11431 21-11432	MD21-02-0001 MD21-02-0002 MD21-02-0003 MD21-02-0004	Beryllium, Copper, Nickel	The results for these analytes are considered estimated and biased low (J-) because the associated LCSs were recovered below the lower warning limit but greater than or equal to the LAL.
454S	21-11429 21-11430 21-11431 21-11432	MD21-02-0001 MD21-02-0002 MD21-02-0003 MD21-02-0004	Cadmium	The results for this analyte are considered estimated (J) because the results were less than the PQL, but greater than the MDL.
454S	21-11431 21-11432	MD21-02-0003 MD21-02-0004	Mercury	The results for this analyte are considered estimated (J) because the results were less than the PQL, but greater than the MDL.
454S	21-11430	MD21-02-0002	Selenium	The result for this analyte is considered estimated (J) because the result was less than the PQL, but greater than the MDL.
454S	21-11432	MD21-02-0004	Silver	The result for this analyte is considered estimated (J) because the result was less than the PQL, but greater than the MDL.
454S	21-11431	MD21-02-0003	Sodium	The result for this analyte is considered estimated (J) because the result was less than the PQL, but greater than the MDL.

Table C-5.0-2 (continued)

Request Number	Location ID	Sample ID	Analyte	Explanation
456S	21-11433 21-11434 21-11435 21-11435 21-11436 21-11437 21-11437 21-11438 21-11438 21-11439 21-11439	MD21-02-0005 MD21-02-0006 MD21-02-0007 MD21-02-0008 MD21-02-0009 MD21-02-0010 MD21-02-0011 MD21-02-0012 MD21-02-0013 MD21-02-0014 MD21-02-0015	Antimony, Silver, Sodium	The results for these analytes are considered not detected (U) because the results were less than five times the amount in the method blank.
456S	21-11433 21-11437 21-11439 21-11439	MD21-02-0005 MD21-02-0010 MD21-02-0014 MD21-02-0015	Chromium	The results for this analyte are considered not detected (U) because the results were less than five times the amount in the method blank.
456S	21-11433 21-11437 21-11437 21-11438 21-11438 21-11439 21-11439	MD21-02-0005 MD21-02-0010 MD21-02-0011 MD21-02-0012 MD21-02-0013 MD21-02-0014 MD21-02-0015	Lithium	The results for this analyte are considered not detected (U) because the results were less than five times the amount in the method blank.
456S	21-11434 21-11435 21-11435 21-11436 21-11437 21-11437 21-11438 21-11438 21-11439 21-11439	MD21-02-0006 MD21-02-0007 MD21-02-0008 MD21-02-0009 MD21-02-0010 MD21-02-0011 MD21-02-0012 MD21-02-0013 MD21-02-0014 MD21-02-0015	Thallium	The results for this analyte are considered not detected (U) because the results were less than five times the amount in the method blank.
456S	21-11433 21-11434 21-11435 21-11435 21-11436 21-11437 21-11437 21-11438 21-11438 21-11439 21-11439	MD21-02-0005 MD21-02-0006 MD21-02-0007 MD21-02-0008 MD21-02-0009 MD21-02-0010 MD21-02-0011 MD21-02-0012 MD21-02-0013 MD21-02-0014 MD21-02-0015	Beryllium, Cobalt, Copper, Nickel	The results for these analytes are considered estimated and biased low (J-) because the associated LCSs were recovered below the lower warning limit but greater than or equal to the LAL.
456S	21-11433	MD21-02-0005	Thallium	The result for this analyte is considered estimated (J) because both the sample and duplicate sample result were greater than or equal to five times the RL and the duplicate RPD was greater than 35.

Table C-5.0-2 (continued)

Request Number	Location ID	Sample ID	Analyte	Explanation
456S	21-11433 21-11434 21-11435 21-11435 21-11436 21-11437 21-11437 21-11438 21-11438 21-11439 21-11439	MD21-02-0005 MD21-02-0006 MD21-02-0007 MD21-02-0008 MD21-02-0009 MD21-02-0010 MD21-02-0011 MD21-02-0012 MD21-02-0013 MD21-02-0014 MD21-02-0015	Cadmium	The results for this analyte are considered estimated (J) because the results were less than the PQL, but greater than the MDL.
600S	21-11449 21-11450 21-11451	MD21-02-0021 MD21-02-0022 MD21-02-0023	Copper, Nickel	The results for these analytes are considered estimated and biased low (J-) because the analytes were recovered below the LAL but greater than 30% in the associated spike samples.
600S	21-11449 21-11450 21-11451	MD21-02-0021 MD21-02-0022 MD21-02-0023	Antimony	The reporting limits for this analyte are considered estimated (UJ) because the analytes were recovered below the LAL but greater than 30% in the associated spike samples.
600S	21-11449 21-11450 21-11451	MD21-02-0021 MD21-02-0022 MD21-02-0023	Barium, Calcium, Thallium	The results for these analytes are considered estimated (J) because both the sample and duplicate sample results were greater than or equal to five times the RL and the duplicate RPD was greater than 35.
600S	21-11449 21-11450 21-11451	MD21-02-0021 MD21-02-0022 MD21-02-0023	Cadmium, Silver	The results for these analytes are considered estimated (J) because the results were less than the PQL, but greater than the MDL.
600S	21-11450	MD21-02-0022	Mercury, Selenium, Sodium	The result for these analytes is considered estimated (J) because the result was less than the PQL, but greater than the MDL.

Table C-5.0-2a
Rejected Inorganic Chemical Data for AOCs C-21-015, 21-030 and SWMU 21-024(f)

Request Number	Location ID	Sample ID	Analyte	Explanation
9755R	21-11273 21-11273 21-11274 21-11274	MD21-01-0215[a] MD21-01-0217[a] MD21-01-0218[a] MD21-01-0219[a]	Antimony	The results for this analyte are considered rejected (R) because the associated spike samples recovered less than 30%.
9759R	21-11275 21-11275 21-11276 21-11276 21-11277 21-11277 21-11278 21-11276 21-11278	MD21-01-0220[a] MD21-01-0221[a] MD21-01-0222[a] MD21-01-0223[a] MD21-01-0224[a] MD21-01-0225[a] MD21-01-0226[a] MD21-01-0227[a] MD21-01-0228[a]	Antimony	The results for this analyte are considered rejected (R) because the associated spike samples recovered less than 30%.
9763R	21-11279 21-11280 21-11280 21-11281 21-11281	MD21-01-0230[a] MD21-01-0231[a] MD21-01-0232[a] MD21-01-0234[a] MD21-01-0235[a]	Antimony	The results for this analyte are considered rejected (R) because the associated spike samples recovered less than 30%.
9767R	21-11279	MD21-01-0229[a]	Antimony	The result for this analyte is considered rejected (R) because the associated spike sample recovered less than 30%.
293S	21-11297 21-11298 21-11296 21-11298	MD21-01-0428[b] MD21-01-0430[b] MD21-01-0431[b] MD21-01-0433[b]	Lithium	The results for this analyte are considered rejected (R) because the associated spike samples recovered less than 30%.
323S	21-11294	MD21-01-0244[b]	Antimony	The result for this analyte is considered rejected (R) because the associated spike sample recovered less than 30%.
600S	21-11449 21-11450 21-11451	MD21-02-0021[b] MD21-02-0022[b] MD21-02-0023[b]	Chromium, Manganese	The results for these analytes are considered rejected (R) because the associated spike samples recovered less than 30%.

[a] This sample was rejected and reanalyzed. The valid results are presented in Table C-5.0-2 under request numbers 9755R-1, 9759R-1, 9763R-1, 9767R-1.

[b] This sample was rejected because the spike samples recoveries were less than 30%. These were not reanalyzed.

Request 9755R. General Engineering Laboratories, Inc. analyzed four samples for TAL metals. No target analytes were detected in the method blank. The results for several analytes are considered estimated and biased high (J+) because the analytes were recovered above 150% in the associated spike sample, please refer to Table C-5.0-2 for list of analytes. The results for antimony are considered rejected (R) because the associated spike samples recovered less than 30%. The holding times were met. The results for several analytes are considered estimated (J) because the results were less than the practical quantitation limit (PQL), but greater than the method detection limit (MDL), please refer to Table C-5.0-2 for list of analytes.

Request 9755R-1. General Engineering analyzed four samples for TAL metals. The result for antimony is considered not detected (U) because the result was less than five times the amount in the method blank. The results for antimony are considered estimated and biased low (J-) because the analyte was recovered below the LAL but greater than 30% in the associated spike sample. The holding times were met.

Request 9756R. General Engineering analyzed four samples for perchlorate. No target analytes were detected in the method blank. The holding times were met.

Request 9759R. General Engineering analyzed nine samples for TAL metals. No target analytes were detected in the method blank. The results for mercury are considered estimated and biased low (J-) because the analytes were recovered below the LAL but greater than 30% in the associated spike sample. The results for several analytes are considered estimated and biased high (J+) because the analytes were recovered above 150% in the associated spike samples, please refer to Table C-5.0-2 for list of analytes. The results for antimony are considered rejected (R) because the associated spike samples recovered less than 30%. The holding times were met. The results for several analytes are considered estimated (J) because the results were less than the PQL, but greater than the MDL, please refer to Table C-5.0-2 for list of analytes.

Request 9759R-1. General Engineering analyzed nine samples for TAL metals. The results for antimony are considered not detected (U) because the results were less than five times the amount in the method blank. The results for antimony are considered estimated and biased low (J-) because the analytes were recovered below the LAL but greater than 30% in the associated spike sample. The holding times were met.

Request 9760R. General Engineering analyzed nine samples for perchlorate. No target analytes were detected in the method blank. The holding times were met. The result for perchlorate is considered estimated (J) because the result was less than the PQL, but greater than the MDL.

Request 9763R. General Engineering analyzed five samples for TAL metals. No target analytes were detected in the method blank. The results for mercury are considered estimated and biased low (J-) because the analytes were recovered below the LAL but greater than 30% in the associated spike sample. The results for several analytes are considered estimated and biased high (J+) because the analytes were recovered above 150% in the associated spike samples, please refer to Table C-5.0-2 for list of analytes. The results for antimony are considered rejected (R) because the associated spike samples recovered less than 30%. The holding times were met. The results for thallium are considered estimated (J) because the results were less than the PQL, but greater than the MDL.

Request 9763R-1. General Engineering analyzed five samples for TAL metals. The results for antimony are considered not detected (U) because the results were less than five times the amount in the method blank. The result for antimony is considered estimated and biased low (J-) because the analyte was recovered below the LAL but greater than 30% in the associated spike sample. The holding times were met.

Request 9764R. General Engineering analyzed five samples for perchlorate. No target analytes were detected in the method blank. The result for perchlorate is considered estimated and biased high (J+) because the analyte was recovered above the upper acceptance level (UAL) but less than 150% in the associated spike sample. The holding times were met.

Request 9767R. General Engineering analyzed one sample for TAL metals. No target analytes were detected in the method blank. The result for several analytes is considered estimated and biased high

(J+) because the analyte was recovered above 150% in the associated spike samples, please refer to Table C-5.0-2 for list of analytes. The results for antimony are considered rejected (R) because the associated spike samples recovered less than 30%. The holding times were met. The result for cobalt and silver is considered estimated (J) because the result was less than the PQL, but greater than the MDL.

Request 9767R-1. General Engineering analyzed one sample for TAL metals. No target analytes were detected in the method blank. The result for antimony is considered estimated and biased low (J-) because the analyte was recovered below the LAL but greater than 30% in the associated spike sample. The holding times were met.

Request 9768R. General Engineering analyzed one sample for perchlorate. No target analytes were detected in the method blank. The holding times were met.

Request 9790R. General Engineering analyzed fourteen samples for TAL metals. The results for antimony are considered not detected (U) because the results were less than five times the amount in the method blank. The results for magnesium and potassium are considered estimated and biased high (J+) because the analytes were recovered above 150% in the associated spike samples. The results for barium are considered estimated and biased high (J+) because the analytes were recovered below the UAL but less than 150% in the associated spike sample. The holding times were met. The results for calcium, chromium, and lead are considered estimated (J) because both the sample and duplicate sample results were greater than or equal to five times the reporting limit (RL) and the duplicate relative percent difference (RPD) was greater than 35, please refer to Table C-5.0-2 for list of analytes. The results for several analytes are considered detected (J) because the results were less than the PQL, but greater than the MDL, please refer to Table C-5.0-2 for list of analytes.

Request 9791R. General Engineering analyzed fourteen samples for perchlorate. No target analytes were detected in the method blank. The holding times were met.

Request 293S. General Engineering analyzed four samples for TAL metals. The results for antimony are considered not detected (U) because the results were less than five times the amount in the method blank. The results for barium and potassium are considered estimated and biased high (J+) because the analytes were recovered above 150% in the associated spike samples. The results for lithium are considered rejected (R) because the associated spike samples recovered less than 30%. The holding times were met. The results for several analytes are considered estimated (J) because the results were less than the PQL, but greater than the MDL, please refer to Table C-5.0-2 for list of analytes.

Request 323S. Acculabs INC. analyzed three samples for TAL metals. No target analytes were detected in the method blank. The result for antimony is considered rejected (R) because the associated spike sample recovered less than 30%. The results for several analytes are considered estimated and biased low (J-) because the analytes were recovered below the LAL but greater than 30% in the associated spike sample, please refer to Table C-5.0-2 for list of analytes. The results for lead are considered estimated and biased high (J+) because the analytes were recovered above the UAL but less than 150% in the associated spike sample. The holding times were met. The results for several analytes are considered estimated (J) because the results were less than the PQL, but greater than the MDL, please refer to Table C-5.0-2 for list of analytes.

Request 324S. General Engineering analyzed three samples for perchlorate. No target analytes were detected in the method blank. The holding times were met. The result for perchlorate is considered estimated (J) because the result was less than the PQL, but greater than the MDL.

Request 398S. General Engineering analyzed four samples for perchlorate. No target analytes were detected in the method blank. The holding times were met. The result for perchlorate is considered estimated (J) because the result was less than the PQL, but greater than the MDL.

Request 399S. General Engineering analyzed four samples for TAL metals. The result for antimony is considered not detected (U) because the result was less than five times the amount in the method blank. The results for aluminum and mercury are considered estimated and biased high (J+) because the analytes were recovered above 150% in the associated spike samples. The results for several analytes are considered estimated (J) because both the sample and duplicate sample results were greater than or equal to five times the RL and the duplicate RPD was greater than 35. The holding times were met. The results for cobalt and vanadium are considered estimated (J) because the results were less than the PQL, but greater than the MDL.

Request 402S. General Engineering analyzed twelve samples for TAL_METALS. The results for antimony are considered not detected (U) because the results were less than five times the amount in the method blank. The reporting limits for mercury are considered estimated (UJ) because the analytes were recovered above 150% in the associated spike samples. The results for calcium and lead are considered estimated (J) because both the sample and duplicate sample results were greater than or equal to five times the RL and the duplicate RPD was greater than 35. The results for aluminum and mercury are considered estimated and biased high (J+) because the analytes were recovered above 150% in the associated spike samples. The holding times were met. The results for several analytes are considered estimated (J) because the results were less than the PQL, but greater than the MDL, please refer to Table C-5.0-2 for list of analytes.

Request 403S. General Engineering analyzed twelve samples for perchlorate and oxalate. No target analytes were detected in the method blank. The holding times were met. The results for perchlorate are considered estimated (J) because the results were less than the PQL, but greater than the MDL.

Request 454S. Severn Trent Laboratories, Inc. analyzed four samples for TAL metals. The results for several analytes are considered not detected (U) because the results were less than five times the amount in the method blank, please refer to Table C-5.0-2 for list of analytes. The results for several analytes are considered estimated and biased low (J-) because the associated LCSs were recovered below the lower warning limit but greater than or equal to the LAL, please refer to Table C-5.0-2 for list of analytes. The holding times were met. The results for several analytes are considered estimated (J) because the results were less than the PQL, but greater than the MDL, please refer to Table C-5.0-2 for list of analytes.

Request 456S. Severn Trent Laboratories, Inc. analyzed eleven samples for TAL metals. The results for several analytes are considered not detected (U) because the results were less than five times the amount in the method blank, please refer to Table C-5.0-2 for list of analytes. The results for several analytes are considered estimated and biased low (J-) because the associated LCSs were recovered below the lower warning limit but greater than or equal to the LAL. The result for thallium is considered estimated (J) because both the sample and duplicate sample result were greater than or equal to five times the RL and the duplicate RPD was greater than 35. The holding times were met. The results for cadmium are considered estimated (J) because the results were less than the PQL, but greater than the MDL.

Request 600S. Severn Trent Laboratories, Inc. analyzed three samples for TAL metals. No target analytes were detected in the method blank. The results/reporting limits for several analytes are considered estimated and biased low/estimated (J-/UJ) because the analytes were recovered below the LAL but greater than 30% in the associated spike samples; please refer to Table C-5.0-2 for list of

analytes. The results for chromium and manganese are considered rejected (R) because the associated spike samples recovered less than 30%. The results for several analytes are considered estimated (J) because both the sample and duplicate sample results were greater than or equal to five times the RL and the duplicate RPD was greater than 35. The holding times were met. The results for several analytes are considered estimated (J) because the results were less than the PQL, but greater than the MDL, please refer to Table C-5.0-2 for list of analytes.

C-5.2 Organic Data Review

The analytical results for organic samples collected at AOCs C-21-015, 21-030 and SWMU 21-024(f) are discussed below. See Table C-5.0-3 for more details.

Request 13246. Quanterra Environmental Services analyzed eight samples for VOCs and SVOCs.

- VOCs—No target analytes were detected in the blank. All initial & continuing calibration verifications met acceptance criteria. All surrogate recoveries met acceptance criteria. The extraction and analysis holding times were met.
- SVOCs—No target analytes were detected in the blank. All initial & continuing calibration verifications met acceptance criteria. All surrogate recoveries met acceptance criteria. The extraction and analysis holding times were met.

Request 15385. Environmental Sciences & Engineering, Inc. analyzed five samples for SVOCs.

- SVOCs—No target analytes were detected in the blank. All initial & continuing calibration verifications met acceptance criteria. All surrogate recoveries met acceptance criteria. The extraction and analysis holding times were met.

Request 15386. LANL Chemical Sciences & Technology analyzed five samples for VOCs.

- VOCs—No target analytes were detected in the blank. All initial & continuing calibration verifications met acceptance criteria. All surrogate recoveries met acceptance criteria. The extraction and analysis holding times were met.

Request 15406. Environmental Sciences & Engineering, Inc. analyzed four samples for SVOCs.

- SVOCs—No target analytes were detected in the blank. All initial & continuing calibration verifications met acceptance criteria. All surrogate recoveries met acceptance criteria. The extraction and analysis holding times were met.

Request 9744R. General Engineering Laboratories, Inc. analyzed four samples for VOCs.

- VOCs—No target analytes were detected in the blank. The result/reporting limit for several analytes is considered estimated (J/UJ) because the associated internal standard (IS) area count was less than 50% but greater than 10% of the previous continuing calibration standard, please refer to Table C-5.0-3 for list of analytes. All surrogate recoveries met acceptance criteria. The extraction and analysis holding times were met. The results for acetone and butanone [2-] are considered estimated (J) because the results were less than the PQL, but greater than the MDL.

Request 9758R. General Engineering Laboratories, Inc. analyzed nine samples for VOCs.

- VOCs—The results for acetone and methylene chloride are considered not detected (U) because the results were less than ten times the amount in the method blank. The results for benzene and

trimethylbenzene[1,3,5] are considered not detected (U) because the associated mass spectra did not meet method specifications. The result/reporting limits for several analytes are considered estimated (J/UJ) because the associated IS area counts were less than 50% but greater than 10% of the previous continuing calibration standard, please refer to Table C-5.0-3 for list of analytes. The results/reporting limits for trichlorofluoromethane are considered estimated (J/UJ) because the initial & continuing calibration exceeded criteria. All surrogate recoveries met acceptance criteria. The extraction and analysis holding times were met. The results for several analytes are considered estimated (J) because the results were less than the PQL, but greater than the MDL, please refer to Table C-5.0-3 for list of analytes.

Request 9762R. General Engineering analyzed five samples for VOCs.

- VOCs—No target analytes were detected in the blank. The results for acetone are considered estimated (J) because the initial & continuing calibration verification exceeded criteria. All surrogate recoveries met acceptance criteria. The extraction and analysis holding times were met. The result for butanone [2-] is considered estimated (J) because the result was less than the PQL, but greater than the MDL.

Request 9766R. General Engineering analyzed one sample for VOCs.

- VOCs—The result for acetone and methylene chloride is considered not detected (U) because the result was less than ten times the amount in the method blank. The result for trimethylbenzene [1,3,5-] is considered not detected (U) because the associated mass spectrum did not meet method specifications. All surrogate recoveries met acceptance criteria. The extraction and analysis holding times were met. The result for several analytes is considered estimated (J) because the result was less than the PQL, but greater than the MDL, please refer to Table C-5.0-3 for list of analytes.

Request 9789R. General Engineering analyzed fourteen samples for VOCs, SVOCs and PCBs.

- VOCs—No target analytes were detected in the blank. All initial & continuing calibration verifications met acceptance criteria. All surrogate recoveries met acceptance criteria. The extraction and analysis holding times were met.
- SVOCs—No target analytes were detected in the blank. All initial & continuing calibration verifications met acceptance criteria. All surrogate recoveries met acceptance criteria. The extraction and analysis holding times were met. The results for several analytes are considered estimated (J) because the results were less than the PQL, but greater than the MDL, please refer to Table C-5.0-3 for list of analytes.
- PCBs—No target analytes were detected in the blank. All initial & continuing calibration verifications met acceptance criteria. The reporting limit for several analytes is considered estimated (UJ) because the associated surrogate was recovered below the LAL but greater than or equal to 10% recovery, please refer to Table C-5.0-3 for list of analytes. The extraction and analysis holding times were met. The result for Aroclor-1016 is considered estimated (J) because the result was less than the PQL, but greater than the MDL.

Request 322S. Acculabs INC. analyzed three samples for VOCs.

- VOCs—The results for acetone are considered not detected (U) because the results were less than ten times the amount in the method blank. All initial & continuing calibration verifications met

acceptance criteria. All surrogate recoveries met acceptance criteria. The extraction and analysis holding times were met.

Request 397S. General Engineering analyzed four samples for VOCs.

- VOCs—No target analytes were detected in the blank. The result for dichlorodifluoromethane is considered not detected (U) because the associated mass spectrum did not meet method specifications. All surrogate recoveries met acceptance criteria. The extraction and analysis holding times were met. The results for several analytes are considered estimated (J) because the results were less than the PQL, but greater than the MDL, please refer to Table C-5.0-3 for list of analytes.

Request 401S. General Engineering analyzed twelve samples for SVOCs and PCBs.

- SVOCs—The results for diethyl phthalate are considered not detected (U) because the results were less than ten times the amount in the method blank. All initial & continuing calibration verifications met acceptance criteria. All surrogate recoveries met acceptance criteria. The extraction and analysis holding times were met. The results for several analytes are considered estimated (J) because the results were less than the PQL, but greater than the MDL, please refer to Table C-5.0-3 for list of analytes.
- PCBs—No target analytes were detected in the blank. All initial & continuing calibration verifications met acceptance criteria. All surrogate recoveries met acceptance criteria. The extraction and analysis holding times were met.

Request 599S. Severn Trent Laboratories, Inc. analyzed three samples for SVOCs.

- SVOCs—No target analytes were detected in the blank. The reporting limits for benzo(k)fluoranthene are considered estimated (UJ) because the initial & continuing calibration verification exceeded criteria. All surrogate recoveries met acceptance criteria. The extraction and analysis holding times were met.

Table C-5.0-3
Organic Chemical Data Quality Evaluation for AOCs C-21-015, 21-030 and SWMU 21-024(f)

Request Number	Location ID	Sample ID	Analytical Suite	Analyte	Explanation
9744R	21-11274	MD21-01-0218	VOC	Isopropyltoluene [4-]	The result for this analyte is considered estimated (J) because the associated internal standard (IS) area count was less than 50% but greater than 10% of the previous continuing calibration standard.
9744R	21-11274	MD21-01-0218	VOC	Bromobenzene, Butylbenzene[n-], Butylbenzene[sec-], Butylbenzene[tert-], Chlorotoluene[2-], Chlorotoluene[4-], Dibromo-3-chloropropane[1,2-], Dichlorobenzene[1,2-], Dichlorobenzene[1,3-], Dichlorobenzene[1,4-], Isopropylbenzene, Propylbenzene[1-], Tetrachloroethane[1,1,2,2-], Trichloropropane[1,2,3-], Trimethylbenzene[1,2,4-], Trimethylbenzene[1,3,5-]	The reporting limit for these analytes is considered estimated (UJ) because the associated IS area count was less than 50% but greater than 10% of the previous continuing calibration standard.
9744R	21-11274	MD21-01-0219	VOC	Acetone	The result for this analyte is considered estimated (J) because the result was less than the PQL, but greater than the MDL.
9744R	21-11274	MD21-01-0218	VOC	Butanone[2-]	The result for this analyte is considered estimated (J) because the result was less than the PQL, but greater than the MDL.
9758R	21-11275 21-11275 21-11276 21-11276 21-11277 21-11277 21-11278 21-11276 21-11278	MD21-01-0220 MD21-01-0221 MD21-01-0222 MD21-01-0223 MD21-01-0224 MD21-01-0225 MD21-01-0226 MD21-01-0227 MD21-01-0228	VOC	Acetone, Methylene Chloride	The results for these analytes are considered not detected (U) because the results were less than ten times the amount in the method blank.
9758R	21-11275 21-11276 21-11276 21-11277	MD21-01-0220 MD21-01-0222 MD21-01-0223 MD21-01-0224	VOC	Benzene	The results for this analyte are considered not detected (U) because the associated mass spectra did not meet method specifications.

Table C-5.0-3 (continued)

Request Number	Location ID	Sample ID	Analytical Suite	Analyte	Explanation
9758R	21-11276	MD21-01-0222	VOC	Trimethylbenzene[1,3,5-]	The result for this analyte is considered not detected (U) because the associated mass spectrum did not meet method specifications.
9758R	21-11275	MD21-01-0220	VOC	Isopropyltoluene[4-]	The result for this analyte is considered estimated (J) because the associated IS area count was less than 50% but greater than 10% of the previous continuing calibration standard.
9758R	21-11275 21-11276	MD21-01-0220 MD21-01-0223	VOC	Bromobenzene, Butylbenzene[n-], Butylbenzene[sec-], Butylbenzene[tert-], Chlorotoluene[2-], Chlorotoluene[4-], Dibromo-3-chloropropane[1,2-], Dichlorobenzene[1,2-], Dichlorobenzene[1,3-], Dichlorobenzene[1,4-], Isopropylbenzene, Propylbenzene[1-], Tetrachloroethane[1,1,2,2-], Trichloropropane[1,2,3-], Trimethylbenzene[1,2,4-], Trimethylbenzene[1,3,5-]	The reporting limits for these analytes are considered estimated (UJ) because the associated IS area counts were less than 50% but greater than 10% of the previous continuing calibration standard.
9758R	21-11276	MD21-01-0223	VOC	Isopropyltoluene[4-]	The reporting limit for this analyte is considered estimated (UJ) because the associated IS area count was less than 50% but greater than 10% of the previous continuing calibration standard.
9758R	21-11275 21-11276 21-11276	MD21-01-0220 MD21-01-0222 MD21-01-0223	VOC	Trichlorofluoromethane	The results for this analyte are considered estimated (J) because the initial & continuing calibration exceeded criteria.
9758R	21-11275 21-11277 21-11277 21-11278 21-11276 21-11278	MD21-01-0221 MD21-01-0224 MD21-01-0225 MD21-01-0226 MD21-01-0227 MD21-01-0228	VOC	Trichlorofluoromethane	The reporting limits for this analyte are considered estimated (UJ) because the initial & continuing calibration exceeded criteria.

Table C-5.0-3 (continued)

Request Number	Location ID	Sample ID	Analytical Suite	Analyte	Explanation
9758R	21-11276 21-11276 21-11278 21-11276 21-11278	MD21-01-0222 MD21-01-0223 MD21-01-0226 MD21-01-0227 MD21-01-0228	VOC	Butanone[2-]	The results for this analyte are considered estimated (J) because the results were less than the PQL, but greater than the MDL.
9758R	21-11275 21-11275 21-11276 21-11276 21-11277 21-11277 21-11276 21-11278	MD21-01-0220 MD21-01-0221 MD21-01-0222 MD21-01-0223 MD21-01-0224 MD21-01-0225 MD21-01-0227 MD21-01-0228	VOC	Chloromethane	The results for this analyte are considered estimated (J) because the results were less than the PQL, but greater than the MDL.
9758R	21-11277 21-11278	MD21-01-0224 MD21-01-0228	VOC	Isopropyltoluene[4-]	The results for this analyte are considered estimated (J) because the results were less than the PQL, but greater than the MDL.
9758R	21-11278	MD21-01-0228	VOC	Toluene	The result for this analyte is considered estimated (J) because the result was less than the PQL, but greater than the MDL.
9762R	21-11279 21-11280 21-11280 21-11281 21-11281	MD21-01-0230 MD21-01-0231 MD21-01-0232 MD21-01-0234 MD21-01-0235	VOC	Acetone	The results for this analyte are considered estimated (J) because the initial & continuing calibration exceeded criteria.
9762R	21-11281	MD21-01-0234	VOC	Butanone[2-]	The result for this analyte is considered estimated (J) because the result was less than the PQL, but greater than the MDL.
9766R	21-11279	MD21-01-0229	VOC	Acetone, Methylene Chloride	The result for these analytes is considered not detected (U) because the result was less than ten times the method blank.
9766R	21-11279	MD21-01-0229	VOC	Trimethylbenzene[1,3,5-]	The result for this analyte is considered not detected (U) because the associated mass spectrum did not meet method specifications.
9766R	21-11279	MD21-01-0229	VOC	Butanone[2-], Chloromethane, Hexanone[2-], Isopropyltoluene[4-], Toluene	The result for these analytes is considered estimated (J) because the result was less than the PQL, but greater than the MDL.

Table C-5.0-3 (continued)

Request Number	Location ID	Sample ID	Analytical Suite	Analyte	Explanation
9789R	21-11283 21-11285	MD21-01-0285 MD21-01-0289	SVOC	Anthracene	The results for this analyte are considered estimated (J) because the results were less than the PQL, but greater than the MDL.
9789R	21-11282 21-11283	MD21-01-0283 MD21-01-0285	SVOC	Benzo(a)anthracene	The results for this analyte are considered estimated (J) because the results were less than the PQL, but greater than the MDL.
9789R	21-11282 21-11283 21-11283 21-11284 21-11284 21-11285 21-11285 21-11286 21-11286 21-11288	MD21-01-0283 MD21-01-0285 MD21-01-0286 MD21-01-0287 MD21-01-0288 MD21-01-0289 MD21-01-0290 MD21-01-0291 MD21-01-0292 MD21-01-0296	SVOC	Bis(2-ethylhexyl)phthalate	The results for this analyte are considered estimated (J) because the results were less than the PQL, but greater than the MDL.
9789R	21-11285	MD21-01-0289	SVOC	Fluorene, Butylbenzylphthalate, Dibenzofuran, Di-n-phthalate	The result for these analytes is considered estimated (J) because the result was less than the PQL, but greater than the MDL.
9789R	21-11283	MD21-01-0285	SVOC	Chrysene	The result for this analyte is considered estimated (J) because the result was less than the PQL, but greater than the MDL.
9789R	21-11283 21-11284	MD21-01-0285 MD21-01-0287	SVOC	Fluoranthene, Pyrene	The results for these analytes are considered estimated (J) because the results were less than the PQL, but greater than the MDL.
9789R	21-11282 21-11283 21-11284	MD21-01-0283 MD21-01-0285 MD21-01-0287	SVOC	Phenanthrene	The results for this analyte are considered estimated (J) because the results were less than the PQL, but greater than the MDL.
9789R	21-11286	MD21-01-0286	PCBs	Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260	The reporting limit for these analytes is considered estimated (UJ) because the associated surrogate was recovered below the LAL but greater than or equal to 10% recovery.

Table C-5.0-3 (continued)

Request Number	Location ID	Sample ID	Analytical Suite	Analyte	Explanation
9789R	21-11284	MD21-01-0287	PCBs	Aroclor-1016	The result for this analyte is considered estimated (J) because the result was less than the PQL, but greater than the MDL.
322S	21-11294 21-11294 21-11294	MD21-01-0242 MD21-01-0243 MD21-01-0244	VOC	Acetone	The results for this analyte are considered not detected (U) because the results were less than ten times the amount in the method blank.
397S	21-11295	MD21-01-0236	VOC	Dichlorodifluoromethane	The result for this analyte is considered not detected (U) because the associated mass spectrum did not meet method specifications.
397S	21-11295	MD21-01-0237	VOC	Acetone, Dichlorodifluoromethane	The result for these analytes is considered estimated (J) because the result was less than the PQL, but greater than the MDL.
397S	21-11295	MD21-01-0236	VOC	Benzene	The result for this analyte is considered estimated (J) because the result was less than the PQL, but greater than the MDL.
397S	21-11295	MD21-01-0238	VOC	Ethylbenzene, Styrene, Toluene, Xylene[1,3-] + Xylene[1,4-]	The result for these analytes is considered estimated (J) because the result was less than the PQL, but greater than the MDL.
401S	21-11291 21-11291 21-11291 21-11291 21-11291 21-11292 21-11292 21-11292 21-11292 21-11293 21-11290 21-11289	MD21-01-0532 MD21-01-0533 MD21-01-0534 MD21-01-0535 MD21-01-0536 MD21-01-0537 MD21-01-0538 MD21-01-0539 MD21-01-0540 MD21-01-0541 MD21-01-0542 MD21-01-0543	SVOC	Diethylphthalate	The results for this analyte are considered not detected (U) because the results were less than ten times the amount in the method blank.
401S	21-11290	MD21-01-0542	SVOC	Benzo(k)fluoranthene, Chrysene	The result for these analytes is considered estimated (J) because the result was less than the PQL, but greater than the MDL.

Table C-5.0-3 (continued)

Request Number	Location ID	Sample ID	Analytical Suite	Analyte	Explanation
401S	21-11289	MD21-01-0543	SVOC	Bis(2-chloroethyl)ether	The result for this analyte is considered estimated (J) because the result was less than the PQL, but greater than the MDL.
401S	21-11291	MD21-01-0532	SVOC	Chlorophenol[2-], Dichlorobenzene[1,3-]	The result for these analytes is considered estimated (J) because the result was less than the PQL, but greater than the MDL.
401S	21-11292	MD21-01-0539	SVOC	Dichlorobenzene[1,4-]	The result for this analyte is considered estimated (J) because the result was less than the PQL, but greater than the MDL.
401S	21-11293	MD21-01-0541	SVOC	Fluoranthene	The result for this analyte is considered estimated (J) because the result was less than the PQL, but greater than the MDL.
599S	21-11449 21-11450 21-11451	MD21-02-0021 MD21-02-0022 MD21-02-0023	SVOC	Benzo(k)fluoranthene	The reporting limits for this analyte are considered estimated (UJ) because the initial & continuing calibration verification exceeded criteria.

C-5.3 Radionuclide Data Review

Radionuclides qualified as not detected (U) because the sample concentrations were less than the minimum detectable activity (MDA) and those qualified because the associated sample concentration was less than 3 times the 1-sigma total propagated uncertainty (TPU) are summarized in Table C-5.0-4. These radionuclides are not repeated in the text below. Rejected samples are summarized in Table C-5.0-4a.

The analytical results for radionuclide samples collected at AOCs C-21-015, 21-030 and SWMU 21-024(f) are discussed below.

Request 15389. Rust Geotech analyzed five samples for radionuclides. The results for several analytes are considered rejected (R) because the MDA documentation is missing. Validation cannot proceed without this information. Please refer to Table C-5.0-4a for list of analytes.

Request 15413. Rust Geotech analyzed four samples for radionuclides. The results for several analytes are considered rejected (R) because the MDA documentation is missing. Validation cannot proceed without this information. Please refer to Table C-5.0-4a for list of analytes.

Table C-5.0-4
Radionuclide Data Quality Evaluation for AOCs C-21-015, 21-030 and SWMU 21-024(f)

Request Number	Location ID	Sample ID	Analyte Suite	Analyte	Explanation
13247	21-01431 21-01431 21-01431 21-01432 21-01432 21-01433 21-01433 21-01433	AAA1095 AAA1096 AAA1097 AAA1100 AAA1101 AAA1102 AAA1103 AAA1104	Americium-241	Americium-241	The results for this analyte are considered not detected (U) because the results were less than 3 times the 1-sigma total propagated uncertainty (TPU).
13247	21-01431 21-01431 21-01431 21-01432 21-01432 21-01433 21-01433 21-01433	AAA1095 AAA1096 AAA1097 AAA1100 AAA1101 AAA1102 AAA1103 AAA1104	Isotopic Plutonium	Plutonium-238	The results for this analyte are considered not detected (U) because the results were less than 3 times the 1-sigma TPU.
13247	21-01431 21-01431 21-01431 21-01432 21-01432 21-01433 21-01433 21-01433	AAA1095 AAA1096 AAA1097 AAA1100 AAA1101 AAA1102 AAA1103 AAA1104	Strontium-90	Strontium-90	The results for this analyte are considered not detected (U) because the results were less than 3 times the 1-sigma TPU.
13247	21-01431 21-01431 21-01432 21-01433 21-01433	AAA1096 AAA1097 AAA1101 AAA1103 AAA1104	Isotopic Plutonium	Plutonium-239	The results for this analyte are considered not detected (U) because the results were less than 3 times the 1-sigma TPU.
13247	21-01431	AAA1096	Isotopic Thorium	Thorium-230	The result for this analyte is considered not detected (U) because the result was less than 3 times the 1-sigma TPU.
13247	21-01431 21-01432 21-01432 21-01433	AAA1096 AAA1100 AAA1101 AAA1104	Tritium	Tritium	The results for this analyte are considered not detected (U) because the results were less than 3 times the 1-sigma TPU.
9757R	21-11273 21-11274	MD21-01-0217 MD21-01-0218	Americium-241	Americium-241	The results for this analyte are considered not detected (U) because the results were less than 3 times the 1-sigma TPU.
9757R	21-11273	MD21-01-0217	Isotopic Uranium	Uranium-235	The result for this analyte is considered not detected (U) because the result was less than 3 times the 1-sigma TPU.

Table C-5.0-4 (continued)

Request Number	Location ID	Sample ID	Analyte Suite	Analyte	Explanation
9757R	21-11274	MD21-01-0219	Americium-241	Americium-241	The result for this analyte is considered not detected (U) because the sample concentration was less than the method detectable activity (MDA).
9757R	21-11273 21-11273 21-11274 21-11274	MD21-01-0215 MD21-01-0217 MD21-01-0218 MD21-01-0219	Gamma Spectroscopy	Cesium-134, Cobalt-60, Europium-152, Ruthenium-106, Sodium-22	The results for these analytes are considered not detected (U) because the sample concentrations were less than the MDA.
9757R	21-11273 21-11274 21-11274	MD21-01-0217 MD21-01-0218 MD21-01-0219	Gamma Spectroscopy	Cesium-137	The results for this analyte are considered not detected (U) because the sample concentrations were less than the MDA.
9757R	21-11273 21-11274 21-11274	MD21-01-0215 MD21-01-0218 MD21-01-0219	Isotopic Uranium	Uranium-235	The results for this analyte are considered not detected (U) because the sample concentrations were less than the MDA.
9761R	21-11276 21-11277 21-11276 21-11278	MD21-01-0222 MD21-01-0224 MD21-01-0227 MD21-01-0228	Americium-241	Americium-241	The results for this analyte are considered not detected (U) because the results were less than 3 times the 1-sigma TPU.
9761R	21-11275 21-11278	MD21-01-0221 MD21-01-0228	Gamma Spectroscopy	Cesium-137	The results for this analyte are considered not detected (U) because the results were less than 3 times the 1-sigma TPU.
9761R	21-11276	MD21-01-0227	Gamma Spectroscopy	Uranium-235	The result for this analyte is considered not detected (U) because the result was less than 3 times the 1-sigma TPU.
9761R	21-11275 21-11275 21-11276 21-11277 21-11278	MD21-01-0220 MD21-01-0221 MD21-01-0223 MD21-01-0225 MD21-01-0226	Americium-241	Americium-241	The results for this analyte are considered not detected (U) because the sample concentrations were less than the MDA.
9761R	21-11275 21-11275 21-11276 21-11276 21-11277 21-11277 21-11278 21-11276 21-11278	MD21-01-0220 MD21-01-0221 MD21-01-0222 MD21-01-0223 MD21-01-0224 MD21-01-0225 MD21-01-0226 MD21-01-0227 MD21-01-0228	Gamma Spectroscopy	Cesium-134, Cobalt-60, Europium-152, Ruthenium-106, Sodium-22	The results for these analytes are considered not detected (U) because the sample concentrations were less than the MDA.
9761R	21-11276 21-11277 21-11277 21-11278 21-11276	MD21-01-0222 MD21-01-0224 MD21-01-0225 MD21-01-0226 MD21-01-0227	Gamma Spectroscopy	Cesium-137	The results for this analyte are considered not detected (U) because the sample concentrations were less than the MDA.

Table C-5.0-4 (continued)

Request Number	Location ID	Sample ID	Analyte Suite	Analyte	Explanation
9761R	21-11276 21-11276	MD21-01-0223 MD21-01-0227	Tritium	Tritium	The results for this analyte are considered not detected (U) because the sample concentrations were less than the MDA.
9761R	21-11275 21-11275 21-11276 21-11276 21-11277 21-11278 21-11278	MD21-01-0220 MD21-01-0221 MD21-01-0222 MD21-01-0223 MD21-01-0224 MD21-01-0226 MD21-01-0228	Isotopic Uranium	Uranium-235	The results for this analyte are considered not detected (U) because the sample concentrations were less than the MDA.
9765R	21-11279 21-11280 21-11280 21-11281	MD21-01-0230 MD21-01-0231 MD21-01-0232 MD21-01-0235	Americium-241	Americium-241	The results for this analyte are considered not detected (U) because the sample concentrations were less than the MDA.
9765R	21-11279 21-11280 21-11280 21-11281 21-11281	MD21-01-0230 MD21-01-0231 MD21-01-0232 MD21-01-0234 MD21-01-0235	Gamma Spectroscopy	Cesium-134, Cesium-137, Cobalt-60, Europium-152, Ruthenium-106, Sodium-22	The results for these analytes are considered not detected (U) because the sample concentrations were less than the MDA.
9765R	21-11279 21-11280 21-11280 21-11281 21-11281	MD21-01-0230 MD21-01-0231 MD21-01-0232 MD21-01-0234 MD21-01-0235	Isotopic Uranium	Uranium-235	The results for this analyte are considered not detected (U) because the sample concentrations were less than the MDA.
9765R	21-11280 21-11281	MD21-01-0232 MD21-01-0235	Tritium	Tritium	The results for this analyte are considered not detected (U) because the sample concentrations were less than the MDA.
9769R	21-11279	MD21-01-0229	Americium-241	Americium-241	The result for this analyte is considered not detected (U) because the result was less than 3 times the 1-sigma TPU.
9769R	21-11279	MD21-01-0229	Gamma Spectroscopy	Cesium-137	The result for this analyte is considered not detected (U) because the result was less than 3 times the 1-sigma TPU.
9769R	21-11279	MD21-01-0229	Americium-241	Americium-241	The result for this analyte is considered not detected (U) because the sample concentration was less than the MDA.
9769R	21-11279	MD21-01-0229	Gamma Spectroscopy	Cobalt-60, Europium-152, Ruthenium-106, Sodium-22	The result for these analytes is considered not detected (U) because the sample concentration was less than the MDA.

Table C-5.0-4 (continued)

Request Number	Location ID	Sample ID	Analyte Suite	Analyte	Explanation
9769R	21-11279	MD21-01-0229	Isotopic Uranium	Uranium-235	The result for this analyte is considered not detected (U) because the sample concentration was less than the MDA.
9792R	21-11282 21-11282 21-11283 21-11283 21-11284 21-11284 21-11285 21-11285 21-11286 21-11286 21-11287 21-11287 21-11288 21-11288	MD21-01-0283 MD21-01-0284 MD21-01-0285 MD21-01-0286 MD21-01-0287 MD21-01-0288 MD21-01-0289 MD21-01-0290 MD21-01-0291 MD21-01-0292 MD21-01-0293 MD21-01-0294 MD21-01-0295 MD21-01-0296	Americium-241	Americium-241	The results for this analyte are considered not detected (U) because the sample concentrations were less than the MDA.
9792R	21-11282 21-11282 21-11283 21-11283 21-11284 21-11284 21-11285 21-11285 21-11286 21-11286 21-11287 21-11287 21-11288 21-11288	MD21-01-0283 MD21-01-0284 MD21-01-0285 MD21-01-0286 MD21-01-0287 MD21-01-0288 MD21-01-0289 MD21-01-0290 MD21-01-0291 MD21-01-0292 MD21-01-0293 MD21-01-0294 MD21-01-0295 MD21-01-0296	Gamma Spectroscopy	Cesium-134, Cesium-137, Cobalt-60, Europium-152, Ruthenium-106, Sodium-22	The results for these analytes are considered not detected (U) because the sample concentrations were less than the MDA.
9792R	21-11282 21-11282 21-11283 21-11283 21-11284 21-11284 21-11285 21-11285 21-11286 21-11286 21-11287 21-11287 21-11288 21-11288	MD21-01-0283 MD21-01-0284 MD21-01-0285 MD21-01-0286 MD21-01-0287 MD21-01-0288 MD21-01-0289 MD21-01-0290 MD21-01-0291 MD21-01-0292 MD21-01-0293 MD21-01-0294 MD21-01-0295 MD21-01-0296	Strontium-90	Strontium-90	The results for this analyte are considered not detected (U) because the sample concentrations were less than the MDA.

Table C-5.0-4 (continued)

Request Number	Location ID	Sample ID	Analyte Suite	Analyte	Explanation
9792R	21-11282 21-11282 21-11283 21-11283 21-11284 21-11284 21-11285 21-11285 21-11286 21-11286 21-11287 21-11287 21-11288 21-11288	MD21-01-0283 MD21-01-0284 MD21-01-0285 MD21-01-0286 MD21-01-0287 MD21-01-0288 MD21-01-0289 MD21-01-0290 MD21-01-0291 MD21-01-0292 MD21-01-0293 MD21-01-0294 MD21-01-0295 MD21-01-0296	Isotopic Uranium	Uranium-235	The results for this analyte are considered not detected (U) because the sample concentrations were less than the MDA.
294S	21-11297 21-11296	MD21-01-0428 MD21-01-0431	Isotopic Plutonium	Plutonium-238	The results for this analyte are considered not detected (U) because the results were less than 3 times the 1-sigma TPU.
294S	21-11298	MD21-01-0433	Isotopic Thorium	Thorium-230	The result for this analyte is considered not detected (U) because the result was less than 3 times the 1-sigma TPU.
294S	21-11298	MD21-01-0433	Isotopic Uranium	Uranium-235	The result for this analyte is considered not detected (U) because the sample concentration was less than the MDA.
325S	21-11294	MD21-01-0243	Isotopic Uranium	Uranium-235	The result for this analyte is considered not detected (U) because the result was less than 3 times the 1-sigma TPU.
325S	21-11294 21-11294 21-11294	MD21-01-0242 MD21-01-0243 MD21-01-0244	Americium-241	Americium-241	The results for this analyte are considered not detected (U) because the sample concentrations were less than the MDA.
325S	21-11294 21-11294 21-11294	MD21-01-0242 MD21-01-0243 MD21-01-0244	Isotopic Plutonium	Plutonium-238, Plutonium-239	The results for these analytes are considered not detected (U) because the sample concentrations were less than the MDA.
325S	21-11294 21-11294 21-11294	MD21-01-0242 MD21-01-0243 MD21-01-0244	Tritium	Tritium	The results for this analyte are considered not detected (U) because the sample concentrations were less than the MDA.
400S	21-11295 21-11295	MD21-01-0237 MD21-01-0239	Americium-241	Americium-241	The results for this analyte are considered not detected (U) because the results were less than 3 times the 1-sigma TPU.

Table C-5.0-4 (continued)

Request Number	Location ID	Sample ID	Analyte Suite	Analyte	Explanation
400S	21-11295 21-11295 21-11295 21-11295	MD21-01-0236 MD21-01-0237 MD21-01-0238 MD21-01-0239	Gamma Spectroscopy	Cesium-134, Cesium-137, Cobalt-60, Europium-152, Ruthenium-106, Sodium-22	The results for these analytes are considered not detected (U) because the sample concentrations were less than the MDA.
400S	21-11295 21-11295 21-11295 21-11295	MD21-01-0236 MD21-01-0237 MD21-01-0238 MD21-01-0239	Tritium	Tritium	The results for this analyte are considered not detected (U) because the sample concentrations were less than the MDA.
400S	21-11295 21-11295 21-11295 21-11295	MD21-01-0236 MD21-01-0237 MD21-01-0238 MD21-01-0239	Gamma Spectroscopy	Uranium-235	The results for this analyte are considered not detected (U) because the sample concentrations were less than the MDA.
404S	21-11291	MD21-01-0532	Gamma Spectroscopy	Uranium-235	The result for this analyte is considered not detected (U) because the result was less than 3 times the 1-sigma TPU.
404S	21-11291 21-11291 21-11291 21-11291 21-11291 21-11292 21-11292 21-11292 21-11292 21-11293 21-11290 21-11289	MD21-01-0532 MD21-01-0533 MD21-01-0534 MD21-01-0535 MD21-01-0536 MD21-01-0537 MD21-01-0538 MD21-01-0539 MD21-01-0540 MD21-01-0541 MD21-01-0542 MD21-01-0543	Gamma Spectroscopy	Americium-241	The results for this analyte are considered not detected (U) because the sample concentrations were less than the MDA.
404S	21-11291 21-11291 21-11291 21-11291 21-11291 21-11292 21-11292 21-11292 21-11292 21-11293 21-11290 21-11289	MD21-01-0532 MD21-01-0533 MD21-01-0534 MD21-01-0535 MD21-01-0536 MD21-01-0537 MD21-01-0538 MD21-01-0539 MD21-01-0540 MD21-01-0541 MD21-01-0542 MD21-01-0543	Gamma Spectroscopy	Cesium-134, Cesium-137, Cobalt-60, Europium-152, Ruthenium-106, Sodium-22	The results for these analytes are considered not detected (U) because the sample concentrations were less than the MDA.

Table C-5.0-4 (continued)

Request Number	Location ID	Sample ID	Analyte Suite	Analyte	Explanation
404S	21-11291 21-11291 21-11291 21-11291 21-11291 21-11292 21-11292 21-11292 21-11292 21-11293 21-11290 21-11289	MD21-01-0532 MD21-01-0533 MD21-01-0534 MD21-01-0535 MD21-01-0536 MD21-01-0537 MD21-01-0538 MD21-01-0539 MD21-01-0540 MD21-01-0541 MD21-01-0542 MD21-01-0543	Strontium-90	Strontium-90	The results for this analyte are considered not detected (U) because the sample concentrations were less than the MDA.
404S	21-11291 21-11291 21-11291 21-11291 21-11292 21-11292 21-11292 21-11292 21-11293 21-11290 21-11289	MD21-01-0533 MD21-01-0534 MD21-01-0535 MD21-01-0536 MD21-01-0537 MD21-01-0538 MD21-01-0539 MD21-01-0540 MD21-01-0541 MD21-01-0542 MD21-01-0543	Gamma Spectroscopy	Uranium-235	The results for this analyte are considered not detected (U) because the sample concentrations were less than the MDA.
455S	21-11430	MD21-02-0002	Isotopic Thorium	Thorium-235	The result for this analyte is considered not detected (U) because the result was less than five times the amount in the method blank.
455S	21-11430	MD21-02-0002	Isotopic Plutonium	Plutonium-239	The result for this analyte is considered estimated and biased low (J-) because the associated LCS failed low but greater than 10%.
455S	21-11429 21-11430 21-11431 21-11432	MD21-02-0001 MD21-02-0002 MD21-02-0003 MD21-02-0004	Americium-241	Americium-241	The results for this analyte are considered not detected (U) because the results were less than 3 times the 1-sigma TPU.
455S	21-11431	MD21-02-0003	Isotopic Plutonium	Plutonium-238	The result for this analyte is considered not detected (U) because the result was less than 3 times the 1-sigma TPU.
455S	21-11429 21-11432	MD21-02-0001 MD21-02-0004	Isotopic Plutonium	Plutonium-239	The results for this analyte are considered not detected (U) because the results were less than 3 times the 1-sigma TPU.
455S	21-11430 21-11431 21-11432	MD21-02-0002 MD21-02-0003 MD21-02-0004	Isotopic Uranium	Uranium-235	The results for this analyte are considered not detected (U) because the results were less than 3 times the 1-sigma TPU.

Table C-5.0-4 (continued)

Request Number	Location ID	Sample ID	Analyte Suite	Analyte	Explanation
455S	21-11429 21-11430 21-11432	MD21-02-0001 MD21-02-0002 MD21-02-0004	Isotopic Plutonium	Plutonium-238	The results for this analyte are considered not detected (U) because the sample concentrations were less than the MDA.
455S	21-11431	MD21-02-0003	Isotopic Plutonium	Plutonium-239	The result for this analyte is considered not detected (U) because the sample concentration was less than the MDA.
455S	21-11429 21-11430 21-11431 21-11432	MD21-02-0001 MD21-02-0002 MD21-02-0003 MD21-02-0004	Tritium	Tritium	The results for this analyte are considered not detected (U) because the sample concentrations were less than the MDA.
455S	21-11429	MD21-02-0001	Isotopic Uranium	Uranium-235	The result for this analyte is considered not detected (U) because the sample concentration was less than the MDA.
457S	21-11433 21-11434 21-11437 21-11439	MD21-02-0005 MD21-02-0006 MD21-02-0011 MD21-02-0014	Isotopic Plutonium	Plutonium-239	The results for this analyte are considered estimated and biased low (J-) because the associated LCSs failed low but greater than 10%.
457S	21-11433 21-11434 21-11436 21-11437 21-11437 21-11438 21-11439 21-11439	MD21-02-0005 MD21-02-0006 MD21-02-0009 MD21-02-0010 MD21-02-0011 MD21-02-0012 MD21-02-0014 MD21-02-0015	Americium-241	Americium-241	The results for this analyte are considered not detected (U) because the results were less than 3 times the 1-sigma TPU.
457S	21-11438	MD21-02-0012	Isotopic Plutonium	Plutonium-238	The result for this analyte is considered not detected (U) because the result was less than 3 times the 1-sigma TPU.
457S	21-11435 21-11436 21-11437 21-11438 21-11438 21-11439	MD21-02-0008 MD21-02-0009 MD21-02-0010 MD21-02-0012 MD21-02-0013 MD21-02-0015	Isotopic Plutonium	Plutonium-239	The results for this analyte are considered not detected (U) because the results were less than 3 times the 1-sigma TPU.
457S	21-11433 21-11434 21-11435 21-11435 21-11436 21-11437 21-11437 21-11438 21-11438 21-11439 21-11439	MD21-02-0005 MD21-02-0006 MD21-02-0007 MD21-02-0008 MD21-02-0009 MD21-02-0010 MD21-02-0011 MD21-02-0012 MD21-02-0013 MD21-02-0014 MD21-02-0015	Isotopic Uranium	Uranium-235	The results for this analyte are considered not detected (U) because the results were less than 3 times the 1-sigma TPU.

Table C-5.0-4 (continued)

Request Number	Location ID	Sample ID	Analyte Suite	Analyte	Explanation
457S	21-11435 21-11435 21-11438	MD21-02-0007 MD21-02-0008 MD21-02-0013	Americium-241	Americium-241	The results for this analyte are considered not detected (U) because the sample concentrations were less than the MDA.
457S	21-11433 21-11434 21-11435 21-11435 21-11436 21-11437 21-11437 21-11438 21-11439 21-11439	MD21-02-0005 MD21-02-0006 MD21-02-0007 MD21-02-0008 MD21-02-0009 MD21-02-0010 MD21-02-0011 MD21-02-0013 MD21-02-0014 MD21-02-0015	Isotopic Plutonium	Plutonium-238	The results for this analyte are considered not detected (U) because the sample concentrations were less than the MDA.
457S	21-11435	MD21-02-0007	Isotopic Plutonium	Plutonium-239	The result for this analyte is considered not detected (U) because the sample concentration was less than the MDA.
457S	21-11433 21-11434 21-11435 21-11435 21-11436 21-11437 21-11437 21-11438 21-11438 21-11439 21-11439	MD21-02-0005 MD21-02-0006 MD21-02-0007 MD21-02-0008 MD21-02-0009 MD21-02-0010 MD21-02-0011 MD21-02-0012 MD21-02-0013 MD21-02-0014 MD21-02-0015	Tritium	Tritium	The results for this analyte are considered not detected (U) because the sample concentrations were less than the MDA.
601S	21-11449	MD21-02-0021	Americium-241	Americium-241	The result for this analyte is considered not detected (U) because the result was less than 3 times the 1-sigma TPU.
601S	21-11449 21-11450	MD21-02-0021 MD21-02-0022	Tritium	Tritium	The results for this analyte are considered not detected (U) because the results were less than 3 times the 1-sigma TPU.
601S	21-11450 21-11451	MD21-02-0022 MD21-02-0023	Americium-241	Americium-241	The results for this analyte are considered not detected (U) because the sample concentrations were less than the MDA.
601S	21-11449 21-11450 21-11451	MD21-02-0021 MD21-02-0022 MD21-02-0023	Gamma Spectroscopy	Cesium-134, Cesium-137, Cobalt-60, Europium-152, Ruthenium-106	The results for these analytes are considered not detected (U) because the sample concentrations were less than the MDA.
601S	21-11449 21-11450 21-11451	MD21-02-0021 MD21-02-0022 MD21-02-0023	Isotopic Uranium	Uranium-235	The results for this analyte are considered not detected (U) because the sample concentrations were less than the MDA.

Table C-5.0-4 (continued)

Request Number	Location ID	Sample ID	Analyte Suite	Analyte	Explanation
601S	21-11451	MD21-02-0023	Tritium	Tritium	The result for this analyte is considered not detected (U) because the sample concentration was less than the MDA.
1195S	21-11287 21-11287 21-11293 21-11293 21-11291 21-11291 21-11283 21-11283 21-11284 21-11284 21-11284	MD21-02-49498 MD21-02-49499 MD21-02-49501 MD21-02-49502 MD21-02-49503 MD21-02-49504 MD21-02-49505 MD21-02-49506 MD21-02-49507 MD21-02-49508 MD21-02-49509	Isotopic Plutonium	Plutonium-238	The results for this analyte are considered not detected (U) because the sample concentrations were less than the MDA.
1195S	21-11287 21-11287 21-11293 21-11291 21-11291 21-11283 21-11284 21-11284 21-11284	MD21-02-49498 MD21-02-49499 MD21-02-49502 MD21-02-49503 MD21-02-49504 MD21-02-49506 MD21-02-49507 MD21-02-49508 MD21-02-49509	Isotopic Plutonium	Plutonium-239	The results for this analyte are considered not detected (U) because the sample concentrations were less than the MDA.
1195S	21-11287 21-11293 21-11284 21-11284	MD21-02-49499 MD21-02-49502 MD21-02-49507 MD21-02-49508	Tritium	Tritium	The results for this analyte are considered not detected (U) because the sample concentrations were less than the MDA.
1530S	21-11274	MD21-03-50281	Isotopic Plutonium	Plutonium-239	The result for this analyte is considered not detected (U) because the result was less than 3 times the 1-sigma TPU.
1530S	21-11273 21-11273 21-11274 21-11274 21-11276 21-11276	MD21-03-50279 MD21-03-50280 MD21-03-50281 MD21-03-50282 MD21-03-50283 MD21-03-50284	Isotopic Plutonium	Plutonium-238	The results for this analyte are considered not detected (U) because the sample concentrations were less than the MDA.
1530S	21-11273 21-11274 21-11276	MD21-03-50279 MD21-03-50282 MD21-03-50284	Isotopic Plutonium	Plutonium-239	The results for this analyte are considered not detected (U) because the sample concentrations were less than the MDA.
1531S	21-11275 21-11275 21-11277 21-11277 21-11277	MD21-03-50286 MD21-03-50287 MD21-03-50288 MD21-03-50289 MD21-03-50290	Isotopic Plutonium	Plutonium-238	The results for this analyte are considered not detected (U) because the sample concentrations were less than the MDA.

Table C-5.0-4 (continued)

Request Number	Location ID	Sample ID	Analyte Suite	Analyte	Explanation
1531S	21-11275 21-11275 21-11277	MD21-03-50286 MD21-03-50287 MD21-03-50290	Isotopic Plutonium	Plutonium-239	The results for this analyte are considered not detected (U) because the sample concentrations were less than the MDA.
1532S	21-11281	MD21-03-50298	Isotopic Plutonium	Plutonium-238	The result for this analyte is considered not detected (U) because the result was less than 3 times the 1-sigma TPU.
1532S	21-11280 21-11439 21-11439 21-11280 21-11279 21-11279 21-11281	MD21-03-50292 MD21-03-50293 MD21-03-50294 MD21-03-50295 MD21-03-50296 MD21-03-50297 MD21-03-50299	Isotopic Plutonium	Plutonium-238	The results for this analyte are considered not detected (U) because the sample concentrations were less than the MDA.
1532S	21-11280 21-11280 21-11279 21-11279	MD21-03-50292 MD21-03-50295 MD21-03-50296 MD21-03-50297	Isotopic Plutonium	Plutonium-239	The results for this analyte are considered not detected (U) because the sample concentrations were less than the MDA.

Table C-5.0-4a
Rejected Radionuclide Data for AOCs C-21-015, 21-030 and SWMU 21-024(f)

Request Number	Location ID	Sample ID	Analyte	Explanation
15389	21-01681 21-01681 21-01681 21-01681	AAA4179 AAA4180 AAA4181 AAA4182	Americium_241, Cesium-137, Plutonium-238, Plutonium-239, Strontium-90, Thorium-228, Thorium-230, Thorium-232, Tritium, Uranium-234, Uranium-235, Uranium-238	The results for these analytes are considered rejected (R) because the MDA documentation is missing. Validation cannot proceed without this information.
15413	21-01680 21-01680 21-01680 21-01680	AAA4173 AAA4176 AAA4177 AAA4178	Americium_241, Cesium-137, Plutonium-238, Plutonium-239, Strontium-90, Thorium-228, Thorium-230, Thorium-232, Tritium, Uranium-234, Uranium-235, Uranium-238	The results for these analytes are considered rejected (R) because the MDA documentation is missing. Validation cannot proceed without this information.
457S	21-11433 21-11435 21-11435 21-11439	MD21-02-0005* MD21-02-0007* MD21-02-0008* MD21-02-0015*	Thorium-228, Thorium-230, Thorium-232	The results for these analytes are considered rejected (R) because the validator identified quality deficiencies in the reported data that require qualification.

*This sample was rejected and reanalyzed. The valid results are presented in Appendix D.

Request 455S. Severn Trent Laboratories, Inc. analyzed four samples for radionuclides. The result for thorium-230 is considered not detected (U) because the result was less than five times the amount in the

method blank. The result for plutonium-239 is considered estimated and biased low (J-) because the associated LCS failed low but greater than 10%.

Request 457S. Severn Trent Laboratories, Inc. analyzed eleven samples for radionuclides. No target analytes were detected in the blank. The results for plutonium-239 are considered estimated and biased low (J-) because the LCS failed low but greater than 10%. The holding times were met. The results for thorium-228, thorium-230, and thorium-232 are considered rejected (R) because the validator identified quality deficiencies in the reported data that require qualification.

Request 1543S. General Engineering analyzed one sample for radionuclides. No target analytes were detected in the blank. The holding times were met.

Appendix D

Analytical Suites and Results
(See enclosed CD)

APPENDIX D ANALYTICAL SUITES AND RESULTS

D-1.0 TARGET ANALYTES AND DETECTION LIMITS

Tables D-1.0-1 through D-1.0-5 include the minimum required detection limits or quantitation limits, as prescribed in the Environmental Restoration Project (now the Risk Reduction and Environmental Stewardship Division–Remediation Services [RRES-RS] Project) analytical services statement of work for contract laboratories (LANL 1995, 49738) and the "Quality Assurance Project Plan Requirements for Sampling and Analysis" (LANL 1996, 54609). In most cases, the reporting limits for the analytes were lower than the detection or quantitation limits in these tables.

Efforts were made to ensure that detection limits for inorganic analytes were below Los Alamos National Laboratory (the Laboratory) background values (BVs) (LANL, 59730). Instances in which the detection limits were greater than BVs are noted and discussed in Section 2.3 of this report.

Table D-1.0-1
Target Analytes and Estimated Detection Limits for Inorganic Chemical Analyses

Analyte	EPA[a] Sample Preparation Method	Analytical Technique	EDL[b] (mg/kg)
Aluminum	3050A	ICPES[c]	10
Antimony	3050A	ICPES	0.2
Arsenic	7060/3050A	ICPES/GFAA[d]	0.2
Barium	3050A	ICPES	10
Beryllium	3050A	ICPES	0.1
Cadmium	3050A	ICPES	0.25
Calcium	3050A	ICPES	250
Chromium	3050A	ICPES	0.5
Cobalt	3050A	ICPES	0.5
Copper	3050A	ICPES	0.5
Iron	3050A	ICPES	300
Lead	7421/3050A	ICPES/ICPMS[e]	2.0
Lithium	3050A	ICPES	2.5
Magnesium	3050A	ICPES	250
Manganese	3050A	ICPES	20
Mercury	7471	CVAA[f]	0.05
Molybdenum	3050A	ICPES	2.5
Nickel	3050A	ICPES	0.2
Oxalate	300.0	IC[g]	n/a[h]
Perchlorate	314.0	IC	n/a
Potassium	3050A	ICPES	250
Selenium	7740/3050A	ICPES/GFAA	0.2
Silver	3050A	ICPES	0.2
Sodium	3050A	ICPES	250
Strontium	905.0	ICPES	0.5
Thallium	7841/3050A	ICPES/GFAA/ICPMS	0.1
Uranium	3050A	ICPMS	0.1
Vanadium	3050A	ICPES	0.5
Zinc	3050A	ICPES	5.0

[a] EPA = US Environmental Protection Agency.
[b] EDL = estimated detection limit.
[c] ICPES = inductively coupled plasma emission spectroscopy by EPA SW-846 Method 6010.
[d] GFAA = graphite furnace atomic absorption spectroscopy.
[e] ICPMS = inductively coupled plasma mass spectrometry by EPA SW-846 Method 6020.
[f] CVAA = cold vapor atomic absorption spectroscopy.
[g] IC = ion chromatography.
[h] n/a = Not applicable.

Table D-1.0-2
Target Analytes and Estimated Quantitation Limits for Volatile Organic Chemical Analyses

Target Analyte	Soil/Solids EQL* (µg/kg)	Target Analyte	Soil/Solids EQL* (µg/kg)
Acetone	20	2,2-Dichloropropane	5
Acrolein	20	1,1-Dichloropropene	5
Acrylonitrile	20	cis-1,3-Dichloropropene	5
Benzene	5	trans-1,3-Dichloropropene	5
Bromobenzene	5	Ethylbenzene	5
Bromochloromethane	5	Hexachlorobutadiene	10
Bromodichloromethane	5	2-Hexanone	20
Bromoform	5	Iodomethane	5
Bromomethane	10	Isopropylbenzene	5
2-Butanone	20	4-Isopropyltoluene	5
n-Butylbenzene	5	4-Methyl-2-pentanone	20
sec-Butylbenzene	5	Methylene Chloride	5
tert-Butylbenzene	5	Naphthalene	10
Carbon Disulfide	5	1-Propylbenzene	5
Carbon Tetrachloride	5	Styrene	5
Chlorobenzene	5	1,1,1,2-Tetrachloroethane	5
Chlorodibromomethane	5	1,1,2,2-Tetrachloroethane	5
Chloroethane	10	Tetrachloroethene	5
Chloroform	5	Toluene	5
Chloromethane	10	1,1,2-Trichloro-1,2,2-trifluoroethane	5
2-Chlorotoluene	5	1,2,3-Trichlorobenzene	5
4-Chlorotoluene	5	1,2,4-Trichlorobenzene	10
1,2-Dibromo-3-chloropropane	10	1,1,1-Trichloroethane	5
1,2-Dibromoethane	5	1,1,2-Trichloroethane	5
Dibromomethane	5	Trichloroethene	5
1,2-Dichlorobenzene	5	Trichlorofluoromethane	5
1,3-Dichlorobenzene	5	1,2,3-Trichloropropane	5
1,4-Dichlorobenzene	5	Trichlorotrifluoroethane	5
Dichlorodifluoromethane	10	1,2,4-Trimethylbenzene	5
1,1-Dichloroethane	5	1,3,5-Trimethylbenzene	5
1,2-Dichloroethane	5	Vinyl acetate	10
1,1-Dichloroethene	5	Vinyl chloride	10
cis-1,2-Dichloroethene	5	Xylene (total)	5
trans-1,2-Dichloroethene	5	1,2-Xylene	5
1,2-Dichloropropane	5	1,3-Xylene + 1,4-Xylene	5
1,3-Dichloropropane	5		

Note: All analyses were done by EPA contract laboratory program Method OLM2.0 or the equivalent EPA Method 8260. These methods are based on purge and trap sample extraction/concentration followed by gas chromatography/mass spectrometry.

*EQL = Estimated quantitation limit.

Table D-1.0-3
Target Analytes and Estimated Quantitation Limits for Semivolatile Organic Chemical Analyses

Target Analyte	Soil/Solids EQL* (µg/kg)	Target Analyte	Soil/Solids EQL* (µg/kg)
Acenaphthene	330	2,4-Dinitrophenol	1650
Acenaphthylene	330	2,4-Dinitrotoluene	330
Aniline	660	2,6-Dinitrotoluene	330
Anthracene	330	Di-n-octylphthalate	330
Azobenzene	660	Diphenylamine	330
Benzidine	1650	Fluoranthene	330
Benz(a)anthracene	330	Fluorene	330
Benzo(a)pyrene	330	Hexachlorobenzene	330
Benzo(b)fluoranthene	330	Hexachlorobutadiene	330
Benzo(g,h,i)perylene	330	Hexachlorocyclopentadiene	330
Benzo(k)fluoranthene	330	Hexachloroethane	330
Benzoic Acid	660	Indeno(1,2,3-cd)pyrene	330
Benzyl Alcohol	660	Isophorone	330
Bis(2-chloroethoxy)methane	330	2-Methylnaphthalene	330
Bis(2-chloroethyl)ether	330	2-Methylphenol	330
Bis(2-ethylhexyl)phthalate	330	4-Methylphenol	330
4-Bromophenyl-phenyl ether	330	Naphthalene	330
Butylbenzylphthalate	330	2-Nitroaniline	1650
4-Chloro-3-methylphenol	660	3-Nitroaniline	1650
4-Chloroaniline	660	4-Nitroaniline	660
2-Chloronaphthalene	330	Nitrobenzene	330
2-Chlorophenol	330	2-Nitrophenol	330
4-Chlorophenyl-phenyl ether	330	4-Nitrophenol	1650
Chrysene	330	N-Nitrosodimethylamine	660
Dibenz(a,h)anthracene	330	N-Nitroso-di-n-propylamine	330
Dibenzofuran	330	N-Nitrosodiphenylamine	330
1,2-Dichlorobenzene	330	2,2'-Oxybis(1-chloropropane)	330
1,3-Dichlorobenzene	330	Pentachlorophenol	1650
1,4-Dichlorobenzene	330	Phenanthrene	330
3,3'-Dichlorobenzidine	660	Phenol	330
2,4-Dichlorophenol	330	Pyrene	330
Diethylphthalate	330	Pyridine	660
Dimethyl Phthalate	330	1,2,4-Trichlorobenzene	330
2,4-Dimethylphenol	330	2,4,5-Trichlorophenol	330
Di-n-butylphthalate	330	2,4,6-Trichlorophenol	330
4,6-Dinitro-2-methylphenol	1650		

Note: All analyses were done by EPA contract laboratory program Method OLM2.0 or the equivalent EPA Method 8260. These methods are based on purge and trap sample extraction/concentration followed by gas chromatography/mass spectrometry.

*EQL = Estimated quantitation limit.

Table D-1.0-4
Target Analytes and Estimated Quantitation Limits for PCB Analyses

Analyte	Soil/Solids EQL* (µg/kg)
Aroclor-1016	33
Aroclor-1221	67
Aroclor-1232	33
Aroclor-1242	33
Aroclor-1248	33
Aroclor-1254	33
Aroclor-1260	33

Note: All analyses were done by EPA contract laboratory program Method OLM1.8 or the equivalent EPA Method 8081. These methods are based on solvent extraction, concentration, and gas chromatography/electron capture detection and quantitation.

* EQLs for the samples are based on no gel permeation chromatography (GPC) cleanup being performed. The laboratories' GPC equipment determines the sample-specific EQL based on the volume of extract the GPC equipment uses. However, the laboratories are requested, if possible, to report sample-specific EQLs of no more than twice the value listed in the table.

Table D-1.0-5
Target Analytes and Estimated Quantitation Limits for Radionuclide Analyses

Analyte	Soil/Solids EQL[a] pCi/g (except as noted)
Americium-241	0.05
Cesium-134	na[b]
Cesium-137	0.10
Cobalt-60	0.50
Europium-152	na
Plutonium-238	0.05
Plutonium-239	0.05
Ruthenium-106	na
Sodium-22	na
Strontium-90	0.5
Thorium-228	0.1
Thorium-230	0.1
Thorium-232	0.1
Tritium	250 pCi/L
Uranium-234	0.1
Uranium-235	0.1
Uranium-238	0.1

Note: All analyses were done by EPA contract laboratory program Method OLM1.8 or the equivalent EPA Method 8081. These methods are based on solvent extraction, concentration, and gas chromatography/electron capture detection and quantitation.

[a] EQLs for the samples are based on no gel permeation chromatography (GPC) cleanup being performed. The laboratories' GPC equipment determines the sample-specific EQL based on the volume of extract the GPC equipment uses. However, the laboratories are requested, if possible, to report sample-specific EQLs of no more than twice the value listed in the table.

[b] na = Not available.

D-2.0 ANALYTE SUITES AND DATA SUMMARY

Table D-2.0-1 presents all analytical results for Solid Waste Management Unit (SWMU) 21-024(f) and Areas of Concern (AOCs) 21-030 and C21-015 for sample locations that have not been removed by subsequent excavation. Table D-2.0-2 provides the data for SWMU 21-024(f) sample locations that were excavated and are therefore not used in the screening assessment portion of this Voluntary Corrective Action (VCA) report. Table D-2.0-3 provides the waste data for the septic tank and sump contents. In all tables, the report qualifier "U" indicates the analyte was analyzed for but not detected. The report qualifier "J" indicates the reported value is estimated. The report qualifier "J+" indicates the reported value is estimated and biased high; "J-" indicates the reported value is estimated and biased low. The report qualifier "UJ" indicates the analyte was analyzed for but not detected and the reported value is an estimate of the sample-specific quantitation limit or detection limit.

Table D-2.0-1
Analytical Results for SWMU 21-024(f)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-01431	AAA1095	0–0.5	ALLH	Xylene (Total)	0.006	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Butylbenzene[sec-]	0.006	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Dichloropropane[1,3-]	0.006	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Dichloroethene[cis-1,2-]	0.006	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Dichloroethene[trans-1,2-]	0.006	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Dichlorobenzene[1,3-]	0.006	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Carbon Tetrachloride	0.006	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Dichloropropene[1,1-]	0.006	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Hexanone[2-]	0.012	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Dichloropropane[2,2-]	0.006	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Tetrachloroethane[1,1,1,2-]	0.006	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Acetone	0.028	mg/kg	None
21-01431	AAA1095	0–0.5	ALLH	Chloroform	0.006	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Benzene	0.006	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Trichloroethane[1,1,1-]	0.006	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Bromomethane	0.012	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Chloromethane	0.012	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Iodomethane	0.006	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Dibromomethane	0.006	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Bromochloromethane	0.006	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Vinyl Chloride	0.012	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Methylene Chloride	0.006	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Carbon Disulfide	0.006	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Bromoform	0.006	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Bromodichloromethane	0.006	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Dichloroethane[1,1-]	0.006	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Dichloroethene[1,1-]	0.006	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Trichlorofluoromethane	0.012	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Dichlorodifluoromethane	0.012	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Trichloro-1,2,2-trifluoroethane[1,1,2-]	0.006	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Dichloropropane[1,2-]	0.006	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Butanone[2-]	0.012	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Trichloroethane[1,1,2-]	0.006	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Trichloroethene	0.006	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Tetrachloroethane[1,1,2,2-]	0.006	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Trichlorobenzene[1,2,3-]	0.006	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Naphthalene	0.006	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Chlorotoluene[2-]	0.006	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Dichlorobenzene[1,2-]	0.006	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Trimethylbenzene[1,2,4-]	0.006	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Chlorophenol[2-]	0.39	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Trichlorophenol[2,4,5-]	0.39	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Nitrobenzene	0.39	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-01431	AAA1095	0–0.5	ALLH	Nitroaniline[3-]	1.9	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Uranium	4.6	mg/kg	None
21-01431	AAA1095	0–0.5	ALLH	Thorium-230	0.733	pCi/g	None
21-01431	AAA1095	0–0.5	ALLH	Thorium-232	1.4	pCi/g	None
21-01431	AAA1095	0–0.5	ALLH	Thorium-228	1.18	pCi/g	None
21-01431	AAA1095	0–0.5	ALLH	Plutonium-238	0.164	pCi/g	U
21-01431	AAA1095	0–0.5	ALLH	Plutonium-239	1.06	pCi/g	None
21-01431	AAA1095	0–0.5	ALLH	Americium-241	0.129	pCi/g	U
21-01431	AAA1095	0–0.5	ALLH	Strontium	25.5	mg/kg	None
21-01431	AAA1095	0–0.5	ALLH	Tritium	0.222222	pCi/g	None
21-01431	AAA1095	0–0.5	ALLH	Lithium	10.2	mg/kg	None
21-01431	AAA1095	0–0.5	ALLH	Strontium-90	0.659	pCi/g	U
21-01431	AAA1095	0–0.5	ALLH	Arsenic	2.8	mg/kg	None
21-01431	AAA1095	0–0.5	ALLH	Barium	101	mg/kg	None
21-01431	AAA1095	0–0.5	ALLH	Calcium	3570	mg/kg	None
21-01431	AAA1095	0–0.5	ALLH	Chromium	10	mg/kg	None
21-01431	AAA1095	0–0.5	ALLH	Selenium	0.33	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Antimony	6.3	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Lead	20.8	mg/kg	None
21-01431	AAA1095	0–0.5	ALLH	Zinc	33.7	mg/kg	None
21-01431	AAA1095	0–0.5	ALLH	Vanadium	20.5	mg/kg	None
21-01431	AAA1095	0–0.5	ALLH	Potassium	1660	mg/kg	None
21-01431	AAA1095	0–0.5	ALLH	Iron	13700	mg/kg	None
21-01431	AAA1095	0–0.5	ALLH	Nickel	7.7	mg/kg	None
21-01431	AAA1095	0–0.5	ALLH	Sodium	75.1	mg/kg	None
21-01431	AAA1095	0–0.5	ALLH	Molybdenum	5.2	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Manganese	273	mg/kg	None
21-01431	AAA1095	0–0.5	ALLH	Magnesium	2330	mg/kg	None
21-01431	AAA1095	0–0.5	ALLH	Copper	7.7	mg/kg	None
21-01431	AAA1095	0–0.5	ALLH	Cobalt	3.3	mg/kg	None
21-01431	AAA1095	0–0.5	ALLH	Beryllium	0.93	mg/kg	None
21-01431	AAA1095	0–0.5	ALLH	Aluminum	14100	mg/kg	None
21-01431	AAA1095	0–0.5	ALLH	Cadmium	1.6	mg/kg	None
21-01431	AAA1095	0–0.5	ALLH	Thallium	0.31	mg/kg	None
21-01431	AAA1095	0–0.5	ALLH	Silver	0.67	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Methyl-2-pentanone[4-]	0.012	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Hexachlorobutadiene	0.006	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Chloroethane	0.012	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Ethylbenzene	0.006	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Styrene	0.006	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Dichloropropene[cis-1,3-]	0.006	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Dichloropropene[trans-1,3-]	0.006	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Propylbenzene[1-]	0.006	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Butylbenzene[n-]	0.006	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-01431	AAA1095	0–0.5	ALLH	Chlorotoluene[4-]	0.006	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Dichlorobenzene[1,4-]	0.006	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Dibromoethane[1,2-]	0.006	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Acrolein	0.12	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Dichloroethane[1,2-]	0.006	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Acrylonitrile	0.12	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Vinyl acetate	0.012	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Trimethylbenzene[1,3,5-]	0.006	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Bromobenzene	0.006	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Toluene	0.006	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Chlorobenzene	0.006	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Trichlorobenzene[1,2,4-]	0.006	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Chlorodibromomethane	0.006	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Tetrachloroethene	0.006	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Dibromo-3-Chloropropane[1,2-]	0.006	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Trichloropropane[1,2,3-]	0.006	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Butylbenzene[tert-]	0.006	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Isopropylbenzene	0.006	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Isopropyltoluene[4-]	0.006	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Benzo(k)fluoranthene	0.39	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Fluoranthene	0.39	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Acenaphthylene	0.39	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Chrysene	0.39	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Trichlorobenzene[1,2,4-]	0.39	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Acenaphthene	0.39	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Benzo(b)fluoranthene	0.39	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Nitroaniline[4-]	1.9	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Nitrophenol[4-]	1.9	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Benzyl Alcohol	0.78	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Bromophenyl-phenylether[4-]	0.39	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Azobenzene	0.39	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Dimethylphenol[2,4-]	0.39	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Methylphenol[4-]	0.39	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Dichlorobenzene[1,4-]	0.39	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Chloroaniline[4-]	0.78	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Oxybis(1-chloropropane)[2,2'-]	0.39	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Phenol	0.39	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Bis(2-chloroethyl)ether	0.39	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Bis(2-chloroethoxy)methane	0.39	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Bis(2-ethylhexyl)phthalate	0.39	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Di-n-octylphthalate	0.39	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Hexachlorobenzene	0.39	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Anthracene	0.39	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Dichlorophenol[2,4-]	0.39	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-01431	AAA1095	0–0.5	ALLH	Dinitrotoluene[2,4-]	0.39	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Pyrene	0.39	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Dimethyl Phthalate	0.39	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Dibenzofuran	0.39	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Benzo(g,h,i)perylene	0.39	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Indeno(1,2,3-cd)pyrene	0.39	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Benzo(a)pyrene	0.39	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Dinitrophenol[2,4-]	1.9	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Dinitro-2-methylphenol[4,6-]	1.9	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Dibenz(a,h)anthracene	0.39	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Dichlorobenzene[1,3-]	0.39	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Benz(a)anthracene	0.39	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Chloro-3-methylphenol[4-]	0.78	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Dinitrotoluene[2,6-]	0.39	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Nitroso-di-n-propylamine[N-]	0.39	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Aniline	0.39	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Nitrosodimethylamine[N-]	0.39	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Benzoic Acid	1.9	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Hexachloroethane	0.39	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Chlorophenyl-phenyl[4-] Ether	0.39	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Hexachlorocyclopentadiene	0.39	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Isophorone	0.39	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Diethylphthalate	0.39	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Di-n-butylphthalate	0.39	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Phenanthrene	0.39	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Butylbenzylphthalate	0.39	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Nitrosodiphenylamine[N-]	0.39	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Fluorene	0.39	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Hexachlorobutadiene	0.39	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Pentachlorophenol	1.9	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Trichlorophenol[2,4,6-]	0.39	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Nitroaniline[2-]	1.9	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Nitrophenol[2-]	0.39	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Naphthalene	0.39	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Methylnaphthalene[2-]	0.39	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Chloronaphthalene[2-]	0.39	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Dichlorobenzidine[3,3'-]	0.78	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Benzidine	1.9	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Methylphenol[2-]	0.39	mg/kg	U
21-01431	AAA1095	0–0.5	ALLH	Dichlorobenzene[1,2-]	0.39	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Chromium	1.7	mg/kg	None
21-01431	AAA1096	0.5–1	ALLH	Sodium	78.7	mg/kg	None
21-01431	AAA1096	0.5–1	ALLH	Zinc	22	mg/kg	None
21-01431	AAA1096	0.5–1	ALLH	Silver	0.68	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-01431	AAA1096	0.5–1	ALLH	Vanadium	5.2	mg/kg	None
21-01431	AAA1096	0.5–1	ALLH	Thallium	0.17	mg/kg	None
21-01431	AAA1096	0.5–1	ALLH	Selenium	0.34	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Antimony	6.4	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Lead	6.9	mg/kg	None
21-01431	AAA1096	0.5–1	ALLH	Nickel	2.7	mg/kg	None
21-01431	AAA1096	0.5–1	ALLH	Molybdenum	5.3	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Manganese	163	mg/kg	None
21-01431	AAA1096	0.5–1	ALLH	Magnesium	462	mg/kg	None
21-01431	AAA1096	0.5–1	ALLH	Potassium	228	mg/kg	None
21-01431	AAA1096	0.5–1	ALLH	Iron	5410	mg/kg	None
21-01431	AAA1096	0.5–1	ALLH	Copper	2.3	mg/kg	None
21-01431	AAA1096	0.5–1	ALLH	Barium	20.7	mg/kg	None
21-01431	AAA1096	0.5–1	ALLH	Beryllium	0.34	mg/kg	None
21-01431	AAA1096	0.5–1	ALLH	Calcium	580	mg/kg	None
21-01431	AAA1096	0.5–1	ALLH	Cobalt	1.1	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Cadmium	0.45	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Arsenic	2.5	mg/kg	None
21-01431	AAA1096	0.5–1	ALLH	Aluminum	2310	mg/kg	None
21-01431	AAA1096	0.5–1	ALLH	Ethylbenzene	0.005	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Dichloropropene[cis-1,3-]	0.005	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Dichloropropene[trans-1,3-]	0.005	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Propylbenzene[1-]	0.005	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Butylbenzene[n-]	0.005	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Chlorotoluene[4-]	0.005	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Dichlorobenzene[1,4-]	0.005	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Dibromoethane[1,2-]	0.005	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Acrolein	0.11	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Dichloroethane[1,2-]	0.005	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Acrylonitrile	0.11	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Vinyl acetate	0.011	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Methyl-2-pentanone[4-]	0.011	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Trimethylbenzene[1,3,5-]	0.005	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Bromobenzene	0.005	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Toluene	0.005	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Chlorobenzene	0.005	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Trichlorobenzene[1,2,4-]	0.005	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Chlorodibromomethane	0.005	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Tetrachloroethene	0.005	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Xylene (Total)	0.005	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Butylbenzene[sec-]	0.005	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Dichloropropane[1,3-]	0.005	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Dichloroethene[cis-1,2-]	0.005	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Dichloroethene[trans-1,2-]	0.005	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-01431	AAA1096	0.5–1	ALLH	Dichlorobenzene[1,3-]	0.005	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Dichloropropene[1,1-]	0.005	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Hexanone[2-]	0.011	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Dichloropropane[2,2-]	0.005	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Tetrachloroethane[1,1,1,2-]	0.005	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Acetone	0.025	mg/kg	None
21-01431	AAA1096	0.5–1	ALLH	Chloroform	0.005	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Benzene	0.005	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Trichloroethane[1,1,1-]	0.005	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Bromomethane	0.011	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Chloromethane	0.011	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Iodomethane	0.005	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Dibromomethane	0.005	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Bromochloromethane	0.005	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Chloroethane	0.011	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Vinyl Chloride	0.011	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Methylene Chloride	0.005	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Carbon Disulfide	0.005	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Bromodichloromethane	0.005	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Dichloroethane[1,1-]	0.005	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Dichloroethene[1,1-]	0.005	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Trichlorofluoromethane	0.011	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Dichlorodifluoromethane	0.011	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Trichloro-1,2,2-trifluoroethane[1,1,2-]	0.005	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Dichloropropane[1,2-]	0.005	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Butanone[2-]	0.011	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Trichloroethane[1,1,2-]	0.005	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Tetrachloroethane[1,1,2,2-]	0.005	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Trichlorobenzene[1,2,3-]	0.005	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Hexachlorobutadiene	0.005	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Naphthalene	0.005	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Chlorotoluene[2-]	0.005	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Dichlorobenzene[1,2-]	0.005	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Trimethylbenzene[1,2,4-]	0.005	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Dibromo-3-Chloropropane[1,2-]	0.005	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Trichloropropane[1,2,3-]	0.005	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Butylbenzene[tert-]	0.005	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Isopropylbenzene	0.005	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Isopropyltoluene[4-]	0.005	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Styrene	0.005	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Trichloroethene	0.005	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Carbon Tetrachloride	0.005	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Bromoform	0.005	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Nitroaniline[4-]	1.8	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-01431	AAA1096	0.5–1	ALLH	Benzyl Alcohol	0.73	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Bromophenyl-phenylether[4-]	0.36	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Azobenzene	0.36	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Dimethylphenol[2,4-]	0.36	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Methylphenol[4-]	0.36	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Dichlorobenzene[1,4-]	0.36	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Chloroaniline[4-]	0.73	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Oxybis(1-chloropropane)[2,2'-]	0.36	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Phenol	0.36	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Bis(2-chloroethyl)ether	0.36	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Bis(2-chloroethoxy)methane	0.36	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Bis(2-ethylhexyl)phthalate	0.36	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Di-n-octylphthalate	0.36	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Hexachlorobenzene	0.36	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Anthracene	0.36	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Trichlorobenzene[1,2,4-]	0.36	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Dichlorophenol[2,4-]	0.36	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Dinitrotoluene[2,4-]	0.36	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Pyrene	0.36	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Dimethyl Phthalate	0.36	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Dibenzofuran	0.36	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Benzo(g,h,i)perylene	0.36	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Indeno(1,2,3-cd)pyrene	0.36	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Dinitrophenol[2,4-]	1.8	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Dinitro-2-methylphenol[4,6-]	1.8	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Dibenz(a,h)anthracene	0.36	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Benz(a)anthracene	0.36	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Chloro-3-methylphenol[4-]	0.73	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Dinitrotoluene[2,6-]	0.36	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Nitroso-di-n-propylamine[N-]	0.36	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Aniline	0.36	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Nitrosodimethylamine[N-]	0.36	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Benzoic Acid	1.8	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Hexachloroethane	0.36	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Chlorophenyl-phenyl[4-] Ether	0.36	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Hexachlorocyclopentadiene	0.36	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Isophorone	0.36	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Acenaphthene	0.36	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Diethylphthalate	0.36	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Di-n-butylphthalate	0.36	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Phenanthrene	0.36	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Butylbenzylphthalate	0.36	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Nitrosodiphenylamine[N-]	0.36	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Fluorene	0.36	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-01431	AAA1096	0.5–1	ALLH	Hexachlorobutadiene	0.36	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Pentachlorophenol	1.8	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Trichlorophenol[2,4,6-]	0.36	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Nitroaniline[2-]	1.8	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Nitrophenol[2-]	0.36	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Naphthalene	0.36	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Chloronaphthalene[2-]	0.36	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Dichlorobenzidine[3,3'-]	0.73	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Benzidine	1.8	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Methylphenol[2-]	0.36	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Dichlorobenzene[1,2-]	0.36	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Chlorophenol[2-]	0.36	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Trichlorophenol[2,4,5-]	0.36	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Nitrobenzene	0.36	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Nitroaniline[3-]	1.8	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Dichlorobenzene[1,3-]	0.36	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Nitrophenol[4-]	1.8	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Methylnaphthalene[2-]	0.36	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Benzo(a)pyrene	0.36	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Benzo(b)fluoranthene	0.36	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Fluoranthene	0.36	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Acenaphthylene	0.36	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Chrysene	0.36	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Benzo(k)fluoranthene	0.36	mg/kg	U
21-01431	AAA1096	0.5–1	ALLH	Uranium	3.3	mg/kg	None
21-01431	AAA1096	0.5–1	ALLH	Thorium-228	1.49	pCi/g	None
21-01431	AAA1096	0.5–1	ALLH	Thorium-230	0.273	pCi/g	U
21-01431	AAA1096	0.5–1	ALLH	Thorium-232	1.19	pCi/g	None
21-01431	AAA1096	0.5–1	ALLH	Plutonium-238	0.0301	pCi/g	U
21-01431	AAA1096	0.5–1	ALLH	Plutonium-239	0.0904	pCi/g	U
21-01431	AAA1096	0.5–1	ALLH	Americium-241	0.0967	pCi/g	U
21-01431	AAA1096	0.5–1	ALLH	Strontium	4.2	mg/kg	None
21-01431	AAA1096	0.5–1	ALLH	Tritium	0.066667	pCi/g	U
21-01431	AAA1096	0.5–1	ALLH	Lithium	3.1	mg/kg	None
21-01431	AAA1096	0.5–1	ALLH	Strontium-90	0.736	pCi/g	U
21-01431	AAA1097	1–1.5	ALLH	Silver	0.63	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Zinc	22	mg/kg	None
21-01431	AAA1097	1–1.5	ALLH	Thallium	0.1	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Selenium	0.31	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Antimony	5.9	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Lead	3.5	mg/kg	None
21-01431	AAA1097	1–1.5	ALLH	Nickel	3.6	mg/kg	None
21-01431	AAA1097	1–1.5	ALLH	Sodium	75.1	mg/kg	None
21-01431	AAA1097	1–1.5	ALLH	Molybdenum	4.9	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-01431	AAA1097	1–1.5	ALLH	Magnesium	236	mg/kg	None
21-01431	AAA1097	1–1.5	ALLH	Potassium	177	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Iron	4150	mg/kg	None
21-01431	AAA1097	1–1.5	ALLH	Copper	2.3	mg/kg	None
21-01431	AAA1097	1–1.5	ALLH	Chromium	2.5	mg/kg	None
21-01431	AAA1097	1–1.5	ALLH	Barium	14.6	mg/kg	None
21-01431	AAA1097	1–1.5	ALLH	Beryllium	0.51	mg/kg	None
21-01431	AAA1097	1–1.5	ALLH	Calcium	238	mg/kg	None
21-01431	AAA1097	1–1.5	ALLH	Cobalt	1	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Cadmium	0.42	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Arsenic	1.4	mg/kg	None
21-01431	AAA1097	1–1.5	ALLH	Aluminum	1020	mg/kg	None
21-01431	AAA1097	1–1.5	ALLH	Manganese	173	mg/kg	None
21-01431	AAA1097	1–1.5	ALLH	Vanadium	2.9	mg/kg	None
21-01431	AAA1097	1–1.5	ALLH	Trimethylbenzene[1,3,5-]	0.005	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Chlorotoluene[2-]	0.005	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Vinyl Chloride	0.011	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Ethylbenzene	0.005	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Styrene	0.005	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Dichloropropene[cis-1,3-]	0.005	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Dichloropropene[trans-1,3-]	0.005	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Propylbenzene[1-]	0.005	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Butylbenzene[n-]	0.005	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Chlorotoluene[4-]	0.005	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Dichlorobenzene[1,4-]	0.005	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Dibromoethane[1,2-]	0.005	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Acrolein	0.11	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Dichloroethane[1,2-]	0.005	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Acrylonitrile	0.11	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Vinyl acetate	0.011	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Methyl-2-pentanone[4-]	0.011	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Bromobenzene	0.005	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Toluene	0.005	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Chlorobenzene	0.005	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Trichlorobenzene[1,2,4-]	0.005	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Chlorodibromomethane	0.005	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Tetrachloroethene	0.005	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Xylene (Total)	0.005	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Butylbenzene[sec-]	0.005	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Dichloropropane[1,3-]	0.005	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Dichloroethene[cis-1,2-]	0.005	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Dichloroethene[trans-1,2-]	0.005	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Dichlorobenzene[1,3-]	0.005	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Carbon Tetrachloride	0.005	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-01431	AAA1097	1–1.5	ALLH	Dichloropropene[1,1-]	0.005	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Hexanone[2-]	0.011	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Dichloropropane[2,2-]	0.005	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Tetrachloroethane[1,1,1,2-]	0.005	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Acetone	0.019	mg/kg	None
21-01431	AAA1097	1–1.5	ALLH	Chloroform	0.005	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Benzene	0.005	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Trichloroethane[1,1,1-]	0.005	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Bromomethane	0.011	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Chloromethane	0.011	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Iodomethane	0.005	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Dibromomethane	0.005	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Bromochloromethane	0.005	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Chloroethane	0.011	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Methylene Chloride	0.005	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Carbon Disulfide	0.005	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Bromoform	0.005	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Bromodichloromethane	0.005	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Dichloroethane[1,1-]	0.005	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Dichloroethene[1,1-]	0.005	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Trichlorofluoromethane	0.011	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Dichlorodifluoromethane	0.011	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Trichloro-1,2,2-trifluoroethane[1,1,2-]	0.005	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Dichloropropane[1,2-]	0.005	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Butanone[2-]	0.011	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Trichloroethane[1,1,2-]	0.005	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Trichloroethene	0.005	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Tetrachloroethane[1,1,2,2-]	0.005	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Trichlorobenzene[1,2,3-]	0.005	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Hexachlorobutadiene	0.005	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Naphthalene	0.005	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Dichlorobenzene[1,2-]	0.005	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Trimethylbenzene[1,2,4-]	0.005	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Dibromo-3-Chloropropane[1,2-]	0.005	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Trichloropropane[1,2,3-]	0.005	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Butylbenzene[tert-]	0.005	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Isopropylbenzene	0.005	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Isopropyltoluene[4-]	0.005	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Benzo(b)fluoranthene	0.34	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Benzo(k)fluoranthene	0.34	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Acenaphthylene	0.34	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Fluoranthene	0.34	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Chrysene	0.34	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Bis(2-ethylhexyl)phthalate	0.34	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-01431	AAA1097	1–1.5	ALLH	Dichlorobenzene[1,2-]	0.34	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Isophorone	0.34	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Nitroaniline[4-]	1.7	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Nitrophenol[4-]	1.7	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Benzyl Alcohol	0.69	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Bromophenyl-phenylether[4-]	0.34	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Azobenzene	0.34	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Dimethylphenol[2,4-]	0.34	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Methylphenol[4-]	0.34	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Dichlorobenzene[1,4-]	0.34	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Chloroaniline[4-]	0.69	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Oxybis(1-chloropropane)[2,2'-]	0.34	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Phenol	0.34	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Bis(2-chloroethyl)ether	0.34	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Bis(2-chloroethoxy)methane	0.34	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Di-n-octylphthalate	0.34	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Hexachlorobenzene	0.34	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Anthracene	0.34	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Trichlorobenzene[1,2,4-]	0.34	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Dichlorophenol[2,4-]	0.34	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Dinitrotoluene[2,4-]	0.34	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Pyrene	0.34	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Dimethyl Phthalate	0.34	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Dibenzofuran	0.34	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Benzo(g,h,i)perylene	0.34	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Indeno(1,2,3-cd)pyrene	0.34	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Benzo(a)pyrene	0.34	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Dinitrophenol[2,4-]	1.7	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Dinitro-2-methylphenol[4,6-]	1.7	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Dibenz(a,h)anthracene	0.34	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Dichlorobenzene[1,3-]	0.34	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Benz(a)anthracene	0.34	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Chloro-3-methylphenol[4-]	0.69	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Dinitrotoluene[2,6-]	0.34	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Nitroso-di-n-propylamine[N-]	0.34	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Aniline	0.34	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Nitrosodimethylamine[N-]	0.34	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Benzoic Acid	1.7	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Hexachloroethane	0.34	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Chlorophenyl-phenyl[4-] Ether	0.34	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Hexachlorocyclopentadiene	0.34	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Acenaphthene	0.34	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Diethylphthalate	0.34	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Di-n-butylphthalate	0.34	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-01431	AAA1097	1–1.5	ALLH	Phenanthrene	0.34	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Butylbenzylphthalate	0.34	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Nitrosodiphenylamine[N-]	0.34	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Fluorene	0.34	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Hexachlorobutadiene	0.34	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Pentachlorophenol	1.7	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Trichlorophenol[2,4,6-]	0.34	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Nitroaniline[2-]	1.7	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Nitrophenol[2-]	0.34	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Naphthalene	0.34	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Methylnaphthalene[2-]	0.34	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Chloronaphthalene[2-]	0.34	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Dichlorobenzidine[3,3'-]	0.69	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Methylphenol[2-]	0.34	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Benzidine	1.7	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Chlorophenol[2-]	0.34	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Trichlorophenol[2,4,5-]	0.34	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Nitrobenzene	0.34	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Nitroaniline[3-]	1.7	mg/kg	U
21-01431	AAA1097	1–1.5	ALLH	Uranium	3.7	mg/kg	None
21-01431	AAA1097	1–1.5	ALLH	Thorium-228	1.22	pCi/g	None
21-01431	AAA1097	1–1.5	ALLH	Thorium-232	1.31	pCi/g	None
21-01431	AAA1097	1–1.5	ALLH	Thorium-230	0.736	pCi/g	None
21-01431	AAA1097	1–1.5	ALLH	Plutonium-238	0.0464	pCi/g	U
21-01431	AAA1097	1–1.5	ALLH	Plutonium-239	0.0093	pCi/g	U
21-01431	AAA1097	1–1.5	ALLH	Americium-241	0.0505	pCi/g	U
21-01431	AAA1097	1–1.5	ALLH	Strontium	1.7	mg/kg	None
21-01431	AAA1097	1–1.5	ALLH	Tritium	0.111111	pCi/g	None
21-01431	AAA1097	1–1.5	ALLH	Lithium	1.9	mg/kg	None
21-01431	AAA1097	1–1.5	ALLH	Strontium-90	0.427	pCi/g	U
21-01432	AAA1100	0.5–1	ALLH	Aluminum	7020	mg/kg	None
21-01432	AAA1100	0.5–1	ALLH	Lead	7.2	mg/kg	None
21-01432	AAA1100	0.5–1	ALLH	Sodium	76.4	mg/kg	None
21-01432	AAA1100	0.5–1	ALLH	Molybdenum	5	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Manganese	99.4	mg/kg	None
21-01432	AAA1100	0.5–1	ALLH	Iron	8570	mg/kg	None
21-01432	AAA1100	0.5–1	ALLH	Cobalt	1.1	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Calcium	272	mg/kg	None
21-01432	AAA1100	0.5–1	ALLH	Arsenic	3.3	mg/kg	None
21-01432	AAA1100	0.5–1	ALLH	Copper	3.3	mg/kg	None
21-01432	AAA1100	0.5–1	ALLH	Nickel	3.8	mg/kg	None
21-01432	AAA1100	0.5–1	ALLH	Silver	0.63	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Cadmium	0.93	mg/kg	None
21-01432	AAA1100	0.5–1	ALLH	Chromium	15.3	mg/kg	None

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-01432	AAA1100	0.5–1	ALLH	Potassium	622	mg/kg	None
21-01432	AAA1100	0.5–1	ALLH	Magnesium	739	mg/kg	None
21-01432	AAA1100	0.5–1	ALLH	Zinc	26.5	mg/kg	None
21-01432	AAA1100	0.5–1	ALLH	Vanadium	12	mg/kg	None
21-01432	AAA1100	0.5–1	ALLH	Thallium	0.21	mg/kg	None
21-01432	AAA1100	0.5–1	ALLH	Selenium	0.32	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Antimony	6	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Lithium	4.9	mg/kg	None
21-01432	AAA1100	0.5–1	ALLH	Strontium-90	0.681	pCi/g	U
21-01432	AAA1100	0.5–1	ALLH	Methylphenol[4-]	0.35	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Azobenzene	0.35	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Bromophenyl-phenylether[4-]	0.35	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Benzyl Alcohol	0.7	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Nitrophenol[4-]	1.7	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Benzo(b)fluoranthene	0.35	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Dichlorobenzidine[3,3'-]	0.7	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Dimethylphenol[2,4-]	0.35	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Dibenz(a,h)anthracene	0.35	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Fluoranthene	0.35	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Chrysene	0.35	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Benzo(k)fluoranthene	0.35	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Acenaphthylene	0.35	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Thorium-228	1.39	pCi/g	None
21-01432	AAA1100	0.5–1	ALLH	Beryllium	0.29	mg/kg	None
21-01432	AAA1100	0.5–1	ALLH	Barium	36.5	mg/kg	None
21-01432	AAA1100	0.5–1	ALLH	Trichloro-1,2,2-trifluoroethane[1,1,2-]	0.005	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Dichlorodifluoromethane	0.011	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Ethylbenzene	0.005	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Isopropyltoluene[4-]	0.005	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Isopropylbenzene	0.005	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Butylbenzene[tert-]	0.005	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Trichloropropane[1,2,3-]	0.005	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Dibromo-3-Chloropropane[1,2-]	0.005	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Trimethylbenzene[1,2,4-]	0.005	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Dichlorobenzene[1,2-]	0.005	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Chlorotoluene[2-]	0.005	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Naphthalene	0.005	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Hexachlorobutadiene	0.005	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Trichlorobenzene[1,2,3-]	0.005	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Tetrachloroethane[1,1,2,2-]	0.005	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Butylbenzene[sec-]	0.005	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Xylene (Total)	0.005	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Tetrachloroethene	0.005	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Chlorodibromomethane	0.005	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-01432	AAA1100	0.5–1	ALLH	Trichlorobenzene[1,2,4-]	0.005	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Chlorobenzene	0.005	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Toluene	0.008	mg/kg	None
21-01432	AAA1100	0.5–1	ALLH	Chloromethane	0.011	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Bromomethane	0.011	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Trichloroethane[1,1,1-]	0.005	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Benzene	0.005	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Nitroaniline[4-]	1.7	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Hexachlorobutadiene	0.35	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Hexachloroethane	0.35	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Benzoic Acid	1.7	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Nitrosodimethylamine[N-]	0.35	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Aniline	0.35	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Nitroso-di-n-propylamine[N-]	0.35	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Trichlorobenzene[1,2,4-]	0.35	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Anthracene	0.35	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Hexachlorobenzene	0.35	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Di-n-octylphthalate	0.35	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Bis(2-ethylhexyl)phthalate	0.35	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Fluorene	0.35	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Nitrosodiphenylamine[N-]	0.35	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Butylbenzylphthalate	0.35	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Phenanthrene	0.35	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Di-n-butylphthalate	0.35	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Diethylphthalate	0.35	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Acenaphthene	0.35	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Nitroaniline[3-]	1.7	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Nitrobenzene	0.35	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Trichlorophenol[2,4,5-]	0.35	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Chlorophenol[2-]	0.35	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Dichlorobenzene[1,2-]	0.35	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Methylphenol[2-]	0.35	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Benzidine	1.7	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Bis(2-chloroethoxy)methane	0.35	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Bis(2-chloroethyl)ether	0.35	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Indeno(1,2,3-cd)pyrene	0.35	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Oxybis(1-chloropropane)[2,2'-]	0.35	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Phenol	0.35	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Benzo(g,h,i)perylene	0.35	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Dibenzofuran	0.35	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Dimethyl Phthalate	0.35	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Pyrene	0.35	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Dinitrotoluene[2,4-]	0.35	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Dichlorophenol[2,4-]	0.35	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-01432	AAA1100	0.5–1	ALLH	Dinitrotoluene[2,6-]	0.35	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Chloro-3-methylphenol[4-]	0.7	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Benz(a)anthracene	0.35	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Dichlorobenzene[1,3-]	0.35	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Dinitro-2-methylphenol[4,6-]	1.7	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Dinitrophenol[2,4-]	1.7	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Benzo(a)pyrene	0.35	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Chloronaphthalene[2-]	0.35	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Uranium	4.3	mg/kg	None
21-01432	AAA1100	0.5–1	ALLH	Chloroaniline[4-]	0.7	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Dichlorobenzene[1,4-]	0.35	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Thorium-232	1.39	pCi/g	None
21-01432	AAA1100	0.5–1	ALLH	Thorium-230	0.757	pCi/g	None
21-01432	AAA1100	0.5–1	ALLH	Plutonium-238	0.0519	pCi/g	U
21-01432	AAA1100	0.5–1	ALLH	Plutonium-239	0.571	pCi/g	None
21-01432	AAA1100	0.5–1	ALLH	Americium-241	0.163	pCi/g	U
21-01432	AAA1100	0.5–1	ALLH	Strontium	3.8	mg/kg	None
21-01432	AAA1100	0.5–1	ALLH	Tritium	0.077778	pCi/g	U
21-01432	AAA1100	0.5–1	ALLH	Methylnaphthalene[2-]	0.35	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Naphthalene	0.35	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Nitrophenol[2-]	0.35	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Nitroaniline[2-]	1.7	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Trichlorophenol[2,4,6-]	0.35	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Pentachlorophenol	1.7	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Isophorone	0.35	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Hexachlorocyclopentadiene	0.35	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Chlorophenyl-phenyl[4-] Ether	0.35	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Chloroform	0.005	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Acetone	0.055	mg/kg	None
21-01432	AAA1100	0.5–1	ALLH	Tetrachloroethane[1,1,1,2-]	0.005	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Dichloropropane[2,2-]	0.005	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Bromodichloromethane	0.005	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Bromoform	0.005	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Carbon Disulfide	0.005	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Methylene Chloride	0.005	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Chloroethane	0.011	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Bromochloromethane	0.005	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Dibromomethane	0.005	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Iodomethane	0.005	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Trichloroethene	0.005	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Trichloroethane[1,1,2-]	0.005	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Butanone[2-]	0.011	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Trichlorofluoromethane	0.011	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Dichloroethene[1,1-]	0.005	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-01432	AAA1100	0.5–1	ALLH	Dichloroethane[1,1-]	0.005	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Hexanone[2-]	0.011	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Dichloropropene[1,1-]	0.005	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Carbon Tetrachloride	0.005	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Dichlorobenzene[1,3-]	0.005	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Dichloroethene[trans-1,2-]	0.005	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Dichloroethene[cis-1,2-]	0.005	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Dichloropropane[1,3-]	0.005	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Bromobenzene	0.005	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Trimethylbenzene[1,3,5-]	0.005	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Methyl-2-pentanone[4-]	0.011	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Vinyl acetate	0.011	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Acrylonitrile	0.11	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Dichloroethane[1,2-]	0.005	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Acrolein	0.11	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Dibromoethane[1,2-]	0.005	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Dichloropropene[trans-1,3-]	0.005	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Propylbenzene[1-]	0.005	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Butylbenzene[n-]	0.005	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Dichlorobenzene[1,4-]	0.005	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Chlorotoluene[4-]	0.005	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Dichloropropene[cis-1,3-]	0.005	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Styrene	0.005	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Dichloropropane[1,2-]	0.005	mg/kg	U
21-01432	AAA1100	0.5–1	ALLH	Vinyl Chloride	0.011	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Silver	0.61	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Nickel	1.8	mg/kg	None
21-01432	AAA1101	1–1.5	ALLH	Molybdenum	4.8	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Manganese	146	mg/kg	None
21-01432	AAA1101	1–1.5	ALLH	Magnesium	317	mg/kg	None
21-01432	AAA1101	1–1.5	ALLH	Potassium	228	mg/kg	None
21-01432	AAA1101	1–1.5	ALLH	Iron	5350	mg/kg	None
21-01432	AAA1101	1–1.5	ALLH	Copper	1.8	mg/kg	None
21-01432	AAA1101	1–1.5	ALLH	Vanadium	4.6	mg/kg	None
21-01432	AAA1101	1–1.5	ALLH	Thallium	0.21	mg/kg	None
21-01432	AAA1101	1–1.5	ALLH	Selenium	0.3	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Antimony	5.8	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Lead	3.9	mg/kg	None
21-01432	AAA1101	1–1.5	ALLH	Barium	16.2	mg/kg	None
21-01432	AAA1101	1–1.5	ALLH	Beryllium	0.18	mg/kg	None
21-01432	AAA1101	1–1.5	ALLH	Calcium	167	mg/kg	None
21-01432	AAA1101	1–1.5	ALLH	Cobalt	1	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Cadmium	0.4	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Arsenic	2.2	mg/kg	None

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-01432	AAA1101	1–1.5	ALLH	Aluminum	2760	mg/kg	None
21-01432	AAA1101	1–1.5	ALLH	Chromium	5.9	mg/kg	None
21-01432	AAA1101	1–1.5	ALLH	Zinc	27.1	mg/kg	None
21-01432	AAA1101	1–1.5	ALLH	Sodium	59.5	mg/kg	None
21-01432	AAA1101	1–1.5	ALLH	Vinyl acetate	0.01	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Trichlorobenzene[1,2,3-]	0.005	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Isopropyltoluene[4-]	0.005	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Dibromomethane	0.005	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Ethylbenzene	0.005	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Dichlorobenzene[1,4-]	0.005	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Chlorotoluene[4-]	0.005	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Isopropylbenzene	0.005	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Butylbenzene[tert-]	0.005	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Trichloropropane[1,2,3-]	0.005	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Dibromo-3-Chloropropane[1,2-]	0.005	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Trimethylbenzene[1,2,4-]	0.005	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Dichlorobenzene[1,2-]	0.005	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Chlorotoluene[2-]	0.005	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Dichloroethene[trans-1,2-]	0.005	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Dichloroethene[cis-1,2-]	0.005	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Dichloropropane[1,3-]	0.005	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Butylbenzene[sec-]	0.005	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Xylene (Total)	0.005	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Tetrachloroethene	0.005	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Chlorodibromomethane	0.005	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Trichlorobenzene[1,2,4-]	0.005	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Vinyl Chloride	0.01	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Chloroethane	0.01	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Bromochloromethane	0.005	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Iodomethane	0.005	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Chloromethane	0.01	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Bromomethane	0.01	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Trichloroethane[1,1,1-]	0.005	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Benzene	0.005	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Dichlorodifluoromethane	0.01	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Trichlorofluoromethane	0.01	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Dichloroethene[1,1-]	0.005	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Dichloroethane[1,1-]	0.005	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Bromodichloromethane	0.005	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Bromoform	0.005	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Carbon Disulfide	0.005	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Methylene Chloride	0.005	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Naphthalene	0.005	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Hexachlorobutadiene	0.005	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-01432	AAA1101	1–1.5	ALLH	Tetrachloroethane[1,1,2,2-]	0.005	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Trichloroethene	0.005	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Trichloroethane[1,1,2-]	0.005	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Butanone[2-]	0.01	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Dichloropropane[1,2-]	0.005	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Trichloro-1,2,2-trifluoroethane[1,1,2-]	0.005	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Chloroform	0.005	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Acetone	0.02	mg/kg	None
21-01432	AAA1101	1–1.5	ALLH	Tetrachloroethane[1,1,1,2-]	0.005	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Dichloropropane[2,2-]	0.005	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Hexanone[2-]	0.01	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Dichloropropene[1,1-]	0.005	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Carbon Tetrachloride	0.005	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Dichlorobenzene[1,3-]	0.005	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Chlorobenzene	0.005	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Toluene	0.005	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Bromobenzene	0.005	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Trimethylbenzene[1,3,5-]	0.005	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Methyl-2-pentanone[4-]	0.01	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Acrylonitrile	0.1	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Dichloroethane[1,2-]	0.005	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Acrolein	0.1	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Dibromoethane[1,2-]	0.005	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Styrene	0.005	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Dichloropropene[trans-1,3-]	0.005	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Propylbenzene[1-]	0.005	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Butylbenzene[n-]	0.005	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Dichloropropene[cis-1,3-]	0.005	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Benzo(k)fluoranthene	0.33	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Benzo(b)fluoranthene	0.33	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Fluoranthene	0.33	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Acenaphthylene	0.33	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Chrysene	0.33	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Nitrobenzene	0.33	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Di-n-octylphthalate	0.33	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Acenaphthene	0.33	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Chlorophenol[2-]	0.33	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Nitrophenol[4-]	1.6	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Bromophenyl-phenylether[4-]	0.33	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Benzyl Alcohol	0.66	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Methylnaphthalene[2-]	0.33	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Naphthalene	0.33	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Dichlorobenzene[1,2-]	0.33	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Trichlorophenol[2,4,5-]	0.33	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-01432	AAA1101	1–1.5	ALLH	Diethylphthalate	0.33	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Isophorone	0.33	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Hexachlorocyclopentadiene	0.33	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Chlorophenyl-phenyl[4-] Ether	0.33	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Dimethyl Phthalate	0.33	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Pyrene	0.33	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Dinitrotoluene[2,4-]	0.33	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Dichlorophenol[2,4-]	0.33	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Methylphenol[2-]	0.33	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Benzidine	1.6	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Dichlorobenzidine[3,3'-]	0.66	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Chloronaphthalene[2-]	0.33	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Nitrosodiphenylamine[N-]	0.33	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Butylbenzylphthalate	0.33	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Phenanthrene	0.33	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Di-n-butylphthalate	0.33	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Nitrophenol[2-]	0.33	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Nitroaniline[2-]	1.6	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Trichlorophenol[2,4,6-]	0.33	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Pentachlorophenol	1.6	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Hexachlorobutadiene	0.33	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Fluorene	0.33	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Nitroaniline[3-]	1.6	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Trichlorobenzene[1,2,4-]	0.33	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Anthracene	0.33	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Dinitrotoluene[2,6-]	0.33	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Chloro-3-methylphenol[4-]	0.66	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Benz(a)anthracene	0.33	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Bis(2-chloroethoxy)methane	0.33	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Bis(2-chloroethyl)ether	0.33	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Phenol	0.33	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Oxybis(1-chloropropane)[2,2'-]	0.33	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Chloroaniline[4-]	0.66	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Dichlorobenzene[1,4-]	0.33	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Methylphenol[4-]	0.33	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Dimethylphenol[2,4-]	0.33	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Azobenzene	0.33	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Nitroaniline[4-]	1.6	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Uranium	3.5	mg/kg	None
21-01432	AAA1101	1–1.5	ALLH	Thorium-228	1.24	pCi/g	None
21-01432	AAA1101	1–1.5	ALLH	Thorium-230	0.386	pCi/g	None
21-01432	AAA1101	1–1.5	ALLH	Thorium-232	1.26	pCi/g	None
21-01432	AAA1101	1–1.5	ALLH	Plutonium-238	0.0547	pCi/g	U
21-01432	AAA1101	1–1.5	ALLH	Plutonium-239	0.153	pCi/g	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-01432	AAA1101	1–1.5	ALLH	Americium-241	0.0782	pCi/g	U
21-01432	AAA1101	1–1.5	ALLH	Strontium	1.7	mg/kg	None
21-01432	AAA1101	1–1.5	ALLH	Tritium	0.066667	pCi/g	U
21-01432	AAA1101	1–1.5	ALLH	Lithium	2.5	mg/kg	None
21-01432	AAA1101	1–1.5	ALLH	Strontium-90	0.27	pCi/g	U
21-01432	AAA1101	1–1.5	ALLH	Hexachlorobenzene	0.33	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Bis(2-ethylhexyl)phthalate	0.33	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Dichlorobenzene[1,3-]	0.33	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Dibenz(a,h)anthracene	0.33	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Dinitro-2-methylphenol[4,6-]	1.6	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Dinitrophenol[2,4-]	1.6	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Benzo(a)pyrene	0.33	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Indeno(1,2,3-cd)pyrene	0.33	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Benzo(g,h,i)perylene	0.33	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Dibenzofuran	0.33	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Hexachloroethane	0.33	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Benzoic Acid	1.6	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Nitrosodimethylamine[N-]	0.33	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Aniline	0.33	mg/kg	U
21-01432	AAA1101	1–1.5	ALLH	Nitroso-di-n-propylamine[N-]	0.33	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Magnesium	1020	mg/kg	None
21-01433	AAA1102	0–0.5	ALLH	Silver	0.65	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Cobalt	1.8	mg/kg	None
21-01433	AAA1102	0–0.5	ALLH	Copper	5	mg/kg	None
21-01433	AAA1102	0–0.5	ALLH	Chromium	4.3	mg/kg	None
21-01433	AAA1102	0–0.5	ALLH	Antimony	6.1	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Lead	14.3	mg/kg	None
21-01433	AAA1102	0–0.5	ALLH	Nickel	3.9	mg/kg	None
21-01433	AAA1102	0–0.5	ALLH	Sodium	66.4	mg/kg	None
21-01433	AAA1102	0–0.5	ALLH	Molybdenum	5.1	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Manganese	282	mg/kg	None
21-01433	AAA1102	0–0.5	ALLH	Potassium	919	mg/kg	None
21-01433	AAA1102	0–0.5	ALLH	Zinc	34	mg/kg	None
21-01433	AAA1102	0–0.5	ALLH	Vanadium	10.5	mg/kg	None
21-01433	AAA1102	0–0.5	ALLH	Thallium	0.24	mg/kg	None
21-01433	AAA1102	0–0.5	ALLH	Selenium	0.32	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Iron	8140	mg/kg	None
21-01433	AAA1102	0–0.5	ALLH	Cadmium	0.88	mg/kg	None
21-01433	AAA1102	0–0.5	ALLH	Arsenic	1.8	mg/kg	None
21-01433	AAA1102	0–0.5	ALLH	Barium	58	mg/kg	None
21-01433	AAA1102	0–0.5	ALLH	Calcium	1840	mg/kg	None
21-01433	AAA1102	0–0.5	ALLH	Beryllium	0.39	mg/kg	None
21-01433	AAA1102	0–0.5	ALLH	Aluminum	5740	mg/kg	None
21-01433	AAA1102	0–0.5	ALLH	Ethylbenzene	0.005	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-01433	AAA1102	0–0.5	ALLH	Dichlorobenzene[1,4-]	0.005	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Chlorotoluene[4-]	0.005	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Isopropyltoluene[4-]	0.005	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Isopropylbenzene	0.005	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Butylbenzene[tert-]	0.005	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Trichloropropane[1,2,3-]	0.005	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Dibromo-3-Chloropropane[1,2-]	0.005	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Trimethylbenzene[1,2,4-]	0.005	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Dichlorobenzene[1,2-]	0.005	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Chlorotoluene[2-]	0.005	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Naphthalene	0.005	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Hexachlorobutadiene	0.005	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Trichlorobenzene[1,2,3-]	0.005	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Benzo(k)fluoranthene	0.36	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Fluoranthene	0.36	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Acenaphthylene	0.36	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Uranium	5.4	mg/kg	None
21-01433	AAA1102	0–0.5	ALLH	Thorium-230	0.684	pCi/g	None
21-01433	AAA1102	0–0.5	ALLH	Thorium-232	1.12	pCi/g	None
21-01433	AAA1102	0–0.5	ALLH	Thorium-228	1.25	pCi/g	None
21-01433	AAA1102	0–0.5	ALLH	Plutonium-238	0.131	pCi/g	U
21-01433	AAA1102	0–0.5	ALLH	Plutonium-239	1.04	pCi/g	None
21-01433	AAA1102	0–0.5	ALLH	Americium-241	0.179	pCi/g	U
21-01433	AAA1102	0–0.5	ALLH	Strontium	12.6	mg/kg	None
21-01433	AAA1102	0–0.5	ALLH	Tritium	0.244444	pCi/g	None
21-01433	AAA1102	0–0.5	ALLH	Lithium	5.6	mg/kg	None
21-01433	AAA1102	0–0.5	ALLH	Strontium-90	0.508	pCi/g	U
21-01433	AAA1102	0–0.5	ALLH	Tetrachloroethane[1,1,2,2-]	0.005	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Trichloroethene	0.005	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Trichloroethane[1,1,2-]	0.005	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Dichloropropane[1,2-]	0.005	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Trichloro-1,2,2-trifluoroethane[1,1,2-]	0.005	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Dichloroethene[trans-1,2-]	0.005	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Dichloropropane[1,3-]	0.005	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Butylbenzene[sec-]	0.005	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Xylene (Total)	0.005	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Tetrachloroethene	0.005	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Chlorodibromomethane	0.005	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Trichlorobenzene[1,2,4-]	0.005	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Chlorobenzene	0.005	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Chloroform	0.005	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Acetone	0.011	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Tetrachloroethane[1,1,1,2-]	0.005	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Dichloropropane[2,2-]	0.005	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-01433	AAA1102	0–0.5	ALLH	Hexanone[2-]	0.011	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Dichloropropene[1,1-]	0.005	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Carbon Tetrachloride	0.005	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Dichlorobenzene[1,3-]	0.005	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Dichlorodifluoromethane	0.011	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Trichlorofluoromethane	0.011	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Dichloroethene[1,1-]	0.005	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Dichloroethane[1,1-]	0.005	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Bromodichloromethane	0.005	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Bromoform	0.005	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Carbon Disulfide	0.005	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Vinyl Chloride	0.011	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Chloroethane	0.011	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Bromochloromethane	0.005	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Dibromomethane	0.005	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Iodomethane	0.005	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Chloromethane	0.011	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Bromomethane	0.011	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Trichloroethane[1,1,1-]	0.005	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Benzene	0.005	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Toluene	0.005	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Bromobenzene	0.005	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Trimethylbenzene[1,3,5-]	0.005	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Methyl-2-pentanone[4-]	0.011	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Vinyl acetate	0.011	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Acrylonitrile	0.11	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Dichloroethane[1,2-]	0.005	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Acrolein	0.11	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Dibromoethane[1,2-]	0.005	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Styrene	0.005	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Dichloropropene[trans-1,3-]	0.005	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Propylbenzene[1-]	0.005	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Butylbenzene[n-]	0.005	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Dichloropropene[cis-1,3-]	0.005	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Dichloroethene[cis-1,2-]	0.005	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Methylene Chloride	0.005	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Butanone[2-]	0.011	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Acenaphthene	0.36	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Isophorone	0.36	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Hexachlorocyclopentadiene	0.36	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Chlorophenyl-phenyl[4-] Ether	0.36	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Hexachloroethane	0.36	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Benzoic Acid	1.7	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Nitrosodimethylamine[N-]	0.36	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-01433	AAA1102	0–0.5	ALLH	Aniline	0.36	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Methylphenol[2-]	0.36	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Benzidine	1.7	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Dichlorobenzidine[3,3'-]	0.72	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Chloronaphthalene[2-]	0.36	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Methylnaphthalene[2-]	0.36	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Naphthalene	0.36	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Nitrophenol[2-]	0.36	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Nitroaniline[2-]	1.7	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Nitroaniline[3-]	1.7	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Nitrobenzene	0.36	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Chlorophenol[2-]	0.36	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Dichlorobenzene[1,2-]	0.36	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Trichlorophenol[2,4,6-]	0.36	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Pentachlorophenol	1.7	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Hexachlorobutadiene	0.36	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Fluorene	0.36	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Nitrosodiphenylamine[N-]	0.36	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Butylbenzylphthalate	0.36	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Phenanthrene	0.36	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Di-n-butylphthalate	0.36	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Nitroso-di-n-propylamine[N-]	0.36	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Dinitrotoluene[2,6-]	0.36	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Chloro-3-methylphenol[4-]	0.72	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Benz(a)anthracene	0.36	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Dichlorobenzene[1,3-]	0.36	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Dibenz(a,h)anthracene	0.36	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Dinitro-2-methylphenol[4,6-]	1.7	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Dinitrophenol[2,4-]	1.7	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Oxybis(1-chloropropane)[2,2'-]	0.36	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Chloroaniline[4-]	0.72	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Dichlorobenzene[1,4-]	0.36	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Methylphenol[4-]	0.36	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Dimethylphenol[2,4-]	0.36	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Azobenzene	0.36	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Dichlorophenol[2,4-]	0.36	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Trichlorobenzene[1,2,4-]	0.36	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Hexachlorobenzene	0.36	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Di-n-octylphthalate	0.36	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Bis(2-ethylhexyl)phthalate	0.36	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Bis(2-chloroethoxy)methane	0.36	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Bis(2-chloroethyl)ether	0.36	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Phenol	0.36	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Benzo(a)pyrene	0.36	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-01433	AAA1102	0–0.5	ALLH	Indeno(1,2,3-cd)pyrene	0.36	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Benzo(g,h,i)perylene	0.36	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Dibenzofuran	0.36	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Dimethyl Phthalate	0.36	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Pyrene	0.36	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Dinitrotoluene[2,4-]	0.36	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Bromophenyl-phenylether[4-]	0.36	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Benzyl Alcohol	0.72	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Nitrophenol[4-]	1.7	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Nitroaniline[4-]	1.7	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Trichlorophenol[2,4,5-]	0.36	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Diethylphthalate	0.36	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Anthracene	0.36	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Benzo(b)fluoranthene	0.36	mg/kg	U
21-01433	AAA1102	0–0.5	ALLH	Chrysene	0.36	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Silver	0.62	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Cadmium	0.62	mg/kg	None
21-01433	AAA1103	0.5–1	ALLH	Chromium	5	mg/kg	None
21-01433	AAA1103	0.5–1	ALLH	Iron	5810	mg/kg	None
21-01433	AAA1103	0.5–1	ALLH	Potassium	265	mg/kg	None
21-01433	AAA1103	0.5–1	ALLH	Zinc	22.6	mg/kg	None
21-01433	AAA1103	0.5–1	ALLH	Vanadium	5.8	mg/kg	None
21-01433	AAA1103	0.5–1	ALLH	Thallium	0.15	mg/kg	None
21-01433	AAA1103	0.5–1	ALLH	Antimony	5.9	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Lead	4.2	mg/kg	None
21-01433	AAA1103	0.5–1	ALLH	Nickel	3.2	mg/kg	None
21-01433	AAA1103	0.5–1	ALLH	Sodium	90.4	mg/kg	None
21-01433	AAA1103	0.5–1	ALLH	Molybdenum	4.8	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Manganese	116	mg/kg	None
21-01433	AAA1103	0.5–1	ALLH	Magnesium	437	mg/kg	None
21-01433	AAA1103	0.5–1	ALLH	Copper	2	mg/kg	None
21-01433	AAA1103	0.5–1	ALLH	Cobalt	1	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Calcium	766	mg/kg	None
21-01433	AAA1103	0.5–1	ALLH	Aluminum	3350	mg/kg	None
21-01433	AAA1103	0.5–1	ALLH	Barium	24.7	mg/kg	None
21-01433	AAA1103	0.5–1	ALLH	Arsenic	0.97	mg/kg	None
21-01433	AAA1103	0.5–1	ALLH	Beryllium	0.4	mg/kg	None
21-01433	AAA1103	0.5–1	ALLH	Selenium	0.31	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Methyl-2-pentanone[4-]	0.01	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Trichlorobenzene[1,2,3-]	0.005	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Isopropyltoluene[4-]	0.005	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Dibromomethane	0.005	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Ethylbenzene	0.005	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Dichlorobenzene[1,4-]	0.005	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-01433	AAA1103	0.5–1	ALLH	Chlorotoluene[4-]	0.005	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Isopropylbenzene	0.005	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Butylbenzene[tert-]	0.005	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Trichloropropane[1,2,3-]	0.005	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Dibromo-3-Chloropropane[1,2-]	0.005	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Trimethylbenzene[1,2,4-]	0.005	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Dichlorobenzene[1,2-]	0.005	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Chlorotoluene[2-]	0.005	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Naphthalene	0.005	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Hexachlorobutadiene	0.005	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Tetrachloroethane[1,1,2,2-]	0.005	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Trichloroethene	0.005	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Trichloroethane[1,1,2-]	0.005	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Butanone[2-]	0.01	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Dichloropropane[1,2-]	0.005	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Trichloro-1,2,2-trifluoroethane[1,1,2-]	0.005	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Dichlorodifluoromethane	0.01	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Dichloroethene[trans-1,2-]	0.005	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Dichloroethene[cis-1,2-]	0.005	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Dichloropropane[1,3-]	0.005	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Butylbenzene[sec-]	0.005	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Xylene (Total)	0.005	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Tetrachloroethene	0.005	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Chlorodibromomethane	0.005	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Trichlorobenzene[1,2,4-]	0.005	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Acetone	0.036	mg/kg	None
21-01433	AAA1103	0.5–1	ALLH	Tetrachloroethane[1,1,1,2-]	0.005	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Dichloropropane[2,2-]	0.005	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Hexanone[2-]	0.01	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Dichloropropene[1,1-]	0.005	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Carbon Tetrachloride	0.005	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Dichlorobenzene[1,3-]	0.005	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Trichlorofluoromethane	0.01	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Dichloroethene[1,1-]	0.005	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Dichloroethane[1,1-]	0.005	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Bromodichloromethane	0.005	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Bromoform	0.005	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Carbon Disulfide	0.005	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Methylene Chloride	0.005	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Vinyl Chloride	0.01	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Chloroethane	0.01	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Bromochloromethane	0.005	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Iodomethane	0.005	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Chloromethane	0.01	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-01433	AAA1103	0.5–1	ALLH	Bromomethane	0.01	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Trichloroethane[1,1,1-]	0.005	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Benzene	0.005	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Chloroform	0.005	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Chlorobenzene	0.005	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Toluene	0.005	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Bromobenzene	0.005	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Trimethylbenzene[1,3,5-]	0.005	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Vinyl acetate	0.01	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Acrylonitrile	0.1	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Dichloroethane[1,2-]	0.005	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Acrolein	0.1	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Dibromoethane[1,2-]	0.005	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Styrene	0.005	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Dichloropropene[trans-1,3-]	0.005	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Propylbenzene[1-]	0.005	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Butylbenzene[n-]	0.005	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Dichloropropene[cis-1,3-]	0.005	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Chrysene	0.34	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Benzo(k)fluoranthene	0.34	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Acenaphthylene	0.34	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Fluoranthene	0.34	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Trichlorophenol[2,4,6-]	0.34	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Nitroaniline[4-]	1.6	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Benzidine	1.6	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Dichlorobenzidine[3,3'-]	0.67	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Chloronaphthalene[2-]	0.34	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Methylnaphthalene[2-]	0.34	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Naphthalene	0.34	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Nitrophenol[2-]	0.34	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Nitroaniline[2-]	1.6	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Pentachlorophenol	1.6	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Nitroaniline[3-]	1.6	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Nitrobenzene	0.34	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Trichlorophenol[2,4,5-]	0.34	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Chlorophenol[2-]	0.34	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Dichlorobenzene[1,2-]	0.34	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Methylphenol[2-]	0.34	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Hexachlorobutadiene	0.34	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Fluorene	0.34	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Nitrosodiphenylamine[N-]	0.34	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Butylbenzylphthalate	0.34	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Phenanthrene	0.34	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Di-n-butylphthalate	0.34	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-01433	AAA1103	0.5–1	ALLH	Diethylphthalate	0.34	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Acenaphthene	0.34	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Anthracene	0.34	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Hexachlorobenzene	0.34	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Di-n-octylphthalate	0.34	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Bis(2-ethylhexyl)phthalate	0.34	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Bis(2-chloroethoxy)methane	0.34	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Bis(2-chloroethyl)ether	0.34	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Phenol	0.34	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Oxybis(1-chloropropane)[2,2'-]	0.34	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Benzo(g,h,i)perylene	0.34	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Dibenzofuran	0.34	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Dimethyl Phthalate	0.34	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Pyrene	0.34	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Dinitrotoluene[2,4-]	0.34	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Dichlorophenol[2,4-]	0.34	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Trichlorobenzene[1,2,4-]	0.34	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Isophorone	0.34	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Hexachlorocyclopentadiene	0.34	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Chlorophenyl-phenyl[4-] Ether	0.34	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Hexachloroethane	0.34	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Benzoic Acid	1.6	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Nitrosodimethylamine[N-]	0.34	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Aniline	0.34	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Nitroso-di-n-propylamine[N-]	0.34	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Dinitrotoluene[2,6-]	0.34	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Chloro-3-methylphenol[4-]	0.67	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Benz(a)anthracene	0.34	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Dichlorobenzene[1,3-]	0.34	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Dibenz(a,h)anthracene	0.34	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Dinitro-2-methylphenol[4,6-]	1.6	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Dinitrophenol[2,4-]	1.6	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Indeno(1,2,3-cd)pyrene	0.34	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Chloroaniline[4-]	0.67	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Dichlorobenzene[1,4-]	0.34	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Methylphenol[4-]	0.34	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Dimethylphenol[2,4-]	0.34	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Azobenzene	0.34	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Bromophenyl-phenylether[4-]	0.34	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Benzyl Alcohol	0.67	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Nitrophenol[4-]	1.6	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Benzo(a)pyrene	0.34	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Benzo(b)fluoranthene	0.34	mg/kg	U
21-01433	AAA1103	0.5–1	ALLH	Uranium	3.7	mg/kg	None

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-01433	AAA1103	0.5–1	ALLH	Thorium-228	1.14	pCi/g	None
21-01433	AAA1103	0.5–1	ALLH	Thorium-232	1.21	pCi/g	None
21-01433	AAA1103	0.5–1	ALLH	Thorium-230	0.394	pCi/g	None
21-01433	AAA1103	0.5–1	ALLH	Plutonium-239	0.0412	pCi/g	U
21-01433	AAA1103	0.5–1	ALLH	Plutonium-238	0.0309	pCi/g	U
21-01433	AAA1103	0.5–1	ALLH	Americium-241	0.0572	pCi/g	U
21-01433	AAA1103	0.5–1	ALLH	Strontium	5.4	mg/kg	None
21-01433	AAA1103	0.5–1	ALLH	Tritium	0.111111	pCi/g	None
21-01433	AAA1103	0.5–1	ALLH	Lithium	2.8	mg/kg	None
21-01433	AAA1103	0.5–1	ALLH	Strontium-90	0.42	pCi/g	U
21-01433	AAA1104	1–1.5	ALLH	Nitroaniline[2-]	1.7	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Trichlorophenol[2,4,6-]	0.34	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Pentachlorophenol	1.7	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Benzo(g,h,i)perylene	0.34	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Dichloropropene[1,1-]	0.005	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Carbon Tetrachloride	0.005	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Dichlorobenzene[1,3-]	0.005	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Dichloroethene[1,1-]	0.005	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Barium	27.6	mg/kg	None
21-01433	AAA1104	1–1.5	ALLH	Dichloroethane[1,1-]	0.005	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Bromodichloromethane	0.005	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Acrolein	0.1	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Dibromoethane[1,2-]	0.005	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Styrene	0.005	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Dichloropropene[trans-1,3-]	0.005	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Propylbenzene[1-]	0.005	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Butylbenzene[n-]	0.005	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Dichloropropene[cis-1,3-]	0.005	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Dichloroethene[trans-1,2-]	0.005	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Chloroethane	0.01	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Dichloropropane[1,2-]	0.005	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Bromoform	0.005	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Carbon Disulfide	0.005	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Methylene Chloride	0.007	mg/kg	None
21-01433	AAA1104	1–1.5	ALLH	Vinyl Chloride	0.01	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Bromochloromethane	0.005	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Dibromomethane	0.005	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Iodomethane	0.005	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Chloromethane	0.01	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Bromomethane	0.01	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Trichloroethane[1,1,1-]	0.005	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Benzene	0.005	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Chloroform	0.005	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Acetone	0.042	mg/kg	None

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-01433	AAA1104	1–1.5	ALLH	Toluene	0.005	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Bromobenzene	0.005	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Trimethylbenzene[1,3,5-]	0.005	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Methyl-2-pentanone[4-]	0.01	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Vinyl acetate	0.01	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Acrylonitrile	0.1	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Dichloroethane[1,2-]	0.005	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Potassium	315	mg/kg	None
21-01433	AAA1104	1–1.5	ALLH	Silver	0.63	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Nickel	4.1	mg/kg	None
21-01433	AAA1104	1–1.5	ALLH	Sodium	74.7	mg/kg	None
21-01433	AAA1104	1–1.5	ALLH	Molybdenum	4.9	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Manganese	287	mg/kg	None
21-01433	AAA1104	1–1.5	ALLH	Magnesium	485	mg/kg	None
21-01433	AAA1104	1–1.5	ALLH	Iron	5670	mg/kg	None
21-01433	AAA1104	1–1.5	ALLH	Copper	4.5	mg/kg	None
21-01433	AAA1104	1–1.5	ALLH	Zinc	27.9	mg/kg	None
21-01433	AAA1104	1–1.5	ALLH	Vanadium	6.3	mg/kg	None
21-01433	AAA1104	1–1.5	ALLH	Thallium	0.1	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Selenium	0.31	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Antimony	6	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Bromophenyl-phenylether[4-]	0.34	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Dimethylphenol[2,4-]	0.34	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Azobenzene	0.34	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Nitroaniline[3-]	1.7	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Nitrobenzene	0.34	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Trichlorophenol[2,4,5-]	0.34	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Chlorophenol[2-]	0.34	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Dichlorobenzene[1,2-]	0.34	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Methylphenol[2-]	0.34	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Benzidine	1.7	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Dichlorobenzidine[3,3'-]	0.68	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Chloronaphthalene[2-]	0.34	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Lead	3.7	mg/kg	None
21-01433	AAA1104	1–1.5	ALLH	Beryllium	0.79	mg/kg	None
21-01433	AAA1104	1–1.5	ALLH	Calcium	514	mg/kg	None
21-01433	AAA1104	1–1.5	ALLH	Cadmium	0.61	mg/kg	None
21-01433	AAA1104	1–1.5	ALLH	Chromium	3.3	mg/kg	None
21-01433	AAA1104	1–1.5	ALLH	Cobalt	1	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Arsenic	1.4	mg/kg	None
21-01433	AAA1104	1–1.5	ALLH	Aluminum	3170	mg/kg	None
21-01433	AAA1104	1–1.5	ALLH	Ethylbenzene	0.005	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Dichlorobenzene[1,4-]	0.005	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Chlorotoluene[4-]	0.005	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-01433	AAA1104	1–1.5	ALLH	Butylbenzene[tert-]	0.005	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Trichloropropane[1,2,3-]	0.005	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Dibromo-3-Chloropropane[1,2-]	0.005	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Trimethylbenzene[1,2,4-]	0.005	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Dichlorobenzene[1,2-]	0.005	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Chlorotoluene[2-]	0.005	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Naphthalene	0.005	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Hexachlorobutadiene	0.005	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Isopropyltoluene[4-]	0.005	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Nitrosodiphenylamine[N-]	0.34	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Butylbenzylphthalate	0.34	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Acenaphthylene	0.34	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Phenanthrene	0.34	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Di-n-butylphthalate	0.34	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Diethylphthalate	0.34	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Acenaphthene	0.34	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Isophorone	0.34	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Hexachlorocyclopentadiene	0.34	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Americium-241	0.058	pCi/g	U
21-01433	AAA1104	1–1.5	ALLH	Strontium	4	mg/kg	None
21-01433	AAA1104	1–1.5	ALLH	Tritium	0.077778	pCi/g	U
21-01433	AAA1104	1–1.5	ALLH	Chlorophenyl-phenyl[4-] Ether	0.34	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Benzoic Acid	1.7	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Strontium-90	0.448	pCi/g	U
21-01433	AAA1104	1–1.5	ALLH	Thorium-230	0.683	pCi/g	None
21-01433	AAA1104	1–1.5	ALLH	Uranium	3.4	mg/kg	None
21-01433	AAA1104	1–1.5	ALLH	Thorium-228	1.38	pCi/g	None
21-01433	AAA1104	1–1.5	ALLH	Thorium-232	1.13	pCi/g	None
21-01433	AAA1104	1–1.5	ALLH	Plutonium-238	0.0834	pCi/g	U
21-01433	AAA1104	1–1.5	ALLH	Plutonium-239	0.0169	pCi/g	U
21-01433	AAA1104	1–1.5	ALLH	Lithium	3	mg/kg	None
21-01433	AAA1104	1–1.5	ALLH	Nitrosodimethylamine[N-]	0.34	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Aniline	0.34	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Methylnaphthalene[2-]	0.34	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Naphthalene	0.34	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Nitrophenol[2-]	0.34	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Benzyl Alcohol	0.68	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Nitroaniline[4-]	1.7	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Nitrophenol[4-]	1.7	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Phenol	0.34	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Hexachloroethane	0.34	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Benzo(b)fluoranthene	0.34	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Fluoranthene	0.34	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Benzo(k)fluoranthene	0.34	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-01433	AAA1104	1–1.5	ALLH	Dibenzofuran	0.34	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Dimethyl Phthalate	0.34	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Pyrene	0.34	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Dinitrotoluene[2,4-]	0.34	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Dichlorophenol[2,4-]	0.34	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Trichlorobenzene[1,2,4-]	0.34	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Anthracene	0.34	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Chloro-3-methylphenol[4-]	0.68	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Benz(a)anthracene	0.34	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Dichlorobenzene[1,3-]	0.34	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Dibenz(a,h)anthracene	0.34	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Dinitro-2-methylphenol[4,6-]	1.7	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Dinitrophenol[2,4-]	1.7	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Benzo(a)pyrene	0.34	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Indeno(1,2,3-cd)pyrene	0.34	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Hexachlorobutadiene	0.34	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Fluorene	0.34	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Nitroso-di-n-propylamine[N-]	0.34	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Dinitrotoluene[2,6-]	0.34	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Hexachlorobenzene	0.34	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Di-n-octylphthalate	0.34	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Bis(2-ethylhexyl)phthalate	0.34	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Bis(2-chloroethoxy)methane	0.34	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Bis(2-chloroethyl)ether	0.34	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Oxybis(1-chloropropane)[2,2'-]	0.34	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Chloroaniline[4-]	0.68	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Dichlorobenzene[1,4-]	0.34	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Methylphenol[4-]	0.34	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Chrysene	0.34	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Isopropylbenzene	0.005	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Trichlorobenzene[1,2,3-]	0.005	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Tetrachloroethane[1,1,2,2-]	0.005	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Trichloroethene	0.005	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Trichloroethane[1,1,2-]	0.005	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Butanone[2-]	0.01	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Trichloro-1,2,2-trifluoroethane[1,1,2-]	0.005	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Dichlorodifluoromethane	0.01	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Trichlorofluoromethane	0.01	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Dichloroethene[cis-1,2-]	0.005	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Dichloropropane[1,3-]	0.005	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Butylbenzene[sec-]	0.005	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Xylene (Total)	0.005	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Chlorodibromomethane	0.005	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Trichlorobenzene[1,2,4-]	0.005	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-01433	AAA1104	1–1.5	ALLH	Tetrachloroethene	0.005	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Chlorobenzene	0.005	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Tetrachloroethane[1,1,1,2-]	0.005	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Dichloropropane[2,2-]	0.005	mg/kg	U
21-01433	AAA1104	1–1.5	ALLH	Hexanone[2-]	0.01	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Benzo(k)fluoranthene	0.66	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Fluoranthene	0.66	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Chrysene	0.66	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Benzo(b)fluoranthene	0.66	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Acenaphthylene	0.66	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Hexachlorobenzene	0.66	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Acenaphthene	0.66	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Nitroaniline[4-]	3.3	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Anthracene	0.66	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Di-n-octylphthalate	0.66	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Bis(2-ethylhexyl)phthalate	0.66	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Bis(2-chloroethoxy)methane	0.66	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Bis(2-chloroethyl)ether	0.66	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Phenol	0.66	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Oxybis(1-chloropropane)[2,2'-]	0.66	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Chloroaniline[4-]	1.3	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Dibenzofuran	0.66	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Dimethyl Phthalate	0.66	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Pyrene	0.66	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Dinitrotoluene[2,4-]	0.66	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Dichlorophenol[2,4-]	0.66	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Trichlorobenzene[1,2,4-]	0.66	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Chlorophenyl-phenyl[4-] Ether	0.66	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Hexachloroethane	0.66	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Benzoic Acid	3.3	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Nitrosodimethylamine[N-]	0.66	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Aniline	0.66	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Nitroso-di-n-propylamine[N-]	0.66	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Dinitrotoluene[2,6-]	0.66	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Chloro-3-methylphenol[4-]	1.3	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Chloronaphthalene[2-]	0.66	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Methylnaphthalene[2-]	0.66	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Naphthalene	0.66	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Nitrophenol[2-]	0.66	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Nitroaniline[2-]	3.3	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Trichlorophenol[2,4,6-]	0.66	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Pentachlorophenol	3.3	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Hexachlorobutadiene	0.66	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Nitroaniline[3-]	3.3	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-01680	AAA4173	0–2.5	Qbt 3	Nitrobenzene	0.66	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Trichlorophenol[2,4,5-]	0.66	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Chlorophenol[2-]	0.66	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Dichlorobenzene[1,2-]	0.66	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Methylphenol[2-]	0.66	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Benzidine	3.3	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Dichlorobenzidine[3,3'-]	1.3	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Fluorene	0.66	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Nitrosodiphenylamine[N-]	0.66	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Butylbenzylphthalate	0.66	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Phenanthrene	0.66	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Di-n-butylphthalate	0.66	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Diethylphthalate	0.66	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Isophorone	0.66	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Hexachlorocyclopentadiene	0.66	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Benz(a)anthracene	0.66	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Dichlorobenzene[1,3-]	0.66	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Dibenz(a,h)anthracene	0.66	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Dinitro-2-methylphenol[4,6-]	3.3	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Dinitrophenol[2,4-]	3.3	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Benzo(a)pyrene	0.66	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Indeno(1,2,3-cd)pyrene	0.66	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Benzo(g,h,i)perylene	0.66	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Bromophenyl-phenylether[4-]	0.66	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Azobenzene	0.66	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Dimethylphenol[2,4-]	0.66	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Dichlorobenzene[1,4-]	0.66	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Methylphenol[4-]	0.66	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Benzyl Alcohol	1.3	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Nitrophenol[4-]	3.3	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Silver	1	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Copper	0.72	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Chromium	3.5	mg/kg	None
21-01680	AAA4173	0–2.5	Qbt 3	Zinc	10.5	mg/kg	None
21-01680	AAA4173	0–2.5	Qbt 3	Vanadium	2.8	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Thallium	0.21	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Selenium	0.41	mg/kg	UJ
21-01680	AAA4173	0–2.5	Qbt 3	Antimony	0.21	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Lead	3.1	mg/kg	None
21-01680	AAA4173	0–2.5	Qbt 3	Nickel	2.3	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Molybdenum	6	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Manganese	27.7	mg/kg	None
21-01680	AAA4173	0–2.5	Qbt 3	Magnesium	199	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Potassium	220	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-01680	AAA4173	0–2.5	Qbt 3	Iron	2220	mg/kg	None
21-01680	AAA4173	0–2.5	Qbt 3	Arsenic	0.99	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Beryllium	0.21	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Calcium	93.5	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Cobalt	1.9	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Barium	11.4	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Aluminum	1070	mg/kg	None
21-01680	AAA4173	0–2.5	Qbt 3	Cadmium	0.62	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Strontium	1.1	mg/kg	U
21-01680	AAA4173	0–2.5	Qbt 3	Lithium	1.4	mg/kg	U
21-01680	AAA4176	2.5–5	Qbt 3	Dichlorobenzene[1,2-]	0.66	mg/kg	U
21-01680	AAA4176	2.5–5	Qbt 3	Benz(a)anthracene	0.66	mg/kg	U
21-01680	AAA4176	2.5–5	Qbt 3	Benzo(b)fluoranthene	0.66	mg/kg	U
21-01680	AAA4176	2.5–5	Qbt 3	Fluoranthene	0.66	mg/kg	U
21-01680	AAA4176	2.5–5	Qbt 3	Acenaphthylene	0.66	mg/kg	U
21-01680	AAA4176	2.5–5	Qbt 3	Benzo(k)fluoranthene	0.66	mg/kg	U
21-01680	AAA4176	2.5–5	Qbt 3	Aniline	0.66	mg/kg	U
21-01680	AAA4176	2.5–5	Qbt 3	Bis(2-ethylhexyl)phthalate	0.66	mg/kg	U
21-01680	AAA4176	2.5–5	Qbt 3	Bis(2-chloroethoxy)methane	0.66	mg/kg	U
21-01680	AAA4176	2.5–5	Qbt 3	Antimony	0.21	mg/kg	U
21-01680	AAA4176	2.5–5	Qbt 3	Lead	7.9	mg/kg	None
21-01680	AAA4176	2.5–5	Qbt 3	Nickel	7.1	mg/kg	U
21-01680	AAA4176	2.5–5	Qbt 3	Molybdenum	6.1	mg/kg	U
21-01680	AAA4176	2.5–5	Qbt 3	Manganese	99.2	mg/kg	None
21-01680	AAA4176	2.5–5	Qbt 3	Magnesium	1910	mg/kg	None
21-01680	AAA4176	2.5–5	Qbt 3	Potassium	961	mg/kg	U
21-01680	AAA4176	2.5–5	Qbt 3	Iron	7300	mg/kg	None
21-01680	AAA4176	2.5–5	Qbt 3	Copper	9.8	mg/kg	None
21-01680	AAA4176	2.5–5	Qbt 3	Barium	62.7	mg/kg	None
21-01680	AAA4176	2.5–5	Qbt 3	Calcium	8340	mg/kg	None
21-01680	AAA4176	2.5–5	Qbt 3	Cadmium	0.63	mg/kg	U
21-01680	AAA4176	2.5–5	Qbt 3	Chromium	14.5	mg/kg	None
21-01680	AAA4176	2.5–5	Qbt 3	Cobalt	1.9	mg/kg	U
21-01680	AAA4176	2.5–5	Qbt 3	Arsenic	1.4	mg/kg	U
21-01680	AAA4176	2.5–5	Qbt 3	Aluminum	7750	mg/kg	None
21-01680	AAA4176	2.5–5	Qbt 3	Strontium	32.3	mg/kg	None
21-01680	AAA4176	2.5–5	Qbt 3	Lithium	6.1	mg/kg	U
21-01680	AAA4176	2.5–5	Qbt 3	Bis(2-chloroethyl)ether	0.66	mg/kg	U
21-01680	AAA4176	2.5–5	Qbt 3	Phenol	0.66	mg/kg	U
21-01680	AAA4176	2.5–5	Qbt 3	Oxybis(1-chloropropane)[2,2'-]	0.66	mg/kg	U
21-01680	AAA4176	2.5–5	Qbt 3	Indeno(1,2,3-cd)pyrene	0.66	mg/kg	U
21-01680	AAA4176	2.5–5	Qbt 3	Benzo(g,h,i)perylene	0.66	mg/kg	U
21-01680	AAA4176	2.5–5	Qbt 3	Dibenzofuran	0.66	mg/kg	U
21-01680	AAA4176	2.5–5	Qbt 3	Dimethyl Phthalate	0.66	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-01680	AAA4176	2.5–5	Qbt 3	Pyrene	0.66	mg/kg	U
21-01680	AAA4176	2.5–5	Qbt 3	Dinitrotoluene[2,4-]	0.66	mg/kg	U
21-01680	AAA4176	2.5–5	Qbt 3	Dichlorophenol[2,4-]	0.66	mg/kg	U
21-01680	AAA4176	2.5–5	Qbt 3	Trichlorobenzene[1,2,4-]	0.66	mg/kg	U
21-01680	AAA4176	2.5–5	Qbt 3	Diethylphthalate	0.66	mg/kg	U
21-01680	AAA4176	2.5–5	Qbt 3	Acenaphthene	0.66	mg/kg	U
21-01680	AAA4176	2.5–5	Qbt 3	Isophorone	0.66	mg/kg	U
21-01680	AAA4176	2.5–5	Qbt 3	Hexachlorocyclopentadiene	0.66	mg/kg	U
21-01680	AAA4176	2.5–5	Qbt 3	Chlorophenyl-phenyl[4-] Ether	0.66	mg/kg	U
21-01680	AAA4176	2.5–5	Qbt 3	Hexachloroethane	0.66	mg/kg	U
21-01680	AAA4176	2.5–5	Qbt 3	Benzoic Acid	3.3	mg/kg	U
21-01680	AAA4176	2.5–5	Qbt 3	Nitroaniline[4-]	3.3	mg/kg	U
21-01680	AAA4176	2.5–5	Qbt 3	Anthracene	0.66	mg/kg	U
21-01680	AAA4176	2.5–5	Qbt 3	Hexachlorobenzene	0.66	mg/kg	U
21-01680	AAA4176	2.5–5	Qbt 3	Di-n-octylphthalate	0.66	mg/kg	U
21-01680	AAA4176	2.5–5	Qbt 3	Nitrosodimethylamine[N-]	0.66	mg/kg	U
21-01680	AAA4176	2.5–5	Qbt 3	Methylphenol[2-]	0.66	mg/kg	U
21-01680	AAA4176	2.5–5	Qbt 3	Benzidine	3.3	mg/kg	U
21-01680	AAA4176	2.5–5	Qbt 3	Dichlorobenzidine[3,3'-]	1.3	mg/kg	U
21-01680	AAA4176	2.5–5	Qbt 3	Chloronaphthalene[2-]	0.66	mg/kg	U
21-01680	AAA4176	2.5–5	Qbt 3	Methylnaphthalene[2-]	0.66	mg/kg	U
21-01680	AAA4176	2.5–5	Qbt 3	Naphthalene	0.66	mg/kg	U
21-01680	AAA4176	2.5–5	Qbt 3	Nitrophenol[2-]	0.66	mg/kg	U
21-01680	AAA4176	2.5–5	Qbt 3	Nitroaniline[2-]	3.3	mg/kg	U
21-01680	AAA4176	2.5–5	Qbt 3	Nitroaniline[3-]	3.3	mg/kg	U
21-01680	AAA4176	2.5–5	Qbt 3	Nitrobenzene	0.66	mg/kg	U
21-01680	AAA4176	2.5–5	Qbt 3	Trichlorophenol[2,4,5-]	0.66	mg/kg	U
21-01680	AAA4176	2.5–5	Qbt 3	Chlorophenol[2-]	0.66	mg/kg	U
21-01680	AAA4176	2.5–5	Qbt 3	Trichlorophenol[2,4,6-]	0.66	mg/kg	U
21-01680	AAA4176	2.5–5	Qbt 3	Pentachlorophenol	3.3	mg/kg	U
21-01680	AAA4176	2.5–5	Qbt 3	Hexachlorobutadiene	0.66	mg/kg	U
21-01680	AAA4176	2.5–5	Qbt 3	Fluorene	0.66	mg/kg	U
21-01680	AAA4176	2.5–5	Qbt 3	Nitrosodiphenylamine[N-]	0.66	mg/kg	U
21-01680	AAA4176	2.5–5	Qbt 3	Butylbenzylphthalate	0.66	mg/kg	U
21-01680	AAA4176	2.5–5	Qbt 3	Phenanthrene	0.66	mg/kg	U
21-01680	AAA4176	2.5–5	Qbt 3	Di-n-butylphthalate	0.66	mg/kg	U
21-01680	AAA4176	2.5–5	Qbt 3	Nitroso-di-n-propylamine[N-]	0.66	mg/kg	U
21-01680	AAA4176	2.5–5	Qbt 3	Dinitrotoluene[2,6-]	0.66	mg/kg	U
21-01680	AAA4176	2.5–5	Qbt 3	Chloro-3-methylphenol[4-]	1.3	mg/kg	U
21-01680	AAA4176	2.5–5	Qbt 3	Dichlorobenzene[1,3-]	0.66	mg/kg	U
21-01680	AAA4176	2.5–5	Qbt 3	Dibenz(a,h)anthracene	0.66	mg/kg	U
21-01680	AAA4176	2.5–5	Qbt 3	Dinitro-2-methylphenol[4,6-]	3.3	mg/kg	U
21-01680	AAA4176	2.5–5	Qbt 3	Dinitrophenol[2,4-]	3.3	mg/kg	U
21-01680	AAA4176	2.5–5	Qbt 3	Benzo(a)pyrene	0.66	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-01680	AAA4176	2.5–5	Qbt 3	Bromophenyl-phenylether[4-]	0.66	mg/kg	U
21-01680	AAA4176	2.5–5	Qbt 3	Dimethylphenol[2,4-]	0.66	mg/kg	U
21-01680	AAA4176	2.5–5	Qbt 3	Methylphenol[4-]	0.66	mg/kg	U
21-01680	AAA4176	2.5–5	Qbt 3	Chloroaniline[4-]	1.3	mg/kg	U
21-01680	AAA4176	2.5–5	Qbt 3	Dichlorobenzene[1,4-]	0.66	mg/kg	U
21-01680	AAA4176	2.5–5	Qbt 3	Benzyl Alcohol	1.3	mg/kg	U
21-01680	AAA4176	2.5–5	Qbt 3	Nitrophenol[4-]	3.3	mg/kg	U
21-01680	AAA4176	2.5–5	Qbt 3	Azobenzene	0.66	mg/kg	U
21-01680	AAA4176	2.5–5	Qbt 3	Chrysene	0.66	mg/kg	U
21-01680	AAA4176	2.5–5	Qbt 3	Silver	1.1	mg/kg	U
21-01680	AAA4176	2.5–5	Qbt 3	Beryllium	1.9	mg/kg	None
21-01680	AAA4176	2.5–5	Qbt 3	Zinc	27.1	mg/kg	None
21-01680	AAA4176	2.5–5	Qbt 3	Vanadium	12.8	mg/kg	None
21-01680	AAA4176	2.5–5	Qbt 3	Thallium	0.21	mg/kg	U
21-01680	AAA4176	2.5–5	Qbt 3	Selenium	0.42	mg/kg	UJ
21-01680	AAA4177	5–7.5	Qbt 3	Benzo(g,h,i)perylene	0.66	mg/kg	U
21-01680	AAA4177	5–7.5	Qbt 3	Chrysene	0.66	mg/kg	U
21-01680	AAA4177	5–7.5	Qbt 3	Fluoranthene	0.66	mg/kg	U
21-01680	AAA4177	5–7.5	Qbt 3	Acenaphthylene	0.66	mg/kg	U
21-01680	AAA4177	5–7.5	Qbt 3	Benzo(k)fluoranthene	0.66	mg/kg	U
21-01680	AAA4177	5–7.5	Qbt 3	Benzo(b)fluoranthene	0.66	mg/kg	U
21-01680	AAA4177	5–7.5	Qbt 3	Pyrene	0.66	mg/kg	U
21-01680	AAA4177	5–7.5	Qbt 3	Pentachlorophenol	3.3	mg/kg	U
21-01680	AAA4177	5–7.5	Qbt 3	Nitroaniline[4-]	3.3	mg/kg	U
21-01680	AAA4177	5–7.5	Qbt 3	Benzo(a)pyrene	0.66	mg/kg	U
21-01680	AAA4177	5–7.5	Qbt 3	Indeno(1,2,3-cd)pyrene	0.66	mg/kg	U
21-01680	AAA4177	5–7.5	Qbt 3	Dibenzofuran	0.66	mg/kg	U
21-01680	AAA4177	5–7.5	Qbt 3	Dimethyl Phthalate	0.66	mg/kg	U
21-01680	AAA4177	5–7.5	Qbt 3	Dinitrotoluene[2,4-]	0.66	mg/kg	U
21-01680	AAA4177	5–7.5	Qbt 3	Dichlorophenol[2,4-]	0.66	mg/kg	U
21-01680	AAA4177	5–7.5	Qbt 3	Trichlorobenzene[1,2,4-]	0.66	mg/kg	U
21-01680	AAA4177	5–7.5	Qbt 3	Anthracene	0.66	mg/kg	U
21-01680	AAA4177	5–7.5	Qbt 3	Hexachlorobenzene	0.66	mg/kg	U
21-01680	AAA4177	5–7.5	Qbt 3	Benzidine	3.3	mg/kg	U
21-01680	AAA4177	5–7.5	Qbt 3	Dichlorobenzidine[3,3'-]	1.3	mg/kg	U
21-01680	AAA4177	5–7.5	Qbt 3	Chloronaphthalene[2-]	0.66	mg/kg	U
21-01680	AAA4177	5–7.5	Qbt 3	Methylnaphthalene[2-]	0.66	mg/kg	U
21-01680	AAA4177	5–7.5	Qbt 3	Naphthalene	0.66	mg/kg	U
21-01680	AAA4177	5–7.5	Qbt 3	Nitrophenol[2-]	0.66	mg/kg	U
21-01680	AAA4177	5–7.5	Qbt 3	Nitroaniline[2-]	3.3	mg/kg	U
21-01680	AAA4177	5–7.5	Qbt 3	Acenaphthene	0.66	mg/kg	U
21-01680	AAA4177	5–7.5	Qbt 3	Dichlorobenzene[1,4-]	0.66	mg/kg	U
21-01680	AAA4177	5–7.5	Qbt 3	Methylphenol[4-]	0.66	mg/kg	U
21-01680	AAA4177	5–7.5	Qbt 3	Magnesium	3350	mg/kg	None

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-01680	AAA4177	5–7.5	Qbt 3	Potassium	1630	mg/kg	None
21-01680	AAA4177	5–7.5	Qbt 3	Copper	12	mg/kg	None
21-01680	AAA4177	5–7.5	Qbt 3	Chromium	7.6	mg/kg	None
21-01680	AAA4177	5–7.5	Qbt 3	Zinc	38.3	mg/kg	None
21-01680	AAA4177	5–7.5	Qbt 3	Vanadium	15	mg/kg	None
21-01680	AAA4177	5–7.5	Qbt 3	Thallium	0.21	mg/kg	U
21-01680	AAA4177	5–7.5	Qbt 3	Selenium	0.43	mg/kg	U
21-01680	AAA4177	5–7.5	Qbt 3	Barium	280	mg/kg	None
21-01680	AAA4177	5–7.5	Qbt 3	Benzyl Alcohol	1.3	mg/kg	U
21-01680	AAA4177	5–7.5	Qbt 3	Nitrophenol[4-]	3.3	mg/kg	U
21-01680	AAA4177	5–7.5	Qbt 3	Silver	1.1	mg/kg	U
21-01680	AAA4177	5–7.5	Qbt 3	Lead	11.2	mg/kg	None
21-01680	AAA4177	5–7.5	Qbt 3	Molybdenum	6.2	mg/kg	U
21-01680	AAA4177	5–7.5	Qbt 3	Manganese	198	mg/kg	None
21-01680	AAA4177	5–7.5	Qbt 3	Dichlorobenzene[1,2-]	0.66	mg/kg	U
21-01680	AAA4177	5–7.5	Qbt 3	Methylphenol[2-]	0.66	mg/kg	U
21-01680	AAA4177	5–7.5	Qbt 3	Isophorone	0.66	mg/kg	U
21-01680	AAA4177	5–7.5	Qbt 3	Hexachlorocyclopentadiene	0.66	mg/kg	U
21-01680	AAA4177	5–7.5	Qbt 3	Chlorophenyl-phenyl[4-] Ether	0.66	mg/kg	U
21-01680	AAA4177	5–7.5	Qbt 3	Hexachloroethane	0.66	mg/kg	U
21-01680	AAA4177	5–7.5	Qbt 3	Benzoic Acid	3.3	mg/kg	U
21-01680	AAA4177	5–7.5	Qbt 3	Nitrosodimethylamine[N-]	0.66	mg/kg	U
21-01680	AAA4177	5–7.5	Qbt 3	Aniline	0.66	mg/kg	U
21-01680	AAA4177	5–7.5	Qbt 3	Bromophenyl-phenylether[4-]	0.66	mg/kg	U
21-01680	AAA4177	5–7.5	Qbt 3	Azobenzene	0.66	mg/kg	U
21-01680	AAA4177	5–7.5	Qbt 3	Dimethylphenol[2,4-]	0.66	mg/kg	U
21-01680	AAA4177	5–7.5	Qbt 3	Di-n-octylphthalate	0.66	mg/kg	U
21-01680	AAA4177	5–7.5	Qbt 3	Bis(2-ethylhexyl)phthalate	0.66	mg/kg	U
21-01680	AAA4177	5–7.5	Qbt 3	Bis(2-chloroethoxy)methane	0.66	mg/kg	U
21-01680	AAA4177	5–7.5	Qbt 3	Bis(2-chloroethyl)ether	0.66	mg/kg	U
21-01680	AAA4177	5–7.5	Qbt 3	Phenol	0.66	mg/kg	U
21-01680	AAA4177	5–7.5	Qbt 3	Oxybis(1-chloropropane)[2,2'-]	0.66	mg/kg	U
21-01680	AAA4177	5–7.5	Qbt 3	Chloroaniline[4-]	1.3	mg/kg	U
21-01680	AAA4177	5–7.5	Qbt 3	Nitroso-di-n-propylamine[N-]	0.66	mg/kg	U
21-01680	AAA4177	5–7.5	Qbt 3	Dinitrotoluene[2,6-]	0.66	mg/kg	U
21-01680	AAA4177	5–7.5	Qbt 3	Chloro-3-methylphenol[4-]	1.3	mg/kg	U
21-01680	AAA4177	5–7.5	Qbt 3	Benz(a)anthracene	0.66	mg/kg	U
21-01680	AAA4177	5–7.5	Qbt 3	Dichlorobenzene[1,3-]	0.66	mg/kg	U
21-01680	AAA4177	5–7.5	Qbt 3	Dibenz(a,h)anthracene	0.66	mg/kg	U
21-01680	AAA4177	5–7.5	Qbt 3	Dinitro-2-methylphenol[4,6-]	3.3	mg/kg	U
21-01680	AAA4177	5–7.5	Qbt 3	Dinitrophenol[2,4-]	3.3	mg/kg	U
21-01680	AAA4177	5–7.5	Qbt 3	Trichlorophenol[2,4,6-]	0.66	mg/kg	U
21-01680	AAA4177	5–7.5	Qbt 3	Hexachlorobutadiene	0.66	mg/kg	U
21-01680	AAA4177	5–7.5	Qbt 3	Fluorene	0.66	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-01680	AAA4177	5–7.5	Qbt 3	Nitrosodiphenylamine[N-]	0.66	mg/kg	U
21-01680	AAA4177	5–7.5	Qbt 3	Butylbenzylphthalate	0.66	mg/kg	U
21-01680	AAA4177	5–7.5	Qbt 3	Phenanthrene	0.66	mg/kg	U
21-01680	AAA4177	5–7.5	Qbt 3	Di-n-butylphthalate	0.66	mg/kg	U
21-01680	AAA4177	5–7.5	Qbt 3	Diethylphthalate	0.66	mg/kg	U
21-01680	AAA4177	5–7.5	Qbt 3	Nitroaniline[3-]	3.3	mg/kg	U
21-01680	AAA4177	5–7.5	Qbt 3	Nitrobenzene	0.66	mg/kg	U
21-01680	AAA4177	5–7.5	Qbt 3	Trichlorophenol[2,4,5-]	0.66	mg/kg	U
21-01680	AAA4177	5–7.5	Qbt 3	Chlorophenol[2-]	0.66	mg/kg	U
21-01680	AAA4177	5–7.5	Qbt 3	Calcium	10600	mg/kg	None
21-01680	AAA4177	5–7.5	Qbt 3	Beryllium	1.9	mg/kg	None
21-01680	AAA4177	5–7.5	Qbt 3	Cobalt	1.9	mg/kg	U
21-01680	AAA4177	5–7.5	Qbt 3	Cadmium	0.64	mg/kg	U
21-01680	AAA4177	5–7.5	Qbt 3	Arsenic	3.4	mg/kg	None
21-01680	AAA4177	5–7.5	Qbt 3	Aluminum	11400	mg/kg	None
21-01680	AAA4177	5–7.5	Qbt 3	Iron	9170	mg/kg	None
21-01680	AAA4177	5–7.5	Qbt 3	Antimony	0.21	mg/kg	U
21-01680	AAA4177	5–7.5	Qbt 3	Nickel	8.5	mg/kg	U
21-01680	AAA4177	5–7.5	Qbt 3	Strontium	62	mg/kg	None
21-01680	AAA4177	5–7.5	Qbt 3	Lithium	7.6	mg/kg	U
21-01680	AAA4178	7.5–10	Qbt 3	Nitroaniline[4-]	3.3	mg/kg	U
21-01680	AAA4178	7.5–10	Qbt 3	Indeno(1,2,3-cd)pyrene	0.66	mg/kg	U
21-01680	AAA4178	7.5–10	Qbt 3	Benzo(g,h,i)perylene	0.66	mg/kg	U
21-01680	AAA4178	7.5–10	Qbt 3	Dibenzofuran	0.66	mg/kg	U
21-01680	AAA4178	7.5–10	Qbt 3	Dimethyl Phthalate	0.66	mg/kg	U
21-01680	AAA4178	7.5–10	Qbt 3	Pyrene	0.66	mg/kg	U
21-01680	AAA4178	7.5–10	Qbt 3	Dinitrotoluene[2,4-]	0.66	mg/kg	U
21-01680	AAA4178	7.5–10	Qbt 3	Dichlorophenol[2,4-]	0.66	mg/kg	U
21-01680	AAA4178	7.5–10	Qbt 3	Trichlorobenzene[1,2,4-]	0.66	mg/kg	U
21-01680	AAA4178	7.5–10	Qbt 3	Dinitrotoluene[2,6-]	0.66	mg/kg	U
21-01680	AAA4178	7.5–10	Qbt 3	Chloro-3-methylphenol[4-]	1.3	mg/kg	U
21-01680	AAA4178	7.5–10	Qbt 3	Benz(a)anthracene	0.66	mg/kg	U
21-01680	AAA4178	7.5–10	Qbt 3	Dichlorobenzene[1,3-]	0.66	mg/kg	U
21-01680	AAA4178	7.5–10	Qbt 3	Dibenz(a,h)anthracene	0.66	mg/kg	U
21-01680	AAA4178	7.5–10	Qbt 3	Dinitro-2-methylphenol[4,6-]	3.3	mg/kg	U
21-01680	AAA4178	7.5–10	Qbt 3	Dinitrophenol[2,4-]	3.3	mg/kg	U
21-01680	AAA4178	7.5–10	Qbt 3	Benzo(a)pyrene	0.66	mg/kg	U
21-01680	AAA4178	7.5–10	Qbt 3	Anthracene	0.66	mg/kg	U
21-01680	AAA4178	7.5–10	Qbt 3	Hexachlorobenzene	0.66	mg/kg	U
21-01680	AAA4178	7.5–10	Qbt 3	Di-n-octylphthalate	0.66	mg/kg	U
21-01680	AAA4178	7.5–10	Qbt 3	Bis(2-ethylhexyl)phthalate	0.66	mg/kg	U
21-01680	AAA4178	7.5–10	Qbt 3	Bis(2-chloroethoxy)methane	0.66	mg/kg	U
21-01680	AAA4178	7.5–10	Qbt 3	Phenol	0.66	mg/kg	U
21-01680	AAA4178	7.5–10	Qbt 3	Oxybis(1-chloropropane)[2,2'-]	0.66	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-01680	AAA4178	7.5–10	Qbt 3	Chloroaniline[4-]	1.3	mg/kg	U
21-01680	AAA4178	7.5–10	Qbt 3	Acenaphthene	0.66	mg/kg	U
21-01680	AAA4178	7.5–10	Qbt 3	Isophorone	0.66	mg/kg	U
21-01680	AAA4178	7.5–10	Qbt 3	Hexachlorocyclopentadiene	0.66	mg/kg	U
21-01680	AAA4178	7.5–10	Qbt 3	Hexachloroethane	0.66	mg/kg	U
21-01680	AAA4178	7.5–10	Qbt 3	Benzoic Acid	3.3	mg/kg	U
21-01680	AAA4178	7.5–10	Qbt 3	Nitrosodimethylamine[N-]	0.66	mg/kg	U
21-01680	AAA4178	7.5–10	Qbt 3	Aniline	0.66	mg/kg	U
21-01680	AAA4178	7.5–10	Qbt 3	Nitroso-di-n-propylamine[N-]	0.66	mg/kg	U
21-01680	AAA4178	7.5–10	Qbt 3	Trichlorophenol[2,4,5-]	0.66	mg/kg	U
21-01680	AAA4178	7.5–10	Qbt 3	Chlorophenol[2-]	0.66	mg/kg	U
21-01680	AAA4178	7.5–10	Qbt 3	Dichlorobenzene[1,2-]	0.66	mg/kg	U
21-01680	AAA4178	7.5–10	Qbt 3	Pentachlorophenol	3.3	mg/kg	U
21-01680	AAA4178	7.5–10	Qbt 3	Hexachlorobutadiene	0.66	mg/kg	U
21-01680	AAA4178	7.5–10	Qbt 3	Fluorene	0.66	mg/kg	U
21-01680	AAA4178	7.5–10	Qbt 3	Nitrosodiphenylamine[N-]	0.66	mg/kg	U
21-01680	AAA4178	7.5–10	Qbt 3	Butylbenzylphthalate	0.66	mg/kg	U
21-01680	AAA4178	7.5–10	Qbt 3	Phenanthrene	0.66	mg/kg	U
21-01680	AAA4178	7.5–10	Qbt 3	Di-n-butylphthalate	0.66	mg/kg	U
21-01680	AAA4178	7.5–10	Qbt 3	Diethylphthalate	0.66	mg/kg	U
21-01680	AAA4178	7.5–10	Qbt 3	Bromophenyl-phenylether[4-]	0.66	mg/kg	U
21-01680	AAA4178	7.5–10	Qbt 3	Azobenzene	0.66	mg/kg	U
21-01680	AAA4178	7.5–10	Qbt 3	Dimethylphenol[2,4-]	0.66	mg/kg	U
21-01680	AAA4178	7.5–10	Qbt 3	Dichlorobenzene[1,4-]	0.66	mg/kg	U
21-01680	AAA4178	7.5–10	Qbt 3	Methylphenol[4-]	0.66	mg/kg	U
21-01680	AAA4178	7.5–10	Qbt 3	Benzyl Alcohol	1.3	mg/kg	U
21-01680	AAA4178	7.5–10	Qbt 3	Nitrophenol[4-]	3.3	mg/kg	U
21-01680	AAA4178	7.5–10	Qbt 3	Bis(2-chloroethyl)ether	0.66	mg/kg	U
21-01680	AAA4178	7.5–10	Qbt 3	Benzidine	3.3	mg/kg	U
21-01680	AAA4178	7.5–10	Qbt 3	Chlorophenyl-phenyl[4-] Ether	0.66	mg/kg	U
21-01680	AAA4178	7.5–10	Qbt 3	Benzo(b)fluoranthene	0.66	mg/kg	U
21-01680	AAA4178	7.5–10	Qbt 3	Fluoranthene	0.66	mg/kg	U
21-01680	AAA4178	7.5–10	Qbt 3	Acenaphthylene	0.66	mg/kg	U
21-01680	AAA4178	7.5–10	Qbt 3	Chrysene	0.66	mg/kg	U
21-01680	AAA4178	7.5–10	Qbt 3	Benzo(k)fluoranthene	0.66	mg/kg	U
21-01680	AAA4178	7.5–10	Qbt 3	Iron	7020	mg/kg	None
21-01680	AAA4178	7.5–10	Qbt 3	Antimony	0.22	mg/kg	U
21-01680	AAA4178	7.5–10	Qbt 3	Silver	1.1	mg/kg	U
21-01680	AAA4178	7.5–10	Qbt 3	Cadmium	0.66	mg/kg	U
21-01680	AAA4178	7.5–10	Qbt 3	Chromium	5.1	mg/kg	None
21-01680	AAA4178	7.5–10	Qbt 3	Potassium	948	mg/kg	U
21-01680	AAA4178	7.5–10	Qbt 3	Copper	7.3	mg/kg	None
21-01680	AAA4178	7.5–10	Qbt 3	Zinc	44.7	mg/kg	None
21-01680	AAA4178	7.5–10	Qbt 3	Vanadium	14.5	mg/kg	None

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-01680	AAA4178	7.5–10	Qbt 3	Thallium	0.22	mg/kg	U
21-01680	AAA4178	7.5–10	Qbt 3	Selenium	0.44	mg/kg	UJ
21-01680	AAA4178	7.5–10	Qbt 3	Lead	9.4	mg/kg	None
21-01680	AAA4178	7.5–10	Qbt 3	Nickel	7.6	mg/kg	U
21-01680	AAA4178	7.5–10	Qbt 3	Molybdenum	6.4	mg/kg	U
21-01680	AAA4178	7.5–10	Qbt 3	Manganese	157	mg/kg	None
21-01680	AAA4178	7.5–10	Qbt 3	Magnesium	2770	mg/kg	None
21-01680	AAA4178	7.5–10	Qbt 3	Cobalt	2	mg/kg	U
21-01680	AAA4178	7.5–10	Qbt 3	Calcium	12600	mg/kg	None
21-01680	AAA4178	7.5–10	Qbt 3	Arsenic	3.7	mg/kg	None
21-01680	AAA4178	7.5–10	Qbt 3	Barium	188	mg/kg	None
21-01680	AAA4178	7.5–10	Qbt 3	Beryllium	1.2	mg/kg	None
21-01680	AAA4178	7.5–10	Qbt 3	Aluminum	8390	mg/kg	None
21-01680	AAA4178	7.5–10	Qbt 3	Strontium	58.5	mg/kg	None
21-01680	AAA4178	7.5–10	Qbt 3	Lithium	6.1	mg/kg	U
21-01680	AAA4178	7.5–10	Qbt 3	Methylphenol[2-]	0.66	mg/kg	U
21-01680	AAA4178	7.5–10	Qbt 3	Dichlorobenzidine[3,3'-]	1.3	mg/kg	U
21-01680	AAA4178	7.5–10	Qbt 3	Chloronaphthalene[2-]	0.66	mg/kg	U
21-01680	AAA4178	7.5–10	Qbt 3	Methylnaphthalene[2-]	0.66	mg/kg	U
21-01680	AAA4178	7.5–10	Qbt 3	Naphthalene	0.66	mg/kg	U
21-01680	AAA4178	7.5–10	Qbt 3	Nitrophenol[2-]	0.66	mg/kg	U
21-01680	AAA4178	7.5–10	Qbt 3	Nitroaniline[2-]	3.3	mg/kg	U
21-01680	AAA4178	7.5–10	Qbt 3	Trichlorophenol[2,4,6-]	0.66	mg/kg	U
21-01680	AAA4178	7.5–10	Qbt 3	Nitroaniline[3-]	3.3	mg/kg	U
21-01680	AAA4178	7.5–10	Qbt 3	Nitrobenzene	0.66	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Ethylbenzene	0.005	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Styrene	0.005	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Dichloropropene[cis-1,3-]	0.005	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Dichloropropene[trans-1,3-]	0.005	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Dichlorobenzene[1,4-]	0.005	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Dibromoethane[1,2-]	0.005	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Bromobenzene	0.005	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Toluene	0.005	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Chlorobenzene	0.005	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Chlorodibromomethane	0.005	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Tetrachloroethene	0.005	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Xylene (Total)	0.005	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Butylbenzene[sec-]	0.005	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Dichloropropane[1,3-]	0.005	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Dichloroethene[cis-1,2-]	0.005	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Dichloroethene[trans-1,2-]	0.005	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Dichlorobenzene[1,3-]	0.005	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Dichloroethane[1,2-]	0.005	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Methyl-2-pentanone[4-]	0.02	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-01681	AAA4179	0–5	Qbt 3	Propylbenzene[1-]	0.005	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Butylbenzene[n-]	0.005	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Chlorotoluene[4-]	0.005	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Dichloropropene[1,1-]	0.005	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Carbon Tetrachloride	0.005	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Benzene	0.005	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Trichloroethane[1,1,1-]	0.005	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Bromomethane	0.01	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Chloromethane	0.01	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Iodomethane	0.005	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Dibromomethane	0.005	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Bromochloromethane	0.005	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Chloroethane	0.01	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Methylene Chloride	0.005	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Carbon Disulfide	0.005	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Bromoform	0.005	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Hexanone[2-]	0.02	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Dichloropropane[2,2-]	0.005	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Tetrachloroethane[1,1,1,2-]	0.005	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Acetone	0.02	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Chloroform	0.005	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Dichloroethane[1,1-]	0.005	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Bromodichloromethane	0.005	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Butanone[2-]	0.02	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Trichloroethane[1,1,2-]	0.005	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Trichloroethene	0.005	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Tetrachloroethane[1,1,2,2-]	0.005	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Chlorotoluene[2-]	0.005	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Dichlorobenzene[1,2-]	0.005	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Trimethylbenzene[1,2,4-]	0.005	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Dibromo-3-Chloropropane[1,2-]	0.01	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Trichloropropane[1,2,3-]	0.005	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Butylbenzene[tert-]	0.005	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Isopropylbenzene	0.005	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Dichloroethene[1,1-]	0.005	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Trichlorofluoromethane	0.005	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Dichlorodifluoromethane	0.01	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Trichloro-1,2,2-trifluoroethane[1,1,2-]	0.005	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Dichloropropane[1,2-]	0.005	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Trimethylbenzene[1,3,5-]	0.005	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Isopropyltoluene[4-]	0.005	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Vinyl Chloride	0.01	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Nitroaniline[4-]	3.3	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Nitrophenol[4-]	3.3	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-01681	AAA4179	0–5	Qbt 3	Benzyl Alcohol	1.3	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Bromophenyl-phenylether[4-]	0.66	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Azobenzene	0.66	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Dimethylphenol[2,4-]	0.66	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Methylphenol[4-]	0.66	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Dichlorobenzene[1,4-]	0.66	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Chloroaniline[4-]	1.3	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Oxybis(1-chloropropane)[2,2'-]	0.66	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Phenol	0.66	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Bis(2-chloroethyl)ether	0.66	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Bis(2-ethylhexyl)phthalate	0.66	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Di-n-octylphthalate	0.66	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Hexachlorobenzene	0.66	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Trichlorobenzene[1,2,4-]	0.66	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Benzoic Acid	3.3	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Hexachloroethane	0.66	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Chlorophenyl-phenyl[4-] Ether	0.66	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Hexachlorocyclopentadiene	0.66	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Isophorone	0.66	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Acenaphthene	0.66	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Diethylphthalate	0.66	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Di-n-butylphthalate	0.66	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Nitrosodiphenylamine[N-]	0.66	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Fluorene	0.66	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Hexachlorobutadiene	0.66	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Pentachlorophenol	3.3	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Dichlorophenol[2,4-]	0.66	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Dinitrotoluene[2,4-]	0.66	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Pyrene	0.66	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Dimethyl Phthalate	0.66	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Dibenzofuran	0.66	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Benzo(g,h,i)perylene	0.66	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Indeno(1,2,3-cd)pyrene	0.66	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Benzo(a)pyrene	0.66	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Dinitrophenol[2,4-]	3.3	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Dinitro-2-methylphenol[4,6-]	3.3	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Dibenz(a,h)anthracene	0.66	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Dichlorobenzene[1,3-]	0.66	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Benz(a)anthracene	0.66	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Chloro-3-methylphenol[4-]	1.3	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Dinitrotoluene[2,6-]	0.66	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Nitroso-di-n-propylamine[N-]	0.66	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Aniline	0.66	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Nitrosodimethylamine[N-]	0.66	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-01681	AAA4179	0–5	Qbt 3	Trichlorophenol[2,4,6-]	0.66	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Nitroaniline[2-]	3.3	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Nitrophenol[2-]	0.66	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Naphthalene	0.66	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Methylnaphthalene[2-]	0.66	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Chloronaphthalene[2-]	0.66	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Dichlorobenzidine[3,3'-]	1.3	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Benzidine	3.3	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Arsenic	1.3	mg/kg	None
21-01681	AAA4179	0–5	Qbt 3	Aluminum	383	mg/kg	None
21-01681	AAA4179	0–5	Qbt 3	Silver	1	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Thallium	0.21	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Selenium	0.42	mg/kg	None
21-01681	AAA4179	0–5	Qbt 3	Antimony	0.21	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Lead	1.9	mg/kg	None
21-01681	AAA4179	0–5	Qbt 3	Methylphenol[2-]	0.66	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Dichlorobenzene[1,2-]	0.66	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Chlorophenol[2-]	0.66	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Trichlorophenol[2,4,5-]	0.66	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Nitrobenzene	0.66	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Nitroaniline[3-]	3.3	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Benzo(b)fluoranthene	0.66	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Acenaphthylene	0.66	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Chrysene	0.66	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Benzo(k)fluoranthene	0.66	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Fluoranthene	0.66	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Bis(2-chloroethoxy)methane	0.66	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Butylbenzylphthalate	0.66	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Anthracene	0.66	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Phenanthrene	0.66	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Calcium	215	mg/kg	None
21-01681	AAA4179	0–5	Qbt 3	Beryllium	0.21	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Barium	13.9	mg/kg	None
21-01681	AAA4179	0–5	Qbt 3	Cadmium	0.62	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Molybdenum	6	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Manganese	209	mg/kg	None
21-01681	AAA4179	0–5	Qbt 3	Vanadium	1	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Nickel	2.3	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Magnesium	125	mg/kg	None
21-01681	AAA4179	0–5	Qbt 3	Chromium	0.83	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Copper	0.62	mg/kg	U
21-01681	AAA4179	0–5	Qbt 3	Iron	3500	mg/kg	None
21-01681	AAA4179	0–5	Qbt 3	Potassium	259	mg/kg	None
21-01681	AAA4179	0–5	Qbt 3	Cobalt	1.9	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-01681	AAA4179	0–5	Qbt 3	Zinc	42.3	mg/kg	None
21-01681	AAA4179	0–5	Qbt 3	Strontium	1.3	mg/kg	None
21-01681	AAA4179	0–5	Qbt 3	Lithium	8.4	mg/kg	None
21-01681	AAA4180	0–5	Qbt 3	Dichlorobenzene[1,4-]	0.66	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Propylbenzene[1-]	0.005	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Iodomethane	0.005	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Isopropylbenzene	0.005	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Benzene	0.005	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Ethylbenzene	0.005	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Styrene	0.005	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Dichloropropene[cis-1,3-]	0.005	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Dichloropropene[trans-1,3-]	0.005	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Butylbenzene[n-]	0.005	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Chlorotoluene[4-]	0.005	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Dichlorobenzene[1,4-]	0.005	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Dibromoethane[1,2-]	0.005	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Dichloroethane[1,2-]	0.005	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Methyl-2-pentanone[4-]	0.02	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Trimethylbenzene[1,3,5-]	0.005	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Toluene	0.005	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Bromobenzene	0.005	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Chlorodibromomethane	0.005	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Tetrachloroethene	0.005	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Xylene (Total)	0.005	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Butylbenzene[sec-]	0.005	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Dichloropropane[1,3-]	0.005	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Dichloroethene[cis-1,2-]	0.005	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Dichloroethene[trans-1,2-]	0.005	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Dichlorobenzene[1,3-]	0.005	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Carbon Tetrachloride	0.005	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Dichloropropene[1,1-]	0.005	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Hexanone[2-]	0.02	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Dichloropropane[2,2-]	0.005	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Tetrachloroethane[1,1,1,2-]	0.005	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Acetone	0.02	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Chloroform	0.005	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Trichloroethane[1,1,1-]	0.005	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Bromomethane	0.01	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Chloromethane	0.01	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Dibromomethane	0.005	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Bromochloromethane	0.005	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Chloroethane	0.01	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Vinyl Chloride	0.01	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Methylene Chloride	0.005	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-01681	AAA4180	0–5	Qbt 3	Carbon Disulfide	0.005	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Bromoform	0.005	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Bromodichloromethane	0.005	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Dichloroethane[1,1-]	0.005	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Dichloroethene[1,1-]	0.005	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Trichlorofluoromethane	0.005	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Dichlorodifluoromethane	0.01	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Trichloro-1,2,2-trifluoroethane[1,1,2-]	0.005	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Dichloropropane[1,2-]	0.005	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Butanone[2-]	0.02	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Trichloroethane[1,1,2-]	0.005	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Trichloroethene	0.005	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Tetrachloroethane[1,1,2,2-]	0.005	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Chlorotoluene[2-]	0.005	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Dichlorobenzene[1,2-]	0.005	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Trimethylbenzene[1,2,4-]	0.005	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Dibromo-3-Chloropropane[1,2-]	0.01	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Trichloropropane[1,2,3-]	0.005	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Butylbenzene[tert-]	0.005	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Isopropyltoluene[4-]	0.005	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Molybdenum	6	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Manganese	214	mg/kg	None
21-01681	AAA4180	0–5	Qbt 3	Magnesium	161	mg/kg	None
21-01681	AAA4180	0–5	Qbt 3	Potassium	220	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Iron	3310	mg/kg	None
21-01681	AAA4180	0–5	Qbt 3	Copper	7.9	mg/kg	None
21-01681	AAA4180	0–5	Qbt 3	Chromium	0.82	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Cadmium	0.62	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Calcium	203	mg/kg	None
21-01681	AAA4180	0–5	Qbt 3	Beryllium	0.21	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Barium	16.8	mg/kg	None
21-01681	AAA4180	0–5	Qbt 3	Arsenic	1.3	mg/kg	None
21-01681	AAA4180	0–5	Qbt 3	Aluminum	597	mg/kg	None
21-01681	AAA4180	0–5	Qbt 3	Silver	1	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Selenium	0.41	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Thallium	0.21	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Zinc	26.6	mg/kg	None
21-01681	AAA4180	0–5	Qbt 3	Vanadium	1.3	mg/kg	None
21-01681	AAA4180	0–5	Qbt 3	Antimony	0.21	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Nickel	2.3	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Lead	2.4	mg/kg	None
21-01681	AAA4180	0–5	Qbt 3	Cobalt	1.9	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Strontium	1.5	mg/kg	None
21-01681	AAA4180	0–5	Qbt 3	Lithium	3.9	mg/kg	None

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-01681	AAA4180	0–5	Qbt 3	Dinitrotoluene[2,6-]	0.66	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Phenol	0.66	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Bis(2-chloroethyl)ether	0.66	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Bis(2-chloroethoxy)methane	0.66	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Bis(2-ethylhexyl)phthalate	0.66	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Di-n-octylphthalate	0.66	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Hexachlorobenzene	0.66	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Anthracene	0.66	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Hexachlorobutadiene	0.66	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Pentachlorophenol	3.3	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Trichlorophenol[2,4,6-]	0.66	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Nitroaniline[2-]	3.3	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Nitrophenol[2-]	0.66	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Naphthalene	0.66	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Methylnaphthalene[2-]	0.66	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Chloronaphthalene[2-]	0.66	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Trichlorophenol[2,4,5-]	0.66	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Chlorobenzene	0.005	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Methylphenol[4-]	0.66	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Nitroso-di-n-propylamine[N-]	0.66	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Nitrobenzene	0.66	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Dimethylphenol[2,4-]	0.66	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Chloro-3-methylphenol[4-]	1.3	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Nitroaniline[3-]	3.3	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Benzo(b)fluoranthene	0.66	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Fluoranthene	0.66	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Benzo(k)fluoranthene	0.66	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Chrysene	0.66	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Benzidine	3.3	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Diethylphthalate	0.66	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Di-n-butylphthalate	0.66	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Phenanthrene	0.66	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Butylbenzylphthalate	0.66	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Nitrosodiphenylamine[N-]	0.66	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Methylphenol[2-]	0.66	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Dichlorobenzene[1,2-]	0.66	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Chlorophenol[2-]	0.66	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Fluorene	0.66	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Dichlorobenzidine[3,3'-]	1.3	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Acenaphthylene	0.66	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Nitroaniline[4-]	3.3	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Nitrophenol[4-]	3.3	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Benzyl Alcohol	1.3	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Bromophenyl-phenylether[4-]	0.66	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-01681	AAA4180	0–5	Qbt 3	Azobenzene	0.66	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Chloroaniline[4-]	1.3	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Oxybis(1-chloropropane)[2,2'-]	0.66	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Trichlorobenzene[1,2,4-]	0.66	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Dichlorophenol[2,4-]	0.66	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Dinitrotoluene[2,4-]	0.66	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Pyrene	0.66	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Dimethyl Phthalate	0.66	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Dibenzofuran	0.66	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Benzo(g,h,i)perylene	0.66	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Indeno(1,2,3-cd)pyrene	0.66	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Benzo(a)pyrene	0.66	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Dinitrophenol[2,4-]	3.3	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Dinitro-2-methylphenol[4,6-]	3.3	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Dibenz(a,h)anthracene	0.66	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Dichlorobenzene[1,3-]	0.66	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Benz(a)anthracene	0.66	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Aniline	0.66	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Nitrosodimethylamine[N-]	0.66	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Benzoic Acid	3.3	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Hexachloroethane	0.66	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Chlorophenyl-phenyl[4-] Ether	0.66	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Hexachlorocyclopentadiene	0.66	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Isophorone	0.66	mg/kg	U
21-01681	AAA4180	0–5	Qbt 3	Acenaphthene	0.66	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Aniline	0.66	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Nitrosodimethylamine[N-]	0.66	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Benzoic Acid	3.3	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Hexachloroethane	0.66	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Chlorophenyl-phenyl[4-] Ether	0.66	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Hexachlorocyclopentadiene	0.66	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Isophorone	0.66	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Acenaphthene	0.66	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Diethylphthalate	0.66	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Di-n-butylphthalate	0.66	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Nitroaniline[4-]	3.3	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Nitrophenol[4-]	3.3	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Benzyl Alcohol	1.3	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Bromophenyl-phenylether[4-]	0.66	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Azobenzene	0.66	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Dimethylphenol[2,4-]	0.66	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Methylphenol[4-]	0.66	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Dichlorobenzene[1,4-]	0.66	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Chloroaniline[4-]	1.3	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-01681	AAA4181	5–10	Qbt 3	Oxybis(1-chloropropane)[2,2'-]	0.66	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Phenol	0.66	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Bis(2-chloroethyl)ether	0.66	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Bis(2-chloroethoxy)methane	0.66	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Bis(2-ethylhexyl)phthalate	0.66	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Di-n-octylphthalate	0.66	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Hexachlorobenzene	0.66	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Anthracene	0.66	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Trichlorobenzene[1,2,4-]	0.66	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Dichlorophenol[2,4-]	0.66	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Pyrene	0.66	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Dimethyl Phthalate	0.66	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Dibenzofuran	0.66	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Indeno(1,2,3-cd)pyrene	0.66	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Benzo(a)pyrene	0.66	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Dinitrophenol[2,4-]	3.3	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Dinitro-2-methylphenol[4,6-]	3.3	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Dibenz(a,h)anthracene	0.66	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Dichlorobenzene[1,3-]	0.66	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Benz(a)anthracene	0.66	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Chloro-3-methylphenol[4-]	1.3	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Dinitrotoluene[2,6-]	0.66	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Nitroso-di-n-propylamine[N-]	0.66	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Phenanthrene	0.66	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Butylbenzylphthalate	0.66	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Nitrosodiphenylamine[N-]	0.66	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Fluorene	0.66	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Hexachlorobutadiene	0.66	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Pentachlorophenol	3.3	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Trichlorophenol[2,4,6-]	0.66	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Nitroaniline[2-]	3.3	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Methylnaphthalene[2-]	0.66	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Chloronaphthalene[2-]	0.66	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Dichlorobenzidine[3,3'-]	1.3	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Benzidine	3.3	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Methylphenol[2-]	0.66	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Dichlorobenzene[1,2-]	0.66	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Chlorophenol[2-]	0.66	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Trichlorophenol[2,4,5-]	0.66	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Nitrobenzene	0.66	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Nitroaniline[3-]	3.3	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Benzo(b)fluoranthene	0.66	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Chrysene	0.66	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Fluoranthene	0.66	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-01681	AAA4181	5–10	Qbt 3	Acenaphthylene	0.66	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Benzo(k)fluoranthene	0.66	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Dinitrotoluene[2,4-]	0.66	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Naphthalene	0.66	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Benzo(g,h,i)perylene	0.66	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Nitrophenol[2-]	0.66	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Ethylbenzene	0.005	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Styrene	0.005	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Dichloropropene[cis-1,3-]	0.005	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Dichloropropene[trans-1,3-]	0.005	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Propylbenzene[1-]	0.005	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Butylbenzene[n-]	0.005	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Chlorotoluene[4-]	0.005	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Dichlorobenzene[1,4-]	0.005	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Dibromoethane[1,2-]	0.005	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Dichloroethane[1,2-]	0.005	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Methyl-2-pentanone[4-]	0.02	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Trimethylbenzene[1,3,5-]	0.005	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Bromobenzene	0.005	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Toluene	0.005	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Chlorobenzene	0.005	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Chlorodibromomethane	0.005	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Tetrachloroethene	0.005	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Xylene (Total)	0.005	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Butylbenzene[sec-]	0.005	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Dichloropropane[1,3-]	0.005	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Dichloroethene[cis-1,2-]	0.005	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Dichloroethene[trans-1,2-]	0.005	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Dichlorobenzene[1,3-]	0.005	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Hexanone[2-]	0.02	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Dichloropropane[2,2-]	0.005	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Tetrachloroethane[1,1,1,2-]	0.005	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Acetone	0.02	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Chloroform	0.005	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Benzene	0.005	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Trichloroethane[1,1,1-]	0.005	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Bromomethane	0.01	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Chloromethane	0.01	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Iodomethane	0.005	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Dibromomethane	0.005	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Bromochloromethane	0.005	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Chloroethane	0.01	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Vinyl Chloride	0.01	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Methylene Chloride	0.005	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-01681	AAA4181	5–10	Qbt 3	Carbon Disulfide	0.005	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Bromoform	0.005	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Bromodichloromethane	0.005	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Dichloroethane[1,1-]	0.005	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Dichloroethene[1,1-]	0.005	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Trichlorofluoromethane	0.005	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Dichlorodifluoromethane	0.01	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Trichloro-1,2,2-trifluoroethane[1,1,2-]	0.005	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Dichloropropane[1,2-]	0.005	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Butanone[2-]	0.02	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Trichloroethane[1,1,2-]	0.005	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Trichloroethene	0.005	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Chlorotoluene[2-]	0.005	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Dichlorobenzene[1,2-]	0.005	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Trimethylbenzene[1,2,4-]	0.005	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Dibromo-3-Chloropropane[1,2-]	0.01	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Trichloropropane[1,2,3-]	0.005	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Butylbenzene[tert-]	0.005	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Isopropylbenzene	0.005	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Isopropyltoluene[4-]	0.005	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Carbon Tetrachloride	0.005	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Dichloropropene[1,1-]	0.005	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Tetrachloroethane[1,1,2,2-]	0.005	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Lead	1.8	mg/kg	None
21-01681	AAA4181	5–10	Qbt 3	Aluminum	313	mg/kg	None
21-01681	AAA4181	5–10	Qbt 3	Cobalt	1.9	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Zinc	28.1	mg/kg	None
21-01681	AAA4181	5–10	Qbt 3	Vanadium	1.4	mg/kg	None
21-01681	AAA4181	5–10	Qbt 3	Thallium	0.21	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Selenium	0.42	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Antimony	0.21	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Nickel	2.3	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Molybdenum	6.1	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Cadmium	0.63	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Calcium	112	mg/kg	None
21-01681	AAA4181	5–10	Qbt 3	Beryllium	0.21	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Barium	14.9	mg/kg	None
21-01681	AAA4181	5–10	Qbt 3	Arsenic	1.4	mg/kg	None
21-01681	AAA4181	5–10	Qbt 3	Silver	1	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Iron	2600	mg/kg	None
21-01681	AAA4181	5–10	Qbt 3	Potassium	224	mg/kg	U
21-01681	AAA4181	5–10	Qbt 3	Manganese	110	mg/kg	None
21-01681	AAA4181	5–10	Qbt 3	Magnesium	167	mg/kg	None
21-01681	AAA4181	5–10	Qbt 3	Copper	1.2	mg/kg	None

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-01681	AAA4181	5–10	Qbt 3	Chromium	0.87	mg/kg	None
21-01681	AAA4181	5–10	Qbt 3	Strontium	1	mg/kg	None
21-01681	AAA4181	5–10	Qbt 3	Lithium	10.9	mg/kg	None
21-01681	AAA4182	10–15	Qbt 3	Chloroform	0.005	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Benzene	0.005	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Nickel	2.3	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Chromium	4.2	mg/kg	None
21-01681	AAA4182	10–15	Qbt 3	Cobalt	1.9	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Cadmium	0.63	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Calcium	513	mg/kg	None
21-01681	AAA4182	10–15	Qbt 3	Dichloropropane[1,3-]	0.005	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Trichlorofluoromethane	0.005	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Ethylbenzene	0.005	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Styrene	0.005	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Dichloropropene[cis-1,3-]	0.005	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Dichloropropene[trans-1,3-]	0.005	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Dibromo-3-Chloropropane[1,2-]	0.01	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Trimethylbenzene[1,2,4-]	0.005	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Selenium	0.42	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Thallium	0.21	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Zinc	27.6	mg/kg	None
21-01681	AAA4182	10–15	Qbt 3	Vanadium	1.2	mg/kg	None
21-01681	AAA4182	10–15	Qbt 3	Antimony	0.21	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Lead	1.1	mg/kg	None
21-01681	AAA4182	10–15	Qbt 3	Arsenic	0.84	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Potassium	225	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Iron	1960	mg/kg	None
21-01681	AAA4182	10–15	Qbt 3	Strontium	1.3	mg/kg	None
21-01681	AAA4182	10–15	Qbt 3	Lithium	5.5	mg/kg	None
21-01681	AAA4182	10–15	Qbt 3	Trichloropropane[1,2,3-]	0.005	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Butylbenzene[tert-]	0.005	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Isopropylbenzene	0.005	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Isopropyltoluene[4-]	0.005	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Barium	9.5	mg/kg	None
21-01681	AAA4182	10–15	Qbt 3	Beryllium	0.21	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Aluminum	426	mg/kg	None
21-01681	AAA4182	10–15	Qbt 3	Silver	1.1	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Molybdenum	6.1	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Manganese	165	mg/kg	None
21-01681	AAA4182	10–15	Qbt 3	Magnesium	199	mg/kg	None
21-01681	AAA4182	10–15	Qbt 3	Copper	0.63	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Propylbenzene[1-]	0.005	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Butylbenzene[n-]	0.005	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Chlorotoluene[4-]	0.005	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-01681	AAA4182	10–15	Qbt 3	Dichlorobenzene[1,4-]	0.005	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Dibromoethane[1,2-]	0.005	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Dichloroethane[1,2-]	0.005	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Methyl-2-pentanone[4-]	0.02	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Trimethylbenzene[1,3,5-]	0.005	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Bromobenzene	0.005	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Toluene	0.005	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Chlorobenzene	0.005	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Chlorodibromomethane	0.005	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Xylene (Total)	0.005	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Butylbenzene[sec-]	0.005	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Dichloroethene[cis-1,2-]	0.005	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Dichloroethene[trans-1,2-]	0.005	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Dichlorobenzene[1,3-]	0.005	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Trichloroethane[1,1,1-]	0.005	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Bromomethane	0.01	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Chloromethane	0.01	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Iodomethane	0.005	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Dibromomethane	0.005	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Bromochloromethane	0.005	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Chloroethane	0.01	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Vinyl Chloride	0.01	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Methylene Chloride	0.005	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Carbon Disulfide	0.005	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Bromoform	0.005	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Bromodichloromethane	0.005	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Dichloroethane[1,1-]	0.005	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Dichloroethene[1,1-]	0.005	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Dichlorodifluoromethane	0.01	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Trichloro-1,2,2-trifluoroethane[1,1,2-]	0.005	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Bis(2-ethylhexyl)phthalate	0.66	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Isophorone	0.66	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Phenol	0.66	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Hexachlorocyclopentadiene	0.66	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Benzo(b)fluoranthene	0.66	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Acenaphthylene	0.66	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Chrysene	0.66	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Fluoranthene	0.66	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Benzo(k)fluoranthene	0.66	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Dimethylphenol[2,4-]	0.66	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Methylphenol[4-]	0.66	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Dichlorobenzene[1,4-]	0.66	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Chloroaniline[4-]	1.3	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Oxybis(1-chloropropane)[2,2'-]	0.66	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-01681	AAA4182	10–15	Qbt 3	Bis(2-chloroethyl)ether	0.66	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Bis(2-chloroethoxy)methane	0.66	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Di-n-octylphthalate	0.66	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Hexachlorobenzene	0.66	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Anthracene	0.66	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Trichlorobenzene[1,2,4-]	0.66	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Nitroaniline[4-]	3.3	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Nitrophenol[4-]	3.3	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Benzyl Alcohol	1.3	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Bromophenyl-phenylether[4-]	0.66	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Azobenzene	0.66	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Dinitrotoluene[2,4-]	0.66	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Dichlorophenol[2,4-]	0.66	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Nitroso-di-n-propylamine[N-]	0.66	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Aniline	0.66	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Nitrosodimethylamine[N-]	0.66	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Pyrene	0.66	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Dimethyl Phthalate	0.66	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Dibenzofuran	0.66	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Benzo(g,h,i)perylene	0.66	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Indeno(1,2,3-cd)pyrene	0.66	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Benzo(a)pyrene	0.66	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Dinitrophenol[2,4-]	3.3	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Dinitro-2-methylphenol[4,6-]	3.3	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Dibenz(a,h)anthracene	0.66	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Dichlorobenzene[1,3-]	0.66	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Benz(a)anthracene	0.66	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Chloro-3-methylphenol[4-]	1.3	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Dinitrotoluene[2,6-]	0.66	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Hexachloroethane	0.66	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Benzoic Acid	3.3	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Methylnaphthalene[2-]	0.66	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Chloronaphthalene[2-]	0.66	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Chlorophenyl-phenyl[4-] Ether	0.66	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Acenaphthene	0.66	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Diethylphthalate	0.66	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Di-n-butylphthalate	0.66	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Phenanthrene	0.66	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Butylbenzylphthalate	0.66	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Nitrosodiphenylamine[N-]	0.66	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Fluorene	0.66	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Tetrachloroethene	0.005	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Hexachlorobutadiene	0.66	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Pentachlorophenol	3.3	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-01681	AAA4182	10–15	Qbt 3	Trichlorophenol[2,4,6-]	0.66	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Nitroaniline[2-]	3.3	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Nitrophenol[2-]	0.66	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Naphthalene	0.66	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Dichlorobenzidine[3,3'-]	1.3	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Benzidine	3.3	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Methylphenol[2-]	0.66	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Dichlorobenzene[1,2-]	0.66	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Chlorophenol[2-]	0.66	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Trichlorophenol[2,4,5-]	0.66	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Nitrobenzene	0.66	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Nitroaniline[3-]	3.3	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Carbon Tetrachloride	0.005	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Dichloropropene[1,1-]	0.005	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Dichloropropane[1,2-]	0.005	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Butanone[2-]	0.02	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Trichloroethane[1,1,2-]	0.005	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Trichloroethene	0.005	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Tetrachloroethane[1,1,2,2-]	0.005	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Chlorotoluene[2-]	0.005	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Dichlorobenzene[1,2-]	0.005	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Hexanone[2-]	0.02	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Dichloropropane[2,2-]	0.005	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Tetrachloroethane[1,1,1,2-]	0.005	mg/kg	U
21-01681	AAA4182	10–15	Qbt 3	Acetone	0.02	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Dichloroethane[1,1-]	0.005	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Dichloroethene[1,1-]	0.005	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Trichlorofluoromethane	0.005	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Dichlorodifluoromethane	0.01	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Iron	2710	mg/kg	None
21-01681	AAA4183	15–20	Qbt 3	Arsenic	0.84	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Trichloroethene	0.005	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Trichloroethane[1,1,2-]	0.005	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Tetrachloroethane[1,1,2,2-]	0.005	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Chlorotoluene[2-]	0.005	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Dibromoethane[1,2-]	0.005	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Dichloroethane[1,2-]	0.005	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Trimethylbenzene[1,3,5-]	0.005	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Chlorophenol[2-]	0.66	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Dinitrophenol[2,4-]	3.3	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Bromophenyl-phenylether[4-]	0.66	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Dichlorobenzene[1,3-]	0.66	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Methylphenol[2-]	0.66	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Bromobenzene	0.005	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-01681	AAA4183	15–20	Qbt 3	Benzidine	3.3	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Dichlorobenzene[1,2-]	0.66	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Trichlorophenol[2,4,5-]	0.66	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Nitrobenzene	0.66	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Hexachlorobutadiene	0.66	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Pentachlorophenol	3.3	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Benzo(a)pyrene	0.66	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Dinitro-2-methylphenol[4,6-]	3.3	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Dibenz(a,h)anthracene	0.66	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Benz(a)anthracene	0.66	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Chloro-3-methylphenol[4-]	1.3	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Chlorobenzene	0.005	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Chlorodibromomethane	0.005	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Tetrachloroethene	0.005	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Xylene (Total)	0.005	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Butylbenzene[sec-]	0.005	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Toluene	0.005	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Dichloropropane[1,3-]	0.005	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Dichloroethene[cis-1,2-]	0.005	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Dichloroethene[trans-1,2-]	0.005	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Dichlorobenzene[1,3-]	0.005	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Carbon Tetrachloride	0.005	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Dichloropropene[1,1-]	0.005	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Hexanone[2-]	0.02	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Dichloropropane[2,2-]	0.005	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Tetrachloroethane[1,1,1,2-]	0.005	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Acetone	0.02	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Chloroform	0.005	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Trichloroethane[1,1,1-]	0.005	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Bromomethane	0.01	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Butanone[2-]	0.02	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Chloromethane	0.01	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Iodomethane	0.005	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Dibromomethane	0.005	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Bromochloromethane	0.005	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Vinyl Chloride	0.01	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Methylene Chloride	0.005	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Carbon Disulfide	0.005	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Bromoform	0.005	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Bromodichloromethane	0.005	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Dichlorobenzene[1,2-]	0.005	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Trimethylbenzene[1,2,4-]	0.005	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Dibromo-3-Chloropropane[1,2-]	0.01	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Trichloropropane[1,2,3-]	0.005	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-01681	AAA4183	15–20	Qbt 3	Butylbenzene[tert-]	0.005	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Isopropylbenzene	0.005	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Isopropyltoluene[4-]	0.005	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Methyl-2-pentanone[4-]	0.02	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Chloroethane	0.01	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Trichloro-1,2,2-trifluoroethane[1,1,2-]	0.005	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Dichloropropane[1,2-]	0.005	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Benzene	0.005	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Dinitrotoluene[2,6-]	0.66	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Cobalt	1.9	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Cadmium	0.63	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Copper	0.65	mg/kg	None
21-01681	AAA4183	15–20	Qbt 3	Strontium	1	mg/kg	None
21-01681	AAA4183	15–20	Qbt 3	Lithium	1.3	mg/kg	None
21-01681	AAA4183	15–20	Qbt 3	Calcium	422	mg/kg	None
21-01681	AAA4183	15–20	Qbt 3	Beryllium	0.28	mg/kg	None
21-01681	AAA4183	15–20	Qbt 3	Barium	9.3	mg/kg	None
21-01681	AAA4183	15–20	Qbt 3	Aluminum	840	mg/kg	None
21-01681	AAA4183	15–20	Qbt 3	Silver	1.1	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Zinc	24.4	mg/kg	None
21-01681	AAA4183	15–20	Qbt 3	Vanadium	1.5	mg/kg	None
21-01681	AAA4183	15–20	Qbt 3	Thallium	0.21	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Antimony	0.21	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Lead	1.1	mg/kg	None
21-01681	AAA4183	15–20	Qbt 3	Magnesium	169	mg/kg	None
21-01681	AAA4183	15–20	Qbt 3	Selenium	0.42	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Chromium	1.8	mg/kg	None
21-01681	AAA4183	15–20	Qbt 3	Manganese	193	mg/kg	None
21-01681	AAA4183	15–20	Qbt 3	Nickel	2.3	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Molybdenum	6.1	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Potassium	226	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Nitroaniline[4-]	3.3	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Nitrophenol[4-]	3.3	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Benzyl Alcohol	1.3	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Dimethylphenol[2,4-]	0.66	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Methylphenol[4-]	0.66	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Dichlorobenzene[1,4-]	0.66	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Chloroaniline[4-]	1.3	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Oxybis(1-chloropropane)[2,2'-]	0.66	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Phenol	0.66	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Bis(2-chloroethyl)ether	0.66	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Bis(2-chloroethoxy)methane	0.66	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Bis(2-ethylhexyl)phthalate	0.66	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Di-n-octylphthalate	0.66	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-01681	AAA4183	15–20	Qbt 3	Hexachlorobenzene	0.66	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Anthracene	0.66	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Trichlorobenzene[1,2,4-]	0.66	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Dichlorophenol[2,4-]	0.66	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Dinitrotoluene[2,4-]	0.66	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Pyrene	0.66	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Dimethyl Phthalate	0.66	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Dibenzofuran	0.66	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Benzo(g,h,i)perylene	0.66	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Indeno(1,2,3-cd)pyrene	0.66	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Hexachloroethane	0.66	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Chlorophenyl-phenyl[4-] Ether	0.66	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Hexachlorocyclopentadiene	0.66	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Isophorone	0.66	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Acenaphthene	0.66	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Diethylphthalate	0.66	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Di-n-butylphthalate	0.66	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Phenanthrene	0.66	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Butylbenzylphthalate	0.66	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Nitrosodiphenylamine[N-]	0.66	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Fluorene	0.66	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Trichlorophenol[2,4,6-]	0.66	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Nitroaniline[2-]	3.3	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Nitroaniline[3-]	3.3	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Benzo(b)fluoranthene	0.66	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Fluoranthene	0.66	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Benzo(k)fluoranthene	0.66	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Chrysene	0.66	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Acenaphthylene	0.66	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Azobenzene	0.66	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Nitrophenol[2-]	0.66	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Naphthalene	0.66	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Methylnaphthalene[2-]	0.66	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Chloronaphthalene[2-]	0.66	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Dichlorobenzidine[3,3'-]	1.3	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Ethylbenzene	0.005	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Styrene	0.005	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Dichloropropene[cis-1,3-]	0.005	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Dichloropropene[trans-1,3-]	0.005	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Propylbenzene[1-]	0.005	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Butylbenzene[n-]	0.005	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Chlorotoluene[4-]	0.005	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Dichlorobenzene[1,4-]	0.005	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Nitroso-di-n-propylamine[N-]	0.66	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-01681	AAA4183	15–20	Qbt 3	Aniline	0.66	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Nitrosodimethylamine[N-]	0.66	mg/kg	U
21-01681	AAA4183	15–20	Qbt 3	Benzoic Acid	3.3	mg/kg	U
21-11273	MD21-01-0215	0.5–1	ALLH	Butylbenzene[n-]	0.0012	mg/kg	U
21-11273	MD21-01-0215	0.5–1	ALLH	Chlorotoluene[4-]	0.0012	mg/kg	U
21-11273	MD21-01-0215	0.5–1	ALLH	Dichlorobenzene[1,4-]	0.0012	mg/kg	U
21-11273	MD21-01-0215	0.5–1	ALLH	Dibromoethane[1,2-]	0.0012	mg/kg	U
21-11273	MD21-01-0215	0.5–1	ALLH	Dichloroethane[1,2-]	0.0012	mg/kg	U
21-11273	MD21-01-0215	0.5–1	ALLH	Methyl-2-pentanone[4-]	0.0061	mg/kg	U
21-11273	MD21-01-0215	0.5–1	ALLH	Trimethylbenzene[1,3,5-]	0.0012	mg/kg	U
21-11273	MD21-01-0215	0.5–1	ALLH	Bromobenzene	0.0012	mg/kg	U
21-11273	MD21-01-0215	0.5–1	ALLH	Toluene	0.0012	mg/kg	U
21-11273	MD21-01-0215	0.5–1	ALLH	Chlorobenzene	0.0012	mg/kg	U
21-11273	MD21-01-0215	0.5–1	ALLH	Chlorodibromomethane	0.0012	mg/kg	U
21-11273	MD21-01-0215	0.5–1	ALLH	Tetrachloroethene	0.0012	mg/kg	U
21-11273	MD21-01-0215	0.5–1	ALLH	Butylbenzene[sec-]	0.0012	mg/kg	U
21-11273	MD21-01-0215	0.5–1	ALLH	Dichloropropane[1,3-]	0.0012	mg/kg	U
21-11273	MD21-01-0215	0.5–1	ALLH	Dichloroethene[cis-1,2-]	0.0012	mg/kg	U
21-11273	MD21-01-0215	0.5–1	ALLH	Dichloroethene[trans-1,2-]	0.0012	mg/kg	U
21-11273	MD21-01-0215	0.5–1	ALLH	Dichlorobenzene[1,3-]	0.0012	mg/kg	U
21-11273	MD21-01-0215	0.5–1	ALLH	Carbon Tetrachloride	0.0012	mg/kg	U
21-11273	MD21-01-0215	0.5–1	ALLH	Trichloroethane[1,1,1-]	0.0012	mg/kg	U
21-11273	MD21-01-0215	0.5–1	ALLH	Bromomethane	0.0012	mg/kg	U
21-11273	MD21-01-0215	0.5–1	ALLH	Chloromethane	0.0012	mg/kg	U
21-11273	MD21-01-0215	0.5–1	ALLH	Iodomethane	0.0061	mg/kg	U
21-11273	MD21-01-0215	0.5–1	ALLH	Dichloropropene[1,1-]	0.0012	mg/kg	U
21-11273	MD21-01-0215	0.5–1	ALLH	Xylene[1,3-]+Xylene[1,4-]	0.0024	mg/kg	U
21-11273	MD21-01-0215	0.5–1	ALLH	Hexanone[2-]	0.0061	mg/kg	U
21-11273	MD21-01-0215	0.5–1	ALLH	Dichloropropane[2,2-]	0.0012	mg/kg	U
21-11273	MD21-01-0215	0.5–1	ALLH	Tetrachloroethane[1,1,1,2-]	0.0012	mg/kg	U
21-11273	MD21-01-0215	0.5–1	ALLH	Chloroform	0.0012	mg/kg	U
21-11273	MD21-01-0215	0.5–1	ALLH	Benzene	0.0012	mg/kg	U
21-11273	MD21-01-0215	0.5–1	ALLH	Perchlorate	0.0372	mg/kg	U
21-11273	MD21-01-0215	0.5–1	ALLH	Dibromomethane	0.0012	mg/kg	U
21-11273	MD21-01-0215	0.5–1	ALLH	Bromochloromethane	0.0012	mg/kg	U
21-11273	MD21-01-0215	0.5–1	ALLH	Chloroethane	0.0012	mg/kg	U
21-11273	MD21-01-0215	0.5–1	ALLH	Acetone	0.0128	mg/kg	None
21-11273	MD21-01-0215	0.5–1	ALLH	Vinyl Chloride	0.0012	mg/kg	U
21-11273	MD21-01-0215	0.5–1	ALLH	Methylene Chloride	0.0061	mg/kg	U
21-11273	MD21-01-0215	0.5–1	ALLH	Carbon Disulfide	0.0061	mg/kg	U
21-11273	MD21-01-0215	0.5–1	ALLH	Bromoform	0.0012	mg/kg	U
21-11273	MD21-01-0215	0.5–1	ALLH	Bromodichloromethane	0.0012	mg/kg	U
21-11273	MD21-01-0215	0.5–1	ALLH	Dichloroethane[1,1-]	0.0012	mg/kg	U
21-11273	MD21-01-0215	0.5–1	ALLH	Dichloroethene[1,1-]	0.0012	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11273	MD21-01-0215	0.5–1	ALLH	Trichlorofluoromethane	0.0012	mg/kg	U
21-11273	MD21-01-0215	0.5–1	ALLH	Dichlorodifluoromethane	0.0012	mg/kg	U
21-11273	MD21-01-0215	0.5–1	ALLH	Trichlorotrifluoroethane	0.0061	mg/kg	U
21-11273	MD21-01-0215	0.5–1	ALLH	Dichloropropane[1,2-]	0.0012	mg/kg	U
21-11273	MD21-01-0215	0.5–1	ALLH	Butanone[2-]	0.0061	mg/kg	U
21-11273	MD21-01-0215	0.5–1	ALLH	Trichloroethane[1,1,2-]	0.0012	mg/kg	U
21-11273	MD21-01-0215	0.5–1	ALLH	Trichloroethene	0.0012	mg/kg	U
21-11273	MD21-01-0215	0.5–1	ALLH	Tetrachloroethane[1,1,2,2-]	0.0012	mg/kg	U
21-11273	MD21-01-0215	0.5–1	ALLH	Xylene[1,2-]	0.0012	mg/kg	U
21-11273	MD21-01-0215	0.5–1	ALLH	Chlorotoluene[2-]	0.0012	mg/kg	U
21-11273	MD21-01-0215	0.5–1	ALLH	Dichlorobenzene[1,2-]	0.0012	mg/kg	U
21-11273	MD21-01-0215	0.5–1	ALLH	Trimethylbenzene[1,2,4-]	0.0012	mg/kg	U
21-11273	MD21-01-0215	0.5–1	ALLH	Dibromo-3-Chloropropane[1,2-]	0.0012	mg/kg	U
21-11273	MD21-01-0215	0.5–1	ALLH	Trichloropropane[1,2,3-]	0.0012	mg/kg	U
21-11273	MD21-01-0215	0.5–1	ALLH	Butylbenzene[tert-]	0.0012	mg/kg	U
21-11273	MD21-01-0215	0.5–1	ALLH	Isopropylbenzene	0.0012	mg/kg	U
21-11273	MD21-01-0215	0.5–1	ALLH	Isopropyltoluene[4-]	0.0012	mg/kg	U
21-11273	MD21-01-0215	0.5–1	ALLH	Ethylbenzene	0.0012	mg/kg	U
21-11273	MD21-01-0215	0.5–1	ALLH	Americium-241	0.0325	pCi/g	U
21-11273	MD21-01-0215	0.5–1	ALLH	Tritium	0.114019	pCi/g	None
21-11273	MD21-01-0215	0.5–1	ALLH	Lead	7.68	mg/kg	None
21-11273	MD21-01-0215	0.5–1	ALLH	Aluminum	5190	mg/kg	None
21-11273	MD21-01-0215	0.5–1	ALLH	Silver	0.012	mg/kg	J
21-11273	MD21-01-0215	0.5–1	ALLH	Lithium	5.23	mg/kg	None
21-11273	MD21-01-0215	0.5–1	ALLH	Zinc	30.2	mg/kg	None
21-11273	MD21-01-0215	0.5–1	ALLH	Iron	6250	mg/kg	None
21-11273	MD21-01-0215	0.5–1	ALLH	Beryllium	0.386	mg/kg	None
21-11273	MD21-01-0215	0.5–1	ALLH	Manganese	156	mg/kg	None
21-11273	MD21-01-0215	0.5–1	ALLH	Vanadium	7.88	mg/kg	None
21-11273	MD21-01-0215	0.5–1	ALLH	Magnesium	771	mg/kg	J+
21-11273	MD21-01-0215	0.5–1	ALLH	Arsenic	2.42	mg/kg	None
21-11273	MD21-01-0215	0.5–1	ALLH	Thallium	0.026	mg/kg	J
21-11273	MD21-01-0215	0.5–1	ALLH	Chromium	4.47	mg/kg	None
21-11273	MD21-01-0215	0.5–1	ALLH	Sodium	79.6	mg/kg	None
21-11273	MD21-01-0215	0.5–1	ALLH	Strontium	9.55	mg/kg	None
21-11273	MD21-01-0215	0.5–1	ALLH	Selenium	0.342	mg/kg	U
21-11273	MD21-01-0215	0.5–1	ALLH	Cobalt	1.23	mg/kg	None
21-11273	MD21-01-0215	0.5–1	ALLH	Potassium	510	mg/kg	J+
21-11273	MD21-01-0215	0.5–1	ALLH	Calcium	987	mg/kg	J+
21-11273	MD21-01-0215	0.5–1	ALLH	Barium	36	mg/kg	J+
21-11273	MD21-01-0215	0.5–1	ALLH	Nickel	2.82	mg/kg	None
21-11273	MD21-01-0215	0.5–1	ALLH	Mercury	0.139	mg/kg	None
21-11273	MD21-01-0215	0.5–1	ALLH	Copper	3.08	mg/kg	None
21-11273	MD21-01-0215	0.5–1	ALLH	Cadmium	0.041	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11273	MD21-01-0215	0.5–1	ALLH	Cesium-137	0.0853	pCi/g	None
21-11273	MD21-01-0215	0.5–1	ALLH	Cobalt-60	0.00877	pCi/g	U
21-11273	MD21-01-0215	0.5–1	ALLH	Sodium-22	0.00535	pCi/g	U
21-11273	MD21-01-0215	0.5–1	ALLH	Ruthenium-106	0.025	pCi/g	U
21-11273	MD21-01-0215	0.5–1	ALLH	Cesium-134	-0.0146	pCi/g	U
21-11273	MD21-01-0215	0.5–1	ALLH	Europium-152	-0.0349	pCi/g	U
21-11273	MD21-01-0215	0.5–1	ALLH	Uranium-235	0.25	pCi/g	U
21-11273	MD21-01-0215	0.5–1	ALLH	Antimony	0.0468	mg/kg	J-
21-11273	MD21-01-0215	0.5–1	ALLH	Styrene	0.0012	mg/kg	U
21-11273	MD21-01-0215	0.5–1	ALLH	Dichloropropene[cis-1,3-]	0.0012	mg/kg	U
21-11273	MD21-01-0215	0.5–1	ALLH	Dichloropropene[trans-1,3-]	0.0012	mg/kg	U
21-11273	MD21-01-0215	0.5–1	ALLH	Propylbenzene[1-]	0.0012	mg/kg	U
21-11273	MD21-01-0217	2–2.5	Qbt 3	Ethylbenzene	0.0012	mg/kg	U
21-11273	MD21-01-0217	2–2.5	Qbt 3	Styrene	0.0012	mg/kg	U
21-11273	MD21-01-0217	2–2.5	Qbt 3	Dichloropropene[cis-1,3-]	0.0012	mg/kg	U
21-11273	MD21-01-0217	2–2.5	Qbt 3	Dichloropropene[trans-1,3-]	0.0012	mg/kg	U
21-11273	MD21-01-0217	2–2.5	Qbt 3	Propylbenzene[1-]	0.0012	mg/kg	U
21-11273	MD21-01-0217	2–2.5	Qbt 3	Butylbenzene[n-]	0.0012	mg/kg	U
21-11273	MD21-01-0217	2–2.5	Qbt 3	Carbon Disulfide	0.0061	mg/kg	U
21-11273	MD21-01-0217	2–2.5	Qbt 3	Bromoform	0.0012	mg/kg	U
21-11273	MD21-01-0217	2–2.5	Qbt 3	Dichloroethane[1,1-]	0.0012	mg/kg	U
21-11273	MD21-01-0217	2–2.5	Qbt 3	Trichlorofluoromethane	0.0012	mg/kg	U
21-11273	MD21-01-0217	2–2.5	Qbt 3	Xylene[1,2-]	0.0012	mg/kg	U
21-11273	MD21-01-0217	2–2.5	Qbt 3	Dichlorobenzene[1,2-]	0.0012	mg/kg	U
21-11273	MD21-01-0217	2–2.5	Qbt 3	Trichlorotrifluoroethane	0.0061	mg/kg	U
21-11273	MD21-01-0217	2–2.5	Qbt 3	Trimethylbenzene[1,2,4-]	0.0012	mg/kg	U
21-11273	MD21-01-0217	2–2.5	Qbt 3	Tetrachloroethene	0.0012	mg/kg	U
21-11273	MD21-01-0217	2–2.5	Qbt 3	Chlorodibromomethane	0.0012	mg/kg	U
21-11273	MD21-01-0217	2–2.5	Qbt 3	Tetrachloroethane[1,1,1,2-]	0.0012	mg/kg	U
21-11273	MD21-01-0217	2–2.5	Qbt 3	Dichlorobenzene[1,3-]	0.0012	mg/kg	U
21-11273	MD21-01-0217	2–2.5	Qbt 3	Vinyl Chloride	0.0012	mg/kg	U
21-11273	MD21-01-0217	2–2.5	Qbt 3	Bromomethane	0.0012	mg/kg	U
21-11273	MD21-01-0217	2–2.5	Qbt 3	Chlorotoluene[4-]	0.0012	mg/kg	U
21-11273	MD21-01-0217	2–2.5	Qbt 3	Dichloroethene[trans-1,2-]	0.0012	mg/kg	U
21-11273	MD21-01-0217	2–2.5	Qbt 3	Dichloropropane[1,3-]	0.0012	mg/kg	U
21-11273	MD21-01-0217	2–2.5	Qbt 3	Dibromo-3-Chloropropane[1,2-]	0.0012	mg/kg	U
21-11273	MD21-01-0217	2–2.5	Qbt 3	Trichloropropane[1,2,3-]	0.0012	mg/kg	U
21-11273	MD21-01-0217	2–2.5	Qbt 3	Isopropylbenzene	0.0012	mg/kg	U
21-11273	MD21-01-0217	2–2.5	Qbt 3	Isopropyltoluene[4-]	0.0012	mg/kg	U
21-11273	MD21-01-0217	2–2.5	Qbt 3	Butanone[2-]	0.0061	mg/kg	U
21-11273	MD21-01-0217	2–2.5	Qbt 3	Trichloroethene	0.0012	mg/kg	U
21-11273	MD21-01-0217	2–2.5	Qbt 3	Chlorotoluene[2-]	0.0012	mg/kg	U
21-11273	MD21-01-0217	2–2.5	Qbt 3	Butylbenzene[tert-]	0.0012	mg/kg	U
21-11273	MD21-01-0217	2–2.5	Qbt 3	Dichloroethene[1,1-]	0.0012	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11273	MD21-01-0217	2–2.5	Qbt 3	Dichlorodifluoromethane	0.0012	mg/kg	U
21-11273	MD21-01-0217	2–2.5	Qbt 3	Dichloropropane[1,2-]	0.0012	mg/kg	U
21-11273	MD21-01-0217	2–2.5	Qbt 3	Bromodichloromethane	0.0012	mg/kg	U
21-11273	MD21-01-0217	2–2.5	Qbt 3	Xylene[1,3-]+Xylene[1,4-]	0.0024	mg/kg	U
21-11273	MD21-01-0217	2–2.5	Qbt 3	Americium-241	0.0129	pCi/g	U
21-11273	MD21-01-0217	2–2.5	Qbt 3	Tritium	0.111314	pCi/g	None
21-11273	MD21-01-0217	2–2.5	Qbt 3	Nickel	2.63	mg/kg	None
21-11273	MD21-01-0217	2–2.5	Qbt 3	Lithium	5.34	mg/kg	None
21-11273	MD21-01-0217	2–2.5	Qbt 3	Cesium-137	-0.0174	pCi/g	U
21-11273	MD21-01-0217	2–2.5	Qbt 3	Cobalt-60	0.00678	pCi/g	U
21-11273	MD21-01-0217	2–2.5	Qbt 3	Trichloroethane[1,1,2-]	0.0012	mg/kg	U
21-11273	MD21-01-0217	2–2.5	Qbt 3	Tetrachloroethane[1,1,2,2-]	0.0012	mg/kg	U
21-11273	MD21-01-0217	2–2.5	Qbt 3	Ruthenium-106	-0.069	pCi/g	U
21-11273	MD21-01-0217	2–2.5	Qbt 3	Europium-152	0.0184	pCi/g	U
21-11273	MD21-01-0217	2–2.5	Qbt 3	Dibromoethane[1,2-]	0.0012	mg/kg	U
21-11273	MD21-01-0217	2–2.5	Qbt 3	Dichloroethene[cis-1,2-]	0.0012	mg/kg	U
21-11273	MD21-01-0217	2–2.5	Qbt 3	Chloroform	0.0012	mg/kg	U
21-11273	MD21-01-0217	2–2.5	Qbt 3	Dichloropropane[2,2-]	0.0012	mg/kg	U
21-11273	MD21-01-0217	2–2.5	Qbt 3	Uranium-235	0.28	pCi/g	U
21-11273	MD21-01-0217	2–2.5	Qbt 3	Antimony	0.0833	mg/kg	J-
21-11273	MD21-01-0217	2–2.5	Qbt 3	Dibromomethane	0.0012	mg/kg	U
21-11273	MD21-01-0217	2–2.5	Qbt 3	Dichloroethane[1,2-]	0.0012	mg/kg	U
21-11273	MD21-01-0217	2–2.5	Qbt 3	Toluene	0.0012	mg/kg	U
21-11273	MD21-01-0217	2–2.5	Qbt 3	Dichlorobenzene[1,4-]	0.0012	mg/kg	U
21-11273	MD21-01-0217	2–2.5	Qbt 3	Trichloroethane[1,1,1-]	0.0012	mg/kg	U
21-11273	MD21-01-0217	2–2.5	Qbt 3	Bromobenzene	0.0012	mg/kg	U
21-11273	MD21-01-0217	2–2.5	Qbt 3	Chlorobenzene	0.0012	mg/kg	U
21-11273	MD21-01-0217	2–2.5	Qbt 3	Acetone	0.0084	mg/kg	None
21-11273	MD21-01-0217	2–2.5	Qbt 3	Butylbenzene[sec-]	0.0012	mg/kg	U
21-11273	MD21-01-0217	2–2.5	Qbt 3	Chloromethane	0.0012	mg/kg	U
21-11273	MD21-01-0217	2–2.5	Qbt 3	Chloroethane	0.0012	mg/kg	U
21-11273	MD21-01-0217	2–2.5	Qbt 3	Methylene Chloride	0.0061	mg/kg	U
21-11273	MD21-01-0217	2–2.5	Qbt 3	Dichloropropene[1,1-]	0.0012	mg/kg	U
21-11273	MD21-01-0217	2–2.5	Qbt 3	Carbon Tetrachloride	0.0012	mg/kg	U
21-11273	MD21-01-0217	2–2.5	Qbt 3	Benzene	0.0012	mg/kg	U
21-11273	MD21-01-0217	2–2.5	Qbt 3	Bromochloromethane	0.0012	mg/kg	U
21-11273	MD21-01-0217	2–2.5	Qbt 3	Trimethylbenzene[1,3,5-]	0.0012	mg/kg	U
21-11273	MD21-01-0217	2–2.5	Qbt 3	Methyl-2-pentanone[4-]	0.0061	mg/kg	U
21-11273	MD21-01-0217	2–2.5	Qbt 3	Hexanone[2-]	0.0061	mg/kg	U
21-11273	MD21-01-0217	2–2.5	Qbt 3	Iodomethane	0.0061	mg/kg	U
21-11273	MD21-01-0217	2–2.5	Qbt 3	Lead	6.2	mg/kg	None
21-11273	MD21-01-0217	2–2.5	Qbt 3	Zinc	44.6	mg/kg	None
21-11273	MD21-01-0217	2–2.5	Qbt 3	Manganese	138	mg/kg	None
21-11273	MD21-01-0217	2–2.5	Qbt 3	Selenium	0.351	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11273	MD21-01-0217	2–2.5	Qbt 3	Magnesium	1300	mg/kg	J+
21-11273	MD21-01-0217	2–2.5	Qbt 3	Arsenic	2.26	mg/kg	None
21-11273	MD21-01-0217	2–2.5	Qbt 3	Cadmium	0.042	mg/kg	U
21-11273	MD21-01-0217	2–2.5	Qbt 3	Potassium	631	mg/kg	J+
21-11273	MD21-01-0217	2–2.5	Qbt 3	Copper	3.34	mg/kg	None
21-11273	MD21-01-0217	2–2.5	Qbt 3	Barium	47.8	mg/kg	J+
21-11273	MD21-01-0217	2–2.5	Qbt 3	Beryllium	0.404	mg/kg	None
21-11273	MD21-01-0217	2–2.5	Qbt 3	Thallium	0.033	mg/kg	J
21-11273	MD21-01-0217	2–2.5	Qbt 3	Chromium	6.41	mg/kg	None
21-11273	MD21-01-0217	2–2.5	Qbt 3	Strontium	14.9	mg/kg	None
21-11273	MD21-01-0217	2–2.5	Qbt 3	Vanadium	9.64	mg/kg	None
21-11273	MD21-01-0217	2–2.5	Qbt 3	Silver	0.002	mg/kg	J
21-11273	MD21-01-0217	2–2.5	Qbt 3	Iron	7730	mg/kg	None
21-11273	MD21-01-0217	2–2.5	Qbt 3	Aluminum	7510	mg/kg	None
21-11273	MD21-01-0217	2–2.5	Qbt 3	Mercury	0.027	mg/kg	None
21-11273	MD21-01-0217	2–2.5	Qbt 3	Cobalt	0.99	mg/kg	None
21-11273	MD21-01-0217	2–2.5	Qbt 3	Calcium	2030	mg/kg	J+
21-11273	MD21-01-0217	2–2.5	Qbt 3	Sodium	203	mg/kg	None
21-11273	MD21-01-0217	2–2.5	Qbt 3	Sodium-22	0.0195	pCi/g	U
21-11273	MD21-01-0217	2–2.5	Qbt 3	Cesium-134	-0.00216	pCi/g	U
21-11273	MD21-01-0217	2–2.5	Qbt 3	Perchlorate	0.0383	mg/kg	U
21-11273	MD21-03-50279	0.5–1	Qbt 3	Plutonium-238	0.00171	pCi/g	U
21-11273	MD21-03-50279	0.5–1	Qbt 3	Plutonium-239	-0.00853	pCi/g	U
21-11273	MD21-03-50280	2–2.5	Qbt 3	Plutonium-238	0.0143	pCi/g	U
21-11273	MD21-03-50280	2–2.5	Qbt 3	Plutonium-239	0.0643	pCi/g	None
21-11274	MD21-01-0218	0.5–1	ALLH	Dichloropropene[cis-1,3-]	0.0014	mg/kg	U
21-11274	MD21-01-0218	0.5–1	ALLH	Dichloropropene[trans-1,3-]	0.0014	mg/kg	U
21-11274	MD21-01-0218	0.5–1	ALLH	Butylbenzene[n-]	0.0014	mg/kg	UJ
21-11274	MD21-01-0218	0.5–1	ALLH	Styrene	0.0014	mg/kg	U
21-11274	MD21-01-0218	0.5–1	ALLH	Dibromoethane[1,2-]	0.0014	mg/kg	U
21-11274	MD21-01-0218	0.5–1	ALLH	Methyl-2-pentanone[4-]	0.0069	mg/kg	U
21-11274	MD21-01-0218	0.5–1	ALLH	Dichlorobenzene[1,4-]	0.0014	mg/kg	UJ
21-11274	MD21-01-0218	0.5–1	ALLH	Ethylbenzene	0.0014	mg/kg	U
21-11274	MD21-01-0218	0.5–1	ALLH	Chlorotoluene[4-]	0.0014	mg/kg	UJ
21-11274	MD21-01-0218	0.5–1	ALLH	Propylbenzene[1-]	0.0014	mg/kg	UJ
21-11274	MD21-01-0218	0.5–1	ALLH	Xylene[1,3-]+Xylene[1,4-]	0.0027	mg/kg	U
21-11274	MD21-01-0218	0.5–1	ALLH	Americium-241	0.0107	pCi/g	U
21-11274	MD21-01-0218	0.5–1	ALLH	Nickel	1.83	mg/kg	None
21-11274	MD21-01-0218	0.5–1	ALLH	Lead	3.51	mg/kg	None
21-11274	MD21-01-0218	0.5–1	ALLH	Aluminum	1650	mg/kg	None
21-11274	MD21-01-0218	0.5–1	ALLH	Silver	0.001	mg/kg	U
21-11274	MD21-01-0218	0.5–1	ALLH	Magnesium	302	mg/kg	J+
21-11274	MD21-01-0218	0.5–1	ALLH	Iron	4300	mg/kg	None
21-11274	MD21-01-0218	0.5–1	ALLH	Mercury	0.058	mg/kg	None

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11274	MD21-01-0218	0.5–1	ALLH	Lithium	2.29	mg/kg	None
21-11274	MD21-01-0218	0.5–1	ALLH	Thallium	0.004	mg/kg	U
21-11274	MD21-01-0218	0.5–1	ALLH	Beryllium	0.172	mg/kg	None
21-11274	MD21-01-0218	0.5–1	ALLH	Perchlorate	0.037	mg/kg	U
21-11274	MD21-01-0218	0.5–1	ALLH	Dichloroethane[1,2-]	0.0014	mg/kg	U
21-11274	MD21-01-0218	0.5–1	ALLH	Trichloroethane[1,1,2-]	0.0014	mg/kg	U
21-11274	MD21-01-0218	0.5–1	ALLH	Chlorotoluene[2-]	0.0014	mg/kg	UJ
21-11274	MD21-01-0218	0.5–1	ALLH	Trichloropropane[1,2,3-]	0.0014	mg/kg	UJ
21-11274	MD21-01-0218	0.5–1	ALLH	Dibromo-3-Chloropropane[1,2-]	0.0014	mg/kg	UJ
21-11274	MD21-01-0218	0.5–1	ALLH	Dichloropropane[1,2-]	0.0014	mg/kg	U
21-11274	MD21-01-0218	0.5–1	ALLH	Tritium	0.042273	pCi/g	None
21-11274	MD21-01-0218	0.5–1	ALLH	Barium	22.4	mg/kg	J+
21-11274	MD21-01-0218	0.5–1	ALLH	Manganese	271	mg/kg	None
21-11274	MD21-01-0218	0.5–1	ALLH	Cadmium	0.04	mg/kg	U
21-11274	MD21-01-0218	0.5–1	ALLH	Chromium	2.49	mg/kg	None
21-11274	MD21-01-0218	0.5–1	ALLH	Selenium	0.331	mg/kg	U
21-11274	MD21-01-0218	0.5–1	ALLH	Antimony	0.0491	mg/kg	J-
21-11274	MD21-01-0218	0.5–1	ALLH	Cesium-137	0.0334	pCi/g	U
21-11274	MD21-01-0218	0.5–1	ALLH	Cobalt-60	-0.00524	pCi/g	U
21-11274	MD21-01-0218	0.5–1	ALLH	Sodium-22	-0.0175	pCi/g	U
21-11274	MD21-01-0218	0.5–1	ALLH	Ruthenium-106	0.0331	pCi/g	U
21-11274	MD21-01-0218	0.5–1	ALLH	Cesium-134	-0.0778	pCi/g	U
21-11274	MD21-01-0218	0.5–1	ALLH	Calcium	380	mg/kg	J+
21-11274	MD21-01-0218	0.5–1	ALLH	Vanadium	3.18	mg/kg	None
21-11274	MD21-01-0218	0.5–1	ALLH	Zinc	34.5	mg/kg	None
21-11274	MD21-01-0218	0.5–1	ALLH	Cobalt	0.848	mg/kg	None
21-11274	MD21-01-0218	0.5–1	ALLH	Copper	2.56	mg/kg	None
21-11274	MD21-01-0218	0.5–1	ALLH	Arsenic	2.14	mg/kg	None
21-11274	MD21-01-0218	0.5–1	ALLH	Sodium	82.6	mg/kg	None
21-11274	MD21-01-0218	0.5–1	ALLH	Potassium	243	mg/kg	J+
21-11274	MD21-01-0218	0.5–1	ALLH	Strontium	3.3	mg/kg	None
21-11274	MD21-01-0218	0.5–1	ALLH	Isopropyltoluene[4-]	0.0068	mg/kg	J
21-11274	MD21-01-0218	0.5–1	ALLH	Trichlorotrifluoroethane	0.0069	mg/kg	U
21-11274	MD21-01-0218	0.5–1	ALLH	Dichlorodifluoromethane	0.0014	mg/kg	U
21-11274	MD21-01-0218	0.5–1	ALLH	Butanone[2-]	0.0047	mg/kg	J
21-11274	MD21-01-0218	0.5–1	ALLH	Trichloroethene	0.0014	mg/kg	U
21-11274	MD21-01-0218	0.5–1	ALLH	Isopropylbenzene	0.0014	mg/kg	UJ
21-11274	MD21-01-0218	0.5–1	ALLH	Trichlorofluoromethane	0.0014	mg/kg	U
21-11274	MD21-01-0218	0.5–1	ALLH	Xylene[1,2-]	0.0014	mg/kg	U
21-11274	MD21-01-0218	0.5–1	ALLH	Dichlorobenzene[1,2-]	0.0014	mg/kg	UJ
21-11274	MD21-01-0218	0.5–1	ALLH	Butylbenzene[tert-]	0.0014	mg/kg	UJ
21-11274	MD21-01-0218	0.5–1	ALLH	Trimethylbenzene[1,2,4-]	0.0014	mg/kg	UJ
21-11274	MD21-01-0218	0.5–1	ALLH	Tetrachloroethane[1,1,2,2-]	0.0014	mg/kg	UJ
21-11274	MD21-01-0218	0.5–1	ALLH	Acetone	0.0617	mg/kg	None

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11274	MD21-01-0218	0.5–1	ALLH	Vinyl Chloride	0.0014	mg/kg	U
21-11274	MD21-01-0218	0.5–1	ALLH	Chloroform	0.0014	mg/kg	U
21-11274	MD21-01-0218	0.5–1	ALLH	Chlorobenzene	0.0014	mg/kg	U
21-11274	MD21-01-0218	0.5–1	ALLH	Bromoform	0.0014	mg/kg	U
21-11274	MD21-01-0218	0.5–1	ALLH	Europium-152	0.0247	pCi/g	U
21-11274	MD21-01-0218	0.5–1	ALLH	Chloromethane	0.0014	mg/kg	U
21-11274	MD21-01-0218	0.5–1	ALLH	Dichloropropene[1,1-]	0.0014	mg/kg	U
21-11274	MD21-01-0218	0.5–1	ALLH	Methylene Chloride	0.0069	mg/kg	U
21-11274	MD21-01-0218	0.5–1	ALLH	Chloroethane	0.0014	mg/kg	U
21-11274	MD21-01-0218	0.5–1	ALLH	Carbon Tetrachloride	0.0014	mg/kg	U
21-11274	MD21-01-0218	0.5–1	ALLH	Butylbenzene[sec-]	0.0014	mg/kg	UJ
21-11274	MD21-01-0218	0.5–1	ALLH	Toluene	0.0016	mg/kg	None
21-11274	MD21-01-0218	0.5–1	ALLH	Dichloroethene[1,1-]	0.0014	mg/kg	U
21-11274	MD21-01-0218	0.5–1	ALLH	Bromomethane	0.0014	mg/kg	U
21-11274	MD21-01-0218	0.5–1	ALLH	Trichloroethane[1,1,1-]	0.0014	mg/kg	U
21-11274	MD21-01-0218	0.5–1	ALLH	Uranium-235	0.234	pCi/g	U
21-11274	MD21-01-0218	0.5–1	ALLH	Chlorodibromomethane	0.0014	mg/kg	U
21-11274	MD21-01-0218	0.5–1	ALLH	Dibromomethane	0.0014	mg/kg	U
21-11274	MD21-01-0218	0.5–1	ALLH	Tetrachloroethene	0.0014	mg/kg	U
21-11274	MD21-01-0218	0.5–1	ALLH	Iodomethane	0.0069	mg/kg	U
21-11274	MD21-01-0218	0.5–1	ALLH	Benzene	0.0014	mg/kg	U
21-11274	MD21-01-0218	0.5–1	ALLH	Hexanone[2-]	0.0069	mg/kg	U
21-11274	MD21-01-0218	0.5–1	ALLH	Dichloroethane[1,1-]	0.0014	mg/kg	U
21-11274	MD21-01-0218	0.5–1	ALLH	Bromobenzene	0.0014	mg/kg	UJ
21-11274	MD21-01-0218	0.5–1	ALLH	Dichloropropane[1,3-]	0.0014	mg/kg	U
21-11274	MD21-01-0218	0.5–1	ALLH	Dichloropropane[2,2-]	0.0014	mg/kg	U
21-11274	MD21-01-0218	0.5–1	ALLH	Dichloroethene[cis-1,2-]	0.0014	mg/kg	U
21-11274	MD21-01-0218	0.5–1	ALLH	Trimethylbenzene[1,3,5-]	0.0014	mg/kg	UJ
21-11274	MD21-01-0218	0.5–1	ALLH	Carbon Disulfide	0.0069	mg/kg	U
21-11274	MD21-01-0218	0.5–1	ALLH	Dichloroethene[trans-1,2-]	0.0014	mg/kg	U
21-11274	MD21-01-0218	0.5–1	ALLH	Dichlorobenzene[1,3-]	0.0014	mg/kg	UJ
21-11274	MD21-01-0218	0.5–1	ALLH	Tetrachloroethane[1,1,1,2-]	0.0014	mg/kg	U
21-11274	MD21-01-0218	0.5–1	ALLH	Bromochloromethane	0.0014	mg/kg	U
21-11274	MD21-01-0218	0.5–1	ALLH	Bromodichloromethane	0.0014	mg/kg	U
21-11274	MD21-01-0219	2–2.5	Qbt 3	Trichloroethene	0.0013	mg/kg	U
21-11274	MD21-01-0219	2–2.5	Qbt 3	Trichloroethane[1,1,2-]	0.0013	mg/kg	U
21-11274	MD21-01-0219	2–2.5	Qbt 3	Perchlorate	0.015	mg/kg	U
21-11274	MD21-01-0219	2–2.5	Qbt 3	Dichloropropene[1,1-]	0.0013	mg/kg	U
21-11274	MD21-01-0219	2–2.5	Qbt 3	Dichloroethene[cis-1,2-]	0.0013	mg/kg	U
21-11274	MD21-01-0219	2–2.5	Qbt 3	Methylene Chloride	0.0065	mg/kg	U
21-11274	MD21-01-0219	2–2.5	Qbt 3	Bromochloromethane	0.0013	mg/kg	U
21-11274	MD21-01-0219	2–2.5	Qbt 3	Dibromomethane	0.0013	mg/kg	U
21-11274	MD21-01-0219	2–2.5	Qbt 3	Chloromethane	0.0013	mg/kg	U
21-11274	MD21-01-0219	2–2.5	Qbt 3	Trichlorofluoromethane	0.0013	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11274	MD21-01-0219	2–2.5	Qbt 3	Iodomethane	0.0065	mg/kg	U
21-11274	MD21-01-0219	2–2.5	Qbt 3	Butylbenzene[sec-]	0.0013	mg/kg	U
21-11274	MD21-01-0219	2–2.5	Qbt 3	Methyl-2-pentanone[4-]	0.0065	mg/kg	U
21-11274	MD21-01-0219	2–2.5	Qbt 3	Butylbenzene[n-]	0.0013	mg/kg	U
21-11274	MD21-01-0219	2–2.5	Qbt 3	Dichlorobenzene[1,4-]	0.0013	mg/kg	U
21-11274	MD21-01-0219	2–2.5	Qbt 3	Chlorobenzene	0.0013	mg/kg	U
21-11274	MD21-01-0219	2–2.5	Qbt 3	Chlorotoluene[4-]	0.0013	mg/kg	U
21-11274	MD21-01-0219	2–2.5	Qbt 3	Ethylbenzene	0.0013	mg/kg	U
21-11274	MD21-01-0219	2–2.5	Qbt 3	Styrene	0.0013	mg/kg	U
21-11274	MD21-01-0219	2–2.5	Qbt 3	Dichloropropene[trans-1,3-]	0.0013	mg/kg	U
21-11274	MD21-01-0219	2–2.5	Qbt 3	Propylbenzene[1-]	0.0013	mg/kg	U
21-11274	MD21-01-0219	2–2.5	Qbt 3	Bromobenzene	0.0013	mg/kg	U
21-11274	MD21-01-0219	2–2.5	Qbt 3	Toluene	0.0013	mg/kg	U
21-11274	MD21-01-0219	2–2.5	Qbt 3	Chlorodibromomethane	0.0013	mg/kg	U
21-11274	MD21-01-0219	2–2.5	Qbt 3	Dibromoethane[1,2-]	0.0013	mg/kg	U
21-11274	MD21-01-0219	2–2.5	Qbt 3	Chloroethane	0.0013	mg/kg	U
21-11274	MD21-01-0219	2–2.5	Qbt 3	Chloroform	0.0013	mg/kg	U
21-11274	MD21-01-0219	2–2.5	Qbt 3	Dichloroethane[1,2-]	0.0013	mg/kg	U
21-11274	MD21-01-0219	2–2.5	Qbt 3	Dichloropropane[1,2-]	0.0013	mg/kg	U
21-11274	MD21-01-0219	2–2.5	Qbt 3	Dichloropropene[cis-1,3-]	0.0013	mg/kg	U
21-11274	MD21-01-0219	2–2.5	Qbt 3	Trimethylbenzene[1,3,5-]	0.0013	mg/kg	U
21-11274	MD21-01-0219	2–2.5	Qbt 3	Bromomethane	0.0013	mg/kg	U
21-11274	MD21-01-0219	2–2.5	Qbt 3	Vinyl Chloride	0.0013	mg/kg	U
21-11274	MD21-01-0219	2–2.5	Qbt 3	Bromoform	0.0013	mg/kg	U
21-11274	MD21-01-0219	2–2.5	Qbt 3	Dichloroethene[trans-1,2-]	0.0013	mg/kg	U
21-11274	MD21-01-0219	2–2.5	Qbt 3	Trichloroethane[1,1,1-]	0.0013	mg/kg	U
21-11274	MD21-01-0219	2–2.5	Qbt 3	Carbon Disulfide	0.0065	mg/kg	U
21-11274	MD21-01-0219	2–2.5	Qbt 3	Dichloropropane[1,3-]	0.0013	mg/kg	U
21-11274	MD21-01-0219	2–2.5	Qbt 3	Dichlorodifluoromethane	0.0013	mg/kg	U
21-11274	MD21-01-0219	2–2.5	Qbt 3	Dichlorobenzene[1,3-]	0.0013	mg/kg	U
21-11274	MD21-01-0219	2–2.5	Qbt 3	Xylene[1,3-]+Xylene[1,4-]	0.0026	mg/kg	U
21-11274	MD21-01-0219	2–2.5	Qbt 3	Americium-241	0.00713	pCi/g	U
21-11274	MD21-01-0219	2–2.5	Qbt 3	Tritium	0.072373	pCi/g	None
21-11274	MD21-01-0219	2–2.5	Qbt 3	Silver	0.001	mg/kg	U
21-11274	MD21-01-0219	2–2.5	Qbt 3	Thallium	0.004	mg/kg	U
21-11274	MD21-01-0219	2–2.5	Qbt 3	Lead	1.84	mg/kg	None
21-11274	MD21-01-0219	2–2.5	Qbt 3	Beryllium	0.161	mg/kg	None
21-11274	MD21-01-0219	2–2.5	Qbt 3	Potassium	134	mg/kg	J+
21-11274	MD21-01-0219	2–2.5	Qbt 3	Barium	10.8	mg/kg	J+
21-11274	MD21-01-0219	2–2.5	Qbt 3	Arsenic	1.7	mg/kg	None
21-11274	MD21-01-0219	2–2.5	Qbt 3	Iron	3260	mg/kg	None
21-11274	MD21-01-0219	2–2.5	Qbt 3	Cobalt	0.449	mg/kg	J
21-11274	MD21-01-0219	2–2.5	Qbt 3	Strontium	0.839	mg/kg	None
21-11274	MD21-01-0219	2–2.5	Qbt 3	Nickel	1.35	mg/kg	None

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11274	MD21-01-0219	2–2.5	Qbt 3	Manganese	213	mg/kg	None
21-11274	MD21-01-0219	2–2.5	Qbt 3	Mercury	0.021	mg/kg	None
21-11274	MD21-01-0219	2–2.5	Qbt 3	Aluminum	451	mg/kg	None
21-11274	MD21-01-0219	2–2.5	Qbt 3	Cadmium	0.041	mg/kg	U
21-11274	MD21-01-0219	2–2.5	Qbt 3	Lithium	1.53	mg/kg	J
21-11274	MD21-01-0219	2–2.5	Qbt 3	Magnesium	127	mg/kg	J+
21-11274	MD21-01-0219	2–2.5	Qbt 3	Sodium	89.2	mg/kg	None
21-11274	MD21-01-0219	2–2.5	Qbt 3	Zinc	26.8	mg/kg	None
21-11274	MD21-01-0219	2–2.5	Qbt 3	Calcium	175	mg/kg	J+
21-11274	MD21-01-0219	2–2.5	Qbt 3	Selenium	0.34	mg/kg	U
21-11274	MD21-01-0219	2–2.5	Qbt 3	Cesium-137	-0.0266	pCi/g	U
21-11274	MD21-01-0219	2–2.5	Qbt 3	Cobalt-60	-0.0182	pCi/g	U
21-11274	MD21-01-0219	2–2.5	Qbt 3	Sodium-22	0.00451	pCi/g	U
21-11274	MD21-01-0219	2–2.5	Qbt 3	Ruthenium-106	0.102	pCi/g	U
21-11274	MD21-01-0219	2–2.5	Qbt 3	Cesium-134	-0.013	pCi/g	U
21-11274	MD21-01-0219	2–2.5	Qbt 3	Tetrachloroethane[1,1,2,2-]	0.0013	mg/kg	U
21-11274	MD21-01-0219	2–2.5	Qbt 3	Dibromo-3-Chloropropane[1,2-]	0.0013	mg/kg	U
21-11274	MD21-01-0219	2–2.5	Qbt 3	Europium-152	-0.0228	pCi/g	U
21-11274	MD21-01-0219	2–2.5	Qbt 3	Uranium-235	0.19	pCi/g	U
21-11274	MD21-01-0219	2–2.5	Qbt 3	Antimony	0.0406	mg/kg	U
21-11274	MD21-01-0219	2–2.5	Qbt 3	Xylene[1,2-]	0.0013	mg/kg	U
21-11274	MD21-01-0219	2–2.5	Qbt 3	Isopropylbenzene	0.0013	mg/kg	U
21-11274	MD21-01-0219	2–2.5	Qbt 3	Dichlorobenzene[1,2-]	0.0013	mg/kg	U
21-11274	MD21-01-0219	2–2.5	Qbt 3	Isopropyltoluene[4-]	0.0013	mg/kg	U
21-11274	MD21-01-0219	2–2.5	Qbt 3	Chlorotoluene[2-]	0.0013	mg/kg	U
21-11274	MD21-01-0219	2–2.5	Qbt 3	Trichloropropane[1,2,3-]	0.0013	mg/kg	U
21-11274	MD21-01-0219	2–2.5	Qbt 3	Butylbenzene[tert-]	0.0013	mg/kg	U
21-11274	MD21-01-0219	2–2.5	Qbt 3	Trimethylbenzene[1,2,4-]	0.0013	mg/kg	U
21-11274	MD21-01-0219	2–2.5	Qbt 3	Copper	1.79	mg/kg	None
21-11274	MD21-01-0219	2–2.5	Qbt 3	Chromium	4.63	mg/kg	None
21-11274	MD21-01-0219	2–2.5	Qbt 3	Vanadium	1.26	mg/kg	None
21-11274	MD21-01-0219	2–2.5	Qbt 3	Butanone[2-]	0.0065	mg/kg	U
21-11274	MD21-01-0219	2–2.5	Qbt 3	Benzene	0.0013	mg/kg	U
21-11274	MD21-01-0219	2–2.5	Qbt 3	Tetrachloroethene	0.0013	mg/kg	U
21-11274	MD21-01-0219	2–2.5	Qbt 3	Trichlorotrifluoroethane	0.0065	mg/kg	U
21-11274	MD21-01-0219	2–2.5	Qbt 3	Tetrachloroethane[1,1,1,2-]	0.0013	mg/kg	U
21-11274	MD21-01-0219	2–2.5	Qbt 3	Hexanone[2-]	0.0065	mg/kg	U
21-11274	MD21-01-0219	2–2.5	Qbt 3	Dichloropropane[2,2-]	0.0013	mg/kg	U
21-11274	MD21-01-0219	2–2.5	Qbt 3	Bromodichloromethane	0.0013	mg/kg	U
21-11274	MD21-01-0219	2–2.5	Qbt 3	Dichloroethane[1,1-]	0.0013	mg/kg	U
21-11274	MD21-01-0219	2–2.5	Qbt 3	Dichloroethene[1,1-]	0.0013	mg/kg	U
21-11274	MD21-01-0219	2–2.5	Qbt 3	Carbon Tetrachloride	0.0013	mg/kg	U
21-11274	MD21-01-0219	2–2.5	Qbt 3	Acetone	0.0036	mg/kg	J
21-11274	MD21-03-50281	0.5–1	Qbt 3	Plutonium-238	-0.00162	pCi/g	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11274	MD21-03-50281	0.5–1	Qbt 3	Plutonium-239	0.0258	pCi/g	U
21-11274	MD21-03-50282	2–2.5	Qbt 3	Plutonium-238	0.0051	pCi/g	U
21-11274	MD21-03-50282	2–2.5	Qbt 3	Plutonium-239	-0.0051	pCi/g	U
21-11275	MD21-01-0220	0.5–1	ALLH	Trichloroethane[1,1,2-]	0.0014	mg/kg	U
21-11275	MD21-01-0220	0.5–1	ALLH	Butylbenzene[n-]	0.0014	mg/kg	UJ
21-11275	MD21-01-0220	0.5–1	ALLH	Trichlorofluoromethane	0.0032	mg/kg	J
21-11275	MD21-01-0220	0.5–1	ALLH	Dichloropropene[cis-1,3-]	0.0014	mg/kg	U
21-11275	MD21-01-0220	0.5–1	ALLH	Hexanone[2-]	0.0071	mg/kg	U
21-11275	MD21-01-0220	0.5–1	ALLH	Chloromethane	0.00082	mg/kg	J
21-11275	MD21-01-0220	0.5–1	ALLH	Dichloropropane[2,2-]	0.0014	mg/kg	U
21-11275	MD21-01-0220	0.5–1	ALLH	Dichlorobenzene[1,3-]	0.0014	mg/kg	UJ
21-11275	MD21-01-0220	0.5–1	ALLH	Mercury	0.16	mg/kg	J-
21-11275	MD21-01-0220	0.5–1	ALLH	Lithium	5.08	mg/kg	None
21-11275	MD21-01-0220	0.5–1	ALLH	Nickel	3.22	mg/kg	None
21-11275	MD21-01-0220	0.5–1	ALLH	Silver	0.006	mg/kg	J
21-11275	MD21-01-0220	0.5–1	ALLH	Thallium	0.051	mg/kg	J
21-11275	MD21-01-0220	0.5–1	ALLH	Beryllium	0.339	mg/kg	None
21-11275	MD21-01-0220	0.5–1	ALLH	Aluminum	9430	mg/kg	None
21-11275	MD21-01-0220	0.5–1	ALLH	Iron	9190	mg/kg	None
21-11275	MD21-01-0220	0.5–1	ALLH	Lead	9.97	mg/kg	None
21-11275	MD21-01-0220	0.5–1	ALLH	Magnesium	1490	mg/kg	J+
21-11275	MD21-01-0220	0.5–1	ALLH	Manganese	211	mg/kg	None
21-11275	MD21-01-0220	0.5–1	ALLH	Potassium	869	mg/kg	J+
21-11275	MD21-01-0220	0.5–1	ALLH	Sodium	94.6	mg/kg	None
21-11275	MD21-01-0220	0.5–1	ALLH	Strontium	13	mg/kg	None
21-11275	MD21-01-0220	0.5–1	ALLH	Arsenic	2.52	mg/kg	None
21-11275	MD21-01-0220	0.5–1	ALLH	Barium	47.1	mg/kg	J+
21-11275	MD21-01-0220	0.5–1	ALLH	Cadmium	0.043	mg/kg	U
21-11275	MD21-01-0220	0.5–1	ALLH	Chromium	6.94	mg/kg	None
21-11275	MD21-01-0220	0.5–1	ALLH	Cobalt	3.08	mg/kg	None
21-11275	MD21-01-0220	0.5–1	ALLH	Copper	4.95	mg/kg	None
21-11275	MD21-01-0220	0.5–1	ALLH	Vanadium	12.4	mg/kg	None
21-11275	MD21-01-0220	0.5–1	ALLH	Zinc	28.6	mg/kg	None
21-11275	MD21-01-0220	0.5–1	ALLH	Calcium	1550	mg/kg	J+
21-11275	MD21-01-0220	0.5–1	ALLH	Selenium	0.357	mg/kg	U
21-11275	MD21-01-0220	0.5–1	ALLH	Isopropyltoluene[4-]	0.0033	mg/kg	J
21-11275	MD21-01-0220	0.5–1	ALLH	Trichloropropane[1,2,3-]	0.0014	mg/kg	UJ
21-11275	MD21-01-0220	0.5–1	ALLH	Isopropylbenzene	0.0014	mg/kg	UJ
21-11275	MD21-01-0220	0.5–1	ALLH	Butylbenzene[tert-]	0.0014	mg/kg	UJ
21-11275	MD21-01-0220	0.5–1	ALLH	Styrene	0.0014	mg/kg	U
21-11275	MD21-01-0220	0.5–1	ALLH	Propylbenzene[1-]	0.0014	mg/kg	UJ
21-11275	MD21-01-0220	0.5–1	ALLH	Dichlorobenzene[1,2-]	0.0014	mg/kg	UJ
21-11275	MD21-01-0220	0.5–1	ALLH	Dichloroethane[1,2-]	0.0014	mg/kg	U
21-11275	MD21-01-0220	0.5–1	ALLH	Methyl-2-pentanone[4-]	0.0071	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11275	MD21-01-0220	0.5–1	ALLH	Bromobenzene	0.0014	mg/kg	UJ
21-11275	MD21-01-0220	0.5–1	ALLH	Bromochloromethane	0.0014	mg/kg	U
21-11275	MD21-01-0220	0.5–1	ALLH	Tetrachloroethane[1,1,1,2-]	0.0014	mg/kg	U
21-11275	MD21-01-0220	0.5–1	ALLH	Trimethylbenzene[1,3,5-]	0.0014	mg/kg	UJ
21-11275	MD21-01-0220	0.5–1	ALLH	Chloroform	0.0014	mg/kg	U
21-11275	MD21-01-0220	0.5–1	ALLH	Trichlorotrifluoroethane	0.0071	mg/kg	U
21-11275	MD21-01-0220	0.5–1	ALLH	Butanone[2-]	0.0073	mg/kg	None
21-11275	MD21-01-0220	0.5–1	ALLH	Dichloropropane[1,3-]	0.0014	mg/kg	U
21-11275	MD21-01-0220	0.5–1	ALLH	Carbon Tetrachloride	0.0014	mg/kg	U
21-11275	MD21-01-0220	0.5–1	ALLH	Chlorodibromomethane	0.0014	mg/kg	U
21-11275	MD21-01-0220	0.5–1	ALLH	Ethylbenzene	0.0014	mg/kg	U
21-11275	MD21-01-0220	0.5–1	ALLH	Bromomethane	0.0014	mg/kg	U
21-11275	MD21-01-0220	0.5–1	ALLH	Acetone	0.073	mg/kg	U
21-11275	MD21-01-0220	0.5–1	ALLH	Benzene	0.0011	mg/kg	U
21-11275	MD21-01-0220	0.5–1	ALLH	Dichlorodifluoromethane	0.0014	mg/kg	U
21-11275	MD21-01-0220	0.5–1	ALLH	Dibromo-3-Chloropropane[1,2-]	0.0014	mg/kg	UJ
21-11275	MD21-01-0220	0.5–1	ALLH	Dibromomethane	0.0014	mg/kg	U
21-11275	MD21-01-0220	0.5–1	ALLH	Vinyl Chloride	0.0014	mg/kg	U
21-11275	MD21-01-0220	0.5–1	ALLH	Iodomethane	0.0071	mg/kg	U
21-11275	MD21-01-0220	0.5–1	ALLH	Dichloroethene[1,1-]	0.0014	mg/kg	U
21-11275	MD21-01-0220	0.5–1	ALLH	Trichloroethene	0.0014	mg/kg	U
21-11275	MD21-01-0220	0.5–1	ALLH	Cesium-137	0.0508	pCi/g	None
21-11275	MD21-01-0220	0.5–1	ALLH	Americium-241	0.0206	pCi/g	U
21-11275	MD21-01-0220	0.5–1	ALLH	Cobalt-60	-0.0143	pCi/g	U
21-11275	MD21-01-0220	0.5–1	ALLH	Sodium-22	-0.0298	pCi/g	U
21-11275	MD21-01-0220	0.5–1	ALLH	Ruthenium-106	-0.00602	pCi/g	U
21-11275	MD21-01-0220	0.5–1	ALLH	Cesium-134	-0.00465	pCi/g	U
21-11275	MD21-01-0220	0.5–1	ALLH	Tritium	0.163758	pCi/g	None
21-11275	MD21-01-0220	0.5–1	ALLH	Europium-152	0.0169	pCi/g	U
21-11275	MD21-01-0220	0.5–1	ALLH	Dichloroethene[trans-1,2-]	0.0014	mg/kg	U
21-11275	MD21-01-0220	0.5–1	ALLH	Dibromoethane[1,2-]	0.0014	mg/kg	U
21-11275	MD21-01-0220	0.5–1	ALLH	Dichloropropane[1,2-]	0.0014	mg/kg	U
21-11275	MD21-01-0220	0.5–1	ALLH	Carbon Disulfide	0.0071	mg/kg	U
21-11275	MD21-01-0220	0.5–1	ALLH	Trichloroethane[1,1,1-]	0.0014	mg/kg	U
21-11275	MD21-01-0220	0.5–1	ALLH	Xylene[1,2-]	0.0014	mg/kg	U
21-11275	MD21-01-0220	0.5–1	ALLH	Tetrachloroethene	0.0014	mg/kg	U
21-11275	MD21-01-0220	0.5–1	ALLH	Chlorotoluene[2-]	0.0014	mg/kg	UJ
21-11275	MD21-01-0220	0.5–1	ALLH	Butylbenzene[sec-]	0.0014	mg/kg	UJ
21-11275	MD21-01-0220	0.5–1	ALLH	Dichloroethene[cis-1,2-]	0.0014	mg/kg	U
21-11275	MD21-01-0220	0.5–1	ALLH	Tetrachloroethane[1,1,2,2-]	0.0014	mg/kg	UJ
21-11275	MD21-01-0220	0.5–1	ALLH	Bromodichloromethane	0.0014	mg/kg	U
21-11275	MD21-01-0220	0.5–1	ALLH	Chloroethane	0.0014	mg/kg	U
21-11275	MD21-01-0220	0.5–1	ALLH	Dichloroethane[1,1-]	0.0014	mg/kg	U
21-11275	MD21-01-0220	0.5–1	ALLH	Dichloropropene[trans-1,3-]	0.0014	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11275	MD21-01-0220	0.5–1	ALLH	Dichloropropene[1,1-]	0.0014	mg/kg	U
21-11275	MD21-01-0220	0.5–1	ALLH	Methylene Chloride	0.00078	mg/kg	U
21-11275	MD21-01-0220	0.5–1	ALLH	Chlorotoluene[4-]	0.0014	mg/kg	UJ
21-11275	MD21-01-0220	0.5–1	ALLH	Bromoform	0.0014	mg/kg	U
21-11275	MD21-01-0220	0.5–1	ALLH	Toluene	0.0052	mg/kg	None
21-11275	MD21-01-0220	0.5–1	ALLH	Trimethylbenzene[1,2,4-]	0.0014	mg/kg	UJ
21-11275	MD21-01-0220	0.5–1	ALLH	Dichlorobenzene[1,4-]	0.0014	mg/kg	UJ
21-11275	MD21-01-0220	0.5–1	ALLH	Chlorobenzene	0.0014	mg/kg	U
21-11275	MD21-01-0220	0.5–1	ALLH	Perchlorate	0.0372	mg/kg	U
21-11275	MD21-01-0220	0.5–1	ALLH	Antimony	0.041	mg/kg	U
21-11275	MD21-01-0220	0.5–1	ALLH	Xylene[1,3-]+Xylene[1,4-]	0.0028	mg/kg	U
21-11275	MD21-01-0220	0.5–1	ALLH	Uranium-235	-0.0463	pCi/g	U
21-11275	MD21-01-0221	2–2.5	Qbt 3	Magnesium	985	mg/kg	J+
21-11275	MD21-01-0221	2–2.5	Qbt 3	Copper	3.45	mg/kg	None
21-11275	MD21-01-0221	2–2.5	Qbt 3	Cadmium	0.04	mg/kg	U
21-11275	MD21-01-0221	2–2.5	Qbt 3	Strontium	8.05	mg/kg	None
21-11275	MD21-01-0221	2–2.5	Qbt 3	Barium	29	mg/kg	J+
21-11275	MD21-01-0221	2–2.5	Qbt 3	Toluene	0.0012	mg/kg	U
21-11275	MD21-01-0221	2–2.5	Qbt 3	Americium-241	0.0171	pCi/g	U
21-11275	MD21-01-0221	2–2.5	Qbt 3	Cesium-137	0.0396	pCi/g	U
21-11275	MD21-01-0221	2–2.5	Qbt 3	Sodium-22	-0.0231	pCi/g	U
21-11275	MD21-01-0221	2–2.5	Qbt 3	Cesium-134	-0.00337	pCi/g	U
21-11275	MD21-01-0221	2–2.5	Qbt 3	Acetone	0.0111	mg/kg	U
21-11275	MD21-01-0221	2–2.5	Qbt 3	Dichloroethane[1,1-]	0.0012	mg/kg	U
21-11275	MD21-01-0221	2–2.5	Qbt 3	Dibromoethane[1,2-]	0.0012	mg/kg	U
21-11275	MD21-01-0221	2–2.5	Qbt 3	Dichlorobenzene[1,4-]	0.0012	mg/kg	U
21-11275	MD21-01-0221	2–2.5	Qbt 3	Tetrachloroethane[1,1,1,2-]	0.0012	mg/kg	U
21-11275	MD21-01-0221	2–2.5	Qbt 3	Dichloropropene[cis-1,3-]	0.0012	mg/kg	U
21-11275	MD21-01-0221	2–2.5	Qbt 3	Butylbenzene[n-]	0.0012	mg/kg	U
21-11275	MD21-01-0221	2–2.5	Qbt 3	Chlorotoluene[2-]	0.0012	mg/kg	U
21-11275	MD21-01-0221	2–2.5	Qbt 3	Aluminum	4680	mg/kg	None
21-11275	MD21-01-0221	2–2.5	Qbt 3	Manganese	219	mg/kg	None
21-11275	MD21-01-0221	2–2.5	Qbt 3	Arsenic	2.6	mg/kg	None
21-11275	MD21-01-0221	2–2.5	Qbt 3	Ruthenium-106	0.216	pCi/g	U
21-11275	MD21-01-0221	2–2.5	Qbt 3	Europium-152	-0.0248	pCi/g	U
21-11275	MD21-01-0221	2–2.5	Qbt 3	Selenium	0.336	mg/kg	U
21-11275	MD21-01-0221	2–2.5	Qbt 3	Antimony	0.0405	mg/kg	U
21-11275	MD21-01-0221	2–2.5	Qbt 3	Beryllium	0.438	mg/kg	None
21-11275	MD21-01-0221	2–2.5	Qbt 3	Iron	6190	mg/kg	None
21-11275	MD21-01-0221	2–2.5	Qbt 3	Chromium	8.73	mg/kg	None
21-11275	MD21-01-0221	2–2.5	Qbt 3	Nickel	3.13	mg/kg	None
21-11275	MD21-01-0221	2–2.5	Qbt 3	Thallium	0.03	mg/kg	J
21-11275	MD21-01-0221	2–2.5	Qbt 3	Potassium	479	mg/kg	J+
21-11275	MD21-01-0221	2–2.5	Qbt 3	Methyl-2-pentanone[4-]	0.0061	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11275	MD21-01-0221	2–2.5	Qbt 3	Dichloropropene[1,1-]	0.0012	mg/kg	U
21-11275	MD21-01-0221	2–2.5	Qbt 3	Chlorodibromomethane	0.0012	mg/kg	U
21-11275	MD21-01-0221	2–2.5	Qbt 3	Dichloropropene[trans-1,3-]	0.0012	mg/kg	U
21-11275	MD21-01-0221	2–2.5	Qbt 3	Chlorobenzene	0.0012	mg/kg	U
21-11275	MD21-01-0221	2–2.5	Qbt 3	Ethylbenzene	0.0012	mg/kg	U
21-11275	MD21-01-0221	2–2.5	Qbt 3	Propylbenzene[1-]	0.0012	mg/kg	U
21-11275	MD21-01-0221	2–2.5	Qbt 3	Dichloroethane[1,2-]	0.0012	mg/kg	U
21-11275	MD21-01-0221	2–2.5	Qbt 3	Tritium	0.063655	pCi/g	None
21-11275	MD21-01-0221	2–2.5	Qbt 3	Uranium-235	-0.0543	pCi/g	U
21-11275	MD21-01-0221	2–2.5	Qbt 3	Mercury	0.014	mg/kg	J-
21-11275	MD21-01-0221	2–2.5	Qbt 3	Lithium	4.65	mg/kg	None
21-11275	MD21-01-0221	2–2.5	Qbt 3	Dibromomethane	0.0012	mg/kg	U
21-11275	MD21-01-0221	2–2.5	Qbt 3	Trichlorofluoromethane	0.0012	mg/kg	UJ
21-11275	MD21-01-0221	2–2.5	Qbt 3	Trimethylbenzene[1,2,4-]	0.0012	mg/kg	U
21-11275	MD21-01-0221	2–2.5	Qbt 3	Carbon Disulfide	0.0061	mg/kg	U
21-11275	MD21-01-0221	2–2.5	Qbt 3	Chloroethane	0.0012	mg/kg	U
21-11275	MD21-01-0221	2–2.5	Qbt 3	Trichloropropane[1,2,3-]	0.0012	mg/kg	U
21-11275	MD21-01-0221	2–2.5	Qbt 3	Dichlorobenzene[1,2-]	0.0012	mg/kg	U
21-11275	MD21-01-0221	2–2.5	Qbt 3	Tetrachloroethane[1,1,2,2-]	0.0012	mg/kg	U
21-11275	MD21-01-0221	2–2.5	Qbt 3	Butylbenzene[tert-]	0.0012	mg/kg	U
21-11275	MD21-01-0221	2–2.5	Qbt 3	Trichloroethene	0.0012	mg/kg	U
21-11275	MD21-01-0221	2–2.5	Qbt 3	Vinyl Chloride	0.0012	mg/kg	U
21-11275	MD21-01-0221	2–2.5	Qbt 3	Dichloropropane[1,3-]	0.0012	mg/kg	U
21-11275	MD21-01-0221	2–2.5	Qbt 3	Tetrachloroethene	0.0012	mg/kg	U
21-11275	MD21-01-0221	2–2.5	Qbt 3	Hexanone[2-]	0.0061	mg/kg	U
21-11275	MD21-01-0221	2–2.5	Qbt 3	Isopropylbenzene	0.0012	mg/kg	U
21-11275	MD21-01-0221	2–2.5	Qbt 3	Dichloropropane[2,2-]	0.0012	mg/kg	U
21-11275	MD21-01-0221	2–2.5	Qbt 3	Methylene Chloride	0.00055	mg/kg	U
21-11275	MD21-01-0221	2–2.5	Qbt 3	Dichloroethene[cis-1,2-]	0.0012	mg/kg	U
21-11275	MD21-01-0221	2–2.5	Qbt 3	Bromobenzene	0.0012	mg/kg	U
21-11275	MD21-01-0221	2–2.5	Qbt 3	Dichloroethene[trans-1,2-]	0.0012	mg/kg	U
21-11275	MD21-01-0221	2–2.5	Qbt 3	Styrene	0.0012	mg/kg	U
21-11275	MD21-01-0221	2–2.5	Qbt 3	Butylbenzene[sec-]	0.0012	mg/kg	U
21-11275	MD21-01-0221	2–2.5	Qbt 3	Chloroform	0.0012	mg/kg	U
21-11275	MD21-01-0221	2–2.5	Qbt 3	Trimethylbenzene[1,3,5-]	0.0012	mg/kg	U
21-11275	MD21-01-0221	2–2.5	Qbt 3	Trichloroethane[1,1,2-]	0.0012	mg/kg	U
21-11275	MD21-01-0221	2–2.5	Qbt 3	Xylene[1,2-]	0.0012	mg/kg	U
21-11275	MD21-01-0221	2–2.5	Qbt 3	Perchlorate	0.0368	mg/kg	U
21-11275	MD21-01-0221	2–2.5	Qbt 3	Xylene[1,3-]+Xylene[1,4-]	0.0024	mg/kg	U
21-11275	MD21-01-0221	2–2.5	Qbt 3	Cobalt-60	-0.0106	pCi/g	U
21-11275	MD21-01-0221	2–2.5	Qbt 3	Zinc	18.2	mg/kg	None
21-11275	MD21-01-0221	2–2.5	Qbt 3	Sodium	115	mg/kg	None
21-11275	MD21-01-0221	2–2.5	Qbt 3	Lead	6.41	mg/kg	None
21-11275	MD21-01-0221	2–2.5	Qbt 3	Cobalt	1.03	mg/kg	None

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11275	MD21-01-0221	2–2.5	Qbt 3	Silver	0.008	mg/kg	J
21-11275	MD21-01-0221	2–2.5	Qbt 3	Vanadium	6.28	mg/kg	None
21-11275	MD21-01-0221	2–2.5	Qbt 3	Calcium	1580	mg/kg	J+
21-11275	MD21-01-0221	2–2.5	Qbt 3	Iodomethane	0.0061	mg/kg	U
21-11275	MD21-01-0221	2–2.5	Qbt 3	Benzene	0.0012	mg/kg	U
21-11275	MD21-01-0221	2–2.5	Qbt 3	Dichlorodifluoromethane	0.0012	mg/kg	U
21-11275	MD21-01-0221	2–2.5	Qbt 3	Chloromethane	0.00068	mg/kg	J
21-11275	MD21-01-0221	2–2.5	Qbt 3	Butanone[2-]	0.0061	mg/kg	U
21-11275	MD21-01-0221	2–2.5	Qbt 3	Dichloroethene[1,1-]	0.0012	mg/kg	U
21-11275	MD21-01-0221	2–2.5	Qbt 3	Dibromo-3-Chloropropane[1,2-]	0.0012	mg/kg	U
21-11275	MD21-01-0221	2–2.5	Qbt 3	Bromomethane	0.0012	mg/kg	U
21-11275	MD21-01-0221	2–2.5	Qbt 3	Bromoform	0.0012	mg/kg	U
21-11275	MD21-01-0221	2–2.5	Qbt 3	Bromochloromethane	0.0012	mg/kg	U
21-11275	MD21-01-0221	2–2.5	Qbt 3	Dichloropropane[1,2-]	0.0012	mg/kg	U
21-11275	MD21-01-0221	2–2.5	Qbt 3	Isopropyltoluene[4-]	0.0012	mg/kg	U
21-11275	MD21-01-0221	2–2.5	Qbt 3	Trichlorotrifluoroethane	0.0061	mg/kg	U
21-11275	MD21-01-0221	2–2.5	Qbt 3	Trichloroethane[1,1,1-]	0.0012	mg/kg	U
21-11275	MD21-01-0221	2–2.5	Qbt 3	Chlorotoluene[4-]	0.0012	mg/kg	U
21-11275	MD21-01-0221	2–2.5	Qbt 3	Bromodichloromethane	0.0012	mg/kg	U
21-11275	MD21-01-0221	2–2.5	Qbt 3	Dichlorobenzene[1,3-]	0.0012	mg/kg	U
21-11275	MD21-01-0221	2–2.5	Qbt 3	Carbon Tetrachloride	0.0012	mg/kg	U
21-11275	MD21-03-50286	0.5–1	Qbt 3	Plutonium-238	0.00537	pCi/g	U
21-11275	MD21-03-50286	0.5–1	Qbt 3	Plutonium-239	-0.00536	pCi/g	U
21-11275	MD21-03-50287	2–2.5	Qbt 3	Plutonium-238	0	pCi/g	U
21-11275	MD21-03-50287	2–2.5	Qbt 3	Plutonium-239	0.00156	pCi/g	U
21-11276	MD21-01-0222	1–1.5	ALLH	Beryllium	0.26	mg/kg	None
21-11276	MD21-01-0222	1–1.5	ALLH	Mercury	0.234	mg/kg	J-
21-11276	MD21-01-0222	1–1.5	ALLH	Thallium	0.018	mg/kg	J
21-11276	MD21-01-0222	1–1.5	ALLH	Iron	7060	mg/kg	None
21-11276	MD21-01-0222	1–1.5	ALLH	Lead	9.77	mg/kg	None
21-11276	MD21-01-0222	1–1.5	ALLH	Lithium	5.54	mg/kg	None
21-11276	MD21-01-0222	1–1.5	ALLH	Magnesium	941	mg/kg	J+
21-11276	MD21-01-0222	1–1.5	ALLH	Aluminum	5390	mg/kg	None
21-11276	MD21-01-0222	1–1.5	ALLH	Vinyl Chloride	0.0013	mg/kg	U
21-11276	MD21-01-0222	1–1.5	ALLH	Silver	0.01	mg/kg	J
21-11276	MD21-01-0222	1–1.5	ALLH	Nickel	2.89	mg/kg	None
21-11276	MD21-01-0222	1–1.5	ALLH	Bromochloromethane	0.0013	mg/kg	U
21-11276	MD21-01-0222	1–1.5	ALLH	Dibromomethane	0.0013	mg/kg	U
21-11276	MD21-01-0222	1–1.5	ALLH	Trimethylbenzene[1,3,5-]	0.0013	mg/kg	U
21-11276	MD21-01-0222	1–1.5	ALLH	Chloromethane	0.00076	mg/kg	J
21-11276	MD21-01-0222	1–1.5	ALLH	Dichloropropene[1,1-]	0.0013	mg/kg	U
21-11276	MD21-01-0222	1–1.5	ALLH	Methylene Chloride	0.00075	mg/kg	U
21-11276	MD21-01-0222	1–1.5	ALLH	Chlorotoluene[2-]	0.0013	mg/kg	U
21-11276	MD21-01-0222	1–1.5	ALLH	Dichloroethene[1,1-]	0.0013	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11276	MD21-01-0222	1–1.5	ALLH	Dichloropropane[1,2-]	0.0013	mg/kg	U
21-11276	MD21-01-0222	1–1.5	ALLH	Tetrachloroethane[1,1,2,2-]	0.0013	mg/kg	U
21-11276	MD21-01-0222	1–1.5	ALLH	Dichlorodifluoromethane	0.0013	mg/kg	U
21-11276	MD21-01-0222	1–1.5	ALLH	Trichloropropane[1,2,3-]	0.0013	mg/kg	U
21-11276	MD21-01-0222	1–1.5	ALLH	Butylbenzene[tert-]	0.0013	mg/kg	U
21-11276	MD21-01-0222	1–1.5	ALLH	Chloroethane	0.0013	mg/kg	U
21-11276	MD21-01-0222	1–1.5	ALLH	Trichloroethane[1,1,2-]	0.0013	mg/kg	U
21-11276	MD21-01-0222	1–1.5	ALLH	Isopropyltoluene[4-]	0.0013	mg/kg	U
21-11276	MD21-01-0222	1–1.5	ALLH	Dichlorobenzene[1,2-]	0.0013	mg/kg	U
21-11276	MD21-01-0222	1–1.5	ALLH	Butanone[2-]	0.0049	mg/kg	J
21-11276	MD21-01-0222	1–1.5	ALLH	Bromodichloromethane	0.0013	mg/kg	U
21-11276	MD21-01-0222	1–1.5	ALLH	Isopropylbenzene	0.0013	mg/kg	U
21-11276	MD21-01-0222	1–1.5	ALLH	Carbon Disulfide	0.0065	mg/kg	U
21-11276	MD21-01-0222	1–1.5	ALLH	Trimethylbenzene[1,2,4-]	0.0013	mg/kg	U
21-11276	MD21-01-0222	1–1.5	ALLH	Trichlorotrifluoroethane	0.0065	mg/kg	U
21-11276	MD21-01-0222	1–1.5	ALLH	Dichlorobenzene[1,4-]	0.0013	mg/kg	U
21-11276	MD21-01-0222	1–1.5	ALLH	Propylbenzene[1-]	0.0013	mg/kg	U
21-11276	MD21-01-0222	1–1.5	ALLH	Bromoform	0.0013	mg/kg	U
21-11276	MD21-01-0222	1–1.5	ALLH	Dichloroethane[1,1-]	0.0013	mg/kg	U
21-11276	MD21-01-0222	1–1.5	ALLH	Xylene[1,2-]	0.0013	mg/kg	U
21-11276	MD21-01-0222	1–1.5	ALLH	Dibromo-3-Chloropropane[1,2-]	0.0013	mg/kg	U
21-11276	MD21-01-0222	1–1.5	ALLH	Trichlorofluoromethane	0.0011	mg/kg	J
21-11276	MD21-01-0222	1–1.5	ALLH	Trichloroethene	0.0013	mg/kg	U
21-11276	MD21-01-0222	1–1.5	ALLH	Ethylbenzene	0.0013	mg/kg	U
21-11276	MD21-01-0222	1–1.5	ALLH	Xylene[1,3-]+Xylene[1,4-]	0.0026	mg/kg	U
21-11276	MD21-01-0222	1–1.5	ALLH	Sodium-22	0.0105	pCi/g	U
21-11276	MD21-01-0222	1–1.5	ALLH	Cesium-134	-0.0536	pCi/g	U
21-11276	MD21-01-0222	1–1.5	ALLH	Americium-241	0.0407	pCi/g	U
21-11276	MD21-01-0222	1–1.5	ALLH	Dichloropropene[trans-1,3-]	0.0013	mg/kg	U
21-11276	MD21-01-0222	1–1.5	ALLH	Dichloropropene[cis-1,3-]	0.0013	mg/kg	U
21-11276	MD21-01-0222	1–1.5	ALLH	Butylbenzene[n-]	0.0013	mg/kg	U
21-11276	MD21-01-0222	1–1.5	ALLH	Bromobenzene	0.0013	mg/kg	U
21-11276	MD21-01-0222	1–1.5	ALLH	Chlorodibromomethane	0.0013	mg/kg	U
21-11276	MD21-01-0222	1–1.5	ALLH	Dichloroethene[trans-1,2-]	0.0013	mg/kg	U
21-11276	MD21-01-0222	1–1.5	ALLH	Carbon Tetrachloride	0.0013	mg/kg	U
21-11276	MD21-01-0222	1–1.5	ALLH	Dibromoethane[1,2-]	0.0013	mg/kg	U
21-11276	MD21-01-0222	1–1.5	ALLH	Butylbenzene[sec-]	0.0013	mg/kg	U
21-11276	MD21-01-0222	1–1.5	ALLH	Toluene	0.0015	mg/kg	None
21-11276	MD21-01-0222	1–1.5	ALLH	Tetrachloroethene	0.0013	mg/kg	U
21-11276	MD21-01-0222	1–1.5	ALLH	Dichloropropane[1,3-]	0.0013	mg/kg	U
21-11276	MD21-01-0222	1–1.5	ALLH	Chlorobenzene	0.0013	mg/kg	U
21-11276	MD21-01-0222	1–1.5	ALLH	Acetone	0.0557	mg/kg	U
21-11276	MD21-01-0222	1–1.5	ALLH	Dichlorobenzene[1,3-]	0.0013	mg/kg	U
21-11276	MD21-01-0222	1–1.5	ALLH	Tetrachloroethane[1,1,1,2-]	0.0013	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11276	MD21-01-0222	1–1.5	ALLH	Trichloroethane[1,1,1-]	0.0013	mg/kg	U
21-11276	MD21-01-0222	1–1.5	ALLH	Antimony	0.0345	mg/kg	U
21-11276	MD21-01-0222	1–1.5	ALLH	Dichloropropane[2,2-]	0.0013	mg/kg	U
21-11276	MD21-01-0222	1–1.5	ALLH	Benzene	0.00073	mg/kg	U
21-11276	MD21-01-0222	1–1.5	ALLH	Chloroform	0.0013	mg/kg	U
21-11276	MD21-01-0222	1–1.5	ALLH	Styrene	0.0013	mg/kg	U
21-11276	MD21-01-0222	1–1.5	ALLH	Uranium-235	0.0843	pCi/g	U
21-11276	MD21-01-0222	1–1.5	ALLH	Tritium	0.061288	pCi/g	None
21-11276	MD21-01-0222	1–1.5	ALLH	Chlorotoluene[4-]	0.0013	mg/kg	U
21-11276	MD21-01-0222	1–1.5	ALLH	Hexanone[2-]	0.0065	mg/kg	U
21-11276	MD21-01-0222	1–1.5	ALLH	Dichloroethane[1,2-]	0.0013	mg/kg	U
21-11276	MD21-01-0222	1–1.5	ALLH	Bromomethane	0.0013	mg/kg	U
21-11276	MD21-01-0222	1–1.5	ALLH	Methyl-2-pentanone[4-]	0.0065	mg/kg	U
21-11276	MD21-01-0222	1–1.5	ALLH	Iodomethane	0.0065	mg/kg	U
21-11276	MD21-01-0222	1–1.5	ALLH	Dichloroethene[cis-1,2-]	0.0013	mg/kg	U
21-11276	MD21-01-0222	1–1.5	ALLH	Barium	53	mg/kg	J+
21-11276	MD21-01-0222	1–1.5	ALLH	Copper	3.89	mg/kg	None
21-11276	MD21-01-0222	1–1.5	ALLH	Cobalt	1.63	mg/kg	None
21-11276	MD21-01-0222	1–1.5	ALLH	Chromium	5.03	mg/kg	None
21-11276	MD21-01-0222	1–1.5	ALLH	Vanadium	8.55	mg/kg	None
21-11276	MD21-01-0222	1–1.5	ALLH	Potassium	671	mg/kg	J+
21-11276	MD21-01-0222	1–1.5	ALLH	Manganese	246	mg/kg	None
21-11276	MD21-01-0222	1–1.5	ALLH	Selenium	0.342	mg/kg	U
21-11276	MD21-01-0222	1–1.5	ALLH	Arsenic	2.77	mg/kg	None
21-11276	MD21-01-0222	1–1.5	ALLH	Calcium	1410	mg/kg	J+
21-11276	MD21-01-0222	1–1.5	ALLH	Strontium	12.4	mg/kg	None
21-11276	MD21-01-0222	1–1.5	ALLH	Sodium	90	mg/kg	None
21-11276	MD21-01-0222	1–1.5	ALLH	Cadmium	0.043	mg/kg	J
21-11276	MD21-01-0222	1–1.5	ALLH	Zinc	43.9	mg/kg	None
21-11276	MD21-01-0222	1–1.5	ALLH	Cobalt-60	0.0141	pCi/g	U
21-11276	MD21-01-0222	1–1.5	ALLH	Perchlorate	0.0367	mg/kg	U
21-11276	MD21-01-0222	1–1.5	ALLH	Cesium-137	0.034	pCi/g	U
21-11276	MD21-01-0222	1–1.5	ALLH	Ruthenium-106	0.155	pCi/g	U
21-11276	MD21-01-0222	1–1.5	ALLH	Europium-152	-0.0801	pCi/g	U
21-11276	MD21-01-0223	1–1.5	ALLH	Isopropyltoluene[4-]	0.0012	mg/kg	UJ
21-11276	MD21-01-0223	1–1.5	ALLH	Carbon Disulfide	0.0062	mg/kg	U
21-11276	MD21-01-0223	1–1.5	ALLH	Dichlorodifluoromethane	0.0012	mg/kg	U
21-11276	MD21-01-0223	1–1.5	ALLH	Isopropylbenzene	0.0012	mg/kg	UJ
21-11276	MD21-01-0223	1–1.5	ALLH	Xylene[1,2-]	0.0012	mg/kg	U
21-11276	MD21-01-0223	1–1.5	ALLH	Dibromo-3-Chloropropane[1,2-]	0.0012	mg/kg	UJ
21-11276	MD21-01-0223	1–1.5	ALLH	Trichloroethane[1,1,2-]	0.0012	mg/kg	U
21-11276	MD21-01-0223	1–1.5	ALLH	Butylbenzene[tert-]	0.0012	mg/kg	UJ
21-11276	MD21-01-0223	1–1.5	ALLH	Butanone[2-]	0.0046	mg/kg	J
21-11276	MD21-01-0223	1–1.5	ALLH	Trichloroethene	0.0012	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11276	MD21-01-0223	1–1.5	ALLH	Dichlorobenzene[1,2-]	0.0012	mg/kg	UJ
21-11276	MD21-01-0223	1–1.5	ALLH	Bromodichloromethane	0.0012	mg/kg	U
21-11276	MD21-01-0223	1–1.5	ALLH	Butylbenzene[n-]	0.0012	mg/kg	UJ
21-11276	MD21-01-0223	1–1.5	ALLH	Calcium	1180	mg/kg	J+
21-11276	MD21-01-0223	1–1.5	ALLH	Dichloropropene[cis-1,3-]	0.0012	mg/kg	U
21-11276	MD21-01-0223	1–1.5	ALLH	Selenium	0.33	mg/kg	U
21-11276	MD21-01-0223	1–1.5	ALLH	Vanadium	7.05	mg/kg	None
21-11276	MD21-01-0223	1–1.5	ALLH	Copper	3.64	mg/kg	None
21-11276	MD21-01-0223	1–1.5	ALLH	Zinc	43.5	mg/kg	None
21-11276	MD21-01-0223	1–1.5	ALLH	Silver	0.008	mg/kg	J
21-11276	MD21-01-0223	1–1.5	ALLH	Nickel	3.18	mg/kg	None
21-11276	MD21-01-0223	1–1.5	ALLH	Thallium	0.03	mg/kg	J
21-11276	MD21-01-0223	1–1.5	ALLH	Cobalt	1.38	mg/kg	None
21-11276	MD21-01-0223	1–1.5	ALLH	Strontium	10.2	mg/kg	None
21-11276	MD21-01-0223	1–1.5	ALLH	Trimethylbenzene[1,2,4-]	0.0012	mg/kg	UJ
21-11276	MD21-01-0223	1–1.5	ALLH	Trichlorofluoromethane	0.0026	mg/kg	J
21-11276	MD21-01-0223	1–1.5	ALLH	Chlorotoluene[2-]	0.0012	mg/kg	UJ
21-11276	MD21-01-0223	1–1.5	ALLH	Dichloropropene[trans-1,3-]	0.0012	mg/kg	U
21-11276	MD21-01-0223	1–1.5	ALLH	Propylbenzene[1-]	0.0012	mg/kg	UJ
21-11276	MD21-01-0223	1–1.5	ALLH	Ethylbenzene	0.0012	mg/kg	U
21-11276	MD21-01-0223	1–1.5	ALLH	Styrene	0.0012	mg/kg	U
21-11276	MD21-01-0223	1–1.5	ALLH	Dichloropropane[1,2-]	0.0012	mg/kg	U
21-11276	MD21-01-0223	1–1.5	ALLH	Dichloroethene[1,1-]	0.0012	mg/kg	U
21-11276	MD21-01-0223	1–1.5	ALLH	Bromoform	0.0012	mg/kg	U
21-11276	MD21-01-0223	1–1.5	ALLH	Lithium	5.16	mg/kg	None
21-11276	MD21-01-0223	1–1.5	ALLH	Lead	8.67	mg/kg	None
21-11276	MD21-01-0223	1–1.5	ALLH	Beryllium	0.308	mg/kg	None
21-11276	MD21-01-0223	1–1.5	ALLH	Magnesium	761	mg/kg	J+
21-11276	MD21-01-0223	1–1.5	ALLH	Manganese	239	mg/kg	None
21-11276	MD21-01-0223	1–1.5	ALLH	Barium	44.5	mg/kg	J+
21-11276	MD21-01-0223	1–1.5	ALLH	Cadmium	0.04	mg/kg	J
21-11276	MD21-01-0223	1–1.5	ALLH	Sodium	85	mg/kg	None
21-11276	MD21-01-0223	1–1.5	ALLH	Arsenic	2.79	mg/kg	None
21-11276	MD21-01-0223	1–1.5	ALLH	Mercury	0.236	mg/kg	J-
21-11276	MD21-01-0223	1–1.5	ALLH	Potassium	553	mg/kg	J+
21-11276	MD21-01-0223	1–1.5	ALLH	Aluminum	4390	mg/kg	None
21-11276	MD21-01-0223	1–1.5	ALLH	Toluene	0.0013	mg/kg	None
21-11276	MD21-01-0223	1–1.5	ALLH	Carbon Tetrachloride	0.0012	mg/kg	U
21-11276	MD21-01-0223	1–1.5	ALLH	Tetrachloroethane[1,1,1,2-]	0.0012	mg/kg	U
21-11276	MD21-01-0223	1–1.5	ALLH	Chlorobenzene	0.0012	mg/kg	U
21-11276	MD21-01-0223	1–1.5	ALLH	Dichlorobenzene[1,3-]	0.0012	mg/kg	UJ
21-11276	MD21-01-0223	1–1.5	ALLH	Chloroethane	0.0012	mg/kg	U
21-11276	MD21-01-0223	1–1.5	ALLH	Dichloroethane[1,2-]	0.0012	mg/kg	U
21-11276	MD21-01-0223	1–1.5	ALLH	Iodomethane	0.0062	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11276	MD21-01-0223	1–1.5	ALLH	Dibromomethane	0.0012	mg/kg	U
21-11276	MD21-01-0223	1–1.5	ALLH	Tetrachloroethene	0.0012	mg/kg	U
21-11276	MD21-01-0223	1–1.5	ALLH	Benzene	0.00071	mg/kg	U
21-11276	MD21-01-0223	1–1.5	ALLH	Trimethylbenzene[1,3,5-]	0.0012	mg/kg	UJ
21-11276	MD21-01-0223	1–1.5	ALLH	Dichloropropane[2,2-]	0.0012	mg/kg	U
21-11276	MD21-01-0223	1–1.5	ALLH	Butylbenzene[sec-]	0.0012	mg/kg	UJ
21-11276	MD21-01-0223	1–1.5	ALLH	Methyl-2-pentanone[4-]	0.0062	mg/kg	U
21-11276	MD21-01-0223	1–1.5	ALLH	Dichloropropane[1,3-]	0.0012	mg/kg	U
21-11276	MD21-01-0223	1–1.5	ALLH	Vinyl Chloride	0.0012	mg/kg	U
21-11276	MD21-01-0223	1–1.5	ALLH	Chlorodibromomethane	0.0012	mg/kg	U
21-11276	MD21-01-0223	1–1.5	ALLH	Bromomethane	0.0012	mg/kg	U
21-11276	MD21-01-0223	1–1.5	ALLH	Dichlorobenzene[1,4-]	0.0012	mg/kg	UJ
21-11276	MD21-01-0223	1–1.5	ALLH	Trichloroethane[1,1,1-]	0.0012	mg/kg	U
21-11276	MD21-01-0223	1–1.5	ALLH	Dichloroethene[cis-1,2-]	0.0012	mg/kg	U
21-11276	MD21-01-0223	1–1.5	ALLH	Acetone	0.0575	mg/kg	U
21-11276	MD21-01-0223	1–1.5	ALLH	Trichloropropane[1,2,3-]	0.0012	mg/kg	UJ
21-11276	MD21-01-0223	1–1.5	ALLH	Dichloroethane[1,1-]	0.0012	mg/kg	U
21-11276	MD21-01-0223	1–1.5	ALLH	Chloromethane	0.00066	mg/kg	J
21-11276	MD21-01-0223	1–1.5	ALLH	Dichloroethene[trans-1,2-]	0.0012	mg/kg	U
21-11276	MD21-01-0223	1–1.5	ALLH	Bromochloromethane	0.0012	mg/kg	U
21-11276	MD21-01-0223	1–1.5	ALLH	Methylene Chloride	0.00083	mg/kg	U
21-11276	MD21-01-0223	1–1.5	ALLH	Dibromoethane[1,2-]	0.0012	mg/kg	U
21-11276	MD21-01-0223	1–1.5	ALLH	Bromobenzene	0.0012	mg/kg	UJ
21-11276	MD21-01-0223	1–1.5	ALLH	Chlorotoluene[4-]	0.0012	mg/kg	UJ
21-11276	MD21-01-0223	1–1.5	ALLH	Dichloropropene[1,1-]	0.0012	mg/kg	U
21-11276	MD21-01-0223	1–1.5	ALLH	Perchlorate	0.0366	mg/kg	U
21-11276	MD21-01-0223	1–1.5	ALLH	Xylene[1,3-]+Xylene[1,4-]	0.0025	mg/kg	U
21-11276	MD21-01-0223	1–1.5	ALLH	Sodium-22	-0.00099	pCi/g	U
21-11276	MD21-01-0223	1–1.5	ALLH	Cesium-134	-0.00251	pCi/g	U
21-11276	MD21-01-0223	1–1.5	ALLH	Cobalt-60	0.0133	pCi/g	U
21-11276	MD21-01-0223	1–1.5	ALLH	Americium-241	0.0159	pCi/g	U
21-11276	MD21-01-0223	1–1.5	ALLH	Uranium-235	0.0837	pCi/g	U
21-11276	MD21-01-0223	1–1.5	ALLH	Tritium	0.024282	pCi/g	U
21-11276	MD21-01-0223	1–1.5	ALLH	Europium-152	-0.0842	pCi/g	U
21-11276	MD21-01-0223	1–1.5	ALLH	Ruthenium-106	-0.189	pCi/g	U
21-11276	MD21-01-0223	1–1.5	ALLH	Cesium-137	0.0811	pCi/g	None
21-11276	MD21-01-0223	1–1.5	ALLH	Antimony	0.0342	mg/kg	U
21-11276	MD21-01-0223	1–1.5	ALLH	Trichlorotrifluoroethane	0.0062	mg/kg	U
21-11276	MD21-01-0223	1–1.5	ALLH	Tetrachloroethane[1,1,2,2-]	0.0012	mg/kg	UJ
21-11276	MD21-01-0223	1–1.5	ALLH	Iron	6220	mg/kg	None
21-11276	MD21-01-0223	1–1.5	ALLH	Chromium	4.04	mg/kg	None
21-11276	MD21-01-0223	1–1.5	ALLH	Chloroform	0.0012	mg/kg	U
21-11276	MD21-01-0223	1–1.5	ALLH	Hexanone[2-]	0.0062	mg/kg	U
21-11276	MD21-01-0227	2–2.5	Qbt 3	Zinc	21.7	mg/kg	None

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11276	MD21-01-0227	2–2.5	Qbt 3	Calcium	236	mg/kg	J+
21-11276	MD21-01-0227	2–2.5	Qbt 3	Selenium	0.322	mg/kg	U
21-11276	MD21-01-0227	2–2.5	Qbt 3	Cobalt	0.37	mg/kg	J
21-11276	MD21-01-0227	2–2.5	Qbt 3	Vanadium	1.32	mg/kg	None
21-11276	MD21-01-0227	2–2.5	Qbt 3	Nickel	2.08	mg/kg	None
21-11276	MD21-01-0227	2–2.5	Qbt 3	Thallium	0.026	mg/kg	J
21-11276	MD21-01-0227	2–2.5	Qbt 3	Strontium	1.25	mg/kg	None
21-11276	MD21-01-0227	2–2.5	Qbt 3	Lead	2.53	mg/kg	None
21-11276	MD21-01-0227	2–2.5	Qbt 3	Cadmium	0.038	mg/kg	U
21-11276	MD21-01-0227	2–2.5	Qbt 3	Arsenic	1.35	mg/kg	None
21-11276	MD21-01-0227	2–2.5	Qbt 3	Lithium	2.93	mg/kg	None
21-11276	MD21-01-0227	2–2.5	Qbt 3	Chromium	3.15	mg/kg	None
21-11276	MD21-01-0227	2–2.5	Qbt 3	Aluminum	576	mg/kg	None
21-11276	MD21-01-0227	2–2.5	Qbt 3	Beryllium	0.187	mg/kg	None
21-11276	MD21-01-0227	2–2.5	Qbt 3	Copper	1.6	mg/kg	None
21-11276	MD21-01-0227	2–2.5	Qbt 3	Barium	12.4	mg/kg	J+
21-11276	MD21-01-0227	2–2.5	Qbt 3	Silver	0.02	mg/kg	J
21-11276	MD21-01-0227	2–2.5	Qbt 3	Iron	3640	mg/kg	None
21-11276	MD21-01-0227	2–2.5	Qbt 3	Potassium	159	mg/kg	J+
21-11276	MD21-01-0227	2–2.5	Qbt 3	Magnesium	157	mg/kg	J+
21-11276	MD21-01-0227	2–2.5	Qbt 3	Mercury	0.007	mg/kg	J-
21-11276	MD21-01-0227	2–2.5	Qbt 3	Sodium	91.8	mg/kg	None
21-11276	MD21-01-0227	2–2.5	Qbt 3	Manganese	206	mg/kg	None
21-11276	MD21-01-0227	2–2.5	Qbt 3	Trimethylbenzene[1,3,5-]	0.0012	mg/kg	U
21-11276	MD21-01-0227	2–2.5	Qbt 3	Butylbenzene[n-]	0.0012	mg/kg	U
21-11276	MD21-01-0227	2–2.5	Qbt 3	Ethylbenzene	0.0012	mg/kg	U
21-11276	MD21-01-0227	2–2.5	Qbt 3	Dibromo-3-Chloropropane[1,2-]	0.0012	mg/kg	U
21-11276	MD21-01-0227	2–2.5	Qbt 3	Isopropyltoluene[4-]	0.0012	mg/kg	U
21-11276	MD21-01-0227	2–2.5	Qbt 3	Dichloroethane[1,2-]	0.0012	mg/kg	U
21-11276	MD21-01-0227	2–2.5	Qbt 3	Chloroform	0.0012	mg/kg	U
21-11276	MD21-01-0227	2–2.5	Qbt 3	Bromobenzene	0.0012	mg/kg	U
21-11276	MD21-01-0227	2–2.5	Qbt 3	Tetrachloroethane[1,1,2,2-]	0.0012	mg/kg	U
21-11276	MD21-01-0227	2–2.5	Qbt 3	Dibromoethane[1,2-]	0.0012	mg/kg	U
21-11276	MD21-01-0227	2–2.5	Qbt 3	Dichlorobenzene[1,4-]	0.0012	mg/kg	U
21-11276	MD21-01-0227	2–2.5	Qbt 3	Dichlorobenzene[1,2-]	0.0012	mg/kg	U
21-11276	MD21-01-0227	2–2.5	Qbt 3	Styrene	0.0012	mg/kg	U
21-11276	MD21-01-0227	2–2.5	Qbt 3	Butylbenzene[tert-]	0.0012	mg/kg	U
21-11276	MD21-01-0227	2–2.5	Qbt 3	Bromoform	0.0012	mg/kg	U
21-11276	MD21-01-0227	2–2.5	Qbt 3	Dichloropropene[trans-1,3-]	0.0012	mg/kg	U
21-11276	MD21-01-0227	2–2.5	Qbt 3	Dichloropropene[cis-1,3-]	0.0012	mg/kg	U
21-11276	MD21-01-0227	2–2.5	Qbt 3	Chloromethane	0.00054	mg/kg	J
21-11276	MD21-01-0227	2–2.5	Qbt 3	Chloroethane	0.0012	mg/kg	U
21-11276	MD21-01-0227	2–2.5	Qbt 3	Dibromomethane	0.0012	mg/kg	U
21-11276	MD21-01-0227	2–2.5	Qbt 3	Methyl-2-pentanone[4-]	0.0059	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11276	MD21-01-0227	2–2.5	Qbt 3	Hexanone[2-]	0.0059	mg/kg	U
21-11276	MD21-01-0227	2–2.5	Qbt 3	Dichloroethene[trans-1,2-]	0.0012	mg/kg	U
21-11276	MD21-01-0227	2–2.5	Qbt 3	Trichloroethane[1,1,1-]	0.0012	mg/kg	U
21-11276	MD21-01-0227	2–2.5	Qbt 3	Carbon Disulfide	0.0059	mg/kg	U
21-11276	MD21-01-0227	2–2.5	Qbt 3	Dichloroethane[1,1-]	0.0012	mg/kg	U
21-11276	MD21-01-0227	2–2.5	Qbt 3	Carbon Tetrachloride	0.0012	mg/kg	U
21-11276	MD21-01-0227	2–2.5	Qbt 3	Dichloropropane[1,3-]	0.0012	mg/kg	U
21-11276	MD21-01-0227	2–2.5	Qbt 3	Toluene	0.0012	mg/kg	U
21-11276	MD21-01-0227	2–2.5	Qbt 3	Chlorodibromomethane	0.0012	mg/kg	U
21-11276	MD21-01-0227	2–2.5	Qbt 3	Dichlorobenzene[1,3-]	0.0012	mg/kg	U
21-11276	MD21-01-0227	2–2.5	Qbt 3	Isopropylbenzene	0.0012	mg/kg	U
21-11276	MD21-01-0227	2–2.5	Qbt 3	Trichloroethane[1,1,2-]	0.0012	mg/kg	U
21-11276	MD21-01-0227	2–2.5	Qbt 3	Trichloropropane[1,2,3-]	0.0012	mg/kg	U
21-11276	MD21-01-0227	2–2.5	Qbt 3	Trimethylbenzene[1,2,4-]	0.0012	mg/kg	U
21-11276	MD21-01-0227	2–2.5	Qbt 3	Xylene[1,2-]	0.0012	mg/kg	U
21-11276	MD21-01-0227	2–2.5	Qbt 3	Acetone	0.0139	mg/kg	U
21-11276	MD21-01-0227	2–2.5	Qbt 3	Butylbenzene[sec-]	0.0012	mg/kg	U
21-11276	MD21-01-0227	2–2.5	Qbt 3	Dichlorodifluoromethane	0.0012	mg/kg	U
21-11276	MD21-01-0227	2–2.5	Qbt 3	Bromodichloromethane	0.0012	mg/kg	U
21-11276	MD21-01-0227	2–2.5	Qbt 3	Propylbenzene[1-]	0.0012	mg/kg	U
21-11276	MD21-01-0227	2–2.5	Qbt 3	Dichloroethene[cis-1,2-]	0.0012	mg/kg	U
21-11276	MD21-01-0227	2–2.5	Qbt 3	Dichloropropene[1,1-]	0.0012	mg/kg	U
21-11276	MD21-01-0227	2–2.5	Qbt 3	Perchlorate	0.0146	mg/kg	U
21-11276	MD21-01-0227	2–2.5	Qbt 3	Antimony	0.0479	mg/kg	J-
21-11276	MD21-01-0227	2–2.5	Qbt 3	Xylene[1,3-]+Xylene[1,4-]	0.0024	mg/kg	U
21-11276	MD21-01-0227	2–2.5	Qbt 3	Cesium-137	-0.0147	pCi/g	U
21-11276	MD21-01-0227	2–2.5	Qbt 3	Americium-241	0.0214	pCi/g	U
21-11276	MD21-01-0227	2–2.5	Qbt 3	Ruthenium-106	0.051	pCi/g	U
21-11276	MD21-01-0227	2–2.5	Qbt 3	Cobalt-60	0.0108	pCi/g	U
21-11276	MD21-01-0227	2–2.5	Qbt 3	Cesium-134	0.00375	pCi/g	U
21-11276	MD21-01-0227	2–2.5	Qbt 3	Sodium-22	-0.0004	pCi/g	U
21-11276	MD21-01-0227	2–2.5	Qbt 3	Methylene Chloride	0.0008	mg/kg	U
21-11276	MD21-01-0227	2–2.5	Qbt 3	Chlorotoluene[4-]	0.0012	mg/kg	U
21-11276	MD21-01-0227	2–2.5	Qbt 3	Tetrachloroethene	0.0012	mg/kg	U
21-11276	MD21-01-0227	2–2.5	Qbt 3	Dichloropropane[1,2-]	0.0012	mg/kg	U
21-11276	MD21-01-0227	2–2.5	Qbt 3	Bromochloromethane	0.0012	mg/kg	U
21-11276	MD21-01-0227	2–2.5	Qbt 3	Trichlorotrifluoroethane	0.0059	mg/kg	U
21-11276	MD21-01-0227	2–2.5	Qbt 3	Trichloroethene	0.0012	mg/kg	U
21-11276	MD21-01-0227	2–2.5	Qbt 3	Bromomethane	0.0012	mg/kg	U
21-11276	MD21-01-0227	2–2.5	Qbt 3	Chlorobenzene	0.0012	mg/kg	U
21-11276	MD21-01-0227	2–2.5	Qbt 3	Vinyl Chloride	0.0012	mg/kg	U
21-11276	MD21-01-0227	2–2.5	Qbt 3	Benzene	0.0012	mg/kg	U
21-11276	MD21-01-0227	2–2.5	Qbt 3	Tetrachloroethane[1,1,1,2-]	0.0012	mg/kg	U
21-11276	MD21-01-0227	2–2.5	Qbt 3	Dichloroethene[1,1-]	0.0012	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11276	MD21-01-0227	2–2.5	Qbt 3	Dichloropropane[2,2-]	0.0012	mg/kg	U
21-11276	MD21-01-0227	2–2.5	Qbt 3	Chlorotoluene[2-]	0.0012	mg/kg	U
21-11276	MD21-01-0227	2–2.5	Qbt 3	Iodomethane	0.0059	mg/kg	U
21-11276	MD21-01-0227	2–2.5	Qbt 3	Butanone[2-]	0.002	mg/kg	J
21-11276	MD21-01-0227	2–2.5	Qbt 3	Europium-152	-0.0271	pCi/g	U
21-11276	MD21-01-0227	2–2.5	Qbt 3	Tritium	0.016457	pCi/g	U
21-11276	MD21-01-0227	2–2.5	Qbt 3	Trichlorofluoromethane	0.0012	mg/kg	UJ
21-11276	MD21-01-0227	2–2.5	Qbt 3	Uranium-235	0.184	pCi/g	U
21-11276	MD21-03-50283	1–1.5	Qbt 3	Plutonium-238	-0.00142	pCi/g	U
21-11276	MD21-03-50283	1–1.5	Qbt 3	Plutonium-239	0.0738	pCi/g	None
21-11276	MD21-03-50284	2.5–3	Qbt 3	Plutonium-238	-0.00133	pCi/g	U
21-11276	MD21-03-50284	2.5–3	Qbt 3	Plutonium-239	0.00267	pCi/g	U
21-11277	MD21-01-0224	1.5–2	ALLH	Xylene[1,3-]+Xylene[1,4-]	0.0026	mg/kg	U
21-11277	MD21-01-0224	1.5–2	ALLH	Cesium-137	0.00964	pCi/g	U
21-11277	MD21-01-0224	1.5–2	ALLH	Cobalt-60	0.0579	pCi/g	U
21-11277	MD21-01-0224	1.5–2	ALLH	Sodium-22	-0.00723	pCi/g	U
21-11277	MD21-01-0224	1.5–2	ALLH	Ruthenium-106	-0.149	pCi/g	U
21-11277	MD21-01-0224	1.5–2	ALLH	Europium-152	-0.0158	pCi/g	U
21-11277	MD21-01-0224	1.5–2	ALLH	Tritium	0.097789	pCi/g	None
21-11277	MD21-01-0224	1.5–2	ALLH	Americium-241	0.0872	pCi/g	U
21-11277	MD21-01-0224	1.5–2	ALLH	Cesium-134	0.0201	pCi/g	U
21-11277	MD21-01-0224	1.5–2	ALLH	Uranium-235	-0.0426	pCi/g	U
21-11277	MD21-01-0224	1.5–2	ALLH	Antimony	0.0432	mg/kg	U
21-11277	MD21-01-0224	1.5–2	ALLH	Selenium	0.364	mg/kg	U
21-11277	MD21-01-0224	1.5–2	ALLH	Beryllium	0.233	mg/kg	None
21-11277	MD21-01-0224	1.5–2	ALLH	Dichlorobenzene[1,3-]	0.0013	mg/kg	U
21-11277	MD21-01-0224	1.5–2	ALLH	Bromoform	0.0013	mg/kg	U
21-11277	MD21-01-0224	1.5–2	ALLH	Ethylbenzene	0.0013	mg/kg	U
21-11277	MD21-01-0224	1.5–2	ALLH	Chloromethane	0.0007	mg/kg	J
21-11277	MD21-01-0224	1.5–2	ALLH	Tetrachloroethene	0.0013	mg/kg	U
21-11277	MD21-01-0224	1.5–2	ALLH	Toluene	0.0013	mg/kg	U
21-11277	MD21-01-0224	1.5–2	ALLH	Trichloroethane[1,1,1-]	0.0013	mg/kg	U
21-11277	MD21-01-0224	1.5–2	ALLH	Dichlorobenzene[1,4-]	0.0013	mg/kg	U
21-11277	MD21-01-0224	1.5–2	ALLH	Acetone	0.0185	mg/kg	U
21-11277	MD21-01-0224	1.5–2	ALLH	Hexanone[2-]	0.0064	mg/kg	U
21-11277	MD21-01-0224	1.5–2	ALLH	Vinyl Chloride	0.0013	mg/kg	U
21-11277	MD21-01-0224	1.5–2	ALLH	Dichloroethene[trans-1,2-]	0.0013	mg/kg	U
21-11277	MD21-01-0224	1.5–2	ALLH	Dichloropropene[1,1-]	0.0013	mg/kg	U
21-11277	MD21-01-0224	1.5–2	ALLH	Bromobenzene	0.0013	mg/kg	U
21-11277	MD21-01-0224	1.5–2	ALLH	Butylbenzene[sec-]	0.0013	mg/kg	U
21-11277	MD21-01-0224	1.5–2	ALLH	Dichloropropane[2,2-]	0.0013	mg/kg	U
21-11277	MD21-01-0224	1.5–2	ALLH	Tetrachloroethane[1,1,1,2-]	0.0013	mg/kg	U
21-11277	MD21-01-0224	1.5–2	ALLH	Bromochloromethane	0.0013	mg/kg	U
21-11277	MD21-01-0224	1.5–2	ALLH	Dichloroethane[1,1-]	0.0013	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11277	MD21-01-0224	1.5–2	ALLH	Dichloroethene[1,1-]	0.0013	mg/kg	U
21-11277	MD21-01-0224	1.5–2	ALLH	Trimethylbenzene[1,3,5-]	0.0013	mg/kg	U
21-11277	MD21-01-0224	1.5–2	ALLH	Styrene	0.0013	mg/kg	U
21-11277	MD21-01-0224	1.5–2	ALLH	Chloroform	0.0013	mg/kg	U
21-11277	MD21-01-0224	1.5–2	ALLH	Methylene Chloride	0.00068	mg/kg	U
21-11277	MD21-01-0224	1.5–2	ALLH	Chloroethane	0.0013	mg/kg	U
21-11277	MD21-01-0224	1.5–2	ALLH	Dichloropropene[cis-1,3-]	0.0013	mg/kg	U
21-11277	MD21-01-0224	1.5–2	ALLH	Iodomethane	0.0064	mg/kg	U
21-11277	MD21-01-0224	1.5–2	ALLH	Dibromomethane	0.0013	mg/kg	U
21-11277	MD21-01-0224	1.5–2	ALLH	Methyl-2-pentanone[4-]	0.0064	mg/kg	U
21-11277	MD21-01-0224	1.5–2	ALLH	Chlorotoluene[4-]	0.0013	mg/kg	U
21-11277	MD21-01-0224	1.5–2	ALLH	Propylbenzene[1-]	0.0013	mg/kg	U
21-11277	MD21-01-0224	1.5–2	ALLH	Dichloroethene[cis-1,2-]	0.0013	mg/kg	U
21-11277	MD21-01-0224	1.5–2	ALLH	Dichloropropane[1,3-]	0.0013	mg/kg	U
21-11277	MD21-01-0224	1.5–2	ALLH	Carbon Disulfide	0.0064	mg/kg	U
21-11277	MD21-01-0224	1.5–2	ALLH	Dichloroethane[1,2-]	0.0013	mg/kg	U
21-11277	MD21-01-0224	1.5–2	ALLH	Benzene	0.0005	mg/kg	U
21-11277	MD21-01-0224	1.5–2	ALLH	Bromodichloromethane	0.0013	mg/kg	U
21-11277	MD21-01-0224	1.5–2	ALLH	Chlorodibromomethane	0.0013	mg/kg	U
21-11277	MD21-01-0224	1.5–2	ALLH	Bromomethane	0.0013	mg/kg	U
21-11277	MD21-01-0224	1.5–2	ALLH	Chlorobenzene	0.0013	mg/kg	U
21-11277	MD21-01-0224	1.5–2	ALLH	Butylbenzene[n-]	0.0013	mg/kg	U
21-11277	MD21-01-0224	1.5–2	ALLH	Dibromoethane[1,2-]	0.0013	mg/kg	U
21-11277	MD21-01-0224	1.5–2	ALLH	Carbon Tetrachloride	0.0013	mg/kg	U
21-11277	MD21-01-0224	1.5–2	ALLH	Dichloropropene[trans-1,3-]	0.0013	mg/kg	U
21-11277	MD21-01-0224	1.5–2	ALLH	Trichloropropane[1,2,3-]	0.0013	mg/kg	U
21-11277	MD21-01-0224	1.5–2	ALLH	Butanone[2-]	0.0064	mg/kg	U
21-11277	MD21-01-0224	1.5–2	ALLH	Xylene[1,2-]	0.0013	mg/kg	U
21-11277	MD21-01-0224	1.5–2	ALLH	Trimethylbenzene[1,2,4-]	0.0013	mg/kg	U
21-11277	MD21-01-0224	1.5–2	ALLH	Dibromo-3-Chloropropane[1,2-]	0.0013	mg/kg	U
21-11277	MD21-01-0224	1.5–2	ALLH	Dichloropropane[1,2-]	0.0013	mg/kg	U
21-11277	MD21-01-0224	1.5–2	ALLH	Trichloroethene	0.0013	mg/kg	U
21-11277	MD21-01-0224	1.5–2	ALLH	Tetrachloroethane[1,1,2,2-]	0.0013	mg/kg	U
21-11277	MD21-01-0224	1.5–2	ALLH	Isopropyltoluene[4-]	0.00053	mg/kg	J
21-11277	MD21-01-0224	1.5–2	ALLH	Dichlorodifluoromethane	0.0013	mg/kg	U
21-11277	MD21-01-0224	1.5–2	ALLH	Dichlorobenzene[1,2-]	0.0013	mg/kg	U
21-11277	MD21-01-0224	1.5–2	ALLH	Trichloroethane[1,1,2-]	0.0013	mg/kg	U
21-11277	MD21-01-0224	1.5–2	ALLH	Isopropylbenzene	0.0013	mg/kg	U
21-11277	MD21-01-0224	1.5–2	ALLH	Trichlorofluoromethane	0.0013	mg/kg	UJ
21-11277	MD21-01-0224	1.5–2	ALLH	Butylbenzene[tert-]	0.0013	mg/kg	U
21-11277	MD21-01-0224	1.5–2	ALLH	Chlorotoluene[2-]	0.0013	mg/kg	U
21-11277	MD21-01-0224	1.5–2	ALLH	Trichlorotrifluoroethane	0.0064	mg/kg	U
21-11277	MD21-01-0224	1.5–2	ALLH	Lithium	7.45	mg/kg	None
21-11277	MD21-01-0224	1.5–2	ALLH	Zinc	39.1	mg/kg	None

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11277	MD21-01-0224	1.5–2	ALLH	Nickel	2.63	mg/kg	None
21-11277	MD21-01-0224	1.5–2	ALLH	Vanadium	6.43	mg/kg	None
21-11277	MD21-01-0224	1.5–2	ALLH	Copper	3.09	mg/kg	None
21-11277	MD21-01-0224	1.5–2	ALLH	Arsenic	2.35	mg/kg	None
21-11277	MD21-01-0224	1.5–2	ALLH	Manganese	168	mg/kg	None
21-11277	MD21-01-0224	1.5–2	ALLH	Potassium	582	mg/kg	J+
21-11277	MD21-01-0224	1.5–2	ALLH	Cadmium	0.043	mg/kg	U
21-11277	MD21-01-0224	1.5–2	ALLH	Thallium	0.021	mg/kg	J
21-11277	MD21-01-0224	1.5–2	ALLH	Iron	5800	mg/kg	None
21-11277	MD21-01-0224	1.5–2	ALLH	Calcium	873	mg/kg	J+
21-11277	MD21-01-0224	1.5–2	ALLH	Aluminum	4470	mg/kg	None
21-11277	MD21-01-0224	1.5–2	ALLH	Cobalt	1.06	mg/kg	None
21-11277	MD21-01-0224	1.5–2	ALLH	Mercury	0.514	mg/kg	J-
21-11277	MD21-01-0224	1.5–2	ALLH	Chromium	5.95	mg/kg	None
21-11277	MD21-01-0224	1.5–2	ALLH	Sodium	77	mg/kg	None
21-11277	MD21-01-0224	1.5–2	ALLH	Magnesium	821	mg/kg	J+
21-11277	MD21-01-0224	1.5–2	ALLH	Silver	0.001	mg/kg	U
21-11277	MD21-01-0224	1.5–2	ALLH	Strontium	7.94	mg/kg	None
21-11277	MD21-01-0224	1.5–2	ALLH	Barium	36.5	mg/kg	J+
21-11277	MD21-01-0224	1.5–2	ALLH	Lead	5.07	mg/kg	None
21-11277	MD21-01-0224	1.5–2	ALLH	Perchlorate	0.038	mg/kg	U
21-11277	MD21-01-0225	3–3.5	Qbt 3	Ethylbenzene	0.0014	mg/kg	U
21-11277	MD21-01-0225	3–3.5	Qbt 3	Dichloropropene[trans-1,3-]	0.0014	mg/kg	U
21-11277	MD21-01-0225	3–3.5	Qbt 3	Dichloropropene[cis-1,3-]	0.0014	mg/kg	U
21-11277	MD21-01-0225	3–3.5	Qbt 3	Dibromoethane[1,2-]	0.0014	mg/kg	U
21-11277	MD21-01-0225	3–3.5	Qbt 3	Methyl-2-pentanone[4-]	0.0068	mg/kg	U
21-11277	MD21-01-0225	3–3.5	Qbt 3	Styrene	0.0014	mg/kg	U
21-11277	MD21-01-0225	3–3.5	Qbt 3	Trimethylbenzene[1,3,5-]	0.0014	mg/kg	U
21-11277	MD21-01-0225	3–3.5	Qbt 3	Dichloroethane[1,2-]	0.0014	mg/kg	U
21-11277	MD21-01-0225	3–3.5	Qbt 3	Butylbenzene[n-]	0.0014	mg/kg	U
21-11277	MD21-01-0225	3–3.5	Qbt 3	Chlorotoluene[4-]	0.0014	mg/kg	U
21-11277	MD21-01-0225	3–3.5	Qbt 3	Propylbenzene[1-]	0.0014	mg/kg	U
21-11277	MD21-01-0225	3–3.5	Qbt 3	Chlorobenzene	0.0014	mg/kg	U
21-11277	MD21-01-0225	3–3.5	Qbt 3	Chlorodibromomethane	0.0014	mg/kg	U
21-11277	MD21-01-0225	3–3.5	Qbt 3	Dichlorobenzene[1,4-]	0.0014	mg/kg	U
21-11277	MD21-01-0225	3–3.5	Qbt 3	Toluene	0.0014	mg/kg	U
21-11277	MD21-01-0225	3–3.5	Qbt 3	Bromobenzene	0.0014	mg/kg	U
21-11277	MD21-01-0225	3–3.5	Qbt 3	Thallium	0.004	mg/kg	U
21-11277	MD21-01-0225	3–3.5	Qbt 3	Aluminum	550	mg/kg	None
21-11277	MD21-01-0225	3–3.5	Qbt 3	Barium	13.6	mg/kg	J+
21-11277	MD21-01-0225	3–3.5	Qbt 3	Iron	2960	mg/kg	None
21-11277	MD21-01-0225	3–3.5	Qbt 3	Arsenic	1.81	mg/kg	None
21-11277	MD21-01-0225	3–3.5	Qbt 3	Strontium	1.42	mg/kg	None
21-11277	MD21-01-0225	3–3.5	Qbt 3	Magnesium	173	mg/kg	J+

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11277	MD21-01-0225	3–3.5	Qbt 3	Vanadium	1.14	mg/kg	None
21-11277	MD21-01-0225	3–3.5	Qbt 3	Potassium	161	mg/kg	J+
21-11277	MD21-01-0225	3–3.5	Qbt 3	Chromium	2.09	mg/kg	None
21-11277	MD21-01-0225	3–3.5	Qbt 3	Cobalt	0.375	mg/kg	J
21-11277	MD21-01-0225	3–3.5	Qbt 3	Cadmium	0.041	mg/kg	U
21-11277	MD21-01-0225	3–3.5	Qbt 3	Copper	1.13	mg/kg	None
21-11277	MD21-01-0225	3–3.5	Qbt 3	Sodium	90.2	mg/kg	None
21-11277	MD21-01-0225	3–3.5	Qbt 3	Calcium	240	mg/kg	J+
21-11277	MD21-01-0225	3–3.5	Qbt 3	Selenium	0.347	mg/kg	U
21-11277	MD21-01-0225	3–3.5	Qbt 3	Lead	2.5	mg/kg	None
21-11277	MD21-01-0225	3–3.5	Qbt 3	Beryllium	0.168	mg/kg	None
21-11277	MD21-01-0225	3–3.5	Qbt 3	Zinc	26.3	mg/kg	None
21-11277	MD21-01-0225	3–3.5	Qbt 3	Manganese	218	mg/kg	None
21-11277	MD21-01-0225	3–3.5	Qbt 3	Vinyl Chloride	0.0014	mg/kg	U
21-11277	MD21-01-0225	3–3.5	Qbt 3	Chloromethane	0.0008	mg/kg	J
21-11277	MD21-01-0225	3–3.5	Qbt 3	Benzene	0.0014	mg/kg	U
21-11277	MD21-01-0225	3–3.5	Qbt 3	Bromomethane	0.0014	mg/kg	U
21-11277	MD21-01-0225	3–3.5	Qbt 3	Dichlorodifluoromethane	0.0014	mg/kg	U
21-11277	MD21-01-0225	3–3.5	Qbt 3	Methylene Chloride	0.00077	mg/kg	U
21-11277	MD21-01-0225	3–3.5	Qbt 3	Tetrachloroethene	0.0014	mg/kg	U
21-11277	MD21-01-0225	3–3.5	Qbt 3	Dichlorobenzene[1,3-]	0.0014	mg/kg	U
21-11277	MD21-01-0225	3–3.5	Qbt 3	Lithium	3.96	mg/kg	None
21-11277	MD21-01-0225	3–3.5	Qbt 3	Nickel	1.68	mg/kg	None
21-11277	MD21-01-0225	3–3.5	Qbt 3	Silver	0.001	mg/kg	U
21-11277	MD21-01-0225	3–3.5	Qbt 3	Mercury	0.067	mg/kg	J-
21-11277	MD21-01-0225	3–3.5	Qbt 3	Perchlorate	0.0159	mg/kg	J
21-11277	MD21-01-0225	3–3.5	Qbt 3	Xylene[1,3-]+Xylene[1,4-]	0.0027	mg/kg	U
21-11277	MD21-01-0225	3–3.5	Qbt 3	Americium-241	0.0024	pCi/g	U
21-11277	MD21-01-0225	3–3.5	Qbt 3	Europium-152	-0.0501	pCi/g	U
21-11277	MD21-01-0225	3–3.5	Qbt 3	Bromochloromethane	0.0014	mg/kg	U
21-11277	MD21-01-0225	3–3.5	Qbt 3	Dichloropropene[1,1-]	0.0014	mg/kg	U
21-11277	MD21-01-0225	3–3.5	Qbt 3	Cobalt-60	-0.0082	pCi/g	U
21-11277	MD21-01-0225	3–3.5	Qbt 3	Cesium-134	-0.00156	pCi/g	U
21-11277	MD21-01-0225	3–3.5	Qbt 3	Sodium-22	0.00398	pCi/g	U
21-11277	MD21-01-0225	3–3.5	Qbt 3	Ruthenium-106	0.0749	pCi/g	U
21-11277	MD21-01-0225	3–3.5	Qbt 3	Cesium-137	-0.00017	pCi/g	U
21-11277	MD21-01-0225	3–3.5	Qbt 3	Tritium	0.057746	pCi/g	None
21-11277	MD21-01-0225	3–3.5	Qbt 3	Uranium-235	0.388	pCi/g	None
21-11277	MD21-01-0225	3–3.5	Qbt 3	Dichloroethane[1,1-]	0.0014	mg/kg	U
21-11277	MD21-01-0225	3–3.5	Qbt 3	Dibromomethane	0.0014	mg/kg	U
21-11277	MD21-01-0225	3–3.5	Qbt 3	Bromodichloromethane	0.0014	mg/kg	U
21-11277	MD21-01-0225	3–3.5	Qbt 3	Iodomethane	0.0068	mg/kg	U
21-11277	MD21-01-0225	3–3.5	Qbt 3	Antimony	0.0226	mg/kg	U
21-11277	MD21-01-0225	3–3.5	Qbt 3	Hexanone[2-]	0.0068	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11277	MD21-01-0225	3–3.5	Qbt 3	Acetone	0.0113	mg/kg	U
21-11277	MD21-01-0225	3–3.5	Qbt 3	Chloroform	0.0014	mg/kg	U
21-11277	MD21-01-0225	3–3.5	Qbt 3	Dichloroethene[trans-1,2-]	0.0014	mg/kg	U
21-11277	MD21-01-0225	3–3.5	Qbt 3	Dichloropropane[1,2-]	0.0014	mg/kg	U
21-11277	MD21-01-0225	3–3.5	Qbt 3	Bromoform	0.0014	mg/kg	U
21-11277	MD21-01-0225	3–3.5	Qbt 3	Dichloroethene[1,1-]	0.0014	mg/kg	U
21-11277	MD21-01-0225	3–3.5	Qbt 3	Dichloroethene[cis-1,2-]	0.0014	mg/kg	U
21-11277	MD21-01-0225	3–3.5	Qbt 3	Carbon Tetrachloride	0.0014	mg/kg	U
21-11277	MD21-01-0225	3–3.5	Qbt 3	Dichloropropane[1,3-]	0.0014	mg/kg	U
21-11277	MD21-01-0225	3–3.5	Qbt 3	Tetrachloroethane[1,1,1,2-]	0.0014	mg/kg	U
21-11277	MD21-01-0225	3–3.5	Qbt 3	Trichloroethane[1,1,1-]	0.0014	mg/kg	U
21-11277	MD21-01-0225	3–3.5	Qbt 3	Trichlorotrifluoroethane	0.0068	mg/kg	U
21-11277	MD21-01-0225	3–3.5	Qbt 3	Butylbenzene[sec-]	0.0014	mg/kg	U
21-11277	MD21-01-0225	3–3.5	Qbt 3	Carbon Disulfide	0.0068	mg/kg	U
21-11277	MD21-01-0225	3–3.5	Qbt 3	Chloroethane	0.0014	mg/kg	U
21-11277	MD21-01-0225	3–3.5	Qbt 3	Butanone[2-]	0.0068	mg/kg	U
21-11277	MD21-01-0225	3–3.5	Qbt 3	Dichloropropane[2,2-]	0.0014	mg/kg	U
21-11277	MD21-01-0225	3–3.5	Qbt 3	Trichlorofluoromethane	0.0014	mg/kg	UJ
21-11277	MD21-01-0225	3–3.5	Qbt 3	Isopropylbenzene	0.0014	mg/kg	U
21-11277	MD21-01-0225	3–3.5	Qbt 3	Trimethylbenzene[1,2,4-]	0.0014	mg/kg	U
21-11277	MD21-01-0225	3–3.5	Qbt 3	Trichloropropane[1,2,3-]	0.0014	mg/kg	U
21-11277	MD21-01-0225	3–3.5	Qbt 3	Xylene[1,2-]	0.0014	mg/kg	U
21-11277	MD21-01-0225	3–3.5	Qbt 3	Dichlorobenzene[1,2-]	0.0014	mg/kg	U
21-11277	MD21-01-0225	3–3.5	Qbt 3	Trichloroethane[1,1,2-]	0.0014	mg/kg	U
21-11277	MD21-01-0225	3–3.5	Qbt 3	Chlorotoluene[2-]	0.0014	mg/kg	U
21-11277	MD21-01-0225	3–3.5	Qbt 3	Trichloroethene	0.0014	mg/kg	U
21-11277	MD21-01-0225	3–3.5	Qbt 3	Butylbenzene[tert-]	0.0014	mg/kg	U
21-11277	MD21-01-0225	3–3.5	Qbt 3	Isopropyltoluene[4-]	0.0014	mg/kg	U
21-11277	MD21-01-0225	3–3.5	Qbt 3	Tetrachloroethane[1,1,2,2-]	0.0014	mg/kg	U
21-11277	MD21-01-0225	3–3.5	Qbt 3	Dibromo-3-Chloropropane[1,2-]	0.0014	mg/kg	U
21-11277	MD21-03-50288	1.5–2	Qbt 3	Plutonium-238	0.00608	pCi/g	U
21-11277	MD21-03-50288	1.5–2	Qbt 3	Plutonium-239	0.0577	pCi/g	None
21-11277	MD21-03-50289	1.5–2	Qbt 3	Plutonium-238	0.00491	pCi/g	U
21-11277	MD21-03-50289	1.5–2	Qbt 3	Plutonium-239	0.16	pCi/g	None
21-11277	MD21-03-50290	3–3.5	Qbt 3	Plutonium-238	0.0153	pCi/g	U
21-11277	MD21-03-50290	3–3.5	Qbt 3	Plutonium-239	0.0238	pCi/g	U
21-11278	MD21-01-0226	4–4.5	ALLH	Arsenic	2.62	mg/kg	None
21-11278	MD21-01-0226	4–4.5	ALLH	Zinc	34.2	mg/kg	None
21-11278	MD21-01-0226	4–4.5	ALLH	Copper	4.85	mg/kg	None
21-11278	MD21-01-0226	4–4.5	ALLH	Selenium	0.358	mg/kg	U
21-11278	MD21-01-0226	4–4.5	ALLH	Strontium	20.4	mg/kg	None
21-11278	MD21-01-0226	4–4.5	ALLH	Chromium	7.96	mg/kg	None
21-11278	MD21-01-0226	4–4.5	ALLH	Isopropyltoluene[4-]	0.0013	mg/kg	U
21-11278	MD21-01-0226	4–4.5	ALLH	Butylbenzene[tert-]	0.0013	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11278	MD21-01-0226	4–4.5	ALLH	Isopropylbenzene	0.0013	mg/kg	U
21-11278	MD21-01-0226	4–4.5	ALLH	Perchlorate	0.0376	mg/kg	U
21-11278	MD21-01-0226	4–4.5	ALLH	Antimony	0.0928	mg/kg	J-
21-11278	MD21-01-0226	4–4.5	ALLH	Iron	9290	mg/kg	None
21-11278	MD21-01-0226	4–4.5	ALLH	Lithium	10.1	mg/kg	None
21-11278	MD21-01-0226	4–4.5	ALLH	Beryllium	0.554	mg/kg	None
21-11278	MD21-01-0226	4–4.5	ALLH	Manganese	234	mg/kg	None
21-11278	MD21-01-0226	4–4.5	ALLH	Magnesium	1490	mg/kg	J+
21-11278	MD21-01-0226	4–4.5	ALLH	Nickel	4.55	mg/kg	None
21-11278	MD21-01-0226	4–4.5	ALLH	Lead	9.15	mg/kg	None
21-11278	MD21-01-0226	4–4.5	ALLH	Thallium	0.135	mg/kg	None
21-11278	MD21-01-0226	4–4.5	ALLH	Silver	0.039	mg/kg	J
21-11278	MD21-01-0226	4–4.5	ALLH	Mercury	0.83	mg/kg	J-
21-11278	MD21-01-0226	4–4.5	ALLH	Styrene	0.0013	mg/kg	U
21-11278	MD21-01-0226	4–4.5	ALLH	Methyl-2-pentanone[4-]	0.0065	mg/kg	U
21-11278	MD21-01-0226	4–4.5	ALLH	Chlorodibromomethane	0.0013	mg/kg	U
21-11278	MD21-01-0226	4–4.5	ALLH	Dichloroethene[cis-1,2-]	0.0013	mg/kg	U
21-11278	MD21-01-0226	4–4.5	ALLH	Butylbenzene[sec-]	0.0013	mg/kg	U
21-11278	MD21-01-0226	4–4.5	ALLH	Bromobenzene	0.0013	mg/kg	U
21-11278	MD21-01-0226	4–4.5	ALLH	Dichlorobenzene[1,4-]	0.0013	mg/kg	U
21-11278	MD21-01-0226	4–4.5	ALLH	Dichloroethane[1,2-]	0.0013	mg/kg	U
21-11278	MD21-01-0226	4–4.5	ALLH	Dichloroethene[trans-1,2-]	0.0013	mg/kg	U
21-11278	MD21-01-0226	4–4.5	ALLH	Ethylbenzene	0.0013	mg/kg	U
21-11278	MD21-01-0226	4–4.5	ALLH	Chlorotoluene[4-]	0.0013	mg/kg	U
21-11278	MD21-01-0226	4–4.5	ALLH	Toluene	0.0013	mg/kg	U
21-11278	MD21-01-0226	4–4.5	ALLH	Propylbenzene[1-]	0.0013	mg/kg	U
21-11278	MD21-01-0226	4–4.5	ALLH	Chlorobenzene	0.0013	mg/kg	U
21-11278	MD21-01-0226	4–4.5	ALLH	Dichloropropane[1,3-]	0.0013	mg/kg	U
21-11278	MD21-01-0226	4–4.5	ALLH	Butylbenzene[n-]	0.0013	mg/kg	U
21-11278	MD21-01-0226	4–4.5	ALLH	Trimethylbenzene[1,3,5-]	0.0013	mg/kg	U
21-11278	MD21-01-0226	4–4.5	ALLH	Tetrachloroethene	0.0013	mg/kg	U
21-11278	MD21-01-0226	4–4.5	ALLH	Dichloropropene[cis-1,3-]	0.0013	mg/kg	U
21-11278	MD21-01-0226	4–4.5	ALLH	Dichloropropene[trans-1,3-]	0.0013	mg/kg	U
21-11278	MD21-01-0226	4–4.5	ALLH	Methylene Chloride	0.00077	mg/kg	U
21-11278	MD21-01-0226	4–4.5	ALLH	Trichlorotrifluoroethane	0.0065	mg/kg	U
21-11278	MD21-01-0226	4–4.5	ALLH	Carbon Disulfide	0.0065	mg/kg	U
21-11278	MD21-01-0226	4–4.5	ALLH	Trichloroethane[1,1,1-]	0.0013	mg/kg	U
21-11278	MD21-01-0226	4–4.5	ALLH	Dichloroethene[1,1-]	0.0013	mg/kg	U
21-11278	MD21-01-0226	4–4.5	ALLH	Chloroethane	0.0013	mg/kg	U
21-11278	MD21-01-0226	4–4.5	ALLH	Bromoform	0.0013	mg/kg	U
21-11278	MD21-01-0226	4–4.5	ALLH	Dichlorodifluoromethane	0.0013	mg/kg	U
21-11278	MD21-01-0226	4–4.5	ALLH	Trimethylbenzene[1,2,4-]	0.0013	mg/kg	U
21-11278	MD21-01-0226	4–4.5	ALLH	Dibromomethane	0.0013	mg/kg	U
21-11278	MD21-01-0226	4–4.5	ALLH	Chlorotoluene[2-]	0.0013	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11278	MD21-01-0226	4–4.5	ALLH	Trichloroethene	0.0013	mg/kg	U
21-11278	MD21-01-0226	4–4.5	ALLH	Benzene	0.0013	mg/kg	U
21-11278	MD21-01-0226	4–4.5	ALLH	Trichloroethane[1,1,2-]	0.0013	mg/kg	U
21-11278	MD21-01-0226	4–4.5	ALLH	Acetone	0.0302	mg/kg	U
21-11278	MD21-01-0226	4–4.5	ALLH	Hexanone[2-]	0.0065	mg/kg	U
21-11278	MD21-01-0226	4–4.5	ALLH	Bromodichloromethane	0.0013	mg/kg	U
21-11278	MD21-01-0226	4–4.5	ALLH	Tetrachloroethane[1,1,1,2-]	0.0013	mg/kg	U
21-11278	MD21-01-0226	4–4.5	ALLH	Bromomethane	0.0013	mg/kg	U
21-11278	MD21-01-0226	4–4.5	ALLH	Tetrachloroethane[1,1,2,2-]	0.0013	mg/kg	U
21-11278	MD21-01-0226	4–4.5	ALLH	Dichloroethane[1,1-]	0.0013	mg/kg	U
21-11278	MD21-01-0226	4–4.5	ALLH	Vinyl Chloride	0.0013	mg/kg	U
21-11278	MD21-01-0226	4–4.5	ALLH	Iodomethane	0.0065	mg/kg	U
21-11278	MD21-01-0226	4–4.5	ALLH	Carbon Tetrachloride	0.0013	mg/kg	U
21-11278	MD21-01-0226	4–4.5	ALLH	Dichloropropene[1,1-]	0.0013	mg/kg	U
21-11278	MD21-01-0226	4–4.5	ALLH	Xylene[1,2-]	0.0013	mg/kg	U
21-11278	MD21-01-0226	4–4.5	ALLH	Chloromethane	0.0013	mg/kg	U
21-11278	MD21-01-0226	4–4.5	ALLH	Butanone[2-]	0.0032	mg/kg	J
21-11278	MD21-01-0226	4–4.5	ALLH	Dichloropropane[1,2-]	0.0013	mg/kg	U
21-11278	MD21-01-0226	4–4.5	ALLH	Bromochloromethane	0.0013	mg/kg	U
21-11278	MD21-01-0226	4–4.5	ALLH	Dibromo-3-Chloropropane[1,2-]	0.0013	mg/kg	U
21-11278	MD21-01-0226	4–4.5	ALLH	Dichlorobenzene[1,3-]	0.0013	mg/kg	U
21-11278	MD21-01-0226	4–4.5	ALLH	Trichlorofluoromethane	0.0013	mg/kg	UJ
21-11278	MD21-01-0226	4–4.5	ALLH	Trichloropropane[1,2,3-]	0.0013	mg/kg	U
21-11278	MD21-01-0226	4–4.5	ALLH	Dichlorobenzene[1,2-]	0.0013	mg/kg	U
21-11278	MD21-01-0226	4–4.5	ALLH	Cadmium	0.043	mg/kg	U
21-11278	MD21-01-0226	4–4.5	ALLH	Barium	82	mg/kg	J+
21-11278	MD21-01-0226	4–4.5	ALLH	Calcium	2330	mg/kg	J+
21-11278	MD21-01-0226	4–4.5	ALLH	Sodium	91.7	mg/kg	None
21-11278	MD21-01-0226	4–4.5	ALLH	Cobalt	2.65	mg/kg	None
21-11278	MD21-01-0226	4–4.5	ALLH	Vanadium	14.1	mg/kg	None
21-11278	MD21-01-0226	4–4.5	ALLH	Xylene[1,3-]+Xylene[1,4-]	0.0026	mg/kg	U
21-11278	MD21-01-0226	4–4.5	ALLH	Sodium-22	-0.00896	pCi/g	U
21-11278	MD21-01-0226	4–4.5	ALLH	Europium-152	0.0387	pCi/g	U
21-11278	MD21-01-0226	4–4.5	ALLH	Americium-241	0.0222	pCi/g	U
21-11278	MD21-01-0226	4–4.5	ALLH	Uranium-235	0.135	pCi/g	U
21-11278	MD21-01-0226	4–4.5	ALLH	Ruthenium-106	-0.177	pCi/g	U
21-11278	MD21-01-0226	4–4.5	ALLH	Cesium-134	0.0107	pCi/g	U
21-11278	MD21-01-0226	4–4.5	ALLH	Cesium-137	0.000936	pCi/g	U
21-11278	MD21-01-0226	4–4.5	ALLH	Cobalt-60	-0.00276	pCi/g	U
21-11278	MD21-01-0226	4–4.5	ALLH	Tritium	0.087298	pCi/g	None
21-11278	MD21-01-0226	4–4.5	ALLH	Dibromoethane[1,2-]	0.0013	mg/kg	U
21-11278	MD21-01-0226	4–4.5	ALLH	Aluminum	9670	mg/kg	None
21-11278	MD21-01-0226	4–4.5	ALLH	Potassium	1120	mg/kg	J+
21-11278	MD21-01-0226	4–4.5	ALLH	Dichloropropane[2,2-]	0.0013	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11278	MD21-01-0226	4–4.5	ALLH	Chloroform	0.0013	mg/kg	U
21-11278	MD21-01-0228	5.5–6	ALLH	Dichlorobenzene[1,2-]	0.0014	mg/kg	U
21-11278	MD21-01-0228	5.5–6	ALLH	Trimethylbenzene[1,2,4-]	0.0014	mg/kg	U
21-11278	MD21-01-0228	5.5–6	ALLH	Dibromo-3-Chloropropane[1,2-]	0.0014	mg/kg	U
21-11278	MD21-01-0228	5.5–6	ALLH	Trichloropropane[1,2,3-]	0.0014	mg/kg	U
21-11278	MD21-01-0228	5.5–6	ALLH	Butylbenzene[tert-]	0.0014	mg/kg	U
21-11278	MD21-01-0228	5.5–6	ALLH	Isopropylbenzene	0.0014	mg/kg	U
21-11278	MD21-01-0228	5.5–6	ALLH	Isopropyltoluene[4-]	0.00094	mg/kg	J
21-11278	MD21-01-0228	5.5–6	ALLH	Lead	7.57	mg/kg	None
21-11278	MD21-01-0228	5.5–6	ALLH	Barium	64	mg/kg	J+
21-11278	MD21-01-0228	5.5–6	ALLH	Zinc	26.5	mg/kg	None
21-11278	MD21-01-0228	5.5–6	ALLH	Chromium	11.3	mg/kg	None
21-11278	MD21-01-0228	5.5–6	ALLH	Aluminum	7170	mg/kg	None
21-11278	MD21-01-0228	5.5–6	ALLH	Potassium	838	mg/kg	J+
21-11278	MD21-01-0228	5.5–6	ALLH	Mercury	2.13	mg/kg	J-
21-11278	MD21-01-0228	5.5–6	ALLH	Copper	4.14	mg/kg	None
21-11278	MD21-01-0228	5.5–6	ALLH	Magnesium	1080	mg/kg	J+
21-11278	MD21-01-0228	5.5–6	ALLH	Beryllium	0.347	mg/kg	None
21-11278	MD21-01-0228	5.5–6	ALLH	Thallium	0.079	mg/kg	J
21-11278	MD21-01-0228	5.5–6	ALLH	Cadmium	0.041	mg/kg	U
21-11278	MD21-01-0228	5.5–6	ALLH	Sodium	92.6	mg/kg	None
21-11278	MD21-01-0228	5.5–6	ALLH	Cobalt	1.85	mg/kg	None
21-11278	MD21-01-0228	5.5–6	ALLH	Nickel	4.02	mg/kg	None
21-11278	MD21-01-0228	5.5–6	ALLH	Arsenic	2.37	mg/kg	None
21-11278	MD21-01-0228	5.5–6	ALLH	Silver	0.001	mg/kg	U
21-11278	MD21-01-0228	5.5–6	ALLH	Selenium	0.34	mg/kg	U
21-11278	MD21-01-0228	5.5–6	ALLH	Lithium	9.25	mg/kg	None
21-11278	MD21-01-0228	5.5–6	ALLH	Iron	8050	mg/kg	None
21-11278	MD21-01-0228	5.5–6	ALLH	Vanadium	9.96	mg/kg	None
21-11278	MD21-01-0228	5.5–6	ALLH	Strontium	13.4	mg/kg	None
21-11278	MD21-01-0228	5.5–6	ALLH	Chlorodibromomethane	0.0014	mg/kg	U
21-11278	MD21-01-0228	5.5–6	ALLH	Dibromoethane[1,2-]	0.0014	mg/kg	U
21-11278	MD21-01-0228	5.5–6	ALLH	Butylbenzene[sec-]	0.0014	mg/kg	U
21-11278	MD21-01-0228	5.5–6	ALLH	Trimethylbenzene[1,3,5-]	0.0014	mg/kg	U
21-11278	MD21-01-0228	5.5–6	ALLH	Dichloroethene[cis-1,2-]	0.0014	mg/kg	U
21-11278	MD21-01-0228	5.5–6	ALLH	Chlorobenzene	0.0014	mg/kg	U
21-11278	MD21-01-0228	5.5–6	ALLH	Tetrachloroethene	0.0014	mg/kg	U
21-11278	MD21-01-0228	5.5–6	ALLH	Toluene	0.00078	mg/kg	J
21-11278	MD21-01-0228	5.5–6	ALLH	Butylbenzene[n-]	0.0014	mg/kg	U
21-11278	MD21-01-0228	5.5–6	ALLH	Chlorotoluene[4-]	0.0014	mg/kg	U
21-11278	MD21-01-0228	5.5–6	ALLH	Bromobenzene	0.0014	mg/kg	U
21-11278	MD21-01-0228	5.5–6	ALLH	Dichloropropane[1,3-]	0.0014	mg/kg	U
21-11278	MD21-01-0228	5.5–6	ALLH	Dichloropropene[cis-1,3-]	0.0014	mg/kg	U
21-11278	MD21-01-0228	5.5–6	ALLH	Dichloroethane[1,2-]	0.0014	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11278	MD21-01-0228	5.5–6	ALLH	Dichlorobenzene[1,4-]	0.0014	mg/kg	U
21-11278	MD21-01-0228	5.5–6	ALLH	Propylbenzene[1-]	0.0014	mg/kg	U
21-11278	MD21-01-0228	5.5–6	ALLH	Dichloroethene[trans-1,2-]	0.0014	mg/kg	U
21-11278	MD21-01-0228	5.5–6	ALLH	Dichloropropene[trans-1,3-]	0.0014	mg/kg	U
21-11278	MD21-01-0228	5.5–6	ALLH	Methyl-2-pentanone[4-]	0.0068	mg/kg	U
21-11278	MD21-01-0228	5.5–6	ALLH	Styrene	0.0014	mg/kg	U
21-11278	MD21-01-0228	5.5–6	ALLH	Chloroform	0.0014	mg/kg	U
21-11278	MD21-01-0228	5.5–6	ALLH	Bromochloromethane	0.0014	mg/kg	U
21-11278	MD21-01-0228	5.5–6	ALLH	Trichloroethene	0.0014	mg/kg	U
21-11278	MD21-01-0228	5.5–6	ALLH	Iodomethane	0.0068	mg/kg	U
21-11278	MD21-01-0228	5.5–6	ALLH	Dichloroethene[1,1-]	0.0014	mg/kg	U
21-11278	MD21-01-0228	5.5–6	ALLH	Chlorotoluene[2-]	0.0014	mg/kg	U
21-11278	MD21-01-0228	5.5–6	ALLH	Ethylbenzene	0.0014	mg/kg	U
21-11278	MD21-01-0228	5.5–6	ALLH	Dichloroethane[1,1-]	0.0014	mg/kg	U
21-11278	MD21-01-0228	5.5–6	ALLH	Butanone[2-]	0.0038	mg/kg	J
21-11278	MD21-01-0228	5.5–6	ALLH	Dichloropropene[1,1-]	0.0014	mg/kg	U
21-11278	MD21-01-0228	5.5–6	ALLH	Vinyl Chloride	0.0014	mg/kg	U
21-11278	MD21-01-0228	5.5–6	ALLH	Hexanone[2-]	0.0068	mg/kg	U
21-11278	MD21-01-0228	5.5–6	ALLH	Methylene Chloride	0.0006	mg/kg	U
21-11278	MD21-01-0228	5.5–6	ALLH	Carbon Tetrachloride	0.0014	mg/kg	U
21-11278	MD21-01-0228	5.5–6	ALLH	Trichloroethane[1,1,2-]	0.0014	mg/kg	U
21-11278	MD21-01-0228	5.5–6	ALLH	Dichloropropane[2,2-]	0.0014	mg/kg	U
21-11278	MD21-01-0228	5.5–6	ALLH	Acetone	0.0467	mg/kg	U
21-11278	MD21-01-0228	5.5–6	ALLH	Dichlorodifluoromethane	0.0014	mg/kg	U
21-11278	MD21-01-0228	5.5–6	ALLH	Bromomethane	0.0014	mg/kg	U
21-11278	MD21-01-0228	5.5–6	ALLH	Trichlorotrifluoroethane	0.0068	mg/kg	U
21-11278	MD21-01-0228	5.5–6	ALLH	Chloroethane	0.0014	mg/kg	U
21-11278	MD21-01-0228	5.5–6	ALLH	Dichlorobenzene[1,3-]	0.0014	mg/kg	U
21-11278	MD21-01-0228	5.5–6	ALLH	Benzene	0.0014	mg/kg	U
21-11278	MD21-01-0228	5.5–6	ALLH	Tetrachloroethane[1,1,2,2-]	0.0014	mg/kg	U
21-11278	MD21-01-0228	5.5–6	ALLH	Chloromethane	0.00084	mg/kg	J
21-11278	MD21-01-0228	5.5–6	ALLH	Trichloroethane[1,1,1-]	0.0014	mg/kg	U
21-11278	MD21-01-0228	5.5–6	ALLH	Trichlorofluoromethane	0.0014	mg/kg	UJ
21-11278	MD21-01-0228	5.5–6	ALLH	Carbon Disulfide	0.0068	mg/kg	U
21-11278	MD21-01-0228	5.5–6	ALLH	Bromoform	0.0014	mg/kg	U
21-11278	MD21-01-0228	5.5–6	ALLH	Xylene[1,2-]	0.0014	mg/kg	U
21-11278	MD21-01-0228	5.5–6	ALLH	Tetrachloroethane[1,1,1,2-]	0.0014	mg/kg	U
21-11278	MD21-01-0228	5.5–6	ALLH	Bromodichloromethane	0.0014	mg/kg	U
21-11278	MD21-01-0228	5.5–6	ALLH	Dibromomethane	0.0014	mg/kg	U
21-11278	MD21-01-0228	5.5–6	ALLH	Dichloropropane[1,2-]	0.0014	mg/kg	U
21-11278	MD21-01-0228	5.5–6	ALLH	Perchlorate	0.0371	mg/kg	U
21-11278	MD21-01-0228	5.5–6	ALLH	Xylene[1,3-]+Xylene[1,4-]	0.0027	mg/kg	U
21-11278	MD21-01-0228	5.5–6	ALLH	Tritium	0.071357	pCi/g	None
21-11278	MD21-01-0228	5.5–6	ALLH	Americium-241	0.0373	pCi/g	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11278	MD21-01-0228	5.5–6	ALLH	Ruthenium-106	0.0739	pCi/g	U
21-11278	MD21-01-0228	5.5–6	ALLH	Europium-152	0.0197	pCi/g	U
21-11278	MD21-01-0228	5.5–6	ALLH	Cobalt-60	0.000281	pCi/g	U
21-11278	MD21-01-0228	5.5–6	ALLH	Sodium-22	0.00319	pCi/g	U
21-11278	MD21-01-0228	5.5–6	ALLH	Cesium-137	0.0338	pCi/g	U
21-11278	MD21-01-0228	5.5–6	ALLH	Uranium-235	0.0951	pCi/g	U
21-11278	MD21-01-0228	5.5–6	ALLH	Cesium-134	-0.00426	pCi/g	U
21-11278	MD21-01-0228	5.5–6	ALLH	Antimony	0.0466	mg/kg	J-
21-11278	MD21-01-0228	5.5–6	ALLH	Calcium	1370	mg/kg	J+
21-11278	MD21-01-0228	5.5–6	ALLH	Manganese	150	mg/kg	None
21-11279	MD21-01-0229	2–2.5	ALLH	Dibromo-3-Chloropropane[1,2-]	0.0015	mg/kg	U
21-11279	MD21-01-0229	2–2.5	ALLH	Trichloropropane[1,2,3-]	0.0015	mg/kg	U
21-11279	MD21-01-0229	2–2.5	ALLH	Butylbenzene[tert-]	0.0015	mg/kg	U
21-11279	MD21-01-0229	2–2.5	ALLH	Isopropylbenzene	0.0015	mg/kg	U
21-11279	MD21-01-0229	2–2.5	ALLH	Isopropyltoluene[4-]	0.0013	mg/kg	J
21-11279	MD21-01-0229	2–2.5	ALLH	Lithium	8.92	mg/kg	None
21-11279	MD21-01-0229	2–2.5	ALLH	Nickel	4.49	mg/kg	None
21-11279	MD21-01-0229	2–2.5	ALLH	Silver	0.031	mg/kg	J
21-11279	MD21-01-0229	2–2.5	ALLH	Thallium	0.134	mg/kg	None
21-11279	MD21-01-0229	2–2.5	ALLH	Beryllium	0.56	mg/kg	None
21-11279	MD21-01-0229	2–2.5	ALLH	Mercury	0.114	mg/kg	None
21-11279	MD21-01-0229	2–2.5	ALLH	Aluminum	280	mg/kg	None
21-11279	MD21-01-0229	2–2.5	ALLH	Iron	2250	mg/kg	None
21-11279	MD21-01-0229	2–2.5	ALLH	Lead	2.24	mg/kg	None
21-11279	MD21-01-0229	2–2.5	ALLH	Magnesium	131	mg/kg	J+
21-11279	MD21-01-0229	2–2.5	ALLH	Manganese	112	mg/kg	None
21-11279	MD21-01-0229	2–2.5	ALLH	Potassium	112	mg/kg	J+
21-11279	MD21-01-0229	2–2.5	ALLH	Sodium	87.5	mg/kg	None
21-11279	MD21-01-0229	2–2.5	ALLH	Strontium	1.03	mg/kg	None
21-11279	MD21-01-0229	2–2.5	ALLH	Arsenic	1.87	mg/kg	None
21-11279	MD21-01-0229	2–2.5	ALLH	Barium	6.67	mg/kg	J+
21-11279	MD21-01-0229	2–2.5	ALLH	Cadmium	0.04	mg/kg	U
21-11279	MD21-01-0229	2–2.5	ALLH	Chromium	2.46	mg/kg	None
21-11279	MD21-01-0229	2–2.5	ALLH	Cobalt	0.159	mg/kg	J
21-11279	MD21-01-0229	2–2.5	ALLH	Copper	0.863	mg/kg	None
21-11279	MD21-01-0229	2–2.5	ALLH	Vanadium	0.999	mg/kg	None
21-11279	MD21-01-0229	2–2.5	ALLH	Zinc	21.9	mg/kg	None
21-11279	MD21-01-0229	2–2.5	ALLH	Calcium	174	mg/kg	J+
21-11279	MD21-01-0229	2–2.5	ALLH	Selenium	0.338	mg/kg	U
21-11279	MD21-01-0229	2–2.5	ALLH	Dichloropropene[trans-1,3-]	0.0015	mg/kg	U
21-11279	MD21-01-0229	2–2.5	ALLH	Dichlorobenzene[1,3-]	0.0015	mg/kg	U
21-11279	MD21-01-0229	2–2.5	ALLH	Chlorobenzene	0.0015	mg/kg	U
21-11279	MD21-01-0229	2–2.5	ALLH	Butylbenzene[sec-]	0.0015	mg/kg	U
21-11279	MD21-01-0229	2–2.5	ALLH	Chlorotoluene[4-]	0.0015	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11279	MD21-01-0229	2–2.5	ALLH	Dichloroethene[cis-1,2-]	0.0015	mg/kg	U
21-11279	MD21-01-0229	2–2.5	ALLH	Propylbenzene[1-]	0.0015	mg/kg	U
21-11279	MD21-01-0229	2–2.5	ALLH	Dichloroethane[1,2-]	0.0015	mg/kg	U
21-11279	MD21-01-0229	2–2.5	ALLH	Bromobenzene	0.0015	mg/kg	U
21-11279	MD21-01-0229	2–2.5	ALLH	Toluene	0.0013	mg/kg	J
21-11279	MD21-01-0229	2–2.5	ALLH	Ethylbenzene	0.0015	mg/kg	U
21-11279	MD21-01-0229	2–2.5	ALLH	Methyl-2-pentanone[4-]	0.0202	mg/kg	None
21-11279	MD21-01-0229	2–2.5	ALLH	Tetrachloroethene	0.0015	mg/kg	U
21-11279	MD21-01-0229	2–2.5	ALLH	Dichloroethene[trans-1,2-]	0.0015	mg/kg	U
21-11279	MD21-01-0229	2–2.5	ALLH	Carbon Tetrachloride	0.0015	mg/kg	U
21-11279	MD21-01-0229	2–2.5	ALLH	Chlorodibromomethane	0.0015	mg/kg	U
21-11279	MD21-01-0229	2–2.5	ALLH	Butylbenzene[n-]	0.0015	mg/kg	U
21-11279	MD21-01-0229	2–2.5	ALLH	Dichloropropane[1,3-]	0.0015	mg/kg	U
21-11279	MD21-01-0229	2–2.5	ALLH	Dichlorobenzene[1,4-]	0.0015	mg/kg	U
21-11279	MD21-01-0229	2–2.5	ALLH	Dibromoethane[1,2-]	0.0015	mg/kg	U
21-11279	MD21-01-0229	2–2.5	ALLH	Styrene	0.0015	mg/kg	U
21-11279	MD21-01-0229	2–2.5	ALLH	Dichloropropene[cis-1,3-]	0.0015	mg/kg	U
21-11279	MD21-01-0229	2–2.5	ALLH	Trimethylbenzene[1,3,5-]	0.0088	mg/kg	U
21-11279	MD21-01-0229	2–2.5	ALLH	Trichloroethane[1,1,1-]	0.0015	mg/kg	U
21-11279	MD21-01-0229	2–2.5	ALLH	Hexanone[2-]	0.0017	mg/kg	J
21-11279	MD21-01-0229	2–2.5	ALLH	Tetrachloroethane[1,1,2,2-]	0.0015	mg/kg	U
21-11279	MD21-01-0229	2–2.5	ALLH	Xylene[1,2-]	0.0015	mg/kg	U
21-11279	MD21-01-0229	2–2.5	ALLH	Trichlorofluoromethane	0.0015	mg/kg	U
21-11279	MD21-01-0229	2–2.5	ALLH	Bromochloromethane	0.0015	mg/kg	U
21-11279	MD21-01-0229	2–2.5	ALLH	Carbon Disulfide	0.0076	mg/kg	U
21-11279	MD21-01-0229	2–2.5	ALLH	Vinyl Chloride	0.0015	mg/kg	U
21-11279	MD21-01-0229	2–2.5	ALLH	Bromomethane	0.0015	mg/kg	U
21-11279	MD21-01-0229	2–2.5	ALLH	Bromodichloromethane	0.0015	mg/kg	U
21-11279	MD21-01-0229	2–2.5	ALLH	Dichloropropane[2,2-]	0.0015	mg/kg	U
21-11279	MD21-01-0229	2–2.5	ALLH	Benzene	0.0015	mg/kg	U
21-11279	MD21-01-0229	2–2.5	ALLH	Dichloropropene[1,1-]	0.0015	mg/kg	U
21-11279	MD21-01-0229	2–2.5	ALLH	Trimethylbenzene[1,2,4-]	0.0015	mg/kg	U
21-11279	MD21-01-0229	2–2.5	ALLH	Dichloropropane[1,2-]	0.0015	mg/kg	U
21-11279	MD21-01-0229	2–2.5	ALLH	Trichloroethane[1,1,2-]	0.0015	mg/kg	U
21-11279	MD21-01-0229	2–2.5	ALLH	Methylene Chloride	0.0016	mg/kg	U
21-11279	MD21-01-0229	2–2.5	ALLH	Chlorotoluene[2-]	0.0015	mg/kg	U
21-11279	MD21-01-0229	2–2.5	ALLH	Dibromomethane	0.0015	mg/kg	U
21-11279	MD21-01-0229	2–2.5	ALLH	Acetone	0.28	mg/kg	U
21-11279	MD21-01-0229	2–2.5	ALLH	Chloroethane	0.0015	mg/kg	U
21-11279	MD21-01-0229	2–2.5	ALLH	Butanone[2-]	0.0072	mg/kg	J
21-11279	MD21-01-0229	2–2.5	ALLH	Dichloroethene[1,1-]	0.0015	mg/kg	U
21-11279	MD21-01-0229	2–2.5	ALLH	Trichloroethene	0.0015	mg/kg	U
21-11279	MD21-01-0229	2–2.5	ALLH	Iodomethane	0.0076	mg/kg	U
21-11279	MD21-01-0229	2–2.5	ALLH	Bromoform	0.0015	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11279	MD21-01-0229	2–2.5	ALLH	Dichlorodifluoromethane	0.0015	mg/kg	U
21-11279	MD21-01-0229	2–2.5	ALLH	Chloroform	0.0015	mg/kg	U
21-11279	MD21-01-0229	2–2.5	ALLH	Chloromethane	0.0008	mg/kg	J
21-11279	MD21-01-0229	2–2.5	ALLH	Dichloroethane[1,1-]	0.0015	mg/kg	U
21-11279	MD21-01-0229	2–2.5	ALLH	Antimony	0.402	mg/kg	J-
21-11279	MD21-01-0229	2–2.5	ALLH	Tetrachloroethane[1,1,1,2-]	0.0015	mg/kg	U
21-11279	MD21-01-0229	2–2.5	ALLH	Dichlorobenzene[1,2-]	0.0015	mg/kg	U
21-11279	MD21-01-0229	2–2.5	ALLH	Perchlorate	0.0369	mg/kg	U
21-11279	MD21-01-0229	2–2.5	ALLH	Xylene[1,3-]+Xylene[1,4-]	0.003	mg/kg	U
21-11279	MD21-01-0229	2–2.5	ALLH	Tritium	0.106628	pCi/g	None
21-11279	MD21-01-0229	2–2.5	ALLH	Americium-241	0.0119	pCi/g	U
21-11279	MD21-01-0229	2–2.5	ALLH	Uranium-235	0.043	pCi/g	U
21-11279	MD21-01-0229	2–2.5	ALLH	Trichlorotrifluoroethane	0.0076	mg/kg	U
21-11279	MD21-01-0229	2–2.5	ALLH	Cesium-134	0.00942	pCi/g	U
21-11279	MD21-01-0229	2–2.5	ALLH	Cesium-137	0.0143	pCi/g	U
21-11279	MD21-01-0229	2–2.5	ALLH	Sodium-22	-0.0274	pCi/g	U
21-11279	MD21-01-0229	2–2.5	ALLH	Cobalt-60	-0.00545	pCi/g	U
21-11279	MD21-01-0229	2–2.5	ALLH	Ruthenium-106	0.0282	pCi/g	U
21-11279	MD21-01-0229	2–2.5	ALLH	Europium-152	-0.0178	pCi/g	U
21-11279	MD21-01-0230	3.5–4	Qbt 3	Butylbenzene[tert-]	0.0012	mg/kg	U
21-11279	MD21-01-0230	3.5–4	Qbt 3	Dichloropropane[1,2-]	0.0012	mg/kg	U
21-11279	MD21-01-0230	3.5–4	Qbt 3	Isopropylbenzene	0.0012	mg/kg	U
21-11279	MD21-01-0230	3.5–4	Qbt 3	Bromoform	0.0012	mg/kg	U
21-11279	MD21-01-0230	3.5–4	Qbt 3	Trichlorofluoromethane	0.0012	mg/kg	U
21-11279	MD21-01-0230	3.5–4	Qbt 3	Xylene[1,2-]	0.0012	mg/kg	U
21-11279	MD21-01-0230	3.5–4	Qbt 3	Dichloroethane[1,1-]	0.0012	mg/kg	U
21-11279	MD21-01-0230	3.5–4	Qbt 3	Chlorotoluene[2-]	0.0012	mg/kg	U
21-11279	MD21-01-0230	3.5–4	Qbt 3	Trichloroethane[1,1,1-]	0.0012	mg/kg	U
21-11279	MD21-01-0230	3.5–4	Qbt 3	Chloromethane	0.0012	mg/kg	U
21-11279	MD21-01-0230	3.5–4	Qbt 3	Iodomethane	0.0061	mg/kg	U
21-11279	MD21-01-0230	3.5–4	Qbt 3	Trichloroethene	0.0012	mg/kg	U
21-11279	MD21-01-0230	3.5–4	Qbt 3	Dichlorodifluoromethane	0.0012	mg/kg	U
21-11279	MD21-01-0230	3.5–4	Qbt 3	Bromodichloromethane	0.0012	mg/kg	U
21-11279	MD21-01-0230	3.5–4	Qbt 3	Butanone[2-]	0.0061	mg/kg	U
21-11279	MD21-01-0230	3.5–4	Qbt 3	Chloroethane	0.0012	mg/kg	U
21-11279	MD21-01-0230	3.5–4	Qbt 3	Carbon Disulfide	0.0061	mg/kg	U
21-11279	MD21-01-0230	3.5–4	Qbt 3	Trimethylbenzene[1,2,4-]	0.0012	mg/kg	U
21-11279	MD21-01-0230	3.5–4	Qbt 3	Trichlorotrifluoroethane	0.0061	mg/kg	U
21-11279	MD21-01-0230	3.5–4	Qbt 3	Isopropyltoluene[4-]	0.0012	mg/kg	U
21-11279	MD21-01-0230	3.5–4	Qbt 3	Trichloroethane[1,1,2-]	0.0012	mg/kg	U
21-11279	MD21-01-0230	3.5–4	Qbt 3	Bromochloromethane	0.0012	mg/kg	U
21-11279	MD21-01-0230	3.5–4	Qbt 3	Dibromo-3-Chloropropane[1,2-]	0.0012	mg/kg	U
21-11279	MD21-01-0230	3.5–4	Qbt 3	Dichloroethene[1,1-]	0.0012	mg/kg	U
21-11279	MD21-01-0230	3.5–4	Qbt 3	Dichlorobenzene[1,2-]	0.0012	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11279	MD21-01-0230	3.5–4	Qbt 3	Vinyl Chloride	0.0012	mg/kg	U
21-11279	MD21-01-0230	3.5–4	Qbt 3	Trichloropropane[1,2,3-]	0.0012	mg/kg	U
21-11279	MD21-01-0230	3.5–4	Qbt 3	Perchlorate	0.0367	mg/kg	U
21-11279	MD21-01-0230	3.5–4	Qbt 3	Xylene[1,3-]+Xylene[1,4-]	0.0024	mg/kg	U
21-11279	MD21-01-0230	3.5–4	Qbt 3	Sodium-22	0.0115	pCi/g	U
21-11279	MD21-01-0230	3.5–4	Qbt 3	Cobalt-60	0.00523	pCi/g	U
21-11279	MD21-01-0230	3.5–4	Qbt 3	Cesium-134	0.00705	pCi/g	U
21-11279	MD21-01-0230	3.5–4	Qbt 3	Americium-241	0.00672	pCi/g	U
21-11279	MD21-01-0230	3.5–4	Qbt 3	Iron	5230	mg/kg	None
21-11279	MD21-01-0230	3.5–4	Qbt 3	Ethylbenzene	0.0012	mg/kg	U
21-11279	MD21-01-0230	3.5–4	Qbt 3	Dichlorobenzene[1,3-]	0.0012	mg/kg	U
21-11279	MD21-01-0230	3.5–4	Qbt 3	Dichlorobenzene[1,4-]	0.0012	mg/kg	U
21-11279	MD21-01-0230	3.5–4	Qbt 3	Butylbenzene[sec-]	0.0012	mg/kg	U
21-11279	MD21-01-0230	3.5–4	Qbt 3	Dichloroethane[1,2-]	0.0012	mg/kg	U
21-11279	MD21-01-0230	3.5–4	Qbt 3	Styrene	0.0012	mg/kg	U
21-11279	MD21-01-0230	3.5–4	Qbt 3	Dichloropropane[1,3-]	0.0012	mg/kg	U
21-11279	MD21-01-0230	3.5–4	Qbt 3	Butylbenzene[n-]	0.0012	mg/kg	U
21-11279	MD21-01-0230	3.5–4	Qbt 3	Tetrachloroethene	0.0012	mg/kg	U
21-11279	MD21-01-0230	3.5–4	Qbt 3	Bromobenzene	0.0012	mg/kg	U
21-11279	MD21-01-0230	3.5–4	Qbt 3	Dichloropropene[cis-1,3-]	0.0012	mg/kg	U
21-11279	MD21-01-0230	3.5–4	Qbt 3	Trimethylbenzene[1,3,5-]	0.0012	mg/kg	U
21-11279	MD21-01-0230	3.5–4	Qbt 3	Hexanone[2-]	0.0061	mg/kg	U
21-11279	MD21-01-0230	3.5–4	Qbt 3	Dichloropropene[1,1-]	0.0012	mg/kg	U
21-11279	MD21-01-0230	3.5–4	Qbt 3	Methyl-2-pentanone[4-]	0.0061	mg/kg	U
21-11279	MD21-01-0230	3.5–4	Qbt 3	Chloroform	0.0012	mg/kg	U
21-11279	MD21-01-0230	3.5–4	Qbt 3	Dichloropropane[2,2-]	0.0012	mg/kg	U
21-11279	MD21-01-0230	3.5–4	Qbt 3	Dibromoethane[1,2-]	0.0012	mg/kg	U
21-11279	MD21-01-0230	3.5–4	Qbt 3	Dichloroethene[trans-1,2-]	0.0012	mg/kg	U
21-11279	MD21-01-0230	3.5–4	Qbt 3	Dichloropropene[trans-1,3-]	0.0012	mg/kg	U
21-11279	MD21-01-0230	3.5–4	Qbt 3	Propylbenzene[1-]	0.0012	mg/kg	U
21-11279	MD21-01-0230	3.5–4	Qbt 3	Chlorobenzene	0.0012	mg/kg	U
21-11279	MD21-01-0230	3.5–4	Qbt 3	Benzene	0.0012	mg/kg	U
21-11279	MD21-01-0230	3.5–4	Qbt 3	Chlorodibromomethane	0.0012	mg/kg	U
21-11279	MD21-01-0230	3.5–4	Qbt 3	Chlorotoluene[4-]	0.0012	mg/kg	U
21-11279	MD21-01-0230	3.5–4	Qbt 3	Acetone	0.0258	mg/kg	J
21-11279	MD21-01-0230	3.5–4	Qbt 3	Carbon Tetrachloride	0.0012	mg/kg	U
21-11279	MD21-01-0230	3.5–4	Qbt 3	Tetrachloroethane[1,1,1,2-]	0.0012	mg/kg	U
21-11279	MD21-01-0230	3.5–4	Qbt 3	Dichloroethene[cis-1,2-]	0.0012	mg/kg	U
21-11279	MD21-01-0230	3.5–4	Qbt 3	Toluene	0.0012	mg/kg	U
21-11279	MD21-01-0230	3.5–4	Qbt 3	Bromomethane	0.0012	mg/kg	U
21-11279	MD21-01-0230	3.5–4	Qbt 3	Tetrachloroethane[1,1,2,2-]	0.0012	mg/kg	U
21-11279	MD21-01-0230	3.5–4	Qbt 3	Methylene Chloride	0.0061	mg/kg	U
21-11279	MD21-01-0230	3.5–4	Qbt 3	Dibromomethane	0.0012	mg/kg	U
21-11279	MD21-01-0230	3.5–4	Qbt 3	Europium-152	-0.00328	pCi/g	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11279	MD21-01-0230	3.5–4	Qbt 3	Ruthenium-106	0.192	pCi/g	U
21-11279	MD21-01-0230	3.5–4	Qbt 3	Cesium-137	0.0235	pCi/g	U
21-11279	MD21-01-0230	3.5–4	Qbt 3	Tritium	0.045284	pCi/g	None
21-11279	MD21-01-0230	3.5–4	Qbt 3	Uranium-235	0.278	pCi/g	U
21-11279	MD21-01-0230	3.5–4	Qbt 3	Antimony	0.0241	mg/kg	U
21-11279	MD21-01-0230	3.5–4	Qbt 3	Mercury	0.012	mg/kg	J-
21-11279	MD21-01-0230	3.5–4	Qbt 3	Thallium	0.018	mg/kg	J
21-11279	MD21-01-0230	3.5–4	Qbt 3	Selenium	0.356	mg/kg	U
21-11279	MD21-01-0230	3.5–4	Qbt 3	Calcium	742	mg/kg	J+
21-11279	MD21-01-0230	3.5–4	Qbt 3	Lead	5.35	mg/kg	None
21-11279	MD21-01-0230	3.5–4	Qbt 3	Lithium	6.25	mg/kg	None
21-11279	MD21-01-0230	3.5–4	Qbt 3	Copper	1.7	mg/kg	None
21-11279	MD21-01-0230	3.5–4	Qbt 3	Chromium	2.78	mg/kg	None
21-11279	MD21-01-0230	3.5–4	Qbt 3	Magnesium	426	mg/kg	J+
21-11279	MD21-01-0230	3.5–4	Qbt 3	Zinc	33.7	mg/kg	None
21-11279	MD21-01-0230	3.5–4	Qbt 3	Strontium	6.01	mg/kg	None
21-11279	MD21-01-0230	3.5–4	Qbt 3	Vanadium	4.1	mg/kg	None
21-11279	MD21-01-0230	3.5–4	Qbt 3	Silver	0.001	mg/kg	U
21-11279	MD21-01-0230	3.5–4	Qbt 3	Barium	22.1	mg/kg	J+
21-11279	MD21-01-0230	3.5–4	Qbt 3	Sodium	113	mg/kg	None
21-11279	MD21-01-0230	3.5–4	Qbt 3	Beryllium	0.232	mg/kg	None
21-11279	MD21-01-0230	3.5–4	Qbt 3	Aluminum	2210	mg/kg	None
21-11279	MD21-01-0230	3.5–4	Qbt 3	Nickel	2.3	mg/kg	None
21-11279	MD21-01-0230	3.5–4	Qbt 3	Cobalt	0.749	mg/kg	None
21-11279	MD21-01-0230	3.5–4	Qbt 3	Arsenic	1.78	mg/kg	None
21-11279	MD21-01-0230	3.5–4	Qbt 3	Manganese	185	mg/kg	None
21-11279	MD21-01-0230	3.5–4	Qbt 3	Potassium	285	mg/kg	J+
21-11279	MD21-01-0230	3.5–4	Qbt 3	Cadmium	0.042	mg/kg	U
21-11279	MD21-03-50296	2–2.5	Qbt 3	Plutonium-238	1.38E-09	pCi/g	U
21-11279	MD21-03-50296	2–2.5	Qbt 3	Plutonium-239	0.0116	pCi/g	U
21-11279	MD21-03-50297	3.5–4	Qbt 3	Plutonium-238	-0.00213	pCi/g	U
21-11279	MD21-03-50297	3.5–4	Qbt 3	Plutonium-239	0.0191	pCi/g	U
21-11280	MD21-01-0231	3–3.5	ALLH	Dichloroethane[1,1-]	0.0013	mg/kg	U
21-11280	MD21-01-0231	3–3.5	ALLH	Dichloroethene[1,1-]	0.0013	mg/kg	U
21-11280	MD21-01-0231	3–3.5	ALLH	Trichlorofluoromethane	0.0013	mg/kg	U
21-11280	MD21-01-0231	3–3.5	ALLH	Dichlorodifluoromethane	0.0013	mg/kg	U
21-11280	MD21-01-0231	3–3.5	ALLH	Trichlorotrifluoroethane	0.0066	mg/kg	U
21-11280	MD21-01-0231	3–3.5	ALLH	Dichloropropane[1,2-]	0.0013	mg/kg	U
21-11280	MD21-01-0231	3–3.5	ALLH	Butanone[2-]	0.0066	mg/kg	U
21-11280	MD21-01-0231	3–3.5	ALLH	Trichloroethane[1,1,2-]	0.0013	mg/kg	U
21-11280	MD21-01-0231	3–3.5	ALLH	Bromochloromethane	0.0013	mg/kg	U
21-11280	MD21-01-0231	3–3.5	ALLH	Chloroethane	0.0013	mg/kg	U
21-11280	MD21-01-0231	3–3.5	ALLH	Vinyl Chloride	0.0013	mg/kg	U
21-11280	MD21-01-0231	3–3.5	ALLH	Methylene Chloride	0.0066	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11280	MD21-01-0231	3–3.5	ALLH	Carbon Disulfide	0.0066	mg/kg	U
21-11280	MD21-01-0231	3–3.5	ALLH	Bromoform	0.0013	mg/kg	U
21-11280	MD21-01-0231	3–3.5	ALLH	Bromodichloromethane	0.0013	mg/kg	U
21-11280	MD21-01-0231	3–3.5	ALLH	Trichloroethene	0.0013	mg/kg	U
21-11280	MD21-01-0231	3–3.5	ALLH	Tetrachloroethane[1,1,2,2-]	0.0013	mg/kg	U
21-11280	MD21-01-0231	3–3.5	ALLH	Xylene[1,2-]	0.0013	mg/kg	U
21-11280	MD21-01-0231	3–3.5	ALLH	Chlorotoluene[2-]	0.0013	mg/kg	U
21-11280	MD21-01-0231	3–3.5	ALLH	Dichlorobenzene[1,2-]	0.0013	mg/kg	U
21-11280	MD21-01-0231	3–3.5	ALLH	Trimethylbenzene[1,2,4-]	0.0013	mg/kg	U
21-11280	MD21-01-0231	3–3.5	ALLH	Dibromo-3-Chloropropane[1,2-]	0.0013	mg/kg	U
21-11280	MD21-01-0231	3–3.5	ALLH	Trichloropropane[1,2,3-]	0.0013	mg/kg	U
21-11280	MD21-01-0231	3–3.5	ALLH	Butylbenzene[tert-]	0.0013	mg/kg	U
21-11280	MD21-01-0231	3–3.5	ALLH	Isopropylbenzene	0.0013	mg/kg	U
21-11280	MD21-01-0231	3–3.5	ALLH	Isopropyltoluene[4-]	0.0013	mg/kg	U
21-11280	MD21-01-0231	3–3.5	ALLH	Acetone	0.047	mg/kg	J
21-11280	MD21-01-0231	3–3.5	ALLH	Trimethylbenzene[1,3,5-]	0.0013	mg/kg	U
21-11280	MD21-01-0231	3–3.5	ALLH	Dichloropropene[cis-1,3-]	0.0013	mg/kg	U
21-11280	MD21-01-0231	3–3.5	ALLH	Dichlorobenzene[1,4-]	0.0013	mg/kg	U
21-11280	MD21-01-0231	3–3.5	ALLH	Chlorodibromomethane	0.0013	mg/kg	U
21-11280	MD21-01-0231	3–3.5	ALLH	Dichloropropane[1,3-]	0.0013	mg/kg	U
21-11280	MD21-01-0231	3–3.5	ALLH	Dichloroethene[cis-1,2-]	0.0013	mg/kg	U
21-11280	MD21-01-0231	3–3.5	ALLH	Dichloropropene[1,1-]	0.0013	mg/kg	U
21-11280	MD21-01-0231	3–3.5	ALLH	Hexanone[2-]	0.0066	mg/kg	U
21-11280	MD21-01-0231	3–3.5	ALLH	Dichloropropane[2,2-]	0.0013	mg/kg	U
21-11280	MD21-01-0231	3–3.5	ALLH	Benzene	0.0013	mg/kg	U
21-11280	MD21-01-0231	3–3.5	ALLH	Chloromethane	0.0013	mg/kg	U
21-11280	MD21-01-0231	3–3.5	ALLH	Dichloroethane[1,2-]	0.0013	mg/kg	U
21-11280	MD21-01-0231	3–3.5	ALLH	Butylbenzene[n-]	0.0013	mg/kg	U
21-11280	MD21-01-0231	3–3.5	ALLH	Tetrachloroethene	0.0013	mg/kg	U
21-11280	MD21-01-0231	3–3.5	ALLH	Iodomethane	0.0066	mg/kg	U
21-11280	MD21-01-0231	3–3.5	ALLH	Chlorotoluene[4-]	0.0013	mg/kg	U
21-11280	MD21-01-0231	3–3.5	ALLH	Chlorobenzene	0.0013	mg/kg	U
21-11280	MD21-01-0231	3–3.5	ALLH	Dichlorobenzene[1,3-]	0.0013	mg/kg	U
21-11280	MD21-01-0231	3–3.5	ALLH	Carbon Tetrachloride	0.0013	mg/kg	U
21-11280	MD21-01-0231	3–3.5	ALLH	Tetrachloroethane[1,1,1,2-]	0.0013	mg/kg	U
21-11280	MD21-01-0231	3–3.5	ALLH	Bromobenzene	0.0013	mg/kg	U
21-11280	MD21-01-0231	3–3.5	ALLH	Dibromomethane	0.0013	mg/kg	U
21-11280	MD21-01-0231	3–3.5	ALLH	Propylbenzene[1-]	0.0013	mg/kg	U
21-11280	MD21-01-0231	3–3.5	ALLH	Butylbenzene[sec-]	0.0013	mg/kg	U
21-11280	MD21-01-0231	3–3.5	ALLH	Bromomethane	0.0013	mg/kg	U
21-11280	MD21-01-0231	3–3.5	ALLH	Dichloropropene[trans-1,3-]	0.0013	mg/kg	U
21-11280	MD21-01-0231	3–3.5	ALLH	Methyl-2-pentanone[4-]	0.0066	mg/kg	U
21-11280	MD21-01-0231	3–3.5	ALLH	Chloroform	0.0013	mg/kg	U
21-11280	MD21-01-0231	3–3.5	ALLH	Dichloroethene[trans-1,2-]	0.0013	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11280	MD21-01-0231	3–3.5	ALLH	Dibromoethane[1,2-]	0.0013	mg/kg	U
21-11280	MD21-01-0231	3–3.5	ALLH	Toluene	0.0013	mg/kg	U
21-11280	MD21-01-0231	3–3.5	ALLH	Trichloroethane[1,1,1-]	0.0013	mg/kg	U
21-11280	MD21-01-0231	3–3.5	ALLH	Nickel	3.88	mg/kg	None
21-11280	MD21-01-0231	3–3.5	ALLH	Aluminum	9580	mg/kg	None
21-11280	MD21-01-0231	3–3.5	ALLH	Iron	9420	mg/kg	None
21-11280	MD21-01-0231	3–3.5	ALLH	Silver	0.001	mg/kg	U
21-11280	MD21-01-0231	3–3.5	ALLH	Lithium	5.96	mg/kg	None
21-11280	MD21-01-0231	3–3.5	ALLH	Arsenic	2.62	mg/kg	None
21-11280	MD21-01-0231	3–3.5	ALLH	Barium	89.9	mg/kg	J+
21-11280	MD21-01-0231	3–3.5	ALLH	Beryllium	0.403	mg/kg	None
21-11280	MD21-01-0231	3–3.5	ALLH	Chromium	8.48	mg/kg	None
21-11280	MD21-01-0231	3–3.5	ALLH	Manganese	257	mg/kg	None
21-11280	MD21-01-0231	3–3.5	ALLH	Zinc	27.3	mg/kg	None
21-11280	MD21-01-0231	3–3.5	ALLH	Cobalt	3.29	mg/kg	None
21-11280	MD21-01-0231	3–3.5	ALLH	Potassium	1020	mg/kg	J+
21-11280	MD21-01-0231	3–3.5	ALLH	Thallium	0.117	mg/kg	None
21-11280	MD21-01-0231	3–3.5	ALLH	Mercury	0.072	mg/kg	J-
21-11280	MD21-01-0231	3–3.5	ALLH	Lead	20.3	mg/kg	None
21-11280	MD21-01-0231	3–3.5	ALLH	Copper	4.2	mg/kg	None
21-11280	MD21-01-0231	3–3.5	ALLH	Strontium	24.7	mg/kg	None
21-11280	MD21-01-0231	3–3.5	ALLH	Vanadium	14.8	mg/kg	None
21-11280	MD21-01-0231	3–3.5	ALLH	Selenium	0.331	mg/kg	U
21-11280	MD21-01-0231	3–3.5	ALLH	Sodium	107	mg/kg	None
21-11280	MD21-01-0231	3–3.5	ALLH	Magnesium	1520	mg/kg	J+
21-11280	MD21-01-0231	3–3.5	ALLH	Calcium	3470	mg/kg	J+
21-11280	MD21-01-0231	3–3.5	ALLH	Cadmium	0.04	mg/kg	U
21-11280	MD21-01-0231	3–3.5	ALLH	Styrene	0.0013	mg/kg	U
21-11280	MD21-01-0231	3–3.5	ALLH	Perchlorate	0.0379	mg/kg	U
21-11280	MD21-01-0231	3–3.5	ALLH	Xylene[1,3-]+Xylene[1,4-]	0.0026	mg/kg	U
21-11280	MD21-01-0231	3–3.5	ALLH	Cesium-137	-0.0174	pCi/g	U
21-11280	MD21-01-0231	3–3.5	ALLH	Cobalt-60	0.0481	pCi/g	U
21-11280	MD21-01-0231	3–3.5	ALLH	Tritium	0.106288	pCi/g	None
21-11280	MD21-01-0231	3–3.5	ALLH	Europium-152	-0.00757	pCi/g	U
21-11280	MD21-01-0231	3–3.5	ALLH	Ruthenium-106	0.0266	pCi/g	U
21-11280	MD21-01-0231	3–3.5	ALLH	Sodium-22	0.0136	pCi/g	U
21-11280	MD21-01-0231	3–3.5	ALLH	Uranium-235	0.0998	pCi/g	U
21-11280	MD21-01-0231	3–3.5	ALLH	Cesium-134	-0.00779	pCi/g	U
21-11280	MD21-01-0231	3–3.5	ALLH	Americium-241	0.0147	pCi/g	U
21-11280	MD21-01-0231	3–3.5	ALLH	Ethylbenzene	0.0013	mg/kg	U
21-11280	MD21-01-0231	3–3.5	ALLH	Antimony	0.039	mg/kg	U
21-11280	MD21-01-0232	4.5–5	Qbt 3	Ethylbenzene	0.0012	mg/kg	U
21-11280	MD21-01-0232	4.5–5	Qbt 3	Styrene	0.0012	mg/kg	U
21-11280	MD21-01-0232	4.5–5	Qbt 3	Dichloropropene[cis-1,3-]	0.0012	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11280	MD21-01-0232	4.5–5	Qbt 3	Dichloropropene[trans-1,3-]	0.0012	mg/kg	U
21-11280	MD21-01-0232	4.5–5	Qbt 3	Propylbenzene[1-]	0.0012	mg/kg	U
21-11280	MD21-01-0232	4.5–5	Qbt 3	Butylbenzene[n-]	0.0012	mg/kg	U
21-11280	MD21-01-0232	4.5–5	Qbt 3	Chlorotoluene[4-]	0.0012	mg/kg	U
21-11280	MD21-01-0232	4.5–5	Qbt 3	Dichloroethane[1,1-]	0.0012	mg/kg	U
21-11280	MD21-01-0232	4.5–5	Qbt 3	Dichloroethene[1,1-]	0.0012	mg/kg	U
21-11280	MD21-01-0232	4.5–5	Qbt 3	Trichlorofluoromethane	0.0012	mg/kg	U
21-11280	MD21-01-0232	4.5–5	Qbt 3	Trichlorotrifluoroethane	0.0062	mg/kg	U
21-11280	MD21-01-0232	4.5–5	Qbt 3	Trichloroethene	0.0012	mg/kg	U
21-11280	MD21-01-0232	4.5–5	Qbt 3	Xylene[1,2-]	0.0012	mg/kg	U
21-11280	MD21-01-0232	4.5–5	Qbt 3	Chlorotoluene[2-]	0.0012	mg/kg	U
21-11280	MD21-01-0232	4.5–5	Qbt 3	Tetrachloroethane[1,1,2,2-]	0.0012	mg/kg	U
21-11280	MD21-01-0232	4.5–5	Qbt 3	Dichlorodifluoromethane	0.0012	mg/kg	U
21-11280	MD21-01-0232	4.5–5	Qbt 3	Butanone[2-]	0.0062	mg/kg	U
21-11280	MD21-01-0232	4.5–5	Qbt 3	Trichloroethane[1,1,2-]	0.0012	mg/kg	U
21-11280	MD21-01-0232	4.5–5	Qbt 3	Bromodichloromethane	0.0012	mg/kg	U
21-11280	MD21-01-0232	4.5–5	Qbt 3	Dichloropropane[1,2-]	0.0012	mg/kg	U
21-11280	MD21-01-0232	4.5–5	Qbt 3	Dibromo-3-Chloropropane[1,2-]	0.0012	mg/kg	U
21-11280	MD21-01-0232	4.5–5	Qbt 3	Isopropyltoluene[4-]	0.0012	mg/kg	U
21-11280	MD21-01-0232	4.5–5	Qbt 3	Bromoform	0.0012	mg/kg	U
21-11280	MD21-01-0232	4.5–5	Qbt 3	Dichlorobenzene[1,2-]	0.0012	mg/kg	U
21-11280	MD21-01-0232	4.5–5	Qbt 3	Butylbenzene[tert-]	0.0012	mg/kg	U
21-11280	MD21-01-0232	4.5–5	Qbt 3	Trichloropropane[1,2,3-]	0.0012	mg/kg	U
21-11280	MD21-01-0232	4.5–5	Qbt 3	Isopropylbenzene	0.0012	mg/kg	U
21-11280	MD21-01-0232	4.5–5	Qbt 3	Trimethylbenzene[1,2,4-]	0.0012	mg/kg	U
21-11280	MD21-01-0232	4.5–5	Qbt 3	Acetone	0.0124	mg/kg	J
21-11280	MD21-01-0232	4.5–5	Qbt 3	Dichlorobenzene[1,3-]	0.0012	mg/kg	U
21-11280	MD21-01-0232	4.5–5	Qbt 3	Dichloroethane[1,2-]	0.0012	mg/kg	U
21-11280	MD21-01-0232	4.5–5	Qbt 3	Chlorobenzene	0.0012	mg/kg	U
21-11280	MD21-01-0232	4.5–5	Qbt 3	Toluene	0.0012	mg/kg	U
21-11280	MD21-01-0232	4.5–5	Qbt 3	Bromochloromethane	0.0012	mg/kg	U
21-11280	MD21-01-0232	4.5–5	Qbt 3	Chloroform	0.0012	mg/kg	U
21-11280	MD21-01-0232	4.5–5	Qbt 3	Chloroethane	0.0012	mg/kg	U
21-11280	MD21-01-0232	4.5–5	Qbt 3	Dichloropropane[1,3-]	0.0012	mg/kg	U
21-11280	MD21-01-0232	4.5–5	Qbt 3	Dichloropropene[1,1-]	0.0012	mg/kg	U
21-11280	MD21-01-0232	4.5–5	Qbt 3	Iodomethane	0.0062	mg/kg	U
21-11280	MD21-01-0232	4.5–5	Qbt 3	Bromobenzene	0.0012	mg/kg	U
21-11280	MD21-01-0232	4.5–5	Qbt 3	Carbon Tetrachloride	0.0012	mg/kg	U
21-11280	MD21-01-0232	4.5–5	Qbt 3	Butylbenzene[sec-]	0.0012	mg/kg	U
21-11280	MD21-01-0232	4.5–5	Qbt 3	Hexanone[2-]	0.0062	mg/kg	U
21-11280	MD21-01-0232	4.5–5	Qbt 3	Methyl-2-pentanone[4-]	0.0062	mg/kg	U
21-11280	MD21-01-0232	4.5–5	Qbt 3	Dichloroethene[trans-1,2-]	0.0012	mg/kg	U
21-11280	MD21-01-0232	4.5–5	Qbt 3	Tetrachloroethane[1,1,1,2-]	0.0012	mg/kg	U
21-11280	MD21-01-0232	4.5–5	Qbt 3	Tetrachloroethene	0.0012	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11280	MD21-01-0232	4.5–5	Qbt 3	Chloromethane	0.0012	mg/kg	U
21-11280	MD21-01-0232	4.5–5	Qbt 3	Benzene	0.0012	mg/kg	U
21-11280	MD21-01-0232	4.5–5	Qbt 3	Dibromoethane[1,2-]	0.0012	mg/kg	U
21-11280	MD21-01-0232	4.5–5	Qbt 3	Methylene Chloride	0.0062	mg/kg	U
21-11280	MD21-01-0232	4.5–5	Qbt 3	Carbon Disulfide	0.0062	mg/kg	U
21-11280	MD21-01-0232	4.5–5	Qbt 3	Trimethylbenzene[1,3,5-]	0.0012	mg/kg	U
21-11280	MD21-01-0232	4.5–5	Qbt 3	Beryllium	0.208	mg/kg	None
21-11280	MD21-01-0232	4.5–5	Qbt 3	Manganese	169	mg/kg	None
21-11280	MD21-01-0232	4.5–5	Qbt 3	Nickel	6.59	mg/kg	None
21-11280	MD21-01-0232	4.5–5	Qbt 3	Dichlorobenzene[1,4-]	0.0012	mg/kg	U
21-11280	MD21-01-0232	4.5–5	Qbt 3	Bromomethane	0.0012	mg/kg	U
21-11280	MD21-01-0232	4.5–5	Qbt 3	Sodium	90.8	mg/kg	None
21-11280	MD21-01-0232	4.5–5	Qbt 3	Lithium	5.78	mg/kg	None
21-11280	MD21-01-0232	4.5–5	Qbt 3	Iron	7490	mg/kg	None
21-11280	MD21-01-0232	4.5–5	Qbt 3	Lead	10.2	mg/kg	None
21-11280	MD21-01-0232	4.5–5	Qbt 3	Potassium	743	mg/kg	J+
21-11280	MD21-01-0232	4.5–5	Qbt 3	Cadmium	0.04	mg/kg	U
21-11280	MD21-01-0232	4.5–5	Qbt 3	Mercury	0.033	mg/kg	J-
21-11280	MD21-01-0232	4.5–5	Qbt 3	Arsenic	2.87	mg/kg	None
21-11280	MD21-01-0232	4.5–5	Qbt 3	Vinyl Chloride	0.0012	mg/kg	U
21-11280	MD21-01-0232	4.5–5	Qbt 3	Trichloroethane[1,1,1-]	0.0012	mg/kg	U
21-11280	MD21-01-0232	4.5–5	Qbt 3	Dibromomethane	0.0012	mg/kg	U
21-11280	MD21-01-0232	4.5–5	Qbt 3	Chlorodibromomethane	0.0012	mg/kg	U
21-11280	MD21-01-0232	4.5–5	Qbt 3	Calcium	3990	mg/kg	J+
21-11280	MD21-01-0232	4.5–5	Qbt 3	Chromium	8.89	mg/kg	None
21-11280	MD21-01-0232	4.5–5	Qbt 3	Cobalt	1.23	mg/kg	None
21-11280	MD21-01-0232	4.5–5	Qbt 3	Perchlorate	0.037	mg/kg	U
21-11280	MD21-01-0232	4.5–5	Qbt 3	Xylene[1,3-]+Xylene[1,4-]	0.0025	mg/kg	U
21-11280	MD21-01-0232	4.5–5	Qbt 3	Europium-152	0.00326	pCi/g	U
21-11280	MD21-01-0232	4.5–5	Qbt 3	Cobalt-60	-0.0423	pCi/g	U
21-11280	MD21-01-0232	4.5–5	Qbt 3	Americium-241	0.00723	pCi/g	U
21-11280	MD21-01-0232	4.5–5	Qbt 3	Cesium-137	-0.00506	pCi/g	U
21-11280	MD21-01-0232	4.5–5	Qbt 3	Sodium-22	0.0229	pCi/g	U
21-11280	MD21-01-0232	4.5–5	Qbt 3	Ruthenium-106	-0.0897	pCi/g	U
21-11280	MD21-01-0232	4.5–5	Qbt 3	Dichloropropane[2,2-]	0.0012	mg/kg	U
21-11280	MD21-01-0232	4.5–5	Qbt 3	Dichloroethene[cis-1,2-]	0.0012	mg/kg	U
21-11280	MD21-01-0232	4.5–5	Qbt 3	Barium	117	mg/kg	J+
21-11280	MD21-01-0232	4.5–5	Qbt 3	Strontium	19.4	mg/kg	None
21-11280	MD21-01-0232	4.5–5	Qbt 3	Silver	0.001	mg/kg	U
21-11280	MD21-01-0232	4.5–5	Qbt 3	Thallium	0.178	mg/kg	None
21-11280	MD21-01-0232	4.5–5	Qbt 3	Aluminum	6970	mg/kg	None
21-11280	MD21-01-0232	4.5–5	Qbt 3	Magnesium	1130	mg/kg	J+
21-11280	MD21-01-0232	4.5–5	Qbt 3	Cesium-134	0.0162	pCi/g	U
21-11280	MD21-01-0232	4.5–5	Qbt 3	Antimony	0.0345	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11280	MD21-01-0232	4.5–5	Qbt 3	Selenium	0.331	mg/kg	U
21-11280	MD21-01-0232	4.5–5	Qbt 3	Zinc	41.4	mg/kg	None
21-11280	MD21-01-0232	4.5–5	Qbt 3	Vanadium	9.34	mg/kg	None
21-11280	MD21-01-0232	4.5–5	Qbt 3	Copper	3.85	mg/kg	None
21-11280	MD21-01-0232	4.5–5	Qbt 3	Tritium	0.03543	pCi/g	U
21-11280	MD21-01-0232	4.5–5	Qbt 3	Uranium-235	-0.0246	pCi/g	U
21-11280	MD21-03-50292	1.5–2	Qbt 3	Plutonium-238	0.00151	pCi/g	U
21-11280	MD21-03-50292	1.5–2	Qbt 3	Plutonium-239	7.18E-10	pCi/g	U
21-11280	MD21-03-50295	3–3.5	Qbt 3	Plutonium-238	-0.00187	pCi/g	U
21-11280	MD21-03-50295	3–3.5	Qbt 3	Plutonium-239	-0.00748	pCi/g	U
21-11281	MD21-01-0234	5.5–6	ALLH	Aluminum	1570	mg/kg	None
21-11281	MD21-01-0234	5.5–6	ALLH	Calcium	1110	mg/kg	J+
21-11281	MD21-01-0234	5.5–6	ALLH	Iron	4350	mg/kg	None
21-11281	MD21-01-0234	5.5–6	ALLH	Lead	8.58	mg/kg	None
21-11281	MD21-01-0234	5.5–6	ALLH	Sodium	97.3	mg/kg	None
21-11281	MD21-01-0234	5.5–6	ALLH	Manganese	235	mg/kg	None
21-11281	MD21-01-0234	5.5–6	ALLH	Strontium	5.35	mg/kg	None
21-11281	MD21-01-0234	5.5–6	ALLH	Mercury	0.448	mg/kg	J-
21-11281	MD21-01-0234	5.5–6	ALLH	Selenium	0.361	mg/kg	U
21-11281	MD21-01-0234	5.5–6	ALLH	Silver	0.001	mg/kg	U
21-11281	MD21-01-0234	5.5–6	ALLH	Copper	1.41	mg/kg	None
21-11281	MD21-01-0234	5.5–6	ALLH	Arsenic	2.1	mg/kg	None
21-11281	MD21-01-0234	5.5–6	ALLH	Magnesium	401	mg/kg	J+
21-11281	MD21-01-0234	5.5–6	ALLH	Nickel	4.42	mg/kg	None
21-11281	MD21-01-0234	5.5–6	ALLH	Chromium	2.72	mg/kg	None
21-11281	MD21-01-0234	5.5–6	ALLH	Thallium	0.106	mg/kg	None
21-11281	MD21-01-0234	5.5–6	ALLH	Vanadium	3.67	mg/kg	None
21-11281	MD21-01-0234	5.5–6	ALLH	Chloroethane	0.0012	mg/kg	U
21-11281	MD21-01-0234	5.5–6	ALLH	Benzene	0.0012	mg/kg	U
21-11281	MD21-01-0234	5.5–6	ALLH	Acetone	0.048	mg/kg	J
21-11281	MD21-01-0234	5.5–6	ALLH	Dichloroethene[cis-1,2-]	0.0012	mg/kg	U
21-11281	MD21-01-0234	5.5–6	ALLH	Hexanone[2-]	0.0061	mg/kg	U
21-11281	MD21-01-0234	5.5–6	ALLH	Dichloroethene[1,1-]	0.0012	mg/kg	U
21-11281	MD21-01-0234	5.5–6	ALLH	Bromochloromethane	0.0012	mg/kg	U
21-11281	MD21-01-0234	5.5–6	ALLH	Carbon Disulfide	0.0061	mg/kg	U
21-11281	MD21-01-0234	5.5–6	ALLH	Trichlorofluoromethane	0.0012	mg/kg	U
21-11281	MD21-01-0234	5.5–6	ALLH	Ethylbenzene	0.0012	mg/kg	U
21-11281	MD21-01-0234	5.5–6	ALLH	Dichloroethane[1,1-]	0.0012	mg/kg	U
21-11281	MD21-01-0234	5.5–6	ALLH	Bromoform	0.0012	mg/kg	U
21-11281	MD21-01-0234	5.5–6	ALLH	Dichloropropene[trans-1,3-]	0.0012	mg/kg	U
21-11281	MD21-01-0234	5.5–6	ALLH	Iodomethane	0.0061	mg/kg	U
21-11281	MD21-01-0234	5.5–6	ALLH	Trichloroethene	0.0012	mg/kg	U
21-11281	MD21-01-0234	5.5–6	ALLH	Dichlorobenzene[1,3-]	0.0012	mg/kg	U
21-11281	MD21-01-0234	5.5–6	ALLH	Trimethylbenzene[1,3,5-]	0.0012	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11281	MD21-01-0234	5.5–6	ALLH	Bromodichloromethane	0.0012	mg/kg	U
21-11281	MD21-01-0234	5.5–6	ALLH	Dibromoethane[1,2-]	0.0012	mg/kg	U
21-11281	MD21-01-0234	5.5–6	ALLH	Vinyl Chloride	0.0012	mg/kg	U
21-11281	MD21-01-0234	5.5–6	ALLH	Chlorotoluene[4-]	0.0012	mg/kg	U
21-11281	MD21-01-0234	5.5–6	ALLH	Butanone[2-]	0.0047	mg/kg	J
21-11281	MD21-01-0234	5.5–6	ALLH	Dichloropropene[cis-1,3-]	0.0012	mg/kg	U
21-11281	MD21-01-0234	5.5–6	ALLH	Methyl-2-pentanone[4-]	0.0061	mg/kg	U
21-11281	MD21-01-0234	5.5–6	ALLH	Methylene Chloride	0.0061	mg/kg	U
21-11281	MD21-01-0234	5.5–6	ALLH	Dichlorobenzene[1,4-]	0.0012	mg/kg	U
21-11281	MD21-01-0234	5.5–6	ALLH	Tetrachloroethene	0.0012	mg/kg	U
21-11281	MD21-01-0234	5.5–6	ALLH	Butylbenzene[n-]	0.0012	mg/kg	U
21-11281	MD21-01-0234	5.5–6	ALLH	Dibromomethane	0.0012	mg/kg	U
21-11281	MD21-01-0234	5.5–6	ALLH	Trichlorotrifluoroethane	0.0061	mg/kg	U
21-11281	MD21-01-0234	5.5–6	ALLH	Chlorobenzene	0.0012	mg/kg	U
21-11281	MD21-01-0234	5.5–6	ALLH	Bromobenzene	0.0012	mg/kg	U
21-11281	MD21-01-0234	5.5–6	ALLH	Propylbenzene[1-]	0.0012	mg/kg	U
21-11281	MD21-01-0234	5.5–6	ALLH	Perchlorate	0.0375	mg/kg	U
21-11281	MD21-01-0234	5.5–6	ALLH	Xylene[1,3-]+Xylene[1,4-]	0.0024	mg/kg	U
21-11281	MD21-01-0234	5.5–6	ALLH	Cobalt-60	0.0174	pCi/g	U
21-11281	MD21-01-0234	5.5–6	ALLH	Ruthenium-106	0.262	pCi/g	U
21-11281	MD21-01-0234	5.5–6	ALLH	Cesium-134	0.0291	pCi/g	U
21-11281	MD21-01-0234	5.5–6	ALLH	Sodium-22	0.00524	pCi/g	U
21-11281	MD21-01-0234	5.5–6	ALLH	Cesium-137	0.0403	pCi/g	U
21-11281	MD21-01-0234	5.5–6	ALLH	Europium-152	-0.0518	pCi/g	U
21-11281	MD21-01-0234	5.5–6	ALLH	Uranium-235	0.0825	pCi/g	U
21-11281	MD21-01-0234	5.5–6	ALLH	Americium-241	0.0243	pCi/g	U
21-11281	MD21-01-0234	5.5–6	ALLH	Dichloroethane[1,2-]	0.0012	mg/kg	U
21-11281	MD21-01-0234	5.5–6	ALLH	Chlorodibromomethane	0.0012	mg/kg	U
21-11281	MD21-01-0234	5.5–6	ALLH	Tritium	0.072462	pCi/g	None
21-11281	MD21-01-0234	5.5–6	ALLH	Antimony	0.101	mg/kg	J-
21-11281	MD21-01-0234	5.5–6	ALLH	Dibromo-3-Chloropropane[1,2-]	0.0012	mg/kg	U
21-11281	MD21-01-0234	5.5–6	ALLH	Butylbenzene[tert-]	0.0012	mg/kg	U
21-11281	MD21-01-0234	5.5–6	ALLH	Trimethylbenzene[1,2,4-]	0.0012	mg/kg	U
21-11281	MD21-01-0234	5.5–6	ALLH	Trichloropropane[1,2,3-]	0.0012	mg/kg	U
21-11281	MD21-01-0234	5.5–6	ALLH	Xylene[1,2-]	0.0012	mg/kg	U
21-11281	MD21-01-0234	5.5–6	ALLH	Isopropyltoluene[4-]	0.0012	mg/kg	U
21-11281	MD21-01-0234	5.5–6	ALLH	Isopropylbenzene	0.0012	mg/kg	U
21-11281	MD21-01-0234	5.5–6	ALLH	Tetrachloroethane[1,1,2,2-]	0.0012	mg/kg	U
21-11281	MD21-01-0234	5.5–6	ALLH	Chlorotoluene[2-]	0.0012	mg/kg	U
21-11281	MD21-01-0234	5.5–6	ALLH	Dichlorobenzene[1,2-]	0.0012	mg/kg	U
21-11281	MD21-01-0234	5.5–6	ALLH	Cadmium	0.043	mg/kg	U
21-11281	MD21-01-0234	5.5–6	ALLH	Cobalt	0.574	mg/kg	None
21-11281	MD21-01-0234	5.5–6	ALLH	Zinc	43.5	mg/kg	None
21-11281	MD21-01-0234	5.5–6	ALLH	Potassium	279	mg/kg	J+

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11281	MD21-01-0234	5.5–6	ALLH	Beryllium	0.504	mg/kg	None
21-11281	MD21-01-0234	5.5–6	ALLH	Barium	22.7	mg/kg	J+
21-11281	MD21-01-0234	5.5–6	ALLH	Lithium	7.44	mg/kg	None
21-11281	MD21-01-0234	5.5–6	ALLH	Chloroform	0.0012	mg/kg	U
21-11281	MD21-01-0234	5.5–6	ALLH	Tetrachloroethane[1,1,1,2-]	0.0012	mg/kg	U
21-11281	MD21-01-0234	5.5–6	ALLH	Toluene	0.0012	mg/kg	U
21-11281	MD21-01-0234	5.5–6	ALLH	Dichloropropene[1,1-]	0.0012	mg/kg	U
21-11281	MD21-01-0234	5.5–6	ALLH	Carbon Tetrachloride	0.0012	mg/kg	U
21-11281	MD21-01-0234	5.5–6	ALLH	Trichloroethane[1,1,1-]	0.0012	mg/kg	U
21-11281	MD21-01-0234	5.5–6	ALLH	Dichloropropane[1,2-]	0.0012	mg/kg	U
21-11281	MD21-01-0234	5.5–6	ALLH	Chloromethane	0.0012	mg/kg	U
21-11281	MD21-01-0234	5.5–6	ALLH	Bromomethane	0.0012	mg/kg	U
21-11281	MD21-01-0234	5.5–6	ALLH	Butylbenzene[sec-]	0.0012	mg/kg	U
21-11281	MD21-01-0234	5.5–6	ALLH	Trichloroethane[1,1,2-]	0.0012	mg/kg	U
21-11281	MD21-01-0234	5.5–6	ALLH	Dichloropropane[1,3-]	0.0012	mg/kg	U
21-11281	MD21-01-0234	5.5–6	ALLH	Dichlorodifluoromethane	0.0012	mg/kg	U
21-11281	MD21-01-0234	5.5–6	ALLH	Dichloropropane[2,2-]	0.0012	mg/kg	U
21-11281	MD21-01-0234	5.5–6	ALLH	Dichloroethene[trans-1,2-]	0.0012	mg/kg	U
21-11281	MD21-01-0234	5.5–6	ALLH	Styrene	0.0012	mg/kg	U
21-11281	MD21-01-0235	7–7.5	Qbt 3	Lead	8.6	mg/kg	None
21-11281	MD21-01-0235	7–7.5	Qbt 3	Arsenic	3.26	mg/kg	None
21-11281	MD21-01-0235	7–7.5	Qbt 3	Cadmium	0.042	mg/kg	U
21-11281	MD21-01-0235	7–7.5	Qbt 3	Calcium	3160	mg/kg	J+
21-11281	MD21-01-0235	7–7.5	Qbt 3	Vanadium	11.9	mg/kg	None
21-11281	MD21-01-0235	7–7.5	Qbt 3	Selenium	0.349	mg/kg	U
21-11281	MD21-01-0235	7–7.5	Qbt 3	Manganese	185	mg/kg	None
21-11281	MD21-01-0235	7–7.5	Qbt 3	Potassium	990	mg/kg	J+
21-11281	MD21-01-0235	7–7.5	Qbt 3	Magnesium	1670	mg/kg	J+
21-11281	MD21-01-0235	7–7.5	Qbt 3	Beryllium	0.11	mg/kg	None
21-11281	MD21-01-0235	7–7.5	Qbt 3	Silver	0.001	mg/kg	U
21-11281	MD21-01-0235	7–7.5	Qbt 3	Mercury	0.007	mg/kg	J-
21-11281	MD21-01-0235	7–7.5	Qbt 3	Sodium	107	mg/kg	None
21-11281	MD21-01-0235	7–7.5	Qbt 3	Strontium	21.3	mg/kg	None
21-11281	MD21-01-0235	7–7.5	Qbt 3	Aluminum	9690	mg/kg	None
21-11281	MD21-01-0235	7–7.5	Qbt 3	Lithium	6.94	mg/kg	None
21-11281	MD21-01-0235	7–7.5	Qbt 3	Barium	81.1	mg/kg	J+
21-11281	MD21-01-0235	7–7.5	Qbt 3	Chromium	7.17	mg/kg	None
21-11281	MD21-01-0235	7–7.5	Qbt 3	Cobalt	1.97	mg/kg	None
21-11281	MD21-01-0235	7–7.5	Qbt 3	Nickel	1.82	mg/kg	None
21-11281	MD21-01-0235	7–7.5	Qbt 3	Copper	4.69	mg/kg	None
21-11281	MD21-01-0235	7–7.5	Qbt 3	Iron	8050	mg/kg	None
21-11281	MD21-01-0235	7–7.5	Qbt 3	Zinc	20.6	mg/kg	None
21-11281	MD21-01-0235	7–7.5	Qbt 3	Thallium	0.098	mg/kg	J
21-11281	MD21-01-0235	7–7.5	Qbt 3	Dibromo-3-Chloropropane[1,2-]	0.0013	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11281	MD21-01-0235	7–7.5	Qbt 3	Butylbenzene[tert-]	0.0013	mg/kg	U
21-11281	MD21-01-0235	7–7.5	Qbt 3	Isopropyltoluene[4-]	0.0013	mg/kg	U
21-11281	MD21-01-0235	7–7.5	Qbt 3	Trichloropropane[1,2,3-]	0.0013	mg/kg	U
21-11281	MD21-01-0235	7–7.5	Qbt 3	Isopropylbenzene	0.0013	mg/kg	U
21-11281	MD21-01-0235	7–7.5	Qbt 3	Dichloropropene[cis-1,3-]	0.0013	mg/kg	U
21-11281	MD21-01-0235	7–7.5	Qbt 3	Toluene	0.0013	mg/kg	U
21-11281	MD21-01-0235	7–7.5	Qbt 3	Trimethylbenzene[1,3,5-]	0.0013	mg/kg	U
21-11281	MD21-01-0235	7–7.5	Qbt 3	Dichloroethene[trans-1,2-]	0.0013	mg/kg	U
21-11281	MD21-01-0235	7–7.5	Qbt 3	Dibromoethane[1,2-]	0.0013	mg/kg	U
21-11281	MD21-01-0235	7–7.5	Qbt 3	Dichloropropene[trans-1,3-]	0.0013	mg/kg	U
21-11281	MD21-01-0235	7–7.5	Qbt 3	Dichloroethene[cis-1,2-]	0.0013	mg/kg	U
21-11281	MD21-01-0235	7–7.5	Qbt 3	Ethylbenzene	0.0013	mg/kg	U
21-11281	MD21-01-0235	7–7.5	Qbt 3	Dichlorobenzene[1,4-]	0.0013	mg/kg	U
21-11281	MD21-01-0235	7–7.5	Qbt 3	Chlorotoluene[4-]	0.0013	mg/kg	U
21-11281	MD21-01-0235	7–7.5	Qbt 3	Dichloropropane[1,3-]	0.0013	mg/kg	U
21-11281	MD21-01-0235	7–7.5	Qbt 3	Dichlorobenzene[1,3-]	0.0013	mg/kg	U
21-11281	MD21-01-0235	7–7.5	Qbt 3	Tetrachloroethene	0.0013	mg/kg	U
21-11281	MD21-01-0235	7–7.5	Qbt 3	Styrene	0.0013	mg/kg	U
21-11281	MD21-01-0235	7–7.5	Qbt 3	Bromobenzene	0.0013	mg/kg	U
21-11281	MD21-01-0235	7–7.5	Qbt 3	Butylbenzene[sec-]	0.0013	mg/kg	U
21-11281	MD21-01-0235	7–7.5	Qbt 3	Carbon Tetrachloride	0.0013	mg/kg	U
21-11281	MD21-01-0235	7–7.5	Qbt 3	Methyl-2-pentanone[4-]	0.0066	mg/kg	U
21-11281	MD21-01-0235	7–7.5	Qbt 3	Chlorobenzene	0.0013	mg/kg	U
21-11281	MD21-01-0235	7–7.5	Qbt 3	Dichloroethane[1,2-]	0.0013	mg/kg	U
21-11281	MD21-01-0235	7–7.5	Qbt 3	Chlorodibromomethane	0.0013	mg/kg	U
21-11281	MD21-01-0235	7–7.5	Qbt 3	Propylbenzene[1-]	0.0013	mg/kg	U
21-11281	MD21-01-0235	7–7.5	Qbt 3	Butylbenzene[n-]	0.0013	mg/kg	U
21-11281	MD21-01-0235	7–7.5	Qbt 3	Hexanone[2-]	0.0066	mg/kg	U
21-11281	MD21-01-0235	7–7.5	Qbt 3	Xylene[1,2-]	0.0013	mg/kg	U
21-11281	MD21-01-0235	7–7.5	Qbt 3	Dichloropropane[1,2-]	0.0013	mg/kg	U
21-11281	MD21-01-0235	7–7.5	Qbt 3	Chlorotoluene[2-]	0.0013	mg/kg	U
21-11281	MD21-01-0235	7–7.5	Qbt 3	Tetrachloroethane[1,1,2,2-]	0.0013	mg/kg	U
21-11281	MD21-01-0235	7–7.5	Qbt 3	Dichloropropane[2,2-]	0.0013	mg/kg	U
21-11281	MD21-01-0235	7–7.5	Qbt 3	Dichlorobenzene[1,2-]	0.0013	mg/kg	U
21-11281	MD21-01-0235	7–7.5	Qbt 3	Methylene Chloride	0.0066	mg/kg	U
21-11281	MD21-01-0235	7–7.5	Qbt 3	Perchlorate	0.145	mg/kg	J+
21-11281	MD21-01-0235	7–7.5	Qbt 3	Xylene[1,3-]+Xylene[1,4-]	0.0026	mg/kg	U
21-11281	MD21-01-0235	7–7.5	Qbt 3	Cesium-134	-0.0181	pCi/g	U
21-11281	MD21-01-0235	7–7.5	Qbt 3	Ruthenium-106	0.0599	pCi/g	U
21-11281	MD21-01-0235	7–7.5	Qbt 3	Cobalt-60	-0.0131	pCi/g	U
21-11281	MD21-01-0235	7–7.5	Qbt 3	Uranium-235	0.207	pCi/g	U
21-11281	MD21-01-0235	7–7.5	Qbt 3	Americium-241	0.00697	pCi/g	U
21-11281	MD21-01-0235	7–7.5	Qbt 3	Trichloroethene	0.0013	mg/kg	U
21-11281	MD21-01-0235	7–7.5	Qbt 3	Dibromomethane	0.0013	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11281	MD21-01-0235	7–7.5	Qbt 3	Cesium-137	0.00994	pCi/g	U
21-11281	MD21-01-0235	7–7.5	Qbt 3	Sodium-22	0.00548	pCi/g	U
21-11281	MD21-01-0235	7–7.5	Qbt 3	Europium-152	-0.0416	pCi/g	U
21-11281	MD21-01-0235	7–7.5	Qbt 3	Tritium	0.004362	pCi/g	U
21-11281	MD21-01-0235	7–7.5	Qbt 3	Antimony	0.026	mg/kg	U
21-11281	MD21-01-0235	7–7.5	Qbt 3	Trichlorotrifluoroethane	0.0066	mg/kg	U
21-11281	MD21-01-0235	7–7.5	Qbt 3	Trichloroethane[1,1,1-]	0.0013	mg/kg	U
21-11281	MD21-01-0235	7–7.5	Qbt 3	Benzene	0.0013	mg/kg	U
21-11281	MD21-01-0235	7–7.5	Qbt 3	Dichloroethene[1,1-]	0.0013	mg/kg	U
21-11281	MD21-01-0235	7–7.5	Qbt 3	Acetone	0.0052	mg/kg	J
21-11281	MD21-01-0235	7–7.5	Qbt 3	Butanone[2-]	0.0066	mg/kg	U
21-11281	MD21-01-0235	7–7.5	Qbt 3	Bromoform	0.0013	mg/kg	U
21-11281	MD21-01-0235	7–7.5	Qbt 3	Trimethylbenzene[1,2,4-]	0.0013	mg/kg	U
21-11281	MD21-01-0235	7–7.5	Qbt 3	Tetrachloroethane[1,1,1,2-]	0.0013	mg/kg	U
21-11281	MD21-01-0235	7–7.5	Qbt 3	Dichloroethane[1,1-]	0.0013	mg/kg	U
21-11281	MD21-01-0235	7–7.5	Qbt 3	Bromochloromethane	0.0013	mg/kg	U
21-11281	MD21-01-0235	7–7.5	Qbt 3	Dichlorodifluoromethane	0.0013	mg/kg	U
21-11281	MD21-01-0235	7–7.5	Qbt 3	Iodomethane	0.0066	mg/kg	U
21-11281	MD21-01-0235	7–7.5	Qbt 3	Chloroethane	0.0013	mg/kg	U
21-11281	MD21-01-0235	7–7.5	Qbt 3	Vinyl Chloride	0.0013	mg/kg	U
21-11281	MD21-01-0235	7–7.5	Qbt 3	Carbon Disulfide	0.0066	mg/kg	U
21-11281	MD21-01-0235	7–7.5	Qbt 3	Trichlorofluoromethane	0.0013	mg/kg	U
21-11281	MD21-01-0235	7–7.5	Qbt 3	Chloromethane	0.0013	mg/kg	U
21-11281	MD21-01-0235	7–7.5	Qbt 3	Dichloropropene[1,1-]	0.0013	mg/kg	U
21-11281	MD21-01-0235	7–7.5	Qbt 3	Chloroform	0.0013	mg/kg	U
21-11281	MD21-01-0235	7–7.5	Qbt 3	Bromodichloromethane	0.0013	mg/kg	U
21-11281	MD21-01-0235	7–7.5	Qbt 3	Trichloroethane[1,1,2-]	0.0013	mg/kg	U
21-11281	MD21-01-0235	7–7.5	Qbt 3	Bromomethane	0.0013	mg/kg	U
21-11281	MD21-03-50298	9–9.5	Qbt 3	Plutonium-238	0.0332	pCi/g	U
21-11281	MD21-03-50298	9–9.5	Qbt 3	Plutonium-239	0.452	pCi/g	None
21-11281	MD21-03-50299	10.5–11	Qbt 3	Plutonium-238	-0.00955	pCi/g	U
21-11281	MD21-03-50299	10.5–11	Qbt 3	Plutonium-239	0.062	pCi/g	None
21-11282	MD21-01-0283	1.5–2	ALLH	Nitroso-di-n-propylamine[N-]	0.342	mg/kg	U
21-11282	MD21-01-0283	1.5–2	ALLH	Americium-241	-0.0602	pCi/g	U
21-11282	MD21-01-0283	1.5–2	ALLH	Chrysene	0.0381	mg/kg	None
21-11282	MD21-01-0283	1.5–2	ALLH	Trichlorophenol[2,4,5-]	0.342	mg/kg	U
21-11282	MD21-01-0283	1.5–2	ALLH	Chlorophenol[2-]	0.342	mg/kg	U
21-11282	MD21-01-0283	1.5–2	ALLH	Nitroaniline[2-]	0.342	mg/kg	U
21-11282	MD21-01-0283	1.5–2	ALLH	Isophorone	0.342	mg/kg	U
21-11282	MD21-01-0283	1.5–2	ALLH	Hexachloroethane	0.342	mg/kg	U
21-11282	MD21-01-0283	1.5–2	ALLH	Dichlorobenzene[1,2-]	0.342	mg/kg	U
21-11282	MD21-01-0283	1.5–2	ALLH	Fluorene	0.0342	mg/kg	U
21-11282	MD21-01-0283	1.5–2	ALLH	Dichlorobenzidine[3,3'-]	0.342	mg/kg	U
21-11282	MD21-01-0283	1.5–2	ALLH	Nitrophenol[2-]	0.342	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11282	MD21-01-0283	1.5–2	ALLH	Phenanthrene	0.0075	mg/kg	J
21-11282	MD21-01-0283	1.5–2	ALLH	Butylbenzylphthalate	0.342	mg/kg	U
21-11282	MD21-01-0283	1.5–2	ALLH	Hexachlorobutadiene	0.342	mg/kg	U
21-11282	MD21-01-0283	1.5–2	ALLH	Nitrobenzene	0.342	mg/kg	U
21-11282	MD21-01-0283	1.5–2	ALLH	Naphthalene	0.0342	mg/kg	U
21-11282	MD21-01-0283	1.5–2	ALLH	Hexachlorocyclopentadiene	0.342	mg/kg	U
21-11282	MD21-01-0283	1.5–2	ALLH	Methylphenol[2-]	0.342	mg/kg	U
21-11282	MD21-01-0283	1.5–2	ALLH	Acenaphthene	0.0342	mg/kg	U
21-11282	MD21-01-0283	1.5–2	ALLH	Chloroaniline[4-]	0.342	mg/kg	U
21-11282	MD21-01-0283	1.5–2	ALLH	Diethylphthalate	0.342	mg/kg	U
21-11282	MD21-01-0283	1.5–2	ALLH	Aroclor-1260	0.0034	mg/kg	U
21-11282	MD21-01-0283	1.5–2	ALLH	Dibenzofuran	0.342	mg/kg	U
21-11282	MD21-01-0283	1.5–2	ALLH	Aniline	0.342	mg/kg	U
21-11282	MD21-01-0283	1.5–2	ALLH	Pentachlorophenol	0.342	mg/kg	U
21-11282	MD21-01-0283	1.5–2	ALLH	Benzoic Acid	0.685	mg/kg	U
21-11282	MD21-01-0283	1.5–2	ALLH	Di-n-butylphthalate	0.342	mg/kg	U
21-11282	MD21-01-0283	1.5–2	ALLH	Methylnaphthalene[2-]	0.0342	mg/kg	U
21-11282	MD21-01-0283	1.5–2	ALLH	Anthracene	0.0342	mg/kg	U
21-11282	MD21-01-0283	1.5–2	ALLH	Bis(2-chloroethyl)ether	0.342	mg/kg	U
21-11282	MD21-01-0283	1.5–2	ALLH	Dimethyl Phthalate	0.342	mg/kg	U
21-11282	MD21-01-0283	1.5–2	ALLH	Dinitrotoluene[2,4-]	0.342	mg/kg	U
21-11282	MD21-01-0283	1.5–2	ALLH	Pyrene	0.0823	mg/kg	None
21-11282	MD21-01-0283	1.5–2	ALLH	Benzo(k)fluoranthene	0.0342	mg/kg	U
21-11282	MD21-01-0283	1.5–2	ALLH	Azobenzene	0.0342	mg/kg	U
21-11282	MD21-01-0283	1.5–2	ALLH	Pyridine	0.342	mg/kg	U
21-11282	MD21-01-0283	1.5–2	ALLH	Dinitro-2-methylphenol[4,6-]	0.342	mg/kg	U
21-11282	MD21-01-0283	1.5–2	ALLH	Fluoranthene	0.0852	mg/kg	None
21-11282	MD21-01-0283	1.5–2	ALLH	Chloro-3-methylphenol[4-]	0.342	mg/kg	U
21-11282	MD21-01-0283	1.5–2	ALLH	Benzo(a)pyrene	0.0342	mg/kg	U
21-11282	MD21-01-0283	1.5–2	ALLH	Benzo(b)fluoranthene	0.103	mg/kg	None
21-11282	MD21-01-0283	1.5–2	ALLH	Di-n-octylphthalate	0.342	mg/kg	U
21-11282	MD21-01-0283	1.5–2	ALLH	Hexachlorobenzene	0.342	mg/kg	U
21-11282	MD21-01-0283	1.5–2	ALLH	Trichlorophenol[2,4,6-]	0.342	mg/kg	U
21-11282	MD21-01-0283	1.5–2	ALLH	Chlorophenyl-phenyl[4-] Ether	0.342	mg/kg	U
21-11282	MD21-01-0283	1.5–2	ALLH	Chloronaphthalene[2-]	0.0342	mg/kg	U
21-11282	MD21-01-0283	1.5–2	ALLH	Nitroaniline[3-]	0.342	mg/kg	U
21-11282	MD21-01-0283	1.5–2	ALLH	Aroclor-1242	0.0034	mg/kg	U
21-11282	MD21-01-0283	1.5–2	ALLH	Aroclor-1254	0.0034	mg/kg	U
21-11282	MD21-01-0283	1.5–2	ALLH	Aroclor-1221	0.0034	mg/kg	U
21-11282	MD21-01-0283	1.5–2	ALLH	Aroclor-1232	0.0034	mg/kg	U
21-11282	MD21-01-0283	1.5–2	ALLH	Aroclor-1248	0.0034	mg/kg	U
21-11282	MD21-01-0283	1.5–2	ALLH	Aroclor-1016	0.0034	mg/kg	U
21-11282	MD21-01-0283	1.5–2	ALLH	Strontium-90	0.163	pCi/g	U
21-11282	MD21-01-0283	1.5–2	ALLH	Nitrophenol[4-]	0.342	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11282	MD21-01-0283	1.5–2	ALLH	Nickel	2.82	mg/kg	None
21-11282	MD21-01-0283	1.5–2	ALLH	Perchlorate	0.0371	mg/kg	U
21-11282	MD21-01-0283	1.5–2	ALLH	Magnesium	517	mg/kg	J+
21-11282	MD21-01-0283	1.5–2	ALLH	Cadmium	0.168	mg/kg	J
21-11282	MD21-01-0283	1.5–2	ALLH	Thallium	0.047	mg/kg	J
21-11282	MD21-01-0283	1.5–2	ALLH	Manganese	181	mg/kg	None
21-11282	MD21-01-0283	1.5–2	ALLH	Zinc	130	mg/kg	None
21-11282	MD21-01-0283	1.5–2	ALLH	Potassium	337	mg/kg	J+
21-11282	MD21-01-0283	1.5–2	ALLH	Chromium	3.71	mg/kg	J
21-11282	MD21-01-0283	1.5–2	ALLH	Lead	3.25	mg/kg	J
21-11282	MD21-01-0283	1.5–2	ALLH	Cobalt	0.756	mg/kg	None
21-11282	MD21-01-0283	1.5–2	ALLH	Vanadium	3.93	mg/kg	None
21-11282	MD21-01-0283	1.5–2	ALLH	Mercury	0.01	mg/kg	None
21-11282	MD21-01-0283	1.5–2	ALLH	Barium	44.3	mg/kg	J+
21-11282	MD21-01-0283	1.5–2	ALLH	Silver	0.037	mg/kg	J
21-11282	MD21-01-0283	1.5–2	ALLH	Calcium	1260	mg/kg	J
21-11282	MD21-01-0283	1.5–2	ALLH	Beryllium	0.4	mg/kg	None
21-11282	MD21-01-0283	1.5–2	ALLH	Selenium	0.53	mg/kg	None
21-11282	MD21-01-0283	1.5–2	ALLH	Arsenic	1.84	mg/kg	None
21-11282	MD21-01-0283	1.5–2	ALLH	Sodium	77.8	mg/kg	None
21-11282	MD21-01-0283	1.5–2	ALLH	Copper	1.89	mg/kg	None
21-11282	MD21-01-0283	1.5–2	ALLH	Antimony	0.043	mg/kg	U
21-11282	MD21-01-0283	1.5–2	ALLH	Dichlorophenol[2,4-]	0.342	mg/kg	U
21-11282	MD21-01-0283	1.5–2	ALLH	Benzo(g,h,i)perylene	0.0342	mg/kg	U
21-11282	MD21-01-0283	1.5–2	ALLH	Indeno(1,2,3-cd)pyrene	0.0342	mg/kg	U
21-11282	MD21-01-0283	1.5–2	ALLH	Dibenz(a,h)anthracene	0.0342	mg/kg	U
21-11282	MD21-01-0283	1.5–2	ALLH	Diphenylamine	0.342	mg/kg	U
21-11282	MD21-01-0283	1.5–2	ALLH	Dinitrophenol[2,4-]	0.685	mg/kg	U
21-11282	MD21-01-0283	1.5–2	ALLH	Bis(2-ethylhexyl)phthalate	0.154	mg/kg	J
21-11282	MD21-01-0283	1.5–2	ALLH	Benz(a)anthracene	0.025	mg/kg	J
21-11282	MD21-01-0283	1.5–2	ALLH	Benzyl Alcohol	0.342	mg/kg	U
21-11282	MD21-01-0283	1.5–2	ALLH	Phenol	0.342	mg/kg	U
21-11282	MD21-01-0283	1.5–2	ALLH	Sodium-22	-0.00171	pCi/g	U
21-11282	MD21-01-0283	1.5–2	ALLH	Methylphenol[4-]	0.342	mg/kg	U
21-11282	MD21-01-0283	1.5–2	ALLH	Dimethylphenol[2,4-]	0.342	mg/kg	U
21-11282	MD21-01-0283	1.5–2	ALLH	Iron	5690	mg/kg	None
21-11282	MD21-01-0283	1.5–2	ALLH	Aluminum	3550	mg/kg	None
21-11282	MD21-01-0283	1.5–2	ALLH	Europium-152	-0.0393	pCi/g	U
21-11282	MD21-01-0283	1.5–2	ALLH	Cesium-134	-0.0121	pCi/g	U
21-11282	MD21-01-0283	1.5–2	ALLH	Uranium-235	0.278	pCi/g	U
21-11282	MD21-01-0283	1.5–2	ALLH	Ruthenium-106	-0.0105	pCi/g	U
21-11282	MD21-01-0283	1.5–2	ALLH	Cobalt-60	0.00489	pCi/g	U
21-11282	MD21-01-0283	1.5–2	ALLH	Cesium-137	-0.00756	pCi/g	U
21-11282	MD21-01-0283	1.5–2	ALLH	Dichlorobenzene[1,3-]	0.342	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11282	MD21-01-0283	1.5–2	ALLH	Dinitrotoluene[2,6-]	0.342	mg/kg	U
21-11282	MD21-01-0283	1.5–2	ALLH	Acenaphthylene	0.0342	mg/kg	U
21-11282	MD21-01-0283	1.5–2	ALLH	Trichlorobenzene[1,2,4-]	0.342	mg/kg	U
21-11282	MD21-01-0283	1.5–2	ALLH	Bis(2-chloroethoxy)methane	0.342	mg/kg	U
21-11282	MD21-01-0283	1.5–2	ALLH	Bromophenyl-phenylether[4-]	0.342	mg/kg	U
21-11282	MD21-01-0283	1.5–2	ALLH	Oxybis(1-chloropropane)[2,2'-]	0.342	mg/kg	U
21-11282	MD21-01-0283	1.5–2	ALLH	Dichlorobenzene[1,4-]	0.342	mg/kg	U
21-11282	MD21-01-0283	1.5–2	ALLH	Nitroaniline[4-]	0.342	mg/kg	U
21-11282	MD21-01-0283	1.5–2	ALLH	Nitrosodimethylamine[N-]	0.342	mg/kg	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Dinitrotoluene[2,6-]	0.345	mg/kg	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Hexachlorobutadiene	0.345	mg/kg	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Naphthalene	0.0345	mg/kg	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Benzo(b)fluoranthene	0.0345	mg/kg	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Aniline	0.345	mg/kg	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Nitrophenol[2-]	0.345	mg/kg	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Di-n-octylphthalate	0.345	mg/kg	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Oxybis(1-chloropropane)[2,2'-]	0.345	mg/kg	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Chrysene	0.0345	mg/kg	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Methylnaphthalene[2-]	0.0345	mg/kg	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Methylphenol[2-]	0.345	mg/kg	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Nitroaniline[2-]	0.345	mg/kg	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Nitrobenzene	0.345	mg/kg	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Dinitrotoluene[2,4-]	0.345	mg/kg	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Zinc	36	mg/kg	None
21-11282	MD21-01-0284	3–3.5	Qbt 3	Hexachlorocyclopentadiene	0.345	mg/kg	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Chloroaniline[4-]	0.345	mg/kg	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Benzo(a)pyrene	0.0345	mg/kg	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Anthracene	0.0345	mg/kg	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Nitroaniline[3-]	0.345	mg/kg	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Nitroso-di-n-propylamine[N-]	0.345	mg/kg	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Dinitro-2-methylphenol[4,6-]	0.345	mg/kg	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Benz(a)anthracene	0.0345	mg/kg	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Fluorene	0.0345	mg/kg	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Antimony	0.087	mg/kg	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Beryllium	0.298	mg/kg	None
21-11282	MD21-01-0284	3–3.5	Qbt 3	Silver	0.015	mg/kg	J
21-11282	MD21-01-0284	3–3.5	Qbt 3	Pyrene	0.0345	mg/kg	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Chlorophenol[2-]	0.345	mg/kg	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Benzoic Acid	0.689	mg/kg	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Phenol	0.345	mg/kg	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Trichlorophenol[2,4,5-]	0.345	mg/kg	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Chloro-3-methylphenol[4-]	0.345	mg/kg	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Dimethyl Phthalate	0.345	mg/kg	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Aroclor-1221	0.0034	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11282	MD21-01-0284	3–3.5	Qbt 3	Aroclor-1260	0.0034	mg/kg	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Aroclor-1254	0.0034	mg/kg	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Aroclor-1232	0.0034	mg/kg	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Aroclor-1248	0.0034	mg/kg	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Aroclor-1016	0.0034	mg/kg	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Aroclor-1242	0.0034	mg/kg	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Bis(2-chloroethoxy)methane	0.345	mg/kg	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Dinitrophenol[2,4-]	0.689	mg/kg	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Fluoranthene	0.0345	mg/kg	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Bis(2-chloroethyl)ether	0.345	mg/kg	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Dichlorobenzene[1,2-]	0.345	mg/kg	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Di-n-butylphthalate	0.345	mg/kg	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Pentachlorophenol	0.345	mg/kg	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Hexachloroethane	0.345	mg/kg	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Trichlorobenzene[1,2,4-]	0.345	mg/kg	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Azobenzene	0.0345	mg/kg	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Dichlorobenzene[1,4-]	0.345	mg/kg	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Dichlorophenol[2,4-]	0.345	mg/kg	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Benzyl Alcohol	0.345	mg/kg	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Nitrophenol[4-]	0.345	mg/kg	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Dimethylphenol[2,4-]	0.345	mg/kg	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Methylphenol[4-]	0.345	mg/kg	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Indeno(1,2,3-cd)pyrene	0.0345	mg/kg	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Benzo(g,h,i)perylene	0.0345	mg/kg	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Aluminum	1140	mg/kg	None
21-11282	MD21-01-0284	3–3.5	Qbt 3	Chromium	1.13	mg/kg	J
21-11282	MD21-01-0284	3–3.5	Qbt 3	Sodium	96.4	mg/kg	None
21-11282	MD21-01-0284	3–3.5	Qbt 3	Potassium	191	mg/kg	J+
21-11282	MD21-01-0284	3–3.5	Qbt 3	Cobalt	0.408	mg/kg	J
21-11282	MD21-01-0284	3–3.5	Qbt 3	Barium	19.3	mg/kg	J+
21-11282	MD21-01-0284	3–3.5	Qbt 3	Cadmium	0.039	mg/kg	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Magnesium	301	mg/kg	J+
21-11282	MD21-01-0284	3–3.5	Qbt 3	Manganese	218	mg/kg	None
21-11282	MD21-01-0284	3–3.5	Qbt 3	Iron	4910	mg/kg	None
21-11282	MD21-01-0284	3–3.5	Qbt 3	Arsenic	2.08	mg/kg	None
21-11282	MD21-01-0284	3–3.5	Qbt 3	Lead	2.13	mg/kg	J
21-11282	MD21-01-0284	3–3.5	Qbt 3	Acenaphthylene	0.0345	mg/kg	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Nitrosodimethylamine[N-]	0.345	mg/kg	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Butylbenzylphthalate	0.345	mg/kg	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Uranium-235	0.167	pCi/g	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Europium-152	-0.0179	pCi/g	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Cesium-134	-0.0106	pCi/g	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Sodium-22	-0.0148	pCi/g	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Cobalt-60	-0.0119	pCi/g	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11282	MD21-01-0284	3–3.5	Qbt 3	Cesium-137	-0.00679	pCi/g	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Ruthenium-106	-0.187	pCi/g	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Americium-241	-0.0854	pCi/g	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Hexachlorobenzene	0.345	mg/kg	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Dibenz(a,h)anthracene	0.0345	mg/kg	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Chlorophenyl-phenyl[4-] Ether	0.345	mg/kg	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Dichlorobenzidine[3,3'-]	0.345	mg/kg	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Nickel	3.44	mg/kg	None
21-11282	MD21-01-0284	3–3.5	Qbt 3	Benzo(k)fluoranthene	0.0345	mg/kg	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Dibenzofuran	0.345	mg/kg	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Isophorone	0.345	mg/kg	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Selenium	0.331	mg/kg	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Dichlorobenzene[1,3-]	0.345	mg/kg	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Vanadium	3.35	mg/kg	None
21-11282	MD21-01-0284	3–3.5	Qbt 3	Strontium-90	0.0282	pCi/g	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Mercury	0.01	mg/kg	None
21-11282	MD21-01-0284	3–3.5	Qbt 3	Copper	1.21	mg/kg	None
21-11282	MD21-01-0284	3–3.5	Qbt 3	Thallium	0.041	mg/kg	J
21-11282	MD21-01-0284	3–3.5	Qbt 3	Calcium	365	mg/kg	J
21-11282	MD21-01-0284	3–3.5	Qbt 3	Chloronaphthalene[2-]	0.0345	mg/kg	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Pyridine	0.345	mg/kg	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Nitroaniline[4-]	0.345	mg/kg	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Acenaphthene	0.0345	mg/kg	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Bis(2-ethylhexyl)phthalate	0.345	mg/kg	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Diphenylamine	0.345	mg/kg	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Diethylphthalate	0.345	mg/kg	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Phenanthrene	0.0345	mg/kg	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Trichlorophenol[2,4,6-]	0.345	mg/kg	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Bromophenyl-phenylether[4-]	0.345	mg/kg	U
21-11282	MD21-01-0284	3–3.5	Qbt 3	Perchlorate	0.0371	mg/kg	U
21-11283	MD21-01-0285	1.5–2	ALLH	Lead	2.89	mg/kg	J
21-11283	MD21-01-0285	1.5–2	ALLH	Copper	2.05	mg/kg	None
21-11283	MD21-01-0285	1.5–2	ALLH	Iron	2860	mg/kg	None
21-11283	MD21-01-0285	1.5–2	ALLH	Calcium	254	mg/kg	J
21-11283	MD21-01-0285	1.5–2	ALLH	Zinc	25.5	mg/kg	None
21-11283	MD21-01-0285	1.5–2	ALLH	Cobalt-60	-0.0169	pCi/g	U
21-11283	MD21-01-0285	1.5–2	ALLH	Azobenzene	0.0344	mg/kg	U
21-11283	MD21-01-0285	1.5–2	ALLH	Dinitrotoluene[2,6-]	0.344	mg/kg	U
21-11283	MD21-01-0285	1.5–2	ALLH	Aniline	0.344	mg/kg	U
21-11283	MD21-01-0285	1.5–2	ALLH	Nitrosodimethylamine[N-]	0.344	mg/kg	U
21-11283	MD21-01-0285	1.5–2	ALLH	Nitroso-di-n-propylamine[N-]	0.344	mg/kg	U
21-11283	MD21-01-0285	1.5–2	ALLH	Benzoic Acid	0.688	mg/kg	U
21-11283	MD21-01-0285	1.5–2	ALLH	Hexachloroethane	0.344	mg/kg	U
21-11283	MD21-01-0285	1.5–2	ALLH	Chlorophenyl-phenyl[4-] Ether	0.344	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11283	MD21-01-0285	1.5–2	ALLH	Hexachlorocyclopentadiene	0.344	mg/kg	U
21-11283	MD21-01-0285	1.5–2	ALLH	Isophorone	0.344	mg/kg	U
21-11283	MD21-01-0285	1.5–2	ALLH	Acenaphthene	0.0344	mg/kg	U
21-11283	MD21-01-0285	1.5–2	ALLH	Diethylphthalate	0.344	mg/kg	U
21-11283	MD21-01-0285	1.5–2	ALLH	Di-n-butylphthalate	0.344	mg/kg	U
21-11283	MD21-01-0285	1.5–2	ALLH	Phenanthrene	0.0238	mg/kg	J
21-11283	MD21-01-0285	1.5–2	ALLH	Butylbenzylphthalate	0.344	mg/kg	U
21-11283	MD21-01-0285	1.5–2	ALLH	Fluorene	0.0344	mg/kg	U
21-11283	MD21-01-0285	1.5–2	ALLH	Hexachlorobutadiene	0.344	mg/kg	U
21-11283	MD21-01-0285	1.5–2	ALLH	Pentachlorophenol	0.344	mg/kg	U
21-11283	MD21-01-0285	1.5–2	ALLH	Trichlorophenol[2,4,6-]	0.344	mg/kg	U
21-11283	MD21-01-0285	1.5–2	ALLH	Nitroaniline[2-]	0.344	mg/kg	U
21-11283	MD21-01-0285	1.5–2	ALLH	Nitrophenol[2-]	0.344	mg/kg	U
21-11283	MD21-01-0285	1.5–2	ALLH	Naphthalene	0.0344	mg/kg	U
21-11283	MD21-01-0285	1.5–2	ALLH	Methylnaphthalene[2-]	0.0344	mg/kg	U
21-11283	MD21-01-0285	1.5–2	ALLH	Chloronaphthalene[2-]	0.0344	mg/kg	U
21-11283	MD21-01-0285	1.5–2	ALLH	Dichlorobenzidine[3,3'-]	0.344	mg/kg	U
21-11283	MD21-01-0285	1.5–2	ALLH	Methylphenol[2-]	0.344	mg/kg	U
21-11283	MD21-01-0285	1.5–2	ALLH	Dichlorobenzene[1,2-]	0.344	mg/kg	U
21-11283	MD21-01-0285	1.5–2	ALLH	Chlorophenol[2-]	0.344	mg/kg	U
21-11283	MD21-01-0285	1.5–2	ALLH	Trichlorophenol[2,4,5-]	0.344	mg/kg	U
21-11283	MD21-01-0285	1.5–2	ALLH	Nitrobenzene	0.344	mg/kg	U
21-11283	MD21-01-0285	1.5–2	ALLH	Nitroaniline[3-]	0.344	mg/kg	U
21-11283	MD21-01-0285	1.5–2	ALLH	Dimethylphenol[2,4-]	0.344	mg/kg	U
21-11283	MD21-01-0285	1.5–2	ALLH	Methylphenol[4-]	0.344	mg/kg	U
21-11283	MD21-01-0285	1.5–2	ALLH	Dichlorobenzene[1,4-]	0.344	mg/kg	U
21-11283	MD21-01-0285	1.5–2	ALLH	Chloroaniline[4-]	0.344	mg/kg	U
21-11283	MD21-01-0285	1.5–2	ALLH	Oxybis(1-chloropropane)[2,2'-]	0.344	mg/kg	U
21-11283	MD21-01-0285	1.5–2	ALLH	Phenol	0.344	mg/kg	U
21-11283	MD21-01-0285	1.5–2	ALLH	Pyridine	0.344	mg/kg	U
21-11283	MD21-01-0285	1.5–2	ALLH	Bis(2-chloroethyl)ether	0.344	mg/kg	U
21-11283	MD21-01-0285	1.5–2	ALLH	Bis(2-chloroethoxy)methane	0.344	mg/kg	U
21-11283	MD21-01-0285	1.5–2	ALLH	Bis(2-ethylhexyl)phthalate	0.179	mg/kg	J
21-11283	MD21-01-0285	1.5–2	ALLH	Di-n-octylphthalate	0.344	mg/kg	U
21-11283	MD21-01-0285	1.5–2	ALLH	Hexachlorobenzene	0.344	mg/kg	U
21-11283	MD21-01-0285	1.5–2	ALLH	Anthracene	0.0051	mg/kg	J
21-11283	MD21-01-0285	1.5–2	ALLH	Trichlorobenzene[1,2,4-]	0.344	mg/kg	U
21-11283	MD21-01-0285	1.5–2	ALLH	Dichlorophenol[2,4-]	0.344	mg/kg	U
21-11283	MD21-01-0285	1.5–2	ALLH	Dinitrotoluene[2,4-]	0.344	mg/kg	U
21-11283	MD21-01-0285	1.5–2	ALLH	Diphenylamine	0.344	mg/kg	U
21-11283	MD21-01-0285	1.5–2	ALLH	Pyrene	0.019	mg/kg	J
21-11283	MD21-01-0285	1.5–2	ALLH	Dimethyl Phthalate	0.344	mg/kg	U
21-11283	MD21-01-0285	1.5–2	ALLH	Dibenzofuran	0.344	mg/kg	U
21-11283	MD21-01-0285	1.5–2	ALLH	Benzo(g,h,i)perylene	0.0344	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11283	MD21-01-0285	1.5–2	ALLH	Indeno(1,2,3-cd)pyrene	0.0344	mg/kg	U
21-11283	MD21-01-0285	1.5–2	ALLH	Benzo(b)fluoranthene	0.0829	mg/kg	None
21-11283	MD21-01-0285	1.5–2	ALLH	Fluoranthene	0.0199	mg/kg	J
21-11283	MD21-01-0285	1.5–2	ALLH	Benzo(k)fluoranthene	0.0344	mg/kg	U
21-11283	MD21-01-0285	1.5–2	ALLH	Acenaphthylene	0.0344	mg/kg	U
21-11283	MD21-01-0285	1.5–2	ALLH	Chrysene	0.01	mg/kg	J
21-11283	MD21-01-0285	1.5–2	ALLH	Benzo(a)pyrene	0.0344	mg/kg	U
21-11283	MD21-01-0285	1.5–2	ALLH	Dinitrophenol[2,4-]	0.688	mg/kg	U
21-11283	MD21-01-0285	1.5–2	ALLH	Dibenz(a,h)anthracene	0.0344	mg/kg	U
21-11283	MD21-01-0285	1.5–2	ALLH	Dinitro-2-methylphenol[4,6-]	0.344	mg/kg	U
21-11283	MD21-01-0285	1.5–2	ALLH	Dichlorobenzene[1,3-]	0.344	mg/kg	U
21-11283	MD21-01-0285	1.5–2	ALLH	Aroclor-1260	0.0034	mg/kg	U
21-11283	MD21-01-0285	1.5–2	ALLH	Aroclor-1254	0.0034	mg/kg	U
21-11283	MD21-01-0285	1.5–2	ALLH	Aroclor-1221	0.0034	mg/kg	U
21-11283	MD21-01-0285	1.5–2	ALLH	Aroclor-1232	0.0034	mg/kg	U
21-11283	MD21-01-0285	1.5–2	ALLH	Aroclor-1248	0.0034	mg/kg	U
21-11283	MD21-01-0285	1.5–2	ALLH	Aroclor-1016	0.0034	mg/kg	U
21-11283	MD21-01-0285	1.5–2	ALLH	Aroclor-1242	0.0034	mg/kg	U
21-11283	MD21-01-0285	1.5–2	ALLH	Nitroaniline[4-]	0.344	mg/kg	U
21-11283	MD21-01-0285	1.5–2	ALLH	Benzyl Alcohol	0.344	mg/kg	U
21-11283	MD21-01-0285	1.5–2	ALLH	Bromophenyl-phenylether[4-]	0.344	mg/kg	U
21-11283	MD21-01-0285	1.5–2	ALLH	Nitrophenol[4-]	0.344	mg/kg	U
21-11283	MD21-01-0285	1.5–2	ALLH	Perchlorate	0.0374	mg/kg	U
21-11283	MD21-01-0285	1.5–2	ALLH	Cobalt	0.546	mg/kg	None
21-11283	MD21-01-0285	1.5–2	ALLH	Potassium	135	mg/kg	J+
21-11283	MD21-01-0285	1.5–2	ALLH	Arsenic	2.18	mg/kg	None
21-11283	MD21-01-0285	1.5–2	ALLH	Sodium	114	mg/kg	None
21-11283	MD21-01-0285	1.5–2	ALLH	Silver	0.023	mg/kg	J
21-11283	MD21-01-0285	1.5–2	ALLH	Selenium	0.352	mg/kg	J
21-11283	MD21-01-0285	1.5–2	ALLH	Mercury	0.01	mg/kg	None
21-11283	MD21-01-0285	1.5–2	ALLH	Barium	13.3	mg/kg	J+
21-11283	MD21-01-0285	1.5–2	ALLH	Magnesium	214	mg/kg	J+
21-11283	MD21-01-0285	1.5–2	ALLH	Aluminum	574	mg/kg	None
21-11283	MD21-01-0285	1.5–2	ALLH	Beryllium	0.298	mg/kg	None
21-11283	MD21-01-0285	1.5–2	ALLH	Vanadium	1.7	mg/kg	None
21-11283	MD21-01-0285	1.5–2	ALLH	Chromium	3.56	mg/kg	J
21-11283	MD21-01-0285	1.5–2	ALLH	Manganese	263	mg/kg	None
21-11283	MD21-01-0285	1.5–2	ALLH	Thallium	0.048	mg/kg	J
21-11283	MD21-01-0285	1.5–2	ALLH	Antimony	0.041	mg/kg	U
21-11283	MD21-01-0285	1.5–2	ALLH	Nickel	2.53	mg/kg	None
21-11283	MD21-01-0285	1.5–2	ALLH	Cadmium	0.04	mg/kg	U
21-11283	MD21-01-0285	1.5–2	ALLH	Cesium-134	-0.00145	pCi/g	U
21-11283	MD21-01-0285	1.5–2	ALLH	Europium-152	-0.0368	pCi/g	U
21-11283	MD21-01-0285	1.5–2	ALLH	Ruthenium-106	0.313	pCi/g	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11283	MD21-01-0285	1.5–2	ALLH	Americium-241	0.0233	pCi/g	U
21-11283	MD21-01-0285	1.5–2	ALLH	Sodium-22	-0.0139	pCi/g	U
21-11283	MD21-01-0285	1.5–2	ALLH	Cesium-137	-0.0218	pCi/g	U
21-11283	MD21-01-0285	1.5–2	ALLH	Strontium-90	0.162	pCi/g	U
21-11283	MD21-01-0285	1.5–2	ALLH	Benz(a)anthracene	0.0124	mg/kg	J
21-11283	MD21-01-0285	1.5–2	ALLH	Uranium-235	0.145	pCi/g	U
21-11283	MD21-01-0285	1.5–2	ALLH	Chloro-3-methylphenol[4-]	0.344	mg/kg	U
21-11283	MD21-01-0286	3–3.5	Qbt 3	Perchlorate	0.0149	mg/kg	U
21-11283	MD21-01-0286	3–3.5	Qbt 3	Strontium-90	0.109	pCi/g	U
21-11283	MD21-01-0286	3–3.5	Qbt 3	Dibenz(a,h)anthracene	0.0345	mg/kg	U
21-11283	MD21-01-0286	3–3.5	Qbt 3	Nitrobenzene	0.345	mg/kg	U
21-11283	MD21-01-0286	3–3.5	Qbt 3	Cobalt	0.454	mg/kg	J
21-11283	MD21-01-0286	3–3.5	Qbt 3	Copper	0.744	mg/kg	None
21-11283	MD21-01-0286	3–3.5	Qbt 3	Vanadium	1.69	mg/kg	None
21-11283	MD21-01-0286	3–3.5	Qbt 3	Zinc	25.9	mg/kg	None
21-11283	MD21-01-0286	3–3.5	Qbt 3	Calcium	475	mg/kg	J
21-11283	MD21-01-0286	3–3.5	Qbt 3	Selenium	0.349	mg/kg	U
21-11283	MD21-01-0286	3–3.5	Qbt 3	Nickel	2.22	mg/kg	None
21-11283	MD21-01-0286	3–3.5	Qbt 3	Silver	0.006	mg/kg	J
21-11283	MD21-01-0286	3–3.5	Qbt 3	Thallium	0.023	mg/kg	J
21-11283	MD21-01-0286	3–3.5	Qbt 3	Antimony	0.041	mg/kg	U
21-11283	MD21-01-0286	3–3.5	Qbt 3	Beryllium	0.18	mg/kg	None
21-11283	MD21-01-0286	3–3.5	Qbt 3	Mercury	0.01	mg/kg	J
21-11283	MD21-01-0286	3–3.5	Qbt 3	Pentachlorophenol	0.345	mg/kg	U
21-11283	MD21-01-0286	3–3.5	Qbt 3	Phenanthrene	0.0345	mg/kg	U
21-11283	MD21-01-0286	3–3.5	Qbt 3	Dinitro-2-methylphenol[4,6-]	0.345	mg/kg	U
21-11283	MD21-01-0286	3–3.5	Qbt 3	Nitrophenol[2-]	0.345	mg/kg	U
21-11283	MD21-01-0286	3–3.5	Qbt 3	Chloro-3-methylphenol[4-]	0.345	mg/kg	U
21-11283	MD21-01-0286	3–3.5	Qbt 3	Nitroaniline[2-]	0.345	mg/kg	U
21-11283	MD21-01-0286	3–3.5	Qbt 3	Butylbenzylphthalate	0.345	mg/kg	U
21-11283	MD21-01-0286	3–3.5	Qbt 3	Bis(2-ethylhexyl)phthalate	0.149	mg/kg	J
21-11283	MD21-01-0286	3–3.5	Qbt 3	Benz(a)anthracene	0.0345	mg/kg	U
21-11283	MD21-01-0286	3–3.5	Qbt 3	Benzoic Acid	0.69	mg/kg	U
21-11283	MD21-01-0286	3–3.5	Qbt 3	Sodium-22	-0.0362	pCi/g	U
21-11283	MD21-01-0286	3–3.5	Qbt 3	Americium-241	-0.0283	pCi/g	U
21-11283	MD21-01-0286	3–3.5	Qbt 3	Cesium-137	-0.0113	pCi/g	U
21-11283	MD21-01-0286	3–3.5	Qbt 3	Europium-152	-0.0658	pCi/g	U
21-11283	MD21-01-0286	3–3.5	Qbt 3	Ruthenium-106	0.131	pCi/g	U
21-11283	MD21-01-0286	3–3.5	Qbt 3	Cesium-134	-0.00713	pCi/g	U
21-11283	MD21-01-0286	3–3.5	Qbt 3	Cobalt-60	0.0161	pCi/g	U
21-11283	MD21-01-0286	3–3.5	Qbt 3	Uranium-235	0.0973	pCi/g	U
21-11283	MD21-01-0286	3–3.5	Qbt 3	Di-n-butylphthalate	0.345	mg/kg	U
21-11283	MD21-01-0286	3–3.5	Qbt 3	Chlorophenyl-phenyl[4-] Ether	0.345	mg/kg	U
21-11283	MD21-01-0286	3–3.5	Qbt 3	Aniline	0.345	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11283	MD21-01-0286	3–3.5	Qbt 3	Methylphenol[4-]	0.345	mg/kg	U
21-11283	MD21-01-0286	3–3.5	Qbt 3	Methylphenol[2-]	0.345	mg/kg	U
21-11283	MD21-01-0286	3–3.5	Qbt 3	Dichlorobenzene[1,3-]	0.345	mg/kg	U
21-11283	MD21-01-0286	3–3.5	Qbt 3	Dinitrotoluene[2,6-]	0.345	mg/kg	U
21-11283	MD21-01-0286	3–3.5	Qbt 3	Diethylphthalate	0.345	mg/kg	U
21-11283	MD21-01-0286	3–3.5	Qbt 3	Dichlorobenzidine[3,3'-]	0.345	mg/kg	U
21-11283	MD21-01-0286	3–3.5	Qbt 3	Dichlorophenol[2,4-]	0.345	mg/kg	U
21-11283	MD21-01-0286	3–3.5	Qbt 3	Isophorone	0.345	mg/kg	U
21-11283	MD21-01-0286	3–3.5	Qbt 3	Benzo(b)fluoranthene	0.0345	mg/kg	U
21-11283	MD21-01-0286	3–3.5	Qbt 3	Nitrosodimethylamine[N-]	0.345	mg/kg	U
21-11283	MD21-01-0286	3–3.5	Qbt 3	Trichlorophenol[2,4,6-]	0.345	mg/kg	U
21-11283	MD21-01-0286	3–3.5	Qbt 3	Hexachloroethane	0.345	mg/kg	U
21-11283	MD21-01-0286	3–3.5	Qbt 3	Indeno(1,2,3-cd)pyrene	0.0345	mg/kg	U
21-11283	MD21-01-0286	3–3.5	Qbt 3	Methylnaphthalene[2-]	0.0345	mg/kg	U
21-11283	MD21-01-0286	3–3.5	Qbt 3	Chlorophenol[2-]	0.345	mg/kg	U
21-11283	MD21-01-0286	3–3.5	Qbt 3	Benzo(g,h,i)perylene	0.0345	mg/kg	U
21-11283	MD21-01-0286	3–3.5	Qbt 3	Bromophenyl-phenylether[4-]	0.345	mg/kg	U
21-11283	MD21-01-0286	3–3.5	Qbt 3	Trichlorophenol[2,4,5-]	0.345	mg/kg	U
21-11283	MD21-01-0286	3–3.5	Qbt 3	Nitroaniline[4-]	0.345	mg/kg	U
21-11283	MD21-01-0286	3–3.5	Qbt 3	Aroclor-1260	0.0034	mg/kg	UJ
21-11283	MD21-01-0286	3–3.5	Qbt 3	Aroclor-1254	0.0034	mg/kg	UJ
21-11283	MD21-01-0286	3–3.5	Qbt 3	Aroclor-1221	0.0034	mg/kg	UJ
21-11283	MD21-01-0286	3–3.5	Qbt 3	Aroclor-1232	0.0034	mg/kg	UJ
21-11283	MD21-01-0286	3–3.5	Qbt 3	Aroclor-1248	0.0034	mg/kg	UJ
21-11283	MD21-01-0286	3–3.5	Qbt 3	Aroclor-1016	0.0034	mg/kg	UJ
21-11283	MD21-01-0286	3–3.5	Qbt 3	Aroclor-1242	0.0034	mg/kg	UJ
21-11283	MD21-01-0286	3–3.5	Qbt 3	Nitroaniline[3-]	0.345	mg/kg	U
21-11283	MD21-01-0286	3–3.5	Qbt 3	Dichlorobenzene[1,2-]	0.345	mg/kg	U
21-11283	MD21-01-0286	3–3.5	Qbt 3	Nitroso-di-n-propylamine[N-]	0.345	mg/kg	U
21-11283	MD21-01-0286	3–3.5	Qbt 3	Hexachlorobutadiene	0.345	mg/kg	U
21-11283	MD21-01-0286	3–3.5	Qbt 3	Naphthalene	0.0345	mg/kg	U
21-11283	MD21-01-0286	3–3.5	Qbt 3	Chloronaphthalene[2-]	0.0345	mg/kg	U
21-11283	MD21-01-0286	3–3.5	Qbt 3	Hexachlorocyclopentadiene	0.345	mg/kg	U
21-11283	MD21-01-0286	3–3.5	Qbt 3	Acenaphthene	0.0345	mg/kg	U
21-11283	MD21-01-0286	3–3.5	Qbt 3	Acenaphthylene	0.0345	mg/kg	U
21-11283	MD21-01-0286	3–3.5	Qbt 3	Di-n-octylphthalate	0.345	mg/kg	U
21-11283	MD21-01-0286	3–3.5	Qbt 3	Chrysene	0.0345	mg/kg	U
21-11283	MD21-01-0286	3–3.5	Qbt 3	Dichlorobenzene[1,4-]	0.345	mg/kg	U
21-11283	MD21-01-0286	3–3.5	Qbt 3	Dibenzofuran	0.345	mg/kg	U
21-11283	MD21-01-0286	3–3.5	Qbt 3	Fluorene	0.0345	mg/kg	U
21-11283	MD21-01-0286	3–3.5	Qbt 3	Diphenylamine	0.345	mg/kg	U
21-11283	MD21-01-0286	3–3.5	Qbt 3	Pyridine	0.345	mg/kg	U
21-11283	MD21-01-0286	3–3.5	Qbt 3	Dinitrotoluene[2,4-]	0.345	mg/kg	U
21-11283	MD21-01-0286	3–3.5	Qbt 3	Hexachlorobenzene	0.345	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11283	MD21-01-0286	3–3.5	Qbt 3	Trichlorobenzene[1,2,4-]	0.345	mg/kg	U
21-11283	MD21-01-0286	3–3.5	Qbt 3	Pyrene	0.0345	mg/kg	U
21-11283	MD21-01-0286	3–3.5	Qbt 3	Dinitrophenol[2,4-]	0.69	mg/kg	U
21-11283	MD21-01-0286	3–3.5	Qbt 3	Benzo(a)pyrene	0.0345	mg/kg	U
21-11283	MD21-01-0286	3–3.5	Qbt 3	Dimethylphenol[2,4-]	0.345	mg/kg	U
21-11283	MD21-01-0286	3–3.5	Qbt 3	Benzo(k)fluoranthene	0.0345	mg/kg	U
21-11283	MD21-01-0286	3–3.5	Qbt 3	Phenol	0.345	mg/kg	U
21-11283	MD21-01-0286	3–3.5	Qbt 3	Azobenzene	0.0345	mg/kg	U
21-11283	MD21-01-0286	3–3.5	Qbt 3	Fluoranthene	0.0345	mg/kg	U
21-11283	MD21-01-0286	3–3.5	Qbt 3	Benzyl Alcohol	0.345	mg/kg	U
21-11283	MD21-01-0286	3–3.5	Qbt 3	Anthracene	0.0345	mg/kg	U
21-11283	MD21-01-0286	3–3.5	Qbt 3	Oxybis(1-chloropropane)[2,2'-]	0.345	mg/kg	U
21-11283	MD21-01-0286	3–3.5	Qbt 3	Dimethyl Phthalate	0.345	mg/kg	U
21-11283	MD21-01-0286	3–3.5	Qbt 3	Nitrophenol[4-]	0.345	mg/kg	U
21-11283	MD21-01-0286	3–3.5	Qbt 3	Chloroaniline[4-]	0.345	mg/kg	U
21-11283	MD21-01-0286	3–3.5	Qbt 3	Bis(2-chloroethyl)ether	0.345	mg/kg	U
21-11283	MD21-01-0286	3–3.5	Qbt 3	Bis(2-chloroethoxy)methane	0.345	mg/kg	U
21-11283	MD21-01-0286	3–3.5	Qbt 3	Aluminum	718	mg/kg	None
21-11283	MD21-01-0286	3–3.5	Qbt 3	Iron	3280	mg/kg	None
21-11283	MD21-01-0286	3–3.5	Qbt 3	Lead	3.42	mg/kg	J
21-11283	MD21-01-0286	3–3.5	Qbt 3	Magnesium	302	mg/kg	J+
21-11283	MD21-01-0286	3–3.5	Qbt 3	Manganese	185	mg/kg	None
21-11283	MD21-01-0286	3–3.5	Qbt 3	Potassium	169	mg/kg	J+
21-11283	MD21-01-0286	3–3.5	Qbt 3	Sodium	141	mg/kg	None
21-11283	MD21-01-0286	3–3.5	Qbt 3	Arsenic	3.01	mg/kg	None
21-11283	MD21-01-0286	3–3.5	Qbt 3	Barium	14.2	mg/kg	J+
21-11283	MD21-01-0286	3–3.5	Qbt 3	Cadmium	0.042	mg/kg	U
21-11283	MD21-01-0286	3–3.5	Qbt 3	Chromium	0.751	mg/kg	J
21-11283	MD21-02-49505	1.5–2	Qbt 3	Tritium	0.014269	pCi/g	None
21-11283	MD21-02-49505	1.5–2	Qbt 3	Plutonium-238	-0.0017	pCi/g	U
21-11283	MD21-02-49505	1.5–2	Qbt 3	Plutonium-239	0.0307	pCi/g	None
21-11283	MD21-02-49506	3–3.5	Qbt 3	Tritium	0.012793	pCi/g	None
21-11283	MD21-02-49506	3–3.5	Qbt 3	Plutonium-238	0.0018	pCi/g	U
21-11283	MD21-02-49506	3–3.5	Qbt 3	Plutonium-239	0	pCi/g	U
21-11284	MD21-01-0287	1.5–2	ALLH	Aroclor-1260	0.0035	mg/kg	U
21-11284	MD21-01-0287	1.5–2	ALLH	Aroclor-1254	0.0035	mg/kg	U
21-11284	MD21-01-0287	1.5–2	ALLH	Aroclor-1221	0.0035	mg/kg	U
21-11284	MD21-01-0287	1.5–2	ALLH	Aroclor-1232	0.0035	mg/kg	U
21-11284	MD21-01-0287	1.5–2	ALLH	Aroclor-1248	0.0035	mg/kg	U
21-11284	MD21-01-0287	1.5–2	ALLH	Aroclor-1016	0.0014	mg/kg	J
21-11284	MD21-01-0287	1.5–2	ALLH	Barium	9.91	mg/kg	J+
21-11284	MD21-01-0287	1.5–2	ALLH	Cadmium	0.043	mg/kg	U
21-11284	MD21-01-0287	1.5–2	ALLH	Chromium	0.942	mg/kg	J
21-11284	MD21-01-0287	1.5–2	ALLH	Antimony	0.038	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11284	MD21-01-0287	1.5–2	ALLH	Vanadium	2.36	mg/kg	None
21-11284	MD21-01-0287	1.5–2	ALLH	Copper	1.2	mg/kg	None
21-11284	MD21-01-0287	1.5–2	ALLH	Calcium	241	mg/kg	J
21-11284	MD21-01-0287	1.5–2	ALLH	Selenium	0.357	mg/kg	U
21-11284	MD21-01-0287	1.5–2	ALLH	Mercury	0.03	mg/kg	None
21-11284	MD21-01-0287	1.5–2	ALLH	Silver	0.054	mg/kg	J
21-11284	MD21-01-0287	1.5–2	ALLH	Thallium	0.136	mg/kg	None
21-11284	MD21-01-0287	1.5–2	ALLH	Dinitrotoluene[2,6-]	0.348	mg/kg	U
21-11284	MD21-01-0287	1.5–2	ALLH	Aroclor-1242	0.0035	mg/kg	U
21-11284	MD21-01-0287	1.5–2	ALLH	Fluoranthene	0.0141	mg/kg	J
21-11284	MD21-01-0287	1.5–2	ALLH	Trichlorobenzene[1,2,4-]	0.348	mg/kg	U
21-11284	MD21-01-0287	1.5–2	ALLH	Indeno(1,2,3-cd)pyrene	0.0348	mg/kg	U
21-11284	MD21-01-0287	1.5–2	ALLH	Nitrophenol[4-]	0.348	mg/kg	U
21-11284	MD21-01-0287	1.5–2	ALLH	Dibenzofuran	0.348	mg/kg	U
21-11284	MD21-01-0287	1.5–2	ALLH	Oxybis(1-chloropropane)[2,2'-]	0.348	mg/kg	U
21-11284	MD21-01-0287	1.5–2	ALLH	Benzo(k)fluoranthene	0.0348	mg/kg	U
21-11284	MD21-01-0287	1.5–2	ALLH	Pyridine	0.348	mg/kg	U
21-11284	MD21-01-0287	1.5–2	ALLH	Bis(2-chloroethyl)ether	0.348	mg/kg	U
21-11284	MD21-01-0287	1.5–2	ALLH	Pyrene	0.0187	mg/kg	J
21-11284	MD21-01-0287	1.5–2	ALLH	Bis(2-ethylhexyl)phthalate	0.166	mg/kg	J
21-11284	MD21-01-0287	1.5–2	ALLH	Bromophenyl-phenylether[4-]	0.348	mg/kg	U
21-11284	MD21-01-0287	1.5–2	ALLH	Acenaphthylene	0.0348	mg/kg	U
21-11284	MD21-01-0287	1.5–2	ALLH	Nitroaniline[4-]	0.348	mg/kg	U
21-11284	MD21-01-0287	1.5–2	ALLH	Benzo(g,h,i)perylene	0.0348	mg/kg	U
21-11284	MD21-01-0287	1.5–2	ALLH	Bis(2-chloroethoxy)methane	0.348	mg/kg	U
21-11284	MD21-01-0287	1.5–2	ALLH	Di-n-octylphthalate	0.348	mg/kg	U
21-11284	MD21-01-0287	1.5–2	ALLH	Dimethylphenol[2,4-]	0.348	mg/kg	U
21-11284	MD21-01-0287	1.5–2	ALLH	Benzyl Alcohol	0.348	mg/kg	U
21-11284	MD21-01-0287	1.5–2	ALLH	Benzo(b)fluoranthene	0.0348	mg/kg	U
21-11284	MD21-01-0287	1.5–2	ALLH	Diphenylamine	0.348	mg/kg	U
21-11284	MD21-01-0287	1.5–2	ALLH	Chloroaniline[4-]	0.348	mg/kg	U
21-11284	MD21-01-0287	1.5–2	ALLH	Dinitrotoluene[2,4-]	0.348	mg/kg	U
21-11284	MD21-01-0287	1.5–2	ALLH	Anthracene	0.0348	mg/kg	U
21-11284	MD21-01-0287	1.5–2	ALLH	Dimethyl Phthalate	0.348	mg/kg	U
21-11284	MD21-01-0287	1.5–2	ALLH	Hexachlorobenzene	0.348	mg/kg	U
21-11284	MD21-01-0287	1.5–2	ALLH	Methylphenol[4-]	0.348	mg/kg	U
21-11284	MD21-01-0287	1.5–2	ALLH	Dichlorophenol[2,4-]	0.348	mg/kg	U
21-11284	MD21-01-0287	1.5–2	ALLH	Dichlorobenzene[1,4-]	0.348	mg/kg	U
21-11284	MD21-01-0287	1.5–2	ALLH	Azobenzene	0.0348	mg/kg	U
21-11284	MD21-01-0287	1.5–2	ALLH	Phenol	0.348	mg/kg	U
21-11284	MD21-01-0287	1.5–2	ALLH	Perchlorate	0.0379	mg/kg	U
21-11284	MD21-01-0287	1.5–2	ALLH	Strontium-90	-0.0687	pCi/g	U
21-11284	MD21-01-0287	1.5–2	ALLH	Aluminum	446	mg/kg	None
21-11284	MD21-01-0287	1.5–2	ALLH	Iron	4750	mg/kg	None

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11284	MD21-01-0287	1.5–2	ALLH	Lead	4.15	mg/kg	J
21-11284	MD21-01-0287	1.5–2	ALLH	Magnesium	264	mg/kg	J+
21-11284	MD21-01-0287	1.5–2	ALLH	Manganese	208	mg/kg	None
21-11284	MD21-01-0287	1.5–2	ALLH	Potassium	133	mg/kg	J+
21-11284	MD21-01-0287	1.5–2	ALLH	Sodium	124	mg/kg	None
21-11284	MD21-01-0287	1.5–2	ALLH	Arsenic	2.46	mg/kg	None
21-11284	MD21-01-0287	1.5–2	ALLH	Beryllium	0.574	mg/kg	None
21-11284	MD21-01-0287	1.5–2	ALLH	Zinc	31.3	mg/kg	None
21-11284	MD21-01-0287	1.5–2	ALLH	Nickel	4.82	mg/kg	None
21-11284	MD21-01-0287	1.5–2	ALLH	Cobalt	0.384	mg/kg	J
21-11284	MD21-01-0287	1.5–2	ALLH	Sodium-22	0.0406	pCi/g	U
21-11284	MD21-01-0287	1.5–2	ALLH	Cobalt-60	-0.00204	pCi/g	U
21-11284	MD21-01-0287	1.5–2	ALLH	Cesium-134	-0.00684	pCi/g	U
21-11284	MD21-01-0287	1.5–2	ALLH	Europium-152	0.0294	pCi/g	U
21-11284	MD21-01-0287	1.5–2	ALLH	Americium-241	-0.0928	pCi/g	U
21-11284	MD21-01-0287	1.5–2	ALLH	Ruthenium-106	0.327	pCi/g	U
21-11284	MD21-01-0287	1.5–2	ALLH	Uranium-235	0.253	pCi/g	U
21-11284	MD21-01-0287	1.5–2	ALLH	Cesium-137	0.00462	pCi/g	U
21-11284	MD21-01-0287	1.5–2	ALLH	Chloro-3-methylphenol[4-]	0.348	mg/kg	U
21-11284	MD21-01-0287	1.5–2	ALLH	Trichlorophenol[2,4,6-]	0.348	mg/kg	U
21-11284	MD21-01-0287	1.5–2	ALLH	Methylphenol[2-]	0.348	mg/kg	U
21-11284	MD21-01-0287	1.5–2	ALLH	Chlorophenol[2-]	0.348	mg/kg	U
21-11284	MD21-01-0287	1.5–2	ALLH	Phenanthrene	0.0133	mg/kg	J
21-11284	MD21-01-0287	1.5–2	ALLH	Pentachlorophenol	0.348	mg/kg	U
21-11284	MD21-01-0287	1.5–2	ALLH	Dichlorobenzene[1,2-]	0.348	mg/kg	U
21-11284	MD21-01-0287	1.5–2	ALLH	Dinitro-2-methylphenol[4,6-]	0.348	mg/kg	U
21-11284	MD21-01-0287	1.5–2	ALLH	Nitrobenzene	0.348	mg/kg	U
21-11284	MD21-01-0287	1.5–2	ALLH	Chlorophenyl-phenyl[4-] Ether	0.348	mg/kg	U
21-11284	MD21-01-0287	1.5–2	ALLH	Nitroaniline[3-]	0.348	mg/kg	U
21-11284	MD21-01-0287	1.5–2	ALLH	Nitrosodimethylamine[N-]	0.348	mg/kg	U
21-11284	MD21-01-0287	1.5–2	ALLH	Trichlorophenol[2,4,5-]	0.348	mg/kg	U
21-11284	MD21-01-0287	1.5–2	ALLH	Methylnaphthalene[2-]	0.0348	mg/kg	U
21-11284	MD21-01-0287	1.5–2	ALLH	Benzoic Acid	0.695	mg/kg	U
21-11284	MD21-01-0287	1.5–2	ALLH	Di-n-butylphthalate	0.348	mg/kg	U
21-11284	MD21-01-0287	1.5–2	ALLH	Naphthalene	0.0348	mg/kg	U
21-11284	MD21-01-0287	1.5–2	ALLH	Benz(a)anthracene	0.0348	mg/kg	U
21-11284	MD21-01-0287	1.5–2	ALLH	Nitrophenol[2-]	0.348	mg/kg	U
21-11284	MD21-01-0287	1.5–2	ALLH	Hexachloroethane	0.348	mg/kg	U
21-11284	MD21-01-0287	1.5–2	ALLH	Nitroaniline[2-]	0.348	mg/kg	U
21-11284	MD21-01-0287	1.5–2	ALLH	Hexachlorocyclopentadiene	0.348	mg/kg	U
21-11284	MD21-01-0287	1.5–2	ALLH	Chrysene	0.0348	mg/kg	U
21-11284	MD21-01-0287	1.5–2	ALLH	Nitroso-di-n-propylamine[N-]	0.348	mg/kg	U
21-11284	MD21-01-0287	1.5–2	ALLH	Hexachlorobutadiene	0.348	mg/kg	U
21-11284	MD21-01-0287	1.5–2	ALLH	Dichlorobenzidine[3,3'-]	0.348	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11284	MD21-01-0287	1.5–2	ALLH	Diethylphthalate	0.348	mg/kg	U
21-11284	MD21-01-0287	1.5–2	ALLH	Dinitrophenol[2,4-]	0.695	mg/kg	U
21-11284	MD21-01-0287	1.5–2	ALLH	Benzo(a)pyrene	0.0348	mg/kg	U
21-11284	MD21-01-0287	1.5–2	ALLH	Dibenz(a,h)anthracene	0.0348	mg/kg	U
21-11284	MD21-01-0287	1.5–2	ALLH	Fluorene	0.0348	mg/kg	U
21-11284	MD21-01-0287	1.5–2	ALLH	Isophorone	0.348	mg/kg	U
21-11284	MD21-01-0287	1.5–2	ALLH	Acenaphthene	0.0348	mg/kg	U
21-11284	MD21-01-0287	1.5–2	ALLH	Chloronaphthalene[2-]	0.0348	mg/kg	U
21-11284	MD21-01-0287	1.5–2	ALLH	Aniline	0.348	mg/kg	U
21-11284	MD21-01-0287	1.5–2	ALLH	Dichlorobenzene[1,3-]	0.348	mg/kg	U
21-11284	MD21-01-0287	1.5–2	ALLH	Butylbenzylphthalate	0.348	mg/kg	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Aroclor-1260	0.0035	mg/kg	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Aroclor-1254	0.0035	mg/kg	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Aroclor-1221	0.0035	mg/kg	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Aroclor-1232	0.0035	mg/kg	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Aroclor-1248	0.0035	mg/kg	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Aroclor-1016	0.0035	mg/kg	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Aroclor-1242	0.0035	mg/kg	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Dichlorobenzene[1,2-]	0.347	mg/kg	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Trichlorophenol[2,4,5-]	0.347	mg/kg	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Dichlorobenzidine[3,3'-]	0.347	mg/kg	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Methylphenol[2-]	0.347	mg/kg	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Nitroaniline[3-]	0.347	mg/kg	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Chlorophenol[2-]	0.347	mg/kg	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Chloronaphthalene[2-]	0.0347	mg/kg	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Nitrobenzene	0.347	mg/kg	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Nitrosodimethylamine[N-]	0.347	mg/kg	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Bromophenyl-phenylether[4-]	0.347	mg/kg	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Methylphenol[4-]	0.347	mg/kg	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Hexachloroethane	0.347	mg/kg	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Dibenz(a,h)anthracene	0.0347	mg/kg	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Dinitrotoluene[2,6-]	0.347	mg/kg	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Azobenzene	0.0347	mg/kg	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Di-n-butylphthalate	0.347	mg/kg	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Hexachlorocyclopentadiene	0.347	mg/kg	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Acenaphthene	0.0347	mg/kg	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Benzoic Acid	0.694	mg/kg	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Trichlorobenzene[1,2,4-]	0.347	mg/kg	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Nitrophenol[4-]	0.347	mg/kg	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Hexachlorobenzene	0.347	mg/kg	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Benzo(a)pyrene	0.0347	mg/kg	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Dimethylphenol[2,4-]	0.347	mg/kg	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Dinitrotoluene[2,4-]	0.347	mg/kg	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Nitroso-di-n-propylamine[N-]	0.347	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11284	MD21-01-0288	3–3.5	Qbt 3	Phenanthrene	0.0347	mg/kg	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Trichlorophenol[2,4,6-]	0.347	mg/kg	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Butylbenzylphthalate	0.347	mg/kg	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Bis(2-chloroethyl)ether	0.347	mg/kg	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Benzo(b)fluoranthene	0.0347	mg/kg	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Chrysene	0.0347	mg/kg	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Pyridine	0.347	mg/kg	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Bis(2-chloroethoxy)methane	0.347	mg/kg	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Dinitro-2-methylphenol[4,6-]	0.347	mg/kg	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Dichlorophenol[2,4-]	0.347	mg/kg	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Benz(a)anthracene	0.0347	mg/kg	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Nitrophenol[2-]	0.347	mg/kg	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Benzyl Alcohol	0.347	mg/kg	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Indeno(1,2,3-cd)pyrene	0.0347	mg/kg	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Fluoranthene	0.0347	mg/kg	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Oxybis(1-chloropropane)[2,2'-]	0.347	mg/kg	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Dimethyl Phthalate	0.347	mg/kg	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Dichlorobenzene[1,4-]	0.347	mg/kg	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Chlorophenyl-phenyl[4-] Ether	0.347	mg/kg	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Benzo(k)fluoranthene	0.0347	mg/kg	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Dichlorobenzene[1,3-]	0.347	mg/kg	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Hexachlorobutadiene	0.347	mg/kg	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Pentachlorophenol	0.347	mg/kg	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Chloro-3-methylphenol[4-]	0.347	mg/kg	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Di-n-octylphthalate	0.347	mg/kg	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Diphenylamine	0.347	mg/kg	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Bis(2-ethylhexyl)phthalate	0.15	mg/kg	J
21-11284	MD21-01-0288	3–3.5	Qbt 3	Isophorone	0.347	mg/kg	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Nitroaniline[2-]	0.347	mg/kg	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Pyrene	0.0347	mg/kg	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Phenol	0.347	mg/kg	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Anthracene	0.0347	mg/kg	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Dinitrophenol[2,4-]	0.694	mg/kg	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Acenaphthylene	0.0347	mg/kg	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Chloroaniline[4-]	0.347	mg/kg	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Methylnaphthalene[2-]	0.0347	mg/kg	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Benzo(g,h,i)perylene	0.0347	mg/kg	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Naphthalene	0.0347	mg/kg	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Aniline	0.347	mg/kg	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Dibenzofuran	0.347	mg/kg	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Nitroaniline[4-]	0.347	mg/kg	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Fluorene	0.0347	mg/kg	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Diethylphthalate	0.347	mg/kg	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Perchlorate	0.0378	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11284	MD21-01-0288	3–3.5	Qbt 3	Strontium-90	-0.174	pCi/g	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Manganese	207	mg/kg	None
21-11284	MD21-01-0288	3–3.5	Qbt 3	Nickel	1.31	mg/kg	None
21-11284	MD21-01-0288	3–3.5	Qbt 3	Chromium	7.95	mg/kg	J
21-11284	MD21-01-0288	3–3.5	Qbt 3	Cobalt	3.25	mg/kg	None
21-11284	MD21-01-0288	3–3.5	Qbt 3	Iron	11400	mg/kg	None
21-11284	MD21-01-0288	3–3.5	Qbt 3	Zinc	47	mg/kg	None
21-11284	MD21-01-0288	3–3.5	Qbt 3	Beryllium	0.108	mg/kg	None
21-11284	MD21-01-0288	3–3.5	Qbt 3	Mercury	0.01	mg/kg	J
21-11284	MD21-01-0288	3–3.5	Qbt 3	Potassium	1140	mg/kg	None
21-11284	MD21-01-0288	3–3.5	Qbt 3	Thallium	0.245	mg/kg	None
21-11284	MD21-01-0288	3–3.5	Qbt 3	Arsenic	3.96	mg/kg	None
21-11284	MD21-01-0288	3–3.5	Qbt 3	Barium	101	mg/kg	J+
21-11284	MD21-01-0288	3–3.5	Qbt 3	Aluminum	15000	mg/kg	None
21-11284	MD21-01-0288	3–3.5	Qbt 3	Sodium	327	mg/kg	None
21-11284	MD21-01-0288	3–3.5	Qbt 3	Copper	4.21	mg/kg	None
21-11284	MD21-01-0288	3–3.5	Qbt 3	Magnesium	2680	mg/kg	J+
21-11284	MD21-01-0288	3–3.5	Qbt 3	Selenium	0.428	mg/kg	J
21-11284	MD21-01-0288	3–3.5	Qbt 3	Antimony	0.021	mg/kg	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Cadmium	0.044	mg/kg	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Vanadium	14.1	mg/kg	None
21-11284	MD21-01-0288	3–3.5	Qbt 3	Lead	11	mg/kg	J
21-11284	MD21-01-0288	3–3.5	Qbt 3	Calcium	2500	mg/kg	J
21-11284	MD21-01-0288	3–3.5	Qbt 3	Silver	0.01	mg/kg	J
21-11284	MD21-01-0288	3–3.5	Qbt 3	Cesium-137	-0.00583	pCi/g	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Ruthenium-106	-0.0647	pCi/g	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Uranium-235	0.202	pCi/g	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Cobalt-60	-0.0267	pCi/g	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Cesium-134	0.00038	pCi/g	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Europium-152	-0.0443	pCi/g	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Americium-241	-0.114	pCi/g	U
21-11284	MD21-01-0288	3–3.5	Qbt 3	Sodium-22	-0.0007	pCi/g	U
21-11284	MD21-02-49507	1.75–2.5	Qbt 3	Tritium	0.005095	pCi/g	U
21-11284	MD21-02-49507	1.75–2.5	Qbt 3	Plutonium-238	0.00355	pCi/g	U
21-11284	MD21-02-49507	1.75–2.5	Qbt 3	Plutonium-239	-0.00355	pCi/g	U
21-11284	MD21-02-49508	1.75–2.5	Qbt 3	Tritium	-0.572	pCi/g	U
21-11284	MD21-02-49508	1.75–2.5	Qbt 3	Plutonium-238	-0.00163	pCi/g	U
21-11284	MD21-02-49508	1.75–2.5	Qbt 3	Plutonium-239	-0.0163	pCi/g	U
21-11284	MD21-02-49509	3.5–4	Qbt 3	Tritium	0.031534	pCi/g	None
21-11284	MD21-02-49509	3.5–4	Qbt 3	Plutonium-238	0	pCi/g	U
21-11284	MD21-02-49509	3.5–4	Qbt 3	Plutonium-239	-0.00449	pCi/g	U
21-11285	MD21-01-0289	1.5–2	ALLH	Aroclor-1260	0.0035	mg/kg	U
21-11285	MD21-01-0289	1.5–2	ALLH	Aroclor-1254	0.0035	mg/kg	U
21-11285	MD21-01-0289	1.5–2	ALLH	Aroclor-1221	0.0035	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11285	MD21-01-0289	1.5–2	ALLH	Aroclor-1232	0.0035	mg/kg	U
21-11285	MD21-01-0289	1.5–2	ALLH	Aroclor-1248	0.0035	mg/kg	U
21-11285	MD21-01-0289	1.5–2	ALLH	Aroclor-1016	0.0035	mg/kg	U
21-11285	MD21-01-0289	1.5–2	ALLH	Aroclor-1242	0.0035	mg/kg	U
21-11285	MD21-01-0289	1.5–2	ALLH	Chloronaphthalene[2-]	0.0351	mg/kg	U
21-11285	MD21-01-0289	1.5–2	ALLH	Dichlorobenzene[1,2-]	0.351	mg/kg	U
21-11285	MD21-01-0289	1.5–2	ALLH	Chlorophenol[2-]	0.351	mg/kg	U
21-11285	MD21-01-0289	1.5–2	ALLH	Naphthalene	0.0351	mg/kg	U
21-11285	MD21-01-0289	1.5–2	ALLH	Methylnaphthalene[2-]	0.0351	mg/kg	U
21-11285	MD21-01-0289	1.5–2	ALLH	Trichlorophenol[2,4,5-]	0.351	mg/kg	U
21-11285	MD21-01-0289	1.5–2	ALLH	Nitrobenzene	0.351	mg/kg	U
21-11285	MD21-01-0289	1.5–2	ALLH	Nitroaniline[3-]	0.351	mg/kg	U
21-11285	MD21-01-0289	1.5–2	ALLH	Nitrophenol[2-]	0.351	mg/kg	U
21-11285	MD21-01-0289	1.5–2	ALLH	Dichlorobenzidine[3,3'-]	0.351	mg/kg	U
21-11285	MD21-01-0289	1.5–2	ALLH	Dibenzofuran	0.003	mg/kg	J
21-11285	MD21-01-0289	1.5–2	ALLH	Methylphenol[2-]	0.351	mg/kg	U
21-11285	MD21-01-0289	1.5–2	ALLH	Phenanthrene	0.0453	mg/kg	None
21-11285	MD21-01-0289	1.5–2	ALLH	Acenaphthene	0.0351	mg/kg	U
21-11285	MD21-01-0289	1.5–2	ALLH	Acenaphthylene	0.0351	mg/kg	U
21-11285	MD21-01-0289	1.5–2	ALLH	Dibenz(a,h)anthracene	0.0351	mg/kg	U
21-11285	MD21-01-0289	1.5–2	ALLH	Methylphenol[4-]	0.351	mg/kg	U
21-11285	MD21-01-0289	1.5–2	ALLH	Di-n-octylphthalate	0.351	mg/kg	U
21-11285	MD21-01-0289	1.5–2	ALLH	Benzyl Alcohol	0.351	mg/kg	U
21-11285	MD21-01-0289	1.5–2	ALLH	Bis(2-chloroethoxy)methane	0.351	mg/kg	U
21-11285	MD21-01-0289	1.5–2	ALLH	Diphenylamine	0.351	mg/kg	U
21-11285	MD21-01-0289	1.5–2	ALLH	Chloroaniline[4-]	0.351	mg/kg	U
21-11285	MD21-01-0289	1.5–2	ALLH	Anthracene	0.01	mg/kg	J
21-11285	MD21-01-0289	1.5–2	ALLH	Nitrophenol[4-]	0.351	mg/kg	U
21-11285	MD21-01-0289	1.5–2	ALLH	Oxybis(1-chloropropane)[2,2'-]	0.351	mg/kg	U
21-11285	MD21-01-0289	1.5–2	ALLH	Trichlorobenzene[1,2,4-]	0.351	mg/kg	U
21-11285	MD21-01-0289	1.5–2	ALLH	Dimethyl Phthalate	0.351	mg/kg	U
21-11285	MD21-01-0289	1.5–2	ALLH	Bis(2-chloroethyl)ether	0.351	mg/kg	U
21-11285	MD21-01-0289	1.5–2	ALLH	Dichlorophenol[2,4-]	0.351	mg/kg	U
21-11285	MD21-01-0289	1.5–2	ALLH	Bis(2-ethylhexyl)phthalate	0.233	mg/kg	J
21-11285	MD21-01-0289	1.5–2	ALLH	Pyrene	0.0356	mg/kg	None
21-11285	MD21-01-0289	1.5–2	ALLH	Dimethylphenol[2,4-]	0.351	mg/kg	U
21-11285	MD21-01-0289	1.5–2	ALLH	Dinitrotoluene[2,4-]	0.351	mg/kg	U
21-11285	MD21-01-0289	1.5–2	ALLH	Phenol	0.351	mg/kg	U
21-11285	MD21-01-0289	1.5–2	ALLH	Perchlorate	0.038	mg/kg	U
21-11285	MD21-01-0289	1.5–2	ALLH	Dichlorobenzene[1,3-]	0.351	mg/kg	U
21-11285	MD21-01-0289	1.5–2	ALLH	Bromophenyl-phenylether[4-]	0.351	mg/kg	U
21-11285	MD21-01-0289	1.5–2	ALLH	Pyridine	0.351	mg/kg	U
21-11285	MD21-01-0289	1.5–2	ALLH	Magnesium	754	mg/kg	J+
21-11285	MD21-01-0289	1.5–2	ALLH	Vanadium	4.62	mg/kg	None

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11285	MD21-01-0289	1.5–2	ALLH	Manganese	205	mg/kg	None
21-11285	MD21-01-0289	1.5–2	ALLH	Zinc	36.7	mg/kg	None
21-11285	MD21-01-0289	1.5–2	ALLH	Arsenic	2.07	mg/kg	None
21-11285	MD21-01-0289	1.5–2	ALLH	Antimony	0.021	mg/kg	U
21-11285	MD21-01-0289	1.5–2	ALLH	Beryllium	0.508	mg/kg	None
21-11285	MD21-01-0289	1.5–2	ALLH	Thallium	0.135	mg/kg	None
21-11285	MD21-01-0289	1.5–2	ALLH	Cobalt	0.727	mg/kg	None
21-11285	MD21-01-0289	1.5–2	ALLH	Chromium	2.94	mg/kg	J
21-11285	MD21-01-0289	1.5–2	ALLH	Lead	4.32	mg/kg	J
21-11285	MD21-01-0289	1.5–2	ALLH	Selenium	0.35	mg/kg	J
21-11285	MD21-01-0289	1.5–2	ALLH	Copper	1.77	mg/kg	None
21-11285	MD21-01-0289	1.5–2	ALLH	Nickel	7.47	mg/kg	None
21-11285	MD21-01-0289	1.5–2	ALLH	Aluminum	4100	mg/kg	None
21-11285	MD21-01-0289	1.5–2	ALLH	Potassium	434	mg/kg	J+
21-11285	MD21-01-0289	1.5–2	ALLH	Cadmium	0.041	mg/kg	U
21-11285	MD21-01-0289	1.5–2	ALLH	Silver	0.008	mg/kg	J
21-11285	MD21-01-0289	1.5–2	ALLH	Mercury	0.02	mg/kg	None
21-11285	MD21-01-0289	1.5–2	ALLH	Iron	5630	mg/kg	None
21-11285	MD21-01-0289	1.5–2	ALLH	Sodium	350	mg/kg	None
21-11285	MD21-01-0289	1.5–2	ALLH	Cobalt-60	0.00704	pCi/g	U
21-11285	MD21-01-0289	1.5–2	ALLH	Uranium-235	0.168	pCi/g	U
21-11285	MD21-01-0289	1.5–2	ALLH	Sodium-22	0.0185	pCi/g	U
21-11285	MD21-01-0289	1.5–2	ALLH	Americium-241	0.0124	pCi/g	U
21-11285	MD21-01-0289	1.5–2	ALLH	Europium-152	0.00983	pCi/g	U
21-11285	MD21-01-0289	1.5–2	ALLH	Cesium-134	-0.00154	pCi/g	U
21-11285	MD21-01-0289	1.5–2	ALLH	Ruthenium-106	0.196	pCi/g	U
21-11285	MD21-01-0289	1.5–2	ALLH	Cesium-137	-0.0092	pCi/g	U
21-11285	MD21-01-0289	1.5–2	ALLH	Nitroaniline[4-]	0.351	mg/kg	U
21-11285	MD21-01-0289	1.5–2	ALLH	Barium	21.3	mg/kg	J+
21-11285	MD21-01-0289	1.5–2	ALLH	Strontium-90	0.0601	pCi/g	U
21-11285	MD21-01-0289	1.5–2	ALLH	Calcium	817	mg/kg	J
21-11285	MD21-01-0289	1.5–2	ALLH	Trichlorophenol[2,4,6-]	0.351	mg/kg	U
21-11285	MD21-01-0289	1.5–2	ALLH	Indeno(1,2,3-cd)pyrene	0.0351	mg/kg	U
21-11285	MD21-01-0289	1.5–2	ALLH	Benzo(b)fluoranthene	0.0351	mg/kg	U
21-11285	MD21-01-0289	1.5–2	ALLH	Benzo(a)pyrene	0.0351	mg/kg	U
21-11285	MD21-01-0289	1.5–2	ALLH	Hexachlorobutadiene	0.351	mg/kg	U
21-11285	MD21-01-0289	1.5–2	ALLH	Pentachlorophenol	0.351	mg/kg	U
21-11285	MD21-01-0289	1.5–2	ALLH	Aniline	0.351	mg/kg	U
21-11285	MD21-01-0289	1.5–2	ALLH	Chrysene	0.0351	mg/kg	U
21-11285	MD21-01-0289	1.5–2	ALLH	Chloro-3-methylphenol[4-]	0.351	mg/kg	U
21-11285	MD21-01-0289	1.5–2	ALLH	Hexachlorocyclopentadiene	0.351	mg/kg	U
21-11285	MD21-01-0289	1.5–2	ALLH	Dinitro-2-methylphenol[4,6-]	0.351	mg/kg	U
21-11285	MD21-01-0289	1.5–2	ALLH	Dinitrotoluene[2,6-]	0.351	mg/kg	U
21-11285	MD21-01-0289	1.5–2	ALLH	Dinitrophenol[2,4-]	0.702	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11285	MD21-01-0289	1.5–2	ALLH	Di-n-butylphthalate	0.023	mg/kg	J
21-11285	MD21-01-0289	1.5–2	ALLH	Benzo(g,h,i)perylene	0.0351	mg/kg	U
21-11285	MD21-01-0289	1.5–2	ALLH	Benz(a)anthracene	0.0351	mg/kg	U
21-11285	MD21-01-0289	1.5–2	ALLH	Diethylphthalate	0.351	mg/kg	U
21-11285	MD21-01-0289	1.5–2	ALLH	Chlorophenyl-phenyl[4-] Ether	0.351	mg/kg	U
21-11285	MD21-01-0289	1.5–2	ALLH	Benzo(k)fluoranthene	0.0351	mg/kg	U
21-11285	MD21-01-0289	1.5–2	ALLH	Hexachloroethane	0.351	mg/kg	U
21-11285	MD21-01-0289	1.5–2	ALLH	Nitroso-di-n-propylamine[N-]	0.351	mg/kg	U
21-11285	MD21-01-0289	1.5–2	ALLH	Butylbenzylphthalate	0.0162	mg/kg	J
21-11285	MD21-01-0289	1.5–2	ALLH	Nitrosodimethylamine[N-]	0.351	mg/kg	U
21-11285	MD21-01-0289	1.5–2	ALLH	Benzoic Acid	0.702	mg/kg	U
21-11285	MD21-01-0289	1.5–2	ALLH	Fluoranthene	0.0359	mg/kg	None
21-11285	MD21-01-0289	1.5–2	ALLH	Isophorone	0.351	mg/kg	U
21-11285	MD21-01-0289	1.5–2	ALLH	Nitroaniline[2-]	0.351	mg/kg	U
21-11285	MD21-01-0289	1.5–2	ALLH	Fluorene	0.0052	mg/kg	J
21-11285	MD21-01-0289	1.5–2	ALLH	Azobenzene	0.0351	mg/kg	U
21-11285	MD21-01-0289	1.5–2	ALLH	Dichlorobenzene[1,4-]	0.351	mg/kg	U
21-11285	MD21-01-0289	1.5–2	ALLH	Hexachlorobenzene	0.351	mg/kg	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Uranium-235	0.172	pCi/g	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Cobalt-60	-0.0157	pCi/g	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Europium-152	-0.0776	pCi/g	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Americium-241	0.0213	pCi/g	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Cesium-137	0.00821	pCi/g	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Aroclor-1260	0.0035	mg/kg	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Aroclor-1254	0.0035	mg/kg	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Aroclor-1221	0.0035	mg/kg	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Aroclor-1232	0.0035	mg/kg	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Aroclor-1248	0.0035	mg/kg	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Aroclor-1016	0.0035	mg/kg	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Aroclor-1242	0.0035	mg/kg	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Azobenzene	0.0354	mg/kg	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Methylnaphthalene[2-]	0.0354	mg/kg	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Pyrene	0.0354	mg/kg	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Benzo(g,h,i)perylene	0.0354	mg/kg	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Indeno(1,2,3-cd)pyrene	0.0354	mg/kg	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Dibenz(a,h)anthracene	0.0354	mg/kg	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Dinitro-2-methylphenol[4,6-]	0.354	mg/kg	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Benzoic Acid	0.709	mg/kg	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Chlorophenyl-phenyl[4-] Ether	0.354	mg/kg	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Trichlorophenol[2,4,6-]	0.354	mg/kg	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Nitroaniline[2-]	0.354	mg/kg	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Dibenzofuran	0.354	mg/kg	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Benz(a)anthracene	0.0354	mg/kg	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Hexachlorocyclopentadiene	0.354	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11285	MD21-01-0290	3–3.5	Qbt 3	Phenanthrene	0.0354	mg/kg	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Fluorene	0.0354	mg/kg	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Dichlorobenzidine[3,3'-]	0.354	mg/kg	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Chlorophenol[2-]	0.354	mg/kg	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Trichlorophenol[2,4,5-]	0.354	mg/kg	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Dimethyl Phthalate	0.354	mg/kg	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Dichlorobenzene[1,2-]	0.354	mg/kg	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Benzo(a)pyrene	0.0354	mg/kg	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Butylbenzylphthalate	0.354	mg/kg	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Dinitrotoluene[2,6-]	0.354	mg/kg	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Dimethylphenol[2,4-]	0.354	mg/kg	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Dichlorobenzene[1,4-]	0.354	mg/kg	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Chloroaniline[4-]	0.354	mg/kg	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Diethylphthalate	0.354	mg/kg	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Nitrosodimethylamine[N-]	0.354	mg/kg	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Chloronaphthalene[2-]	0.0354	mg/kg	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Nitroaniline[3-]	0.354	mg/kg	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Oxybis(1-chloropropane)[2,2'-]	0.354	mg/kg	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Di-n-octylphthalate	0.354	mg/kg	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Acenaphthylene	0.0354	mg/kg	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Chloro-3-methylphenol[4-]	0.354	mg/kg	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Hexachloroethane	0.354	mg/kg	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Acenaphthene	0.0354	mg/kg	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Bis(2-chloroethoxy)methane	0.354	mg/kg	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Methylphenol[2-]	0.354	mg/kg	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Nitrobenzene	0.354	mg/kg	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Fluoranthene	0.0354	mg/kg	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Bis(2-chloroethyl)ether	0.354	mg/kg	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Dinitrotoluene[2,4-]	0.354	mg/kg	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Chrysene	0.0354	mg/kg	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Bromophenyl-phenylether[4-]	0.354	mg/kg	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Phenol	0.354	mg/kg	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Dinitrophenol[2,4-]	0.709	mg/kg	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Pentachlorophenol	0.354	mg/kg	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Di-n-butylphthalate	0.354	mg/kg	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Benzyl Alcohol	0.354	mg/kg	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Isophorone	0.354	mg/kg	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Hexachlorobenzene	0.354	mg/kg	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Benzo(b)fluoranthene	0.0354	mg/kg	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Benzo(k)fluoranthene	0.0354	mg/kg	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Aniline	0.354	mg/kg	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Nitroso-di-n-propylamine[N-]	0.354	mg/kg	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Diphenylamine	0.354	mg/kg	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Dichlorophenol[2,4-]	0.354	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11285	MD21-01-0290	3–3.5	Qbt 3	Dichlorobenzene[1,3-]	0.354	mg/kg	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Nitrophenol[2-]	0.354	mg/kg	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Naphthalene	0.0354	mg/kg	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Nitroaniline[4-]	0.354	mg/kg	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Pyridine	0.354	mg/kg	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Trichlorobenzene[1,2,4-]	0.354	mg/kg	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Methylphenol[4-]	0.354	mg/kg	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Anthracene	0.0354	mg/kg	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Hexachlorobutadiene	0.354	mg/kg	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Bis(2-ethylhexyl)phthalate	0.152	mg/kg	J
21-11285	MD21-01-0290	3–3.5	Qbt 3	Nitrophenol[4-]	0.354	mg/kg	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Perchlorate	0.0154	mg/kg	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Strontium-90	-0.147	pCi/g	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Mercury	0.01	mg/kg	None
21-11285	MD21-01-0290	3–3.5	Qbt 3	Antimony	0.019	mg/kg	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Cobalt	0.669	mg/kg	None
21-11285	MD21-01-0290	3–3.5	Qbt 3	Beryllium	0.445	mg/kg	None
21-11285	MD21-01-0290	3–3.5	Qbt 3	Vanadium	4.64	mg/kg	None
21-11285	MD21-01-0290	3–3.5	Qbt 3	Copper	1.76	mg/kg	None
21-11285	MD21-01-0290	3–3.5	Qbt 3	Zinc	41.2	mg/kg	None
21-11285	MD21-01-0290	3–3.5	Qbt 3	Calcium	934	mg/kg	J
21-11285	MD21-01-0290	3–3.5	Qbt 3	Chromium	2.78	mg/kg	J
21-11285	MD21-01-0290	3–3.5	Qbt 3	Selenium	0.478	mg/kg	J
21-11285	MD21-01-0290	3–3.5	Qbt 3	Nickel	6.82	mg/kg	None
21-11285	MD21-01-0290	3–3.5	Qbt 3	Thallium	0.103	mg/kg	J
21-11285	MD21-01-0290	3–3.5	Qbt 3	Silver	0.015	mg/kg	J
21-11285	MD21-01-0290	3–3.5	Qbt 3	Iron	6330	mg/kg	None
21-11285	MD21-01-0290	3–3.5	Qbt 3	Manganese	215	mg/kg	None
21-11285	MD21-01-0290	3–3.5	Qbt 3	Sodium	146	mg/kg	None
21-11285	MD21-01-0290	3–3.5	Qbt 3	Aluminum	3900	mg/kg	None
21-11285	MD21-01-0290	3–3.5	Qbt 3	Cadmium	0.043	mg/kg	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Arsenic	2.59	mg/kg	None
21-11285	MD21-01-0290	3–3.5	Qbt 3	Barium	30.7	mg/kg	J+
21-11285	MD21-01-0290	3–3.5	Qbt 3	Potassium	373	mg/kg	J+
21-11285	MD21-01-0290	3–3.5	Qbt 3	Lead	4.49	mg/kg	J
21-11285	MD21-01-0290	3–3.5	Qbt 3	Magnesium	789	mg/kg	J+
21-11285	MD21-01-0290	3–3.5	Qbt 3	Sodium-22	0.0118	pCi/g	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Ruthenium-106	0.112	pCi/g	U
21-11285	MD21-01-0290	3–3.5	Qbt 3	Cesium-134	-0.00945	pCi/g	U
21-11286	MD21-01-0291	1.5–2	ALLH	Aroclor-1260	0.0034	mg/kg	U
21-11286	MD21-01-0291	1.5–2	ALLH	Aroclor-1254	0.0034	mg/kg	U
21-11286	MD21-01-0291	1.5–2	ALLH	Aroclor-1221	0.0034	mg/kg	U
21-11286	MD21-01-0291	1.5–2	ALLH	Aroclor-1232	0.0034	mg/kg	U
21-11286	MD21-01-0291	1.5–2	ALLH	Aroclor-1248	0.0034	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11286	MD21-01-0291	1.5–2	ALLH	Aroclor-1016	0.0034	mg/kg	U
21-11286	MD21-01-0291	1.5–2	ALLH	Aroclor-1242	0.0034	mg/kg	U
21-11286	MD21-01-0291	1.5–2	ALLH	Butylbenzylphthalate	0.343	mg/kg	U
21-11286	MD21-01-0291	1.5–2	ALLH	Fluorene	0.0343	mg/kg	U
21-11286	MD21-01-0291	1.5–2	ALLH	Hexachlorobutadiene	0.343	mg/kg	U
21-11286	MD21-01-0291	1.5–2	ALLH	Pentachlorophenol	0.343	mg/kg	U
21-11286	MD21-01-0291	1.5–2	ALLH	Trichlorophenol[2,4,6-]	0.343	mg/kg	U
21-11286	MD21-01-0291	1.5–2	ALLH	Nitroaniline[2-]	0.343	mg/kg	U
21-11286	MD21-01-0291	1.5–2	ALLH	Nitrophenol[2-]	0.343	mg/kg	U
21-11286	MD21-01-0291	1.5–2	ALLH	Naphthalene	0.0343	mg/kg	U
21-11286	MD21-01-0291	1.5–2	ALLH	Methylnaphthalene[2-]	0.0343	mg/kg	U
21-11286	MD21-01-0291	1.5–2	ALLH	Chloronaphthalene[2-]	0.0343	mg/kg	U
21-11286	MD21-01-0291	1.5–2	ALLH	Dichlorobenzidine[3,3'-]	0.343	mg/kg	U
21-11286	MD21-01-0291	1.5–2	ALLH	Methylphenol[2-]	0.343	mg/kg	U
21-11286	MD21-01-0291	1.5–2	ALLH	Dichlorobenzene[1,2-]	0.343	mg/kg	U
21-11286	MD21-01-0291	1.5–2	ALLH	Chlorophenol[2-]	0.343	mg/kg	U
21-11286	MD21-01-0291	1.5–2	ALLH	Trichlorophenol[2,4,5-]	0.343	mg/kg	U
21-11286	MD21-01-0291	1.5–2	ALLH	Nitrobenzene	0.343	mg/kg	U
21-11286	MD21-01-0291	1.5–2	ALLH	Nitroaniline[3-]	0.343	mg/kg	U
21-11286	MD21-01-0291	1.5–2	ALLH	Azobenzene	0.0343	mg/kg	U
21-11286	MD21-01-0291	1.5–2	ALLH	Dinitrotoluene[2,4-]	0.343	mg/kg	U
21-11286	MD21-01-0291	1.5–2	ALLH	Diphenylamine	0.343	mg/kg	U
21-11286	MD21-01-0291	1.5–2	ALLH	Pyrene	0.0343	mg/kg	U
21-11286	MD21-01-0291	1.5–2	ALLH	Dimethyl Phthalate	0.343	mg/kg	U
21-11286	MD21-01-0291	1.5–2	ALLH	Dibenzofuran	0.343	mg/kg	U
21-11286	MD21-01-0291	1.5–2	ALLH	Benzo(g,h,i)perylene	0.0343	mg/kg	U
21-11286	MD21-01-0291	1.5–2	ALLH	Indeno(1,2,3-cd)pyrene	0.0343	mg/kg	U
21-11286	MD21-01-0291	1.5–2	ALLH	Benzo(b)fluoranthene	0.0343	mg/kg	U
21-11286	MD21-01-0291	1.5–2	ALLH	Fluoranthene	0.0343	mg/kg	U
21-11286	MD21-01-0291	1.5–2	ALLH	Benzo(k)fluoranthene	0.0343	mg/kg	U
21-11286	MD21-01-0291	1.5–2	ALLH	Acenaphthylene	0.0343	mg/kg	U
21-11286	MD21-01-0291	1.5–2	ALLH	Chrysene	0.0343	mg/kg	U
21-11286	MD21-01-0291	1.5–2	ALLH	Benzo(a)pyrene	0.0343	mg/kg	U
21-11286	MD21-01-0291	1.5–2	ALLH	Dinitrophenol[2,4-]	0.686	mg/kg	U
21-11286	MD21-01-0291	1.5–2	ALLH	Dibenz(a,h)anthracene	0.0343	mg/kg	U
21-11286	MD21-01-0291	1.5–2	ALLH	Dinitro-2-methylphenol[4,6-]	0.343	mg/kg	U
21-11286	MD21-01-0291	1.5–2	ALLH	Dichlorobenzene[1,3-]	0.343	mg/kg	U
21-11286	MD21-01-0291	1.5–2	ALLH	Benz(a)anthracene	0.0343	mg/kg	U
21-11286	MD21-01-0291	1.5–2	ALLH	Chloro-3-methylphenol[4-]	0.343	mg/kg	U
21-11286	MD21-01-0291	1.5–2	ALLH	Dinitrotoluene[2,6-]	0.343	mg/kg	U
21-11286	MD21-01-0291	1.5–2	ALLH	Aniline	0.343	mg/kg	U
21-11286	MD21-01-0291	1.5–2	ALLH	Nitrosodimethylamine[N-]	0.343	mg/kg	U
21-11286	MD21-01-0291	1.5–2	ALLH	Nitroso-di-n-propylamine[N-]	0.343	mg/kg	U
21-11286	MD21-01-0291	1.5–2	ALLH	Benzoic Acid	0.686	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11286	MD21-01-0291	1.5–2	ALLH	Hexachloroethane	0.343	mg/kg	U
21-11286	MD21-01-0291	1.5–2	ALLH	Chlorophenyl-phenyl[4-] Ether	0.343	mg/kg	U
21-11286	MD21-01-0291	1.5–2	ALLH	Hexachlorocyclopentadiene	0.343	mg/kg	U
21-11286	MD21-01-0291	1.5–2	ALLH	Isophorone	0.343	mg/kg	U
21-11286	MD21-01-0291	1.5–2	ALLH	Acenaphthene	0.0343	mg/kg	U
21-11286	MD21-01-0291	1.5–2	ALLH	Diethylphthalate	0.343	mg/kg	U
21-11286	MD21-01-0291	1.5–2	ALLH	Di-n-butylphthalate	0.343	mg/kg	U
21-11286	MD21-01-0291	1.5–2	ALLH	Phenanthrene	0.0343	mg/kg	U
21-11286	MD21-01-0291	1.5–2	ALLH	Nitrophenol[4-]	0.343	mg/kg	U
21-11286	MD21-01-0291	1.5–2	ALLH	Methylphenol[4-]	0.343	mg/kg	U
21-11286	MD21-01-0291	1.5–2	ALLH	Hexachlorobenzene	0.343	mg/kg	U
21-11286	MD21-01-0291	1.5–2	ALLH	Anthracene	0.0343	mg/kg	U
21-11286	MD21-01-0291	1.5–2	ALLH	Bis(2-ethylhexyl)phthalate	0.156	mg/kg	J
21-11286	MD21-01-0291	1.5–2	ALLH	Bis(2-chloroethyl)ether	0.343	mg/kg	U
21-11286	MD21-01-0291	1.5–2	ALLH	Bromophenyl-phenylether[4-]	0.343	mg/kg	U
21-11286	MD21-01-0291	1.5–2	ALLH	Chloroaniline[4-]	0.343	mg/kg	U
21-11286	MD21-01-0291	1.5–2	ALLH	Phenol	0.343	mg/kg	U
21-11286	MD21-01-0291	1.5–2	ALLH	Dichlorophenol[2,4-]	0.343	mg/kg	U
21-11286	MD21-01-0291	1.5–2	ALLH	Di-n-octylphthalate	0.343	mg/kg	U
21-11286	MD21-01-0291	1.5–2	ALLH	Trichlorobenzene[1,2,4-]	0.343	mg/kg	U
21-11286	MD21-01-0291	1.5–2	ALLH	Dichlorobenzene[1,4-]	0.343	mg/kg	U
21-11286	MD21-01-0291	1.5–2	ALLH	Pyridine	0.343	mg/kg	U
21-11286	MD21-01-0291	1.5–2	ALLH	Nitroaniline[4-]	0.343	mg/kg	U
21-11286	MD21-01-0291	1.5–2	ALLH	Benzyl Alcohol	0.343	mg/kg	U
21-11286	MD21-01-0291	1.5–2	ALLH	Dimethylphenol[2,4-]	0.343	mg/kg	U
21-11286	MD21-01-0291	1.5–2	ALLH	Bis(2-chloroethoxy)methane	0.343	mg/kg	U
21-11286	MD21-01-0291	1.5–2	ALLH	Oxybis(1-chloropropane)[2,2'-]	0.343	mg/kg	U
21-11286	MD21-01-0291	1.5–2	ALLH	Perchlorate	0.015	mg/kg	U
21-11286	MD21-01-0291	1.5–2	ALLH	Strontium-90	0.012	pCi/g	U
21-11286	MD21-01-0291	1.5–2	ALLH	Beryllium	0.282	mg/kg	None
21-11286	MD21-01-0291	1.5–2	ALLH	Mercury	0.02	mg/kg	None
21-11286	MD21-01-0291	1.5–2	ALLH	Selenium	0.508	mg/kg	None
21-11286	MD21-01-0291	1.5–2	ALLH	Aluminum	1530	mg/kg	None
21-11286	MD21-01-0291	1.5–2	ALLH	Cobalt	0.864	mg/kg	None
21-11286	MD21-01-0291	1.5–2	ALLH	Sodium	92.5	mg/kg	None
21-11286	MD21-01-0291	1.5–2	ALLH	Silver	0.021	mg/kg	J
21-11286	MD21-01-0291	1.5–2	ALLH	Potassium	243	mg/kg	J+
21-11286	MD21-01-0291	1.5–2	ALLH	Chromium	1.1	mg/kg	J
21-11286	MD21-01-0291	1.5–2	ALLH	Manganese	260	mg/kg	None
21-11286	MD21-01-0291	1.5–2	ALLH	Vanadium	3.02	mg/kg	None
21-11286	MD21-01-0291	1.5–2	ALLH	Antimony	0.088	mg/kg	U
21-11286	MD21-01-0291	1.5–2	ALLH	Copper	1.8	mg/kg	None
21-11286	MD21-01-0291	1.5–2	ALLH	Magnesium	378	mg/kg	J+
21-11286	MD21-01-0291	1.5–2	ALLH	Iron	5450	mg/kg	None

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11286	MD21-01-0291	1.5–2	ALLH	Thallium	0.065	mg/kg	J
21-11286	MD21-01-0291	1.5–2	ALLH	Arsenic	2.18	mg/kg	None
21-11286	MD21-01-0291	1.5–2	ALLH	Zinc	28.6	mg/kg	None
21-11286	MD21-01-0291	1.5–2	ALLH	Nickel	3.65	mg/kg	None
21-11286	MD21-01-0291	1.5–2	ALLH	Cadmium	0.04	mg/kg	U
21-11286	MD21-01-0291	1.5–2	ALLH	Calcium	335	mg/kg	J
21-11286	MD21-01-0291	1.5–2	ALLH	Barium	16.9	mg/kg	J+
21-11286	MD21-01-0291	1.5–2	ALLH	Lead	5.37	mg/kg	J
21-11286	MD21-01-0291	1.5–2	ALLH	Cesium-134	-0.00597	pCi/g	U
21-11286	MD21-01-0291	1.5–2	ALLH	Ruthenium-106	0.16	pCi/g	U
21-11286	MD21-01-0291	1.5–2	ALLH	Americium-241	-0.037	pCi/g	U
21-11286	MD21-01-0291	1.5–2	ALLH	Europium-152	-0.0352	pCi/g	U
21-11286	MD21-01-0291	1.5–2	ALLH	Uranium-235	0.0852	pCi/g	U
21-11286	MD21-01-0291	1.5–2	ALLH	Cesium-137	0.000149	pCi/g	U
21-11286	MD21-01-0291	1.5–2	ALLH	Sodium-22	-0.0507	pCi/g	U
21-11286	MD21-01-0291	1.5–2	ALLH	Cobalt-60	0.0238	pCi/g	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Aroclor-1260	0.0035	mg/kg	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Aroclor-1254	0.0035	mg/kg	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Aroclor-1221	0.0035	mg/kg	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Aroclor-1232	0.0035	mg/kg	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Azobenzene	0.0351	mg/kg	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Diethylphthalate	0.351	mg/kg	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Di-n-butylphthalate	0.351	mg/kg	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Phenanthrene	0.0351	mg/kg	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Butylbenzylphthalate	0.351	mg/kg	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Fluorene	0.0351	mg/kg	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Hexachlorobutadiene	0.351	mg/kg	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Pentachlorophenol	0.351	mg/kg	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Trichlorophenol[2,4,6-]	0.351	mg/kg	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Nitroaniline[2-]	0.351	mg/kg	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Nitrophenol[2-]	0.351	mg/kg	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Naphthalene	0.0351	mg/kg	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Chloronaphthalene[2-]	0.0351	mg/kg	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Methylnaphthalene[2-]	0.0351	mg/kg	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Nitrobenzene	0.351	mg/kg	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Nitroaniline[3-]	0.351	mg/kg	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Dichlorobenzidine[3,3'-]	0.351	mg/kg	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Methylphenol[2-]	0.351	mg/kg	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Dichlorobenzene[1,2-]	0.351	mg/kg	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Chlorophenol[2-]	0.351	mg/kg	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Trichlorophenol[2,4,5-]	0.351	mg/kg	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Anthracene	0.0351	mg/kg	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Trichlorobenzene[1,2,4-]	0.351	mg/kg	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Dichlorophenol[2,4-]	0.351	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11286	MD21-01-0292	3–3.5	Qbt 3	Dinitrotoluene[2,4-]	0.351	mg/kg	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Diphenylamine	0.351	mg/kg	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Pyrene	0.0351	mg/kg	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Dimethyl Phthalate	0.351	mg/kg	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Dinitrophenol[2,4-]	0.702	mg/kg	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Dibenz(a,h)anthracene	0.0351	mg/kg	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Aniline	0.351	mg/kg	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Nitrosodimethylamine[N-]	0.351	mg/kg	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Nitroso-di-n-propylamine[N-]	0.351	mg/kg	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Benzoic Acid	0.702	mg/kg	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Hexachloroethane	0.351	mg/kg	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Chlorophenyl-phenyl[4-] Ether	0.351	mg/kg	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Hexachlorocyclopentadiene	0.351	mg/kg	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Isophorone	0.351	mg/kg	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Acenaphthene	0.0351	mg/kg	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Nitroaniline[4-]	0.351	mg/kg	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Dinitro-2-methylphenol[4,6-]	0.351	mg/kg	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Dichlorobenzene[1,3-]	0.351	mg/kg	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Benz(a)anthracene	0.0351	mg/kg	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Chloro-3-methylphenol[4-]	0.351	mg/kg	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Dinitrotoluene[2,6-]	0.351	mg/kg	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Dibenzofuran	0.351	mg/kg	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Benzo(g,h,i)perylene	0.0351	mg/kg	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Indeno(1,2,3-cd)pyrene	0.0351	mg/kg	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Benzo(b)fluoranthene	0.0351	mg/kg	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Fluoranthene	0.0351	mg/kg	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Benzo(k)fluoranthene	0.0351	mg/kg	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Acenaphthylene	0.0351	mg/kg	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Chrysene	0.0351	mg/kg	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Benzo(a)pyrene	0.0351	mg/kg	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Perchlorate	0.038	mg/kg	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Strontium-90	0.134	pCi/g	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Thallium	0.115	mg/kg	None
21-11286	MD21-01-0292	3–3.5	Qbt 3	Copper	1.89	mg/kg	None
21-11286	MD21-01-0292	3–3.5	Qbt 3	Selenium	0.353	mg/kg	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Calcium	638	mg/kg	J
21-11286	MD21-01-0292	3–3.5	Qbt 3	Antimony	0.029	mg/kg	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Manganese	362	mg/kg	None
21-11286	MD21-01-0292	3–3.5	Qbt 3	Europium-152	0.0537	pCi/g	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Nitrophenol[4-]	0.351	mg/kg	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Benzyl Alcohol	0.351	mg/kg	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Americium-241	0.0235	pCi/g	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Cesium-137	-0.0399	pCi/g	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Ruthenium-106	0.104	pCi/g	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11286	MD21-01-0292	3–3.5	Qbt 3	Uranium-235	0	pCi/g	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Sodium-22	-0.00355	pCi/g	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Cesium-134	0.0146	pCi/g	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Bromophenyl-phenylether[4-]	0.351	mg/kg	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Dimethylphenol[2,4-]	0.351	mg/kg	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Methylphenol[4-]	0.351	mg/kg	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Dichlorobenzene[1,4-]	0.351	mg/kg	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Chloroaniline[4-]	0.351	mg/kg	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Oxybis(1-chloropropane)[2,2'-]	0.351	mg/kg	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Phenol	0.351	mg/kg	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Pyridine	0.351	mg/kg	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Bis(2-chloroethyl)ether	0.351	mg/kg	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Bis(2-chloroethoxy)methane	0.351	mg/kg	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Bis(2-ethylhexyl)phthalate	0.15	mg/kg	J
21-11286	MD21-01-0292	3–3.5	Qbt 3	Di-n-octylphthalate	0.351	mg/kg	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Hexachlorobenzene	0.351	mg/kg	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Aroclor-1248	0.0035	mg/kg	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Aroclor-1242	0.0035	mg/kg	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Aroclor-1016	0.0035	mg/kg	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Potassium	264	mg/kg	J+
21-11286	MD21-01-0292	3–3.5	Qbt 3	Vanadium	10.3	mg/kg	None
21-11286	MD21-01-0292	3–3.5	Qbt 3	Nickel	4.28	mg/kg	None
21-11286	MD21-01-0292	3–3.5	Qbt 3	Beryllium	0.505	mg/kg	None
21-11286	MD21-01-0292	3–3.5	Qbt 3	Chromium	1.69	mg/kg	J
21-11286	MD21-01-0292	3–3.5	Qbt 3	Arsenic	4.56	mg/kg	None
21-11286	MD21-01-0292	3–3.5	Qbt 3	Sodium	82	mg/kg	None
21-11286	MD21-01-0292	3–3.5	Qbt 3	Barium	35.7	mg/kg	J+
21-11286	MD21-01-0292	3–3.5	Qbt 3	Aluminum	1990	mg/kg	None
21-11286	MD21-01-0292	3–3.5	Qbt 3	Zinc	43.8	mg/kg	None
21-11286	MD21-01-0292	3–3.5	Qbt 3	Mercury	0.02	mg/kg	None
21-11286	MD21-01-0292	3–3.5	Qbt 3	Lead	3.57	mg/kg	J
21-11286	MD21-01-0292	3–3.5	Qbt 3	Silver	0.023	mg/kg	J
21-11286	MD21-01-0292	3–3.5	Qbt 3	Iron	6800	mg/kg	None
21-11286	MD21-01-0292	3–3.5	Qbt 3	Cobalt	1.41	mg/kg	None
21-11286	MD21-01-0292	3–3.5	Qbt 3	Cadmium	0.042	mg/kg	U
21-11286	MD21-01-0292	3–3.5	Qbt 3	Magnesium	467	mg/kg	J+
21-11286	MD21-01-0292	3–3.5	Qbt 3	Cobalt-60	0.0144	pCi/g	U
21-11287	MD21-01-0293	1.5–2	ALLH	Nitrobenzene	0.377	mg/kg	U
21-11287	MD21-01-0293	1.5–2	ALLH	Aniline	0.377	mg/kg	U
21-11287	MD21-01-0293	1.5–2	ALLH	Bis(2-ethylhexyl)phthalate	0.377	mg/kg	U
21-11287	MD21-01-0293	1.5–2	ALLH	Pyrene	0.0377	mg/kg	U
21-11287	MD21-01-0293	1.5–2	ALLH	Dibenzofuran	0.377	mg/kg	U
21-11287	MD21-01-0293	1.5–2	ALLH	Trichlorophenol[2,4,6-]	0.377	mg/kg	U
21-11287	MD21-01-0293	1.5–2	ALLH	Dichlorobenzene[1,2-]	0.377	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11287	MD21-01-0293	1.5–2	ALLH	Benzo(k)fluoranthene	0.0377	mg/kg	U
21-11287	MD21-01-0293	1.5–2	ALLH	Trichlorobenzene[1,2,4-]	0.377	mg/kg	U
21-11287	MD21-01-0293	1.5–2	ALLH	Di-n-octylphthalate	0.377	mg/kg	U
21-11287	MD21-01-0293	1.5–2	ALLH	Nitroaniline[4-]	0.377	mg/kg	U
21-11287	MD21-01-0293	1.5–2	ALLH	Nitrophenol[4-]	0.377	mg/kg	U
21-11287	MD21-01-0293	1.5–2	ALLH	Benzyl Alcohol	0.377	mg/kg	U
21-11287	MD21-01-0293	1.5–2	ALLH	Bromophenyl-phenylether[4-]	0.377	mg/kg	U
21-11287	MD21-01-0293	1.5–2	ALLH	Dimethylphenol[2,4-]	0.377	mg/kg	U
21-11287	MD21-01-0293	1.5–2	ALLH	Methylphenol[4-]	0.377	mg/kg	U
21-11287	MD21-01-0293	1.5–2	ALLH	Dichlorobenzene[1,4-]	0.377	mg/kg	U
21-11287	MD21-01-0293	1.5–2	ALLH	Chloroaniline[4-]	0.377	mg/kg	U
21-11287	MD21-01-0293	1.5–2	ALLH	Oxybis(1-chloropropane)[2,2'-]	0.377	mg/kg	U
21-11287	MD21-01-0293	1.5–2	ALLH	Phenol	0.377	mg/kg	U
21-11287	MD21-01-0293	1.5–2	ALLH	Pyridine	0.377	mg/kg	U
21-11287	MD21-01-0293	1.5–2	ALLH	Bis(2-chloroethyl)ether	0.377	mg/kg	U
21-11287	MD21-01-0293	1.5–2	ALLH	Bis(2-chloroethoxy)methane	0.377	mg/kg	U
21-11287	MD21-01-0293	1.5–2	ALLH	Aroclor-1016	0.0038	mg/kg	U
21-11287	MD21-01-0293	1.5–2	ALLH	Aroclor-1248	0.0038	mg/kg	U
21-11287	MD21-01-0293	1.5–2	ALLH	Aroclor-1232	0.0038	mg/kg	U
21-11287	MD21-01-0293	1.5–2	ALLH	Aroclor-1221	0.0038	mg/kg	U
21-11287	MD21-01-0293	1.5–2	ALLH	Aroclor-1254	0.0038	mg/kg	U
21-11287	MD21-01-0293	1.5–2	ALLH	Aroclor-1242	0.0038	mg/kg	U
21-11287	MD21-01-0293	1.5–2	ALLH	Aroclor-1260	0.0038	mg/kg	U
21-11287	MD21-01-0293	1.5–2	ALLH	Azobenzene	0.0377	mg/kg	U
21-11287	MD21-01-0293	1.5–2	ALLH	Chloronaphthalene[2-]	0.0377	mg/kg	U
21-11287	MD21-01-0293	1.5–2	ALLH	Chlorophenol[2-]	0.377	mg/kg	U
21-11287	MD21-01-0293	1.5–2	ALLH	Acenaphthylene	0.0377	mg/kg	U
21-11287	MD21-01-0293	1.5–2	ALLH	Chrysene	0.0377	mg/kg	U
21-11287	MD21-01-0293	1.5–2	ALLH	Trichlorophenol[2,4,5-]	0.377	mg/kg	U
21-11287	MD21-01-0293	1.5–2	ALLH	Phenanthrene	0.0377	mg/kg	U
21-11287	MD21-01-0293	1.5–2	ALLH	Hexachlorocyclopentadiene	0.377	mg/kg	U
21-11287	MD21-01-0293	1.5–2	ALLH	Fluorene	0.0377	mg/kg	U
21-11287	MD21-01-0293	1.5–2	ALLH	Dichlorobenzidine[3,3'-]	0.377	mg/kg	U
21-11287	MD21-01-0293	1.5–2	ALLH	Dimethyl Phthalate	0.377	mg/kg	U
21-11287	MD21-01-0293	1.5–2	ALLH	Diethylphthalate	0.377	mg/kg	U
21-11287	MD21-01-0293	1.5–2	ALLH	Fluoranthene	0.0377	mg/kg	U
21-11287	MD21-01-0293	1.5–2	ALLH	Butylbenzylphthalate	0.377	mg/kg	U
21-11287	MD21-01-0293	1.5–2	ALLH	Hexachlorobutadiene	0.377	mg/kg	U
21-11287	MD21-01-0293	1.5–2	ALLH	Nitroaniline[3-]	0.377	mg/kg	U
21-11287	MD21-01-0293	1.5–2	ALLH	Hexachloroethane	0.377	mg/kg	U
21-11287	MD21-01-0293	1.5–2	ALLH	Methylnaphthalene[2-]	0.0377	mg/kg	U
21-11287	MD21-01-0293	1.5–2	ALLH	Dichlorophenol[2,4-]	0.377	mg/kg	U
21-11287	MD21-01-0293	1.5–2	ALLH	Nitroaniline[2-]	0.377	mg/kg	U
21-11287	MD21-01-0293	1.5–2	ALLH	Di-n-butylphthalate	0.377	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11287	MD21-01-0293	1.5–2	ALLH	Methylphenol[2-]	0.377	mg/kg	U
21-11287	MD21-01-0293	1.5–2	ALLH	Acenaphthene	0.0377	mg/kg	U
21-11287	MD21-01-0293	1.5–2	ALLH	Dibenz(a,h)anthracene	0.0377	mg/kg	U
21-11287	MD21-01-0293	1.5–2	ALLH	Nitrophenol[2-]	0.377	mg/kg	U
21-11287	MD21-01-0293	1.5–2	ALLH	Dinitro-2-methylphenol[4,6-]	0.377	mg/kg	U
21-11287	MD21-01-0293	1.5–2	ALLH	Benzo(b)fluoranthene	0.0377	mg/kg	U
21-11287	MD21-01-0293	1.5–2	ALLH	Dichlorobenzene[1,3-]	0.377	mg/kg	U
21-11287	MD21-01-0293	1.5–2	ALLH	Benzo(g,h,i)perylene	0.0377	mg/kg	U
21-11287	MD21-01-0293	1.5–2	ALLH	Chlorophenyl-phenyl[4-] Ether	0.377	mg/kg	U
21-11287	MD21-01-0293	1.5–2	ALLH	Hexachlorobenzene	0.377	mg/kg	U
21-11287	MD21-01-0293	1.5–2	ALLH	Anthracene	0.0377	mg/kg	U
21-11287	MD21-01-0293	1.5–2	ALLH	Dinitrophenol[2,4-]	0.753	mg/kg	U
21-11287	MD21-01-0293	1.5–2	ALLH	Isophorone	0.377	mg/kg	U
21-11287	MD21-01-0293	1.5–2	ALLH	Benzo(a)pyrene	0.0377	mg/kg	U
21-11287	MD21-01-0293	1.5–2	ALLH	Nitroso-di-n-propylamine[N-]	0.377	mg/kg	U
21-11287	MD21-01-0293	1.5–2	ALLH	Pentachlorophenol	0.377	mg/kg	U
21-11287	MD21-01-0293	1.5–2	ALLH	Indeno(1,2,3-cd)pyrene	0.0377	mg/kg	U
21-11287	MD21-01-0293	1.5–2	ALLH	Nitrosodimethylamine[N-]	0.377	mg/kg	U
21-11287	MD21-01-0293	1.5–2	ALLH	Naphthalene	0.0377	mg/kg	U
21-11287	MD21-01-0293	1.5–2	ALLH	Benzoic Acid	0.753	mg/kg	U
21-11287	MD21-01-0293	1.5–2	ALLH	Diphenylamine	0.377	mg/kg	U
21-11287	MD21-01-0293	1.5–2	ALLH	Dinitrotoluene[2,6-]	0.377	mg/kg	U
21-11287	MD21-01-0293	1.5–2	ALLH	Chloro-3-methylphenol[4-]	0.377	mg/kg	U
21-11287	MD21-01-0293	1.5–2	ALLH	Dinitrotoluene[2,4-]	0.377	mg/kg	U
21-11287	MD21-01-0293	1.5–2	ALLH	Benz(a)anthracene	0.0377	mg/kg	U
21-11287	MD21-01-0293	1.5–2	ALLH	Perchlorate	0.0416	mg/kg	U
21-11287	MD21-01-0293	1.5–2	ALLH	Strontium-90	-0.0182	pCi/g	U
21-11287	MD21-01-0293	1.5–2	ALLH	Iron	4500	mg/kg	None
21-11287	MD21-01-0293	1.5–2	ALLH	Vanadium	2.05	mg/kg	None
21-11287	MD21-01-0293	1.5–2	ALLH	Calcium	475	mg/kg	J
21-11287	MD21-01-0293	1.5–2	ALLH	Beryllium	1.41	mg/kg	None
21-11287	MD21-01-0293	1.5–2	ALLH	Mercury	0.08	mg/kg	None
21-11287	MD21-01-0293	1.5–2	ALLH	Arsenic	1.86	mg/kg	None
21-11287	MD21-01-0293	1.5–2	ALLH	Nickel	10.3	mg/kg	None
21-11287	MD21-01-0293	1.5–2	ALLH	Lead	3.59	mg/kg	J
21-11287	MD21-01-0293	1.5–2	ALLH	Zinc	45.5	mg/kg	None
21-11287	MD21-01-0293	1.5–2	ALLH	Potassium	200	mg/kg	J+
21-11287	MD21-01-0293	1.5–2	ALLH	Antimony	0.043	mg/kg	U
21-11287	MD21-01-0293	1.5–2	ALLH	Cobalt	0.407	mg/kg	J
21-11287	MD21-01-0293	1.5–2	ALLH	Thallium	0.293	mg/kg	None
21-11287	MD21-01-0293	1.5–2	ALLH	Cadmium	0.045	mg/kg	U
21-11287	MD21-01-0293	1.5–2	ALLH	Magnesium	272	mg/kg	J+
21-11287	MD21-01-0293	1.5–2	ALLH	Selenium	0.673	mg/kg	None
21-11287	MD21-01-0293	1.5–2	ALLH	Aluminum	1090	mg/kg	None

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11287	MD21-01-0293	1.5–2	ALLH	Manganese	205	mg/kg	None
21-11287	MD21-01-0293	1.5–2	ALLH	Sodium	156	mg/kg	None
21-11287	MD21-01-0293	1.5–2	ALLH	Barium	13.6	mg/kg	J+
21-11287	MD21-01-0293	1.5–2	ALLH	Copper	1.52	mg/kg	None
21-11287	MD21-01-0293	1.5–2	ALLH	Silver	0.054	mg/kg	J
21-11287	MD21-01-0293	1.5–2	ALLH	Chromium	2.38	mg/kg	J
21-11287	MD21-01-0293	1.5–2	ALLH	Americium-241	0.0379	pCi/g	U
21-11287	MD21-01-0293	1.5–2	ALLH	Uranium-235	0.159	pCi/g	U
21-11287	MD21-01-0293	1.5–2	ALLH	Europium-152	0.00328	pCi/g	U
21-11287	MD21-01-0293	1.5–2	ALLH	Cesium-134	-0.00551	pCi/g	U
21-11287	MD21-01-0293	1.5–2	ALLH	Sodium-22	-0.0146	pCi/g	U
21-11287	MD21-01-0293	1.5–2	ALLH	Ruthenium-106	-0.0364	pCi/g	U
21-11287	MD21-01-0293	1.5–2	ALLH	Cobalt-60	0.0219	pCi/g	U
21-11287	MD21-01-0293	1.5–2	ALLH	Cesium-137	0.00232	pCi/g	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Chlorophenyl-phenyl[4-] Ether	0.354	mg/kg	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Nitroaniline[4-]	0.354	mg/kg	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Nitrosodimethylamine[N-]	0.354	mg/kg	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Diethylphthalate	0.354	mg/kg	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Nitrophenol[2-]	0.354	mg/kg	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Chlorophenol[2-]	0.354	mg/kg	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Butylbenzylphthalate	0.354	mg/kg	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Anthracene	0.0354	mg/kg	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Nitrobenzene	0.354	mg/kg	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Dibenzofuran	0.354	mg/kg	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Bis(2-chloroethoxy)methane	0.354	mg/kg	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Dinitrotoluene[2,6-]	0.354	mg/kg	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Pyridine	0.354	mg/kg	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Trichlorophenol[2,4,5-]	0.354	mg/kg	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Di-n-octylphthalate	0.354	mg/kg	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Benzoic Acid	0.709	mg/kg	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Methylnaphthalene[2-]	0.0354	mg/kg	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Benzyl Alcohol	0.354	mg/kg	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Chloronaphthalene[2-]	0.0354	mg/kg	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Chloro-3-methylphenol[4-]	0.354	mg/kg	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Aroclor-1248	0.0035	mg/kg	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Aroclor-1221	0.0035	mg/kg	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Aroclor-1260	0.0035	mg/kg	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Aroclor-1242	0.0035	mg/kg	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Aroclor-1232	0.0035	mg/kg	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Aroclor-1254	0.0035	mg/kg	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Aroclor-1016	0.0035	mg/kg	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Azobenzene	0.0354	mg/kg	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Fluorene	0.0354	mg/kg	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Nitroaniline[3-]	0.354	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11287	MD21-01-0294	3–3.5	Qbt 3	Hexachlorocyclopentadiene	0.354	mg/kg	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Hexachloroethane	0.354	mg/kg	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Trichlorobenzene[1,2,4-]	0.354	mg/kg	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Dichlorobenzene[1,4-]	0.354	mg/kg	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Pentachlorophenol	0.354	mg/kg	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Benzo(b)fluoranthene	0.0354	mg/kg	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Methylphenol[2-]	0.354	mg/kg	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Dimethyl Phthalate	0.354	mg/kg	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Trichlorophenol[2,4,6-]	0.354	mg/kg	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Pyrene	0.0354	mg/kg	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Bis(2-chloroethyl)ether	0.354	mg/kg	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Aniline	0.354	mg/kg	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Dinitrotoluene[2,4-]	0.354	mg/kg	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Nitrophenol[4-]	0.354	mg/kg	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Bromophenyl-phenylether[4-]	0.354	mg/kg	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Fluoranthene	0.0354	mg/kg	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Bis(2-ethylhexyl)phthalate	0.354	mg/kg	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Dimethylphenol[2,4-]	0.354	mg/kg	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Acenaphthene	0.0354	mg/kg	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Diphenylamine	0.354	mg/kg	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Phenanthrene	0.0354	mg/kg	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Isophorone	0.354	mg/kg	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Dichlorobenzene[1,2-]	0.354	mg/kg	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Hexachlorobutadiene	0.354	mg/kg	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Dichlorobenzene[1,3-]	0.354	mg/kg	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Hexachlorobenzene	0.354	mg/kg	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Naphthalene	0.0354	mg/kg	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Benzo(k)fluoranthene	0.0354	mg/kg	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Benz(a)anthracene	0.0354	mg/kg	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Indeno(1,2,3-cd)pyrene	0.0354	mg/kg	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Methylphenol[4-]	0.354	mg/kg	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Acenaphthylene	0.0354	mg/kg	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Di-n-butylphthalate	0.354	mg/kg	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Dinitrophenol[2,4-]	0.709	mg/kg	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Chloroaniline[4-]	0.354	mg/kg	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Benzo(g,h,i)perylene	0.0354	mg/kg	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Nitroaniline[2-]	0.354	mg/kg	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Nitroso-di-n-propylamine[N-]	0.354	mg/kg	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Oxybis(1-chloropropane)[2,2'-]	0.354	mg/kg	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Benzo(a)pyrene	0.0354	mg/kg	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Chrysene	0.0354	mg/kg	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Dinitro-2-methylphenol[4,6-]	0.354	mg/kg	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Dibenz(a,h)anthracene	0.0354	mg/kg	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Dichlorobenzidine[3,3'-]	0.354	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11287	MD21-01-0294	3–3.5	Qbt 3	Dichlorophenol[2,4-]	0.354	mg/kg	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Phenol	0.354	mg/kg	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Perchlorate	0.0385	mg/kg	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Strontium-90	-0.0242	pCi/g	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Cadmium	0.133	mg/kg	J
21-11287	MD21-01-0294	3–3.5	Qbt 3	Zinc	192	mg/kg	None
21-11287	MD21-01-0294	3–3.5	Qbt 3	Silver	0.013	mg/kg	J
21-11287	MD21-01-0294	3–3.5	Qbt 3	Nickel	1.74	mg/kg	None
21-11287	MD21-01-0294	3–3.5	Qbt 3	Lead	10.9	mg/kg	J
21-11287	MD21-01-0294	3–3.5	Qbt 3	Barium	83	mg/kg	J+
21-11287	MD21-01-0294	3–3.5	Qbt 3	Magnesium	1430	mg/kg	J+
21-11287	MD21-01-0294	3–3.5	Qbt 3	Thallium	0.04	mg/kg	J
21-11287	MD21-01-0294	3–3.5	Qbt 3	Aluminum	8700	mg/kg	None
21-11287	MD21-01-0294	3–3.5	Qbt 3	Arsenic	2.97	mg/kg	None
21-11287	MD21-01-0294	3–3.5	Qbt 3	Iron	9300	mg/kg	None
21-11287	MD21-01-0294	3–3.5	Qbt 3	Manganese	226	mg/kg	None
21-11287	MD21-01-0294	3–3.5	Qbt 3	Calcium	2290	mg/kg	J
21-11287	MD21-01-0294	3–3.5	Qbt 3	Cobalt	2.8	mg/kg	None
21-11287	MD21-01-0294	3–3.5	Qbt 3	Antimony	0.025	mg/kg	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Copper	9.45	mg/kg	None
21-11287	MD21-01-0294	3–3.5	Qbt 3	Chromium	9.24	mg/kg	J
21-11287	MD21-01-0294	3–3.5	Qbt 3	Potassium	865	mg/kg	J+
21-11287	MD21-01-0294	3–3.5	Qbt 3	Selenium	0.436	mg/kg	J
21-11287	MD21-01-0294	3–3.5	Qbt 3	Vanadium	12.5	mg/kg	None
21-11287	MD21-01-0294	3–3.5	Qbt 3	Sodium	123	mg/kg	None
21-11287	MD21-01-0294	3–3.5	Qbt 3	Mercury	0.01	mg/kg	J
21-11287	MD21-01-0294	3–3.5	Qbt 3	Beryllium	0.234	mg/kg	None
21-11287	MD21-01-0294	3–3.5	Qbt 3	Uranium-235	0.125	pCi/g	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Ruthenium-106	0.0514	pCi/g	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Cesium-134	0.000235	pCi/g	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Cesium-137	0.014	pCi/g	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Sodium-22	0.0408	pCi/g	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Americium-241	0.0186	pCi/g	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Europium-152	-0.0481	pCi/g	U
21-11287	MD21-01-0294	3–3.5	Qbt 3	Cobalt-60	0.0482	pCi/g	U
21-11287	MD21-02-49498	1–1.5	Qbt 3	Tritium	0.013923	pCi/g	None
21-11287	MD21-02-49498	1–1.5	Qbt 3	Plutonium-238	-0.00174	pCi/g	U
21-11287	MD21-02-49498	1–1.5	Qbt 3	Plutonium-239	-0.0122	pCi/g	U
21-11287	MD21-02-49499	2.5–3	Qbt 3	Tritium	0.00522	pCi/g	U
21-11287	MD21-02-49499	2.5–3	Qbt 3	Plutonium-238	-0.00146	pCi/g	U
21-11287	MD21-02-49499	2.5–3	Qbt 3	Plutonium-239	-0.00729	pCi/g	U
21-11288	MD21-01-0295	1.5–2	ALLH	Dimethylphenol[2,4-]	0.354	mg/kg	U
21-11288	MD21-01-0295	1.5–2	ALLH	Anthracene	0.0354	mg/kg	U
21-11288	MD21-01-0295	1.5–2	ALLH	Acenaphthylene	0.0354	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11288	MD21-01-0295	1.5–2	ALLH	Methylphenol[4-]	0.354	mg/kg	U
21-11288	MD21-01-0295	1.5–2	ALLH	Dinitro-2-methylphenol[4,6-]	0.354	mg/kg	U
21-11288	MD21-01-0295	1.5–2	ALLH	Benz(a)anthracene	0.0354	mg/kg	U
21-11288	MD21-01-0295	1.5–2	ALLH	Diphenylamine	0.354	mg/kg	U
21-11288	MD21-01-0295	1.5–2	ALLH	Lead	1.84	mg/kg	None
21-11288	MD21-01-0295	1.5–2	ALLH	Copper	1.07	mg/kg	None
21-11288	MD21-01-0295	1.5–2	ALLH	Zinc	30.3	mg/kg	None
21-11288	MD21-01-0295	1.5–2	ALLH	Barium	12.2	mg/kg	J+
21-11288	MD21-01-0295	1.5–2	ALLH	Cadmium	0.04	mg/kg	U
21-11288	MD21-01-0295	1.5–2	ALLH	Sodium	85.3	mg/kg	None
21-11288	MD21-01-0295	1.5–2	ALLH	Aluminum	463	mg/kg	None
21-11288	MD21-01-0295	1.5–2	ALLH	Magnesium	179	mg/kg	J+
21-11288	MD21-01-0295	1.5–2	ALLH	Chromium	1.06	mg/kg	J
21-11288	MD21-01-0295	1.5–2	ALLH	Antimony	0.04	mg/kg	U
21-11288	MD21-01-0295	1.5–2	ALLH	Beryllium	0.212	mg/kg	None
21-11288	MD21-01-0295	1.5–2	ALLH	Ruthenium-106	-0.0637	pCi/g	U
21-11288	MD21-01-0295	1.5–2	ALLH	Sodium-22	0.00752	pCi/g	U
21-11288	MD21-01-0295	1.5–2	ALLH	Cesium-134	0.00687	pCi/g	U
21-11288	MD21-01-0295	1.5–2	ALLH	Americium-241	0.0675	pCi/g	U
21-11288	MD21-01-0295	1.5–2	ALLH	Europium-152	-0.0313	pCi/g	U
21-11288	MD21-01-0295	1.5–2	ALLH	Uranium-235	0.16	pCi/g	U
21-11288	MD21-01-0295	1.5–2	ALLH	Cobalt-60	-0.0142	pCi/g	U
21-11288	MD21-01-0295	1.5–2	ALLH	Cesium-137	-0.03	pCi/g	U
21-11288	MD21-01-0295	1.5–2	ALLH	Aroclor-1232	0.0035	mg/kg	U
21-11288	MD21-01-0295	1.5–2	ALLH	Aroclor-1254	0.0035	mg/kg	U
21-11288	MD21-01-0295	1.5–2	ALLH	Aroclor-1260	0.0035	mg/kg	U
21-11288	MD21-01-0295	1.5–2	ALLH	Aroclor-1016	0.0035	mg/kg	U
21-11288	MD21-01-0295	1.5–2	ALLH	Aroclor-1221	0.0035	mg/kg	U
21-11288	MD21-01-0295	1.5–2	ALLH	Aroclor-1248	0.0035	mg/kg	U
21-11288	MD21-01-0295	1.5–2	ALLH	Aroclor-1242	0.0035	mg/kg	U
21-11288	MD21-01-0295	1.5–2	ALLH	Nitroaniline[3-]	0.354	mg/kg	U
21-11288	MD21-01-0295	1.5–2	ALLH	Dichlorobenzene[1,3-]	0.354	mg/kg	U
21-11288	MD21-01-0295	1.5–2	ALLH	Hexachlorobutadiene	0.354	mg/kg	U
21-11288	MD21-01-0295	1.5–2	ALLH	Dichlorobenzidine[3,3'-]	0.354	mg/kg	U
21-11288	MD21-01-0295	1.5–2	ALLH	Hexachlorocyclopentadiene	0.354	mg/kg	U
21-11288	MD21-01-0295	1.5–2	ALLH	Nitroso-di-n-propylamine[N-]	0.354	mg/kg	U
21-11288	MD21-01-0295	1.5–2	ALLH	Azobenzene	0.0354	mg/kg	U
21-11288	MD21-01-0295	1.5–2	ALLH	Methylphenol[2-]	0.354	mg/kg	U
21-11288	MD21-01-0295	1.5–2	ALLH	Diethylphthalate	0.354	mg/kg	U
21-11288	MD21-01-0295	1.5–2	ALLH	Bis(2-ethylhexyl)phthalate	0.354	mg/kg	U
21-11288	MD21-01-0295	1.5–2	ALLH	Trichlorophenol[2,4,6-]	0.354	mg/kg	U
21-11288	MD21-01-0295	1.5–2	ALLH	Oxybis(1-chloropropane)[2,2'-]	0.354	mg/kg	U
21-11288	MD21-01-0295	1.5–2	ALLH	Bromophenyl-phenylether[4-]	0.354	mg/kg	U
21-11288	MD21-01-0295	1.5–2	ALLH	Hexachlorobenzene	0.354	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11288	MD21-01-0295	1.5–2	ALLH	Bis(2-chloroethoxy)methane	0.354	mg/kg	U
21-11288	MD21-01-0295	1.5–2	ALLH	Fluoranthene	0.0354	mg/kg	U
21-11288	MD21-01-0295	1.5–2	ALLH	Phenanthrene	0.0354	mg/kg	U
21-11288	MD21-01-0295	1.5–2	ALLH	Benzyl Alcohol	0.354	mg/kg	U
21-11288	MD21-01-0295	1.5–2	ALLH	Dinitrotoluene[2,4-]	0.354	mg/kg	U
21-11288	MD21-01-0295	1.5–2	ALLH	Nitroaniline[4-]	0.354	mg/kg	U
21-11288	MD21-01-0295	1.5–2	ALLH	Naphthalene	0.0354	mg/kg	U
21-11288	MD21-01-0295	1.5–2	ALLH	Butylbenzylphthalate	0.354	mg/kg	U
21-11288	MD21-01-0295	1.5–2	ALLH	Chrysene	0.0354	mg/kg	U
21-11288	MD21-01-0295	1.5–2	ALLH	Chloronaphthalene[2-]	0.0354	mg/kg	U
21-11288	MD21-01-0295	1.5–2	ALLH	Dinitrophenol[2,4-]	0.708	mg/kg	U
21-11288	MD21-01-0295	1.5–2	ALLH	Isophorone	0.354	mg/kg	U
21-11288	MD21-01-0295	1.5–2	ALLH	Indeno(1,2,3-cd)pyrene	0.0354	mg/kg	U
21-11288	MD21-01-0295	1.5–2	ALLH	Nitroaniline[2-]	0.354	mg/kg	U
21-11288	MD21-01-0295	1.5–2	ALLH	Benzo(g,h,i)perylene	0.0354	mg/kg	U
21-11288	MD21-01-0295	1.5–2	ALLH	Aniline	0.354	mg/kg	U
21-11288	MD21-01-0295	1.5–2	ALLH	Acenaphthene	0.0354	mg/kg	U
21-11288	MD21-01-0295	1.5–2	ALLH	Nitrobenzene	0.354	mg/kg	U
21-11288	MD21-01-0295	1.5–2	ALLH	Dibenzofuran	0.354	mg/kg	U
21-11288	MD21-01-0295	1.5–2	ALLH	Pyridine	0.354	mg/kg	U
21-11288	MD21-01-0295	1.5–2	ALLH	Di-n-octylphthalate	0.354	mg/kg	U
21-11288	MD21-01-0295	1.5–2	ALLH	Chloro-3-methylphenol[4-]	0.354	mg/kg	U
21-11288	MD21-01-0295	1.5–2	ALLH	Phenol	0.354	mg/kg	U
21-11288	MD21-01-0295	1.5–2	ALLH	Dinitrotoluene[2,6-]	0.354	mg/kg	U
21-11288	MD21-01-0295	1.5–2	ALLH	Benzo(a)pyrene	0.0354	mg/kg	U
21-11288	MD21-01-0295	1.5–2	ALLH	Pyrene	0.0354	mg/kg	U
21-11288	MD21-01-0295	1.5–2	ALLH	Di-n-butylphthalate	0.354	mg/kg	U
21-11288	MD21-01-0295	1.5–2	ALLH	Trichlorophenol[2,4,5-]	0.354	mg/kg	U
21-11288	MD21-01-0295	1.5–2	ALLH	Benzoic Acid	0.708	mg/kg	U
21-11288	MD21-01-0295	1.5–2	ALLH	Bis(2-chloroethyl)ether	0.354	mg/kg	U
21-11288	MD21-01-0295	1.5–2	ALLH	Methylnaphthalene[2-]	0.0354	mg/kg	U
21-11288	MD21-01-0295	1.5–2	ALLH	Nitrosodimethylamine[N-]	0.354	mg/kg	U
21-11288	MD21-01-0295	1.5–2	ALLH	Dichlorobenzene[1,4-]	0.354	mg/kg	U
21-11288	MD21-01-0295	1.5–2	ALLH	Chloroaniline[4-]	0.354	mg/kg	U
21-11288	MD21-01-0295	1.5–2	ALLH	Benzo(b)fluoranthene	0.0354	mg/kg	U
21-11288	MD21-01-0295	1.5–2	ALLH	Pentachlorophenol	0.354	mg/kg	U
21-11288	MD21-01-0295	1.5–2	ALLH	Dichlorophenol[2,4-]	0.354	mg/kg	U
21-11288	MD21-01-0295	1.5–2	ALLH	Chlorophenol[2-]	0.354	mg/kg	U
21-11288	MD21-01-0295	1.5–2	ALLH	Benzo(k)fluoranthene	0.0354	mg/kg	U
21-11288	MD21-01-0295	1.5–2	ALLH	Fluorene	0.0354	mg/kg	U
21-11288	MD21-01-0295	1.5–2	ALLH	Dichlorobenzene[1,2-]	0.354	mg/kg	U
21-11288	MD21-01-0295	1.5–2	ALLH	Chlorophenyl-phenyl[4-] Ether	0.354	mg/kg	U
21-11288	MD21-01-0295	1.5–2	ALLH	Trichlorobenzene[1,2,4-]	0.354	mg/kg	U
21-11288	MD21-01-0295	1.5–2	ALLH	Dimethyl Phthalate	0.354	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11288	MD21-01-0295	1.5–2	ALLH	Nitrophenol[2-]	0.354	mg/kg	U
21-11288	MD21-01-0295	1.5–2	ALLH	Hexachloroethane	0.354	mg/kg	U
21-11288	MD21-01-0295	1.5–2	ALLH	Dibenz(a,h)anthracene	0.0354	mg/kg	U
21-11288	MD21-01-0295	1.5–2	ALLH	Nitrophenol[4-]	0.354	mg/kg	U
21-11288	MD21-01-0295	1.5–2	ALLH	Perchlorate	0.0382	mg/kg	U
21-11288	MD21-01-0295	1.5–2	ALLH	Strontium-90	0.0728	pCi/g	U
21-11288	MD21-01-0295	1.5–2	ALLH	Manganese	187	mg/kg	None
21-11288	MD21-01-0295	1.5–2	ALLH	Calcium	445	mg/kg	J
21-11288	MD21-01-0295	1.5–2	ALLH	Silver	0.011	mg/kg	J
21-11288	MD21-01-0295	1.5–2	ALLH	Cobalt	0.285	mg/kg	J
21-11288	MD21-01-0295	1.5–2	ALLH	Arsenic	1.66	mg/kg	None
21-11288	MD21-01-0295	1.5–2	ALLH	Potassium	110	mg/kg	J+
21-11288	MD21-01-0295	1.5–2	ALLH	Iron	4190	mg/kg	None
21-11288	MD21-01-0295	1.5–2	ALLH	Mercury	0.01	mg/kg	None
21-11288	MD21-01-0295	1.5–2	ALLH	Thallium	0.062	mg/kg	J
21-11288	MD21-01-0295	1.5–2	ALLH	Nickel	1.57	mg/kg	None
21-11288	MD21-01-0295	1.5–2	ALLH	Vanadium	2.23	mg/kg	None
21-11288	MD21-01-0295	1.5–2	ALLH	Selenium	0.4	mg/kg	J
21-11288	MD21-01-0296	3–3.5	Qbt 3	Benz(a)anthracene	0.0355	mg/kg	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Chloro-3-methylphenol[4-]	0.355	mg/kg	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Dinitrotoluene[2,6-]	0.355	mg/kg	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Aniline	0.355	mg/kg	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Nitrosodimethylamine[N-]	0.355	mg/kg	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Nitroso-di-n-propylamine[N-]	0.355	mg/kg	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Benzoic Acid	0.71	mg/kg	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Hexachloroethane	0.355	mg/kg	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Chlorophenyl-phenyl[4-] Ether	0.355	mg/kg	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Hexachlorocyclopentadiene	0.355	mg/kg	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Isophorone	0.355	mg/kg	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Acenaphthene	0.0355	mg/kg	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Diethylphthalate	0.355	mg/kg	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Di-n-butylphthalate	0.355	mg/kg	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Phenanthrene	0.0355	mg/kg	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Butylbenzylphthalate	0.355	mg/kg	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Fluorene	0.0355	mg/kg	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Hexachlorobutadiene	0.355	mg/kg	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Pentachlorophenol	0.355	mg/kg	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Trichlorophenol[2,4,6-]	0.355	mg/kg	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Nitroaniline[2-]	0.355	mg/kg	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Nitrophenol[2-]	0.355	mg/kg	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Naphthalene	0.0355	mg/kg	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Methylnaphthalene[2-]	0.0355	mg/kg	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Chloronaphthalene[2-]	0.0355	mg/kg	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Dichlorobenzidine[3,3'-]	0.355	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11288	MD21-01-0296	3–3.5	Qbt 3	Methylphenol[2-]	0.355	mg/kg	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Dichlorobenzene[1,2-]	0.355	mg/kg	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Chlorophenol[2-]	0.355	mg/kg	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Trichlorophenol[2,4,5-]	0.355	mg/kg	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Nitrobenzene	0.355	mg/kg	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Nitroaniline[3-]	0.355	mg/kg	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Aroclor-1242	0.0035	mg/kg	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Benzo(k)fluoranthene	0.0355	mg/kg	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Dinitrophenol[2,4-]	0.71	mg/kg	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Chrysene	0.0355	mg/kg	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Perchlorate	0.0382	mg/kg	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Strontium-90	-0.0037	pCi/g	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Copper	1.81	mg/kg	None
21-11288	MD21-01-0296	3–3.5	Qbt 3	Mercury	0.01	mg/kg	None
21-11288	MD21-01-0296	3–3.5	Qbt 3	Zinc	37	mg/kg	None
21-11288	MD21-01-0296	3–3.5	Qbt 3	Beryllium	0.18	mg/kg	None
21-11288	MD21-01-0296	3–3.5	Qbt 3	Thallium	0.097	mg/kg	J
21-11288	MD21-01-0296	3–3.5	Qbt 3	Cobalt	0.802	mg/kg	None
21-11288	MD21-01-0296	3–3.5	Qbt 3	Aroclor-1232	0.0035	mg/kg	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Aroclor-1254	0.0035	mg/kg	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Aroclor-1248	0.0035	mg/kg	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Aroclor-1260	0.0035	mg/kg	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Aroclor-1016	0.0035	mg/kg	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Aroclor-1221	0.0035	mg/kg	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Nitroaniline[4-]	0.355	mg/kg	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Bromophenyl-phenylether[4-]	0.355	mg/kg	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Nitrophenol[4-]	0.355	mg/kg	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Benzyl Alcohol	0.355	mg/kg	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Trichlorobenzene[1,2,4-]	0.355	mg/kg	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Azobenzene	0.0355	mg/kg	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Dinitro-2-methylphenol[4,6-]	0.355	mg/kg	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Chloroaniline[4-]	0.355	mg/kg	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Benzo(g,h,i)perylene	0.0355	mg/kg	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Dimethyl Phthalate	0.355	mg/kg	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Hexachlorobenzene	0.355	mg/kg	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Dichlorophenol[2,4-]	0.355	mg/kg	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Oxybis(1-chloropropane)[2,2'-]	0.355	mg/kg	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Phenol	0.355	mg/kg	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Dibenzofuran	0.355	mg/kg	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Acenaphthylene	0.0355	mg/kg	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Di-n-octylphthalate	0.355	mg/kg	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Dimethylphenol[2,4-]	0.355	mg/kg	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Methylphenol[4-]	0.355	mg/kg	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Dichlorobenzene[1,3-]	0.355	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11288	MD21-01-0296	3–3.5	Qbt 3	Fluoranthene	0.0355	mg/kg	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Dinitrotoluene[2,4-]	0.355	mg/kg	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Benzo(b)fluoranthene	0.0355	mg/kg	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Pyridine	0.355	mg/kg	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Benzo(a)pyrene	0.0355	mg/kg	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Diphenylamine	0.355	mg/kg	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Bis(2-ethylhexyl)phthalate	0.155	mg/kg	J
21-11288	MD21-01-0296	3–3.5	Qbt 3	Dichlorobenzene[1,4-]	0.355	mg/kg	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Bis(2-chloroethoxy)methane	0.355	mg/kg	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Anthracene	0.0355	mg/kg	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Dibenz(a,h)anthracene	0.0355	mg/kg	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Pyrene	0.0355	mg/kg	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Indeno(1,2,3-cd)pyrene	0.0355	mg/kg	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Bis(2-chloroethyl)ether	0.355	mg/kg	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Nickel	2.19	mg/kg	None
21-11288	MD21-01-0296	3–3.5	Qbt 3	Antimony	0.036	mg/kg	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Silver	0.006	mg/kg	J
21-11288	MD21-01-0296	3–3.5	Qbt 3	Cadmium	0.041	mg/kg	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Vanadium	4.87	mg/kg	None
21-11288	MD21-01-0296	3–3.5	Qbt 3	Calcium	1680	mg/kg	J
21-11288	MD21-01-0296	3–3.5	Qbt 3	Chromium	1.8	mg/kg	J
21-11288	MD21-01-0296	3–3.5	Qbt 3	Selenium	0.346	mg/kg	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Sodium	97.7	mg/kg	None
21-11288	MD21-01-0296	3–3.5	Qbt 3	Manganese	202	mg/kg	None
21-11288	MD21-01-0296	3–3.5	Qbt 3	Arsenic	1.87	mg/kg	None
21-11288	MD21-01-0296	3–3.5	Qbt 3	Aluminum	3050	mg/kg	None
21-11288	MD21-01-0296	3–3.5	Qbt 3	Lead	3.7	mg/kg	J
21-11288	MD21-01-0296	3–3.5	Qbt 3	Magnesium	588	mg/kg	J+
21-11288	MD21-01-0296	3–3.5	Qbt 3	Barium	47.4	mg/kg	J+
21-11288	MD21-01-0296	3–3.5	Qbt 3	Potassium	350	mg/kg	J+
21-11288	MD21-01-0296	3–3.5	Qbt 3	Iron	6180	mg/kg	None
21-11288	MD21-01-0296	3–3.5	Qbt 3	Uranium-235	0.183	pCi/g	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Cobalt-60	-0.0268	pCi/g	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Ruthenium-106	-0.17	pCi/g	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Europium-152	-0.0764	pCi/g	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Cesium-134	-0.0119	pCi/g	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Americium-241	-0.0813	pCi/g	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Cesium-137	0.000756	pCi/g	U
21-11288	MD21-01-0296	3–3.5	Qbt 3	Sodium-22	-0.00543	pCi/g	U
21-11289	MD21-01-0543	0–0.5	Fill	Perchlorate	0.153	mg/kg	J
21-11289	MD21-01-0543	0–0.5	Fill	Oxalate	0.978	mg/kg	U
21-11289	MD21-01-0543	0–0.5	Fill	Silver	0.0167	mg/kg	J
21-11289	MD21-01-0543	0–0.5	Fill	Antimony	0.128	mg/kg	U
21-11289	MD21-01-0543	0–0.5	Fill	Thallium	0.188	mg/kg	None

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11289	MD21-01-0543	0–0.5	Fill	Beryllium	1.35	mg/kg	None
21-11289	MD21-01-0543	0–0.5	Fill	Nickel	8.21	mg/kg	None
21-11289	MD21-01-0543	0–0.5	Fill	Aluminum	15030	mg/kg	J+
21-11289	MD21-01-0543	0–0.5	Fill	Arsenic	4.02	mg/kg	None
21-11289	MD21-01-0543	0–0.5	Fill	Barium	192	mg/kg	None
21-11289	MD21-01-0543	0–0.5	Fill	Calcium	4700	mg/kg	J
21-11289	MD21-01-0543	0–0.5	Fill	Cadmium	0.0426	mg/kg	J
21-11289	MD21-01-0543	0–0.5	Fill	Cobalt	3.65	mg/kg	None
21-11289	MD21-01-0543	0–0.5	Fill	Chromium	10.7	mg/kg	None
21-11289	MD21-01-0543	0–0.5	Fill	Copper	6.95	mg/kg	None
21-11289	MD21-01-0543	0–0.5	Fill	Iron	12670	mg/kg	None
21-11289	MD21-01-0543	0–0.5	Fill	Magnesium	2790	mg/kg	None
21-11289	MD21-01-0543	0–0.5	Fill	Manganese	200	mg/kg	None
21-11289	MD21-01-0543	0–0.5	Fill	Sodium	230	mg/kg	None
21-11289	MD21-01-0543	0–0.5	Fill	Lead	35.3	mg/kg	J
21-11289	MD21-01-0543	0–0.5	Fill	Selenium	0.477	mg/kg	U
21-11289	MD21-01-0543	0–0.5	Fill	Vanadium	17.4	mg/kg	None
21-11289	MD21-01-0543	0–0.5	Fill	Zinc	29.1	mg/kg	None
21-11289	MD21-01-0543	0–0.5	Fill	Potassium	1570	mg/kg	None
21-11289	MD21-01-0543	0–0.5	Fill	Mercury	0.0348	mg/kg	J+
21-11289	MD21-01-0543	0–0.5	Fill	Strontium-90	-0.0416	pCi/g	U
21-11289	MD21-01-0543	0–0.5	Fill	Cesium-134	0.0104	pCi/g	U
21-11289	MD21-01-0543	0–0.5	Fill	Cobalt-60	0.00443	pCi/g	U
21-11289	MD21-01-0543	0–0.5	Fill	Americium-241	-0.0565	pCi/g	U
21-11289	MD21-01-0543	0–0.5	Fill	Sodium-22	-0.0143	pCi/g	U
21-11289	MD21-01-0543	0–0.5	Fill	Cesium-137	-0.00786	pCi/g	U
21-11289	MD21-01-0543	0–0.5	Fill	Europium-152	-0.00488	pCi/g	U
21-11289	MD21-01-0543	0–0.5	Fill	Ruthenium-106	0.105	pCi/g	U
21-11289	MD21-01-0543	0–0.5	Fill	Uranium-235	0.139	pCi/g	U
21-11289	MD21-01-0543	0–0.5	Fill	Nitroaniline[4-]	1.09	mg/kg	U
21-11289	MD21-01-0543	0–0.5	Fill	Nitrophenol[4-]	1.09	mg/kg	U
21-11289	MD21-01-0543	0–0.5	Fill	Benzyl Alcohol	1.09	mg/kg	U
21-11289	MD21-01-0543	0–0.5	Fill	Bromophenyl-phenylether[4-]	1.09	mg/kg	U
21-11289	MD21-01-0543	0–0.5	Fill	Azobenzene	0.109	mg/kg	U
21-11289	MD21-01-0543	0–0.5	Fill	Dimethylphenol[2,4-]	1.09	mg/kg	U
21-11289	MD21-01-0543	0–0.5	Fill	Methylphenol[4-]	1.09	mg/kg	U
21-11289	MD21-01-0543	0–0.5	Fill	Dichlorobenzene[1,4-]	1.09	mg/kg	U
21-11289	MD21-01-0543	0–0.5	Fill	Chloroaniline[4-]	1.09	mg/kg	U
21-11289	MD21-01-0543	0–0.5	Fill	Oxybis(1-chloropropane)[2,2'-]	1.09	mg/kg	U
21-11289	MD21-01-0543	0–0.5	Fill	Phenol	1.09	mg/kg	U
21-11289	MD21-01-0543	0–0.5	Fill	Pyridine	1.09	mg/kg	U
21-11289	MD21-01-0543	0–0.5	Fill	Bis(2-chloroethyl)ether	0.0702	mg/kg	J
21-11289	MD21-01-0543	0–0.5	Fill	Bis(2-chloroethoxy)methane	1.09	mg/kg	U
21-11289	MD21-01-0543	0–0.5	Fill	Bis(2-ethylhexyl)phthalate	1.09	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11289	MD21-01-0543	0–0.5	Fill	Di-n-octylphthalate	1.09	mg/kg	U
21-11289	MD21-01-0543	0–0.5	Fill	Hexachlorobenzene	1.09	mg/kg	U
21-11289	MD21-01-0543	0–0.5	Fill	Anthracene	0.109	mg/kg	U
21-11289	MD21-01-0543	0–0.5	Fill	Trichlorobenzene[1,2,4-]	1.09	mg/kg	U
21-11289	MD21-01-0543	0–0.5	Fill	Dichlorophenol[2,4-]	1.09	mg/kg	U
21-11289	MD21-01-0543	0–0.5	Fill	Dinitrotoluene[2,4-]	1.09	mg/kg	U
21-11289	MD21-01-0543	0–0.5	Fill	Diphenylamine	1.09	mg/kg	U
21-11289	MD21-01-0543	0–0.5	Fill	Pyrene	0.259	mg/kg	None
21-11289	MD21-01-0543	0–0.5	Fill	Dimethyl Phthalate	1.09	mg/kg	U
21-11289	MD21-01-0543	0–0.5	Fill	Dibenzofuran	1.09	mg/kg	U
21-11289	MD21-01-0543	0–0.5	Fill	Benzo(g,h,i)perylene	0.109	mg/kg	U
21-11289	MD21-01-0543	0–0.5	Fill	Indeno(1,2,3-cd)pyrene	0.109	mg/kg	U
21-11289	MD21-01-0543	0–0.5	Fill	Benzo(b)fluoranthene	0.109	mg/kg	U
21-11289	MD21-01-0543	0–0.5	Fill	Fluoranthene	0.488	mg/kg	None
21-11289	MD21-01-0543	0–0.5	Fill	Benzo(k)fluoranthene	0.218	mg/kg	None
21-11289	MD21-01-0543	0–0.5	Fill	Acenaphthylene	0.109	mg/kg	U
21-11289	MD21-01-0543	0–0.5	Fill	Isophorone	1.09	mg/kg	U
21-11289	MD21-01-0543	0–0.5	Fill	Chrysene	0.109	mg/kg	U
21-11289	MD21-01-0543	0–0.5	Fill	Benzo(a)pyrene	0.109	mg/kg	U
21-11289	MD21-01-0543	0–0.5	Fill	Dinitrophenol[2,4-]	2.18	mg/kg	U
21-11289	MD21-01-0543	0–0.5	Fill	Dibenz(a,h)anthracene	0.109	mg/kg	U
21-11289	MD21-01-0543	0–0.5	Fill	Dinitro-2-methylphenol[4,6-]	1.09	mg/kg	U
21-11289	MD21-01-0543	0–0.5	Fill	Dichlorobenzene[1,3-]	1.09	mg/kg	U
21-11289	MD21-01-0543	0–0.5	Fill	Benz(a)anthracene	0.269	mg/kg	None
21-11289	MD21-01-0543	0–0.5	Fill	Chloro-3-methylphenol[4-]	1.09	mg/kg	U
21-11289	MD21-01-0543	0–0.5	Fill	Dinitrotoluene[2,6-]	1.09	mg/kg	U
21-11289	MD21-01-0543	0–0.5	Fill	Aniline	1.09	mg/kg	U
21-11289	MD21-01-0543	0–0.5	Fill	Nitrosodimethylamine[N-]	1.09	mg/kg	U
21-11289	MD21-01-0543	0–0.5	Fill	Nitroso-di-n-propylamine[N-]	1.09	mg/kg	U
21-11289	MD21-01-0543	0–0.5	Fill	Benzoic Acid	2.18	mg/kg	U
21-11289	MD21-01-0543	0–0.5	Fill	Hexachloroethane	1.09	mg/kg	U
21-11289	MD21-01-0543	0–0.5	Fill	Chlorophenyl-phenyl[4-] Ether	1.09	mg/kg	U
21-11289	MD21-01-0543	0–0.5	Fill	Hexachlorocyclopentadiene	1.09	mg/kg	U
21-11289	MD21-01-0543	0–0.5	Fill	Diethylphthalate	0.126	mg/kg	U
21-11289	MD21-01-0543	0–0.5	Fill	Acenaphthene	0.109	mg/kg	U
21-11289	MD21-01-0543	0–0.5	Fill	Nitrobenzene	1.09	mg/kg	U
21-11289	MD21-01-0543	0–0.5	Fill	Nitroaniline[3-]	1.09	mg/kg	U
21-11289	MD21-01-0543	0–0.5	Fill	Aroclor-1260	0.0036	mg/kg	U
21-11289	MD21-01-0543	0–0.5	Fill	Aroclor-1254	0.0036	mg/kg	U
21-11289	MD21-01-0543	0–0.5	Fill	Aroclor-1221	0.0036	mg/kg	U
21-11289	MD21-01-0543	0–0.5	Fill	Aroclor-1232	0.0036	mg/kg	U
21-11289	MD21-01-0543	0–0.5	Fill	Aroclor-1248	0.0036	mg/kg	U
21-11289	MD21-01-0543	0–0.5	Fill	Aroclor-1016	0.0036	mg/kg	U
21-11289	MD21-01-0543	0–0.5	Fill	Aroclor-1242	0.0036	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11289	MD21-01-0543	0–0.5	Fill	Di-n-butylphthalate	1.09	mg/kg	U
21-11289	MD21-01-0543	0–0.5	Fill	Phenanthrene	0.109	mg/kg	U
21-11289	MD21-01-0543	0–0.5	Fill	Butylbenzylphthalate	1.09	mg/kg	U
21-11289	MD21-01-0543	0–0.5	Fill	Fluorene	0.109	mg/kg	U
21-11289	MD21-01-0543	0–0.5	Fill	Hexachlorobutadiene	1.09	mg/kg	U
21-11289	MD21-01-0543	0–0.5	Fill	Pentachlorophenol	1.09	mg/kg	U
21-11289	MD21-01-0543	0–0.5	Fill	Trichlorophenol[2,4,6-]	1.09	mg/kg	U
21-11289	MD21-01-0543	0–0.5	Fill	Nitroaniline[2-]	1.09	mg/kg	U
21-11289	MD21-01-0543	0–0.5	Fill	Nitrophenol[2-]	1.09	mg/kg	U
21-11289	MD21-01-0543	0–0.5	Fill	Naphthalene	0.109	mg/kg	U
21-11289	MD21-01-0543	0–0.5	Fill	Methylnaphthalene[2-]	0.109	mg/kg	U
21-11289	MD21-01-0543	0–0.5	Fill	Chloronaphthalene[2-]	0.109	mg/kg	U
21-11289	MD21-01-0543	0–0.5	Fill	Dichlorobenzidine[3,3'-]	1.09	mg/kg	U
21-11289	MD21-01-0543	0–0.5	Fill	Methylphenol[2-]	1.09	mg/kg	U
21-11289	MD21-01-0543	0–0.5	Fill	Dichlorobenzene[1,2-]	1.09	mg/kg	U
21-11289	MD21-01-0543	0–0.5	Fill	Chlorophenol[2-]	1.09	mg/kg	U
21-11289	MD21-01-0543	0–0.5	Fill	Trichlorophenol[2,4,5-]	1.09	mg/kg	U
21-11290	MD21-01-0542	0–0.5	Fill	Aniline	1.07	mg/kg	U
21-11290	MD21-01-0542	0–0.5	Fill	Nitrosodimethylamine[N-]	1.07	mg/kg	U
21-11290	MD21-01-0542	0–0.5	Fill	Nitroso-di-n-propylamine[N-]	1.07	mg/kg	U
21-11290	MD21-01-0542	0–0.5	Fill	Naphthalene	0.107	mg/kg	U
21-11290	MD21-01-0542	0–0.5	Fill	Benzoic Acid	2.14	mg/kg	U
21-11290	MD21-01-0542	0–0.5	Fill	Hexachloroethane	1.07	mg/kg	U
21-11290	MD21-01-0542	0–0.5	Fill	Chlorophenyl-phenyl[4-] Ether	1.07	mg/kg	U
21-11290	MD21-01-0542	0–0.5	Fill	Hexachlorocyclopentadiene	1.07	mg/kg	U
21-11290	MD21-01-0542	0–0.5	Fill	Isophorone	1.07	mg/kg	U
21-11290	MD21-01-0542	0–0.5	Fill	Acenaphthene	0.107	mg/kg	U
21-11290	MD21-01-0542	0–0.5	Fill	Diethylphthalate	0.123	mg/kg	U
21-11290	MD21-01-0542	0–0.5	Fill	Di-n-butylphthalate	1.07	mg/kg	U
21-11290	MD21-01-0542	0–0.5	Fill	Phenanthrene	0.107	mg/kg	U
21-11290	MD21-01-0542	0–0.5	Fill	Chloronaphthalene[2-]	0.107	mg/kg	U
21-11290	MD21-01-0542	0–0.5	Fill	Methylnaphthalene[2-]	0.107	mg/kg	U
21-11290	MD21-01-0542	0–0.5	Fill	Benzyl Alcohol	1.07	mg/kg	U
21-11290	MD21-01-0542	0–0.5	Fill	Bromophenyl-phenylether[4-]	1.07	mg/kg	U
21-11290	MD21-01-0542	0–0.5	Fill	Azobenzene	0.107	mg/kg	U
21-11290	MD21-01-0542	0–0.5	Fill	Dimethylphenol[2,4-]	1.07	mg/kg	U
21-11290	MD21-01-0542	0–0.5	Fill	Methylphenol[4-]	1.07	mg/kg	U
21-11290	MD21-01-0542	0–0.5	Fill	Dichlorobenzidine[3,3'-]	1.07	mg/kg	U
21-11290	MD21-01-0542	0–0.5	Fill	Methylphenol[2-]	1.07	mg/kg	U
21-11290	MD21-01-0542	0–0.5	Fill	Dichlorobenzene[1,2-]	1.07	mg/kg	U
21-11290	MD21-01-0542	0–0.5	Fill	Chlorophenol[2-]	1.07	mg/kg	U
21-11290	MD21-01-0542	0–0.5	Fill	Trichlorophenol[2,4,5-]	1.07	mg/kg	U
21-11290	MD21-01-0542	0–0.5	Fill	Nitrobenzene	1.07	mg/kg	U
21-11290	MD21-01-0542	0–0.5	Fill	Nitroaniline[3-]	1.07	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11290	MD21-01-0542	0–0.5	Fill	Nitroaniline[4-]	1.07	mg/kg	U
21-11290	MD21-01-0542	0–0.5	Fill	Nitrophenol[4-]	1.07	mg/kg	U
21-11290	MD21-01-0542	0–0.5	Fill	Butylbenzylphthalate	1.07	mg/kg	U
21-11290	MD21-01-0542	0–0.5	Fill	Fluorene	0.107	mg/kg	U
21-11290	MD21-01-0542	0–0.5	Fill	Hexachlorobutadiene	1.07	mg/kg	U
21-11290	MD21-01-0542	0–0.5	Fill	Pentachlorophenol	1.07	mg/kg	U
21-11290	MD21-01-0542	0–0.5	Fill	Trichlorophenol[2,4,6-]	1.07	mg/kg	U
21-11290	MD21-01-0542	0–0.5	Fill	Nitroaniline[2-]	1.07	mg/kg	U
21-11290	MD21-01-0542	0–0.5	Fill	Nitrophenol[2-]	1.07	mg/kg	U
21-11290	MD21-01-0542	0–0.5	Fill	Chloroaniline[4-]	1.07	mg/kg	U
21-11290	MD21-01-0542	0–0.5	Fill	Dichlorobenzene[1,4-]	1.07	mg/kg	U
21-11290	MD21-01-0542	0–0.5	Fill	Indeno(1,2,3-cd)pyrene	0.107	mg/kg	U
21-11290	MD21-01-0542	0–0.5	Fill	Benzo(b)fluoranthene	0.107	mg/kg	U
21-11290	MD21-01-0542	0–0.5	Fill	Fluoranthene	0.162	mg/kg	None
21-11290	MD21-01-0542	0–0.5	Fill	Benzo(k)fluoranthene	0.077	mg/kg	J
21-11290	MD21-01-0542	0–0.5	Fill	Acenaphthylene	0.107	mg/kg	U
21-11290	MD21-01-0542	0–0.5	Fill	Oxybis(1-chloropropane)[2,2'-]	1.07	mg/kg	U
21-11290	MD21-01-0542	0–0.5	Fill	Phenol	1.07	mg/kg	U
21-11290	MD21-01-0542	0–0.5	Fill	Pyridine	1.07	mg/kg	U
21-11290	MD21-01-0542	0–0.5	Fill	Bis(2-chloroethyl)ether	1.07	mg/kg	U
21-11290	MD21-01-0542	0–0.5	Fill	Bis(2-chloroethoxy)methane	1.07	mg/kg	U
21-11290	MD21-01-0542	0–0.5	Fill	Bis(2-ethylhexyl)phthalate	1.07	mg/kg	U
21-11290	MD21-01-0542	0–0.5	Fill	Di-n-octylphthalate	1.07	mg/kg	U
21-11290	MD21-01-0542	0–0.5	Fill	Cesium-134	0.0623	pCi/g	U
21-11290	MD21-01-0542	0–0.5	Fill	Americium-241	0.0461	pCi/g	U
21-11290	MD21-01-0542	0–0.5	Fill	Chrysene	0.0776	mg/kg	J
21-11290	MD21-01-0542	0–0.5	Fill	Benzo(a)pyrene	0.107	mg/kg	U
21-11290	MD21-01-0542	0–0.5	Fill	Dinitrophenol[2,4-]	2.14	mg/kg	U
21-11290	MD21-01-0542	0–0.5	Fill	Dibenz(a,h)anthracene	0.107	mg/kg	U
21-11290	MD21-01-0542	0–0.5	Fill	Dinitro-2-methylphenol[4,6-]	1.07	mg/kg	U
21-11290	MD21-01-0542	0–0.5	Fill	Dichlorobenzene[1,3-]	1.07	mg/kg	U
21-11290	MD21-01-0542	0–0.5	Fill	Benz(a)anthracene	0.107	mg/kg	U
21-11290	MD21-01-0542	0–0.5	Fill	Chloro-3-methylphenol[4-]	1.07	mg/kg	U
21-11290	MD21-01-0542	0–0.5	Fill	Uranium-235	0.157	pCi/g	U
21-11290	MD21-01-0542	0–0.5	Fill	Cesium-137	0.0265	pCi/g	U
21-11290	MD21-01-0542	0–0.5	Fill	Europium-152	-0.158	pCi/g	U
21-11290	MD21-01-0542	0–0.5	Fill	Sodium-22	-0.0153	pCi/g	U
21-11290	MD21-01-0542	0–0.5	Fill	Dinitrotoluene[2,6-]	1.07	mg/kg	U
21-11290	MD21-01-0542	0–0.5	Fill	Hexachlorobenzene	1.07	mg/kg	U
21-11290	MD21-01-0542	0–0.5	Fill	Anthracene	0.107	mg/kg	U
21-11290	MD21-01-0542	0–0.5	Fill	Trichlorobenzene[1,2,4-]	1.07	mg/kg	U
21-11290	MD21-01-0542	0–0.5	Fill	Dichlorophenol[2,4-]	1.07	mg/kg	U
21-11290	MD21-01-0542	0–0.5	Fill	Aroclor-1254	0.0036	mg/kg	U
21-11290	MD21-01-0542	0–0.5	Fill	Aroclor-1260	0.0036	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11290	MD21-01-0542	0–0.5	Fill	Aroclor-1221	0.0036	mg/kg	U
21-11290	MD21-01-0542	0–0.5	Fill	Aroclor-1232	0.0036	mg/kg	U
21-11290	MD21-01-0542	0–0.5	Fill	Aroclor-1248	0.0036	mg/kg	U
21-11290	MD21-01-0542	0–0.5	Fill	Aroclor-1016	0.0036	mg/kg	U
21-11290	MD21-01-0542	0–0.5	Fill	Aroclor-1242	0.0036	mg/kg	U
21-11290	MD21-01-0542	0–0.5	Fill	Dinitrotoluene[2,4-]	1.07	mg/kg	U
21-11290	MD21-01-0542	0–0.5	Fill	Diphenylamine	1.07	mg/kg	U
21-11290	MD21-01-0542	0–0.5	Fill	Pyrene	0.107	mg/kg	U
21-11290	MD21-01-0542	0–0.5	Fill	Dimethyl Phthalate	1.07	mg/kg	U
21-11290	MD21-01-0542	0–0.5	Fill	Dibenzofuran	1.07	mg/kg	U
21-11290	MD21-01-0542	0–0.5	Fill	Perchlorate	0.161	mg/kg	U
21-11290	MD21-01-0542	0–0.5	Fill	Oxalate	0.968	mg/kg	U
21-11290	MD21-01-0542	0–0.5	Fill	Silver	0.0103	mg/kg	J
21-11290	MD21-01-0542	0–0.5	Fill	Antimony	0.13	mg/kg	U
21-11290	MD21-01-0542	0–0.5	Fill	Thallium	0.16	mg/kg	None
21-11290	MD21-01-0542	0–0.5	Fill	Beryllium	0.792	mg/kg	None
21-11290	MD21-01-0542	0–0.5	Fill	Nickel	7.420001	mg/kg	None
21-11290	MD21-01-0542	0–0.5	Fill	Aluminum	10470	mg/kg	J+
21-11290	MD21-01-0542	0–0.5	Fill	Arsenic	3.27	mg/kg	None
21-11290	MD21-01-0542	0–0.5	Fill	Barium	172	mg/kg	None
21-11290	MD21-01-0542	0–0.5	Fill	Calcium	4490	mg/kg	J
21-11290	MD21-01-0542	0–0.5	Fill	Cadmium	0.0739	mg/kg	J
21-11290	MD21-01-0542	0–0.5	Fill	Cobalt	3.75	mg/kg	None
21-11290	MD21-01-0542	0–0.5	Fill	Chromium	6.84	mg/kg	None
21-11290	MD21-01-0542	0–0.5	Fill	Copper	6	mg/kg	None
21-11290	MD21-01-0542	0–0.5	Fill	Iron	10330	mg/kg	None
21-11290	MD21-01-0542	0–0.5	Fill	Magnesium	2020	mg/kg	None
21-11290	MD21-01-0542	0–0.5	Fill	Manganese	315	mg/kg	None
21-11290	MD21-01-0542	0–0.5	Fill	Sodium	123	mg/kg	None
21-11290	MD21-01-0542	0–0.5	Fill	Lead	31.9	mg/kg	J
21-11290	MD21-01-0542	0–0.5	Fill	Vanadium	15.4	mg/kg	None
21-11290	MD21-01-0542	0–0.5	Fill	Zinc	30.6	mg/kg	None
21-11290	MD21-01-0542	0–0.5	Fill	Selenium	0.494	mg/kg	U
21-11290	MD21-01-0542	0–0.5	Fill	Potassium	1320	mg/kg	None
21-11290	MD21-01-0542	0–0.5	Fill	Mercury	0.027	mg/kg	J+
21-11290	MD21-01-0542	0–0.5	Fill	Strontium-90	-0.0256	pCi/g	U
21-11290	MD21-01-0542	0–0.5	Fill	Ruthenium-106	-0.202	pCi/g	U
21-11290	MD21-01-0542	0–0.5	Fill	Cobalt-60	0.0181	pCi/g	U
21-11290	MD21-01-0542	0–0.5	Fill	Benzo(g,h,i)perylene	0.107	mg/kg	U
21-11291	MD21-01-0532	4–5	Qbt 3	Copper	2.23	mg/kg	None
21-11291	MD21-01-0532	4–5	Qbt 3	Iron	4500	mg/kg	None
21-11291	MD21-01-0532	4–5	Qbt 3	Potassium	604	mg/kg	None
21-11291	MD21-01-0532	4–5	Qbt 3	Magnesium	1280	mg/kg	None
21-11291	MD21-01-0532	4–5	Qbt 3	Manganese	189	mg/kg	None

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11291	MD21-01-0532	4–5	Qbt 3	Sodium	202	mg/kg	None
21-11291	MD21-01-0532	4–5	Qbt 3	Lead	14.8	mg/kg	J
21-11291	MD21-01-0532	4–5	Qbt 3	Selenium	0.476	mg/kg	U
21-11291	MD21-01-0532	4–5	Qbt 3	Vanadium	6.87	mg/kg	None
21-11291	MD21-01-0532	4–5	Qbt 3	Zinc	30	mg/kg	None
21-11291	MD21-01-0532	4–5	Qbt 3	Mercury	0.00903	mg/kg	J+
21-11291	MD21-01-0532	4–5	Qbt 3	Strontium-90	-0.0263	pCi/g	U
21-11291	MD21-01-0532	4–5	Qbt 3	Americium-241	-0.0791	pCi/g	U
21-11291	MD21-01-0532	4–5	Qbt 3	Europium-152	-0.0583	pCi/g	U
21-11291	MD21-01-0532	4–5	Qbt 3	Sodium-22	-0.0125	pCi/g	U
21-11291	MD21-01-0532	4–5	Qbt 3	Ruthenium-106	0.0784	pCi/g	U
21-11291	MD21-01-0532	4–5	Qbt 3	Uranium-235	0.387	pCi/g	U
21-11291	MD21-01-0532	4–5	Qbt 3	Cesium-137	-0.00449	pCi/g	U
21-11291	MD21-01-0532	4–5	Qbt 3	Cobalt-60	0.0109	pCi/g	U
21-11291	MD21-01-0532	4–5	Qbt 3	Cesium-134	0.00315	pCi/g	U
21-11291	MD21-01-0532	4–5	Qbt 3	Nitroaniline[4-]	1.02	mg/kg	U
21-11291	MD21-01-0532	4–5	Qbt 3	Nitrophenol[4-]	1.02	mg/kg	U
21-11291	MD21-01-0532	4–5	Qbt 3	Benzyl Alcohol	1.02	mg/kg	U
21-11291	MD21-01-0532	4–5	Qbt 3	Bromophenyl-phenylether[4-]	1.02	mg/kg	U
21-11291	MD21-01-0532	4–5	Qbt 3	Azobenzene	0.102	mg/kg	U
21-11291	MD21-01-0532	4–5	Qbt 3	Dimethylphenol[2,4-]	1.02	mg/kg	U
21-11291	MD21-01-0532	4–5	Qbt 3	Methylphenol[4-]	1.02	mg/kg	U
21-11291	MD21-01-0532	4–5	Qbt 3	Dichlorobenzene[1,4-]	1.02	mg/kg	U
21-11291	MD21-01-0532	4–5	Qbt 3	Chloroaniline[4-]	1.02	mg/kg	U
21-11291	MD21-01-0532	4–5	Qbt 3	Oxybis(1-chloropropane)[2,2'-]	1.02	mg/kg	U
21-11291	MD21-01-0532	4–5	Qbt 3	Phenol	1.02	mg/kg	U
21-11291	MD21-01-0532	4–5	Qbt 3	Diphenylamine	1.02	mg/kg	U
21-11291	MD21-01-0532	4–5	Qbt 3	Pyrene	0.102	mg/kg	U
21-11291	MD21-01-0532	4–5	Qbt 3	Dimethyl Phthalate	1.02	mg/kg	U
21-11291	MD21-01-0532	4–5	Qbt 3	Dibenzofuran	1.02	mg/kg	U
21-11291	MD21-01-0532	4–5	Qbt 3	Benzo(g,h,i)perylene	0.102	mg/kg	U
21-11291	MD21-01-0532	4–5	Qbt 3	Indeno(1,2,3-cd)pyrene	0.102	mg/kg	U
21-11291	MD21-01-0532	4–5	Qbt 3	Benzo(b)fluoranthene	0.102	mg/kg	U
21-11291	MD21-01-0532	4–5	Qbt 3	Fluoranthene	0.102	mg/kg	U
21-11291	MD21-01-0532	4–5	Qbt 3	Benzo(k)fluoranthene	0.102	mg/kg	U
21-11291	MD21-01-0532	4–5	Qbt 3	Acenaphthylene	0.102	mg/kg	U
21-11291	MD21-01-0532	4–5	Qbt 3	Chrysene	0.102	mg/kg	U
21-11291	MD21-01-0532	4–5	Qbt 3	Benzo(a)pyrene	0.102	mg/kg	U
21-11291	MD21-01-0532	4–5	Qbt 3	Dinitrophenol[2,4-]	2.05	mg/kg	U
21-11291	MD21-01-0532	4–5	Qbt 3	Dibenz(a,h)anthracene	0.102	mg/kg	U
21-11291	MD21-01-0532	4–5	Qbt 3	Dinitro-2-methylphenol[4,6-]	1.02	mg/kg	U
21-11291	MD21-01-0532	4–5	Qbt 3	Dichlorobenzene[1,3-]	0.0124	mg/kg	J
21-11291	MD21-01-0532	4–5	Qbt 3	Benz(a)anthracene	0.102	mg/kg	U
21-11291	MD21-01-0532	4–5	Qbt 3	Chloro-3-methylphenol[4-]	1.02	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11291	MD21-01-0532	4–5	Qbt 3	Dinitrotoluene[2,6-]	1.02	mg/kg	U
21-11291	MD21-01-0532	4–5	Qbt 3	Aniline	1.02	mg/kg	U
21-11291	MD21-01-0532	4–5	Qbt 3	Nitrosodimethylamine[N-]	1.02	mg/kg	U
21-11291	MD21-01-0532	4–5	Qbt 3	Nitroso-di-n-propylamine[N-]	1.02	mg/kg	U
21-11291	MD21-01-0532	4–5	Qbt 3	Benzoic Acid	2.05	mg/kg	U
21-11291	MD21-01-0532	4–5	Qbt 3	Hexachloroethane	1.02	mg/kg	U
21-11291	MD21-01-0532	4–5	Qbt 3	Chlorophenyl-phenyl[4-] Ether	1.02	mg/kg	U
21-11291	MD21-01-0532	4–5	Qbt 3	Hexachlorocyclopentadiene	1.02	mg/kg	U
21-11291	MD21-01-0532	4–5	Qbt 3	Isophorone	1.02	mg/kg	U
21-11291	MD21-01-0532	4–5	Qbt 3	Acenaphthene	0.102	mg/kg	U
21-11291	MD21-01-0532	4–5	Qbt 3	Diethylphthalate	0.107	mg/kg	U
21-11291	MD21-01-0532	4–5	Qbt 3	Di-n-butylphthalate	1.02	mg/kg	U
21-11291	MD21-01-0532	4–5	Qbt 3	Phenanthrene	0.102	mg/kg	U
21-11291	MD21-01-0532	4–5	Qbt 3	Butylbenzylphthalate	1.02	mg/kg	U
21-11291	MD21-01-0532	4–5	Qbt 3	Fluorene	0.102	mg/kg	U
21-11291	MD21-01-0532	4–5	Qbt 3	Hexachlorobutadiene	1.02	mg/kg	U
21-11291	MD21-01-0532	4–5	Qbt 3	Pentachlorophenol	1.02	mg/kg	U
21-11291	MD21-01-0532	4–5	Qbt 3	Trichlorophenol[2,4,6-]	1.02	mg/kg	U
21-11291	MD21-01-0532	4–5	Qbt 3	Nitroaniline[2-]	1.02	mg/kg	U
21-11291	MD21-01-0532	4–5	Qbt 3	Nitrophenol[2-]	1.02	mg/kg	U
21-11291	MD21-01-0532	4–5	Qbt 3	Naphthalene	0.102	mg/kg	U
21-11291	MD21-01-0532	4–5	Qbt 3	Methylnaphthalene[2-]	0.102	mg/kg	U
21-11291	MD21-01-0532	4–5	Qbt 3	Chloronaphthalene[2-]	0.102	mg/kg	U
21-11291	MD21-01-0532	4–5	Qbt 3	Dichlorobenzidine[3,3'-]	1.02	mg/kg	U
21-11291	MD21-01-0532	4–5	Qbt 3	Methylphenol[2-]	1.02	mg/kg	U
21-11291	MD21-01-0532	4–5	Qbt 3	Dichlorobenzene[1,2-]	1.02	mg/kg	U
21-11291	MD21-01-0532	4–5	Qbt 3	Chlorophenol[2-]	0.0166	mg/kg	J
21-11291	MD21-01-0532	4–5	Qbt 3	Trichlorophenol[2,4,5-]	1.02	mg/kg	U
21-11291	MD21-01-0532	4–5	Qbt 3	Nitrobenzene	1.02	mg/kg	U
21-11291	MD21-01-0532	4–5	Qbt 3	Nitroaniline[3-]	1.02	mg/kg	U
21-11291	MD21-01-0532	4–5	Qbt 3	Aroclor-1260	0.0034	mg/kg	U
21-11291	MD21-01-0532	4–5	Qbt 3	Aroclor-1254	0.0034	mg/kg	U
21-11291	MD21-01-0532	4–5	Qbt 3	Aroclor-1221	0.0034	mg/kg	U
21-11291	MD21-01-0532	4–5	Qbt 3	Aroclor-1232	0.0034	mg/kg	U
21-11291	MD21-01-0532	4–5	Qbt 3	Aroclor-1248	0.0034	mg/kg	U
21-11291	MD21-01-0532	4–5	Qbt 3	Aroclor-1016	0.0034	mg/kg	U
21-11291	MD21-01-0532	4–5	Qbt 3	Aroclor-1242	0.0034	mg/kg	U
21-11291	MD21-01-0532	4–5	Qbt 3	Perchlorate	0.152	mg/kg	U
21-11291	MD21-01-0532	4–5	Qbt 3	Oxalate	0.914	mg/kg	U
21-11291	MD21-01-0532	4–5	Qbt 3	Silver	0.203	mg/kg	U
21-11291	MD21-01-0532	4–5	Qbt 3	Beryllium	0.323	mg/kg	None
21-11291	MD21-01-0532	4–5	Qbt 3	Nickel	3.7	mg/kg	None
21-11291	MD21-01-0532	4–5	Qbt 3	Antimony	0.0203	mg/kg	U
21-11291	MD21-01-0532	4–5	Qbt 3	Thallium	0.495	mg/kg	None

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11291	MD21-01-0532	4–5	Qbt 3	Aluminum	4470	mg/kg	J+
21-11291	MD21-01-0532	4–5	Qbt 3	Arsenic	3.01	mg/kg	None
21-11291	MD21-01-0532	4–5	Qbt 3	Barium	40.7	mg/kg	None
21-11291	MD21-01-0532	4–5	Qbt 3	Calcium	1600	mg/kg	J
21-11291	MD21-01-0532	4–5	Qbt 3	Cadmium	0.476	mg/kg	U
21-11291	MD21-01-0532	4–5	Qbt 3	Cobalt	0.737	mg/kg	None
21-11291	MD21-01-0532	4–5	Qbt 3	Chromium	2.47	mg/kg	None
21-11291	MD21-01-0532	4–5	Qbt 3	Pyridine	1.02	mg/kg	U
21-11291	MD21-01-0532	4–5	Qbt 3	Bis(2-chloroethyl)ether	1.02	mg/kg	U
21-11291	MD21-01-0532	4–5	Qbt 3	Bis(2-chloroethoxy)methane	1.02	mg/kg	U
21-11291	MD21-01-0532	4–5	Qbt 3	Bis(2-ethylhexyl)phthalate	1.02	mg/kg	U
21-11291	MD21-01-0532	4–5	Qbt 3	Di-n-octylphthalate	1.02	mg/kg	U
21-11291	MD21-01-0532	4–5	Qbt 3	Hexachlorobenzene	1.02	mg/kg	U
21-11291	MD21-01-0532	4–5	Qbt 3	Anthracene	0.102	mg/kg	U
21-11291	MD21-01-0532	4–5	Qbt 3	Trichlorobenzene[1,2,4-]	1.02	mg/kg	U
21-11291	MD21-01-0532	4–5	Qbt 3	Dichlorophenol[2,4-]	1.02	mg/kg	U
21-11291	MD21-01-0532	4–5	Qbt 3	Dinitrotoluene[2,4-]	1.02	mg/kg	U
21-11291	MD21-01-0533	9–10	Qbt 3	Beryllium	0.137	mg/kg	None
21-11291	MD21-01-0533	9–10	Qbt 3	Nickel	0.743	mg/kg	None
21-11291	MD21-01-0533	9–10	Qbt 3	Antimony	0.392	mg/kg	U
21-11291	MD21-01-0533	9–10	Qbt 3	Thallium	0.0863	mg/kg	J
21-11291	MD21-01-0533	9–10	Qbt 3	Aluminum	469	mg/kg	J+
21-11291	MD21-01-0533	9–10	Qbt 3	Arsenic	1.57	mg/kg	None
21-11291	MD21-01-0533	9–10	Qbt 3	Barium	13.6	mg/kg	None
21-11291	MD21-01-0533	9–10	Qbt 3	Calcium	391	mg/kg	J
21-11291	MD21-01-0533	9–10	Qbt 3	Cadmium	0.455	mg/kg	U
21-11291	MD21-01-0533	9–10	Qbt 3	Cobalt	0.166	mg/kg	J
21-11291	MD21-01-0533	9–10	Qbt 3	Chromium	1.12	mg/kg	None
21-11291	MD21-01-0533	9–10	Qbt 3	Copper	1.05	mg/kg	None
21-11291	MD21-01-0533	9–10	Qbt 3	Iron	2320	mg/kg	None
21-11291	MD21-01-0533	9–10	Qbt 3	Potassium	133	mg/kg	None
21-11291	MD21-01-0533	9–10	Qbt 3	Magnesium	172	mg/kg	None
21-11291	MD21-01-0533	9–10	Qbt 3	Manganese	171	mg/kg	None
21-11291	MD21-01-0533	9–10	Qbt 3	Trichlorobenzene[1,2,4-]	1	mg/kg	U
21-11291	MD21-01-0533	9–10	Qbt 3	Dichlorophenol[2,4-]	1	mg/kg	U
21-11291	MD21-01-0533	9–10	Qbt 3	Dinitrotoluene[2,4-]	1	mg/kg	U
21-11291	MD21-01-0533	9–10	Qbt 3	Diphenylamine	1	mg/kg	U
21-11291	MD21-01-0533	9–10	Qbt 3	Pyrene	0.1	mg/kg	U
21-11291	MD21-01-0533	9–10	Qbt 3	Dimethyl Phthalate	1	mg/kg	U
21-11291	MD21-01-0533	9–10	Qbt 3	Dibenzofuran	1	mg/kg	U
21-11291	MD21-01-0533	9–10	Qbt 3	Benzo(g,h,i)perylene	0.1	mg/kg	U
21-11291	MD21-01-0533	9–10	Qbt 3	Indeno(1,2,3-cd)pyrene	0.1	mg/kg	U
21-11291	MD21-01-0533	9–10	Qbt 3	Benzo(b)fluoranthene	0.1	mg/kg	U
21-11291	MD21-01-0533	9–10	Qbt 3	Fluoranthene	0.1	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11291	MD21-01-0533	9–10	Qbt 3	Perchlorate	0.152	mg/kg	U
21-11291	MD21-01-0533	9–10	Qbt 3	Ruthenium-106	0.168	pCi/g	U
21-11291	MD21-01-0533	9–10	Qbt 3	Cobalt-60	0.0261	pCi/g	U
21-11291	MD21-01-0533	9–10	Qbt 3	Uranium-235	0.11	pCi/g	U
21-11291	MD21-01-0533	9–10	Qbt 3	Cesium-134	0.00198	pCi/g	U
21-11291	MD21-01-0533	9–10	Qbt 3	Americium-241	0.0203	pCi/g	U
21-11291	MD21-01-0533	9–10	Qbt 3	Oxalate	0.912	mg/kg	U
21-11291	MD21-01-0533	9–10	Qbt 3	Cesium-137	-0.00726	pCi/g	U
21-11291	MD21-01-0533	9–10	Qbt 3	Sodium-22	-0.0106	pCi/g	U
21-11291	MD21-01-0533	9–10	Qbt 3	Europium-152	0.015	pCi/g	U
21-11291	MD21-01-0533	9–10	Qbt 3	Isophorone	1	mg/kg	U
21-11291	MD21-01-0533	9–10	Qbt 3	Benzo(k)fluoranthene	0.1	mg/kg	U
21-11291	MD21-01-0533	9–10	Qbt 3	Acenaphthylene	0.1	mg/kg	U
21-11291	MD21-01-0533	9–10	Qbt 3	Chrysene	0.1	mg/kg	U
21-11291	MD21-01-0533	9–10	Qbt 3	Benzo(a)pyrene	0.1	mg/kg	U
21-11291	MD21-01-0533	9–10	Qbt 3	Dinitrophenol[2,4-]	2	mg/kg	U
21-11291	MD21-01-0533	9–10	Qbt 3	Dibenz(a,h)anthracene	0.1	mg/kg	U
21-11291	MD21-01-0533	9–10	Qbt 3	Nitrobenzene	1	mg/kg	U
21-11291	MD21-01-0533	9–10	Qbt 3	Nitroaniline[3-]	1	mg/kg	U
21-11291	MD21-01-0533	9–10	Qbt 3	Dinitro-2-methylphenol[4,6-]	1	mg/kg	U
21-11291	MD21-01-0533	9–10	Qbt 3	Dichlorobenzene[1,3-]	1	mg/kg	U
21-11291	MD21-01-0533	9–10	Qbt 3	Benz(a)anthracene	0.1	mg/kg	U
21-11291	MD21-01-0533	9–10	Qbt 3	Chloro-3-methylphenol[4-]	1	mg/kg	U
21-11291	MD21-01-0533	9–10	Qbt 3	Dinitrotoluene[2,6-]	1	mg/kg	U
21-11291	MD21-01-0533	9–10	Qbt 3	Aniline	1	mg/kg	U
21-11291	MD21-01-0533	9–10	Qbt 3	Nitrosodimethylamine[N-]	1	mg/kg	U
21-11291	MD21-01-0533	9–10	Qbt 3	Nitroso-di-n-propylamine[N-]	1	mg/kg	U
21-11291	MD21-01-0533	9–10	Qbt 3	Benzoic Acid	2	mg/kg	U
21-11291	MD21-01-0533	9–10	Qbt 3	Hexachloroethane	1	mg/kg	U
21-11291	MD21-01-0533	9–10	Qbt 3	Chlorophenyl-phenyl[4-] Ether	1	mg/kg	U
21-11291	MD21-01-0533	9–10	Qbt 3	Hexachlorocyclopentadiene	1	mg/kg	U
21-11291	MD21-01-0533	9–10	Qbt 3	Strontium-90	-0.0332	pCi/g	U
21-11291	MD21-01-0533	9–10	Qbt 3	Aroclor-1260	0.0033	mg/kg	U
21-11291	MD21-01-0533	9–10	Qbt 3	Aroclor-1254	0.0033	mg/kg	U
21-11291	MD21-01-0533	9–10	Qbt 3	Aroclor-1221	0.0033	mg/kg	U
21-11291	MD21-01-0533	9–10	Qbt 3	Aroclor-1232	0.0033	mg/kg	U
21-11291	MD21-01-0533	9–10	Qbt 3	Aroclor-1248	0.0033	mg/kg	U
21-11291	MD21-01-0533	9–10	Qbt 3	Aroclor-1016	0.0033	mg/kg	U
21-11291	MD21-01-0533	9–10	Qbt 3	Dichlorobenzene[1,2-]	1	mg/kg	U
21-11291	MD21-01-0533	9–10	Qbt 3	Acenaphthene	0.1	mg/kg	U
21-11291	MD21-01-0533	9–10	Qbt 3	Diethylphthalate	0.108	mg/kg	U
21-11291	MD21-01-0533	9–10	Qbt 3	Di-n-butylphthalate	1	mg/kg	U
21-11291	MD21-01-0533	9–10	Qbt 3	Phenanthrene	0.1	mg/kg	U
21-11291	MD21-01-0533	9–10	Qbt 3	Butylbenzylphthalate	1	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11291	MD21-01-0533	9–10	Qbt 3	Fluorene	0.1	mg/kg	U
21-11291	MD21-01-0533	9–10	Qbt 3	Hexachlorobutadiene	1	mg/kg	U
21-11291	MD21-01-0533	9–10	Qbt 3	Pentachlorophenol	1	mg/kg	U
21-11291	MD21-01-0533	9–10	Qbt 3	Trichlorophenol[2,4,6-]	1	mg/kg	U
21-11291	MD21-01-0533	9–10	Qbt 3	Nitroaniline[2-]	1	mg/kg	U
21-11291	MD21-01-0533	9–10	Qbt 3	Nitrophenol[2-]	1	mg/kg	U
21-11291	MD21-01-0533	9–10	Qbt 3	Naphthalene	0.1	mg/kg	U
21-11291	MD21-01-0533	9–10	Qbt 3	Methylnaphthalene[2-]	0.1	mg/kg	U
21-11291	MD21-01-0533	9–10	Qbt 3	Chloronaphthalene[2-]	0.1	mg/kg	U
21-11291	MD21-01-0533	9–10	Qbt 3	Dichlorobenzidine[3,3'-]	1	mg/kg	U
21-11291	MD21-01-0533	9–10	Qbt 3	Methylphenol[2-]	1	mg/kg	U
21-11291	MD21-01-0533	9–10	Qbt 3	Chlorophenol[2-]	1	mg/kg	U
21-11291	MD21-01-0533	9–10	Qbt 3	Trichlorophenol[2,4,5-]	1	mg/kg	U
21-11291	MD21-01-0533	9–10	Qbt 3	Aroclor-1242	0.0033	mg/kg	U
21-11291	MD21-01-0533	9–10	Qbt 3	Silver	0.196	mg/kg	U
21-11291	MD21-01-0533	9–10	Qbt 3	Sodium	77.4	mg/kg	None
21-11291	MD21-01-0533	9–10	Qbt 3	Lead	16.8	mg/kg	J
21-11291	MD21-01-0533	9–10	Qbt 3	Selenium	0.455	mg/kg	U
21-11291	MD21-01-0533	9–10	Qbt 3	Vanadium	1.24	mg/kg	None
21-11291	MD21-01-0533	9–10	Qbt 3	Zinc	32	mg/kg	None
21-11291	MD21-01-0533	9–10	Qbt 3	Mercury	0.00916	mg/kg	UJ
21-11291	MD21-01-0533	9–10	Qbt 3	Nitroaniline[4-]	1	mg/kg	U
21-11291	MD21-01-0533	9–10	Qbt 3	Nitrophenol[4-]	1	mg/kg	U
21-11291	MD21-01-0533	9–10	Qbt 3	Benzyl Alcohol	1	mg/kg	U
21-11291	MD21-01-0533	9–10	Qbt 3	Bromophenyl-phenylether[4-]	1	mg/kg	U
21-11291	MD21-01-0533	9–10	Qbt 3	Azobenzene	0.1	mg/kg	U
21-11291	MD21-01-0533	9–10	Qbt 3	Dimethylphenol[2,4-]	1	mg/kg	U
21-11291	MD21-01-0533	9–10	Qbt 3	Methylphenol[4-]	1	mg/kg	U
21-11291	MD21-01-0533	9–10	Qbt 3	Dichlorobenzene[1,4-]	1	mg/kg	U
21-11291	MD21-01-0533	9–10	Qbt 3	Chloroaniline[4-]	1	mg/kg	U
21-11291	MD21-01-0533	9–10	Qbt 3	Oxybis(1-chloropropane)[2,2'-]	1	mg/kg	U
21-11291	MD21-01-0533	9–10	Qbt 3	Phenol	1	mg/kg	U
21-11291	MD21-01-0533	9–10	Qbt 3	Pyridine	1	mg/kg	U
21-11291	MD21-01-0533	9–10	Qbt 3	Bis(2-chloroethyl)ether	1	mg/kg	U
21-11291	MD21-01-0533	9–10	Qbt 3	Bis(2-chloroethoxy)methane	1	mg/kg	U
21-11291	MD21-01-0533	9–10	Qbt 3	Bis(2-ethylhexyl)phthalate	1	mg/kg	U
21-11291	MD21-01-0533	9–10	Qbt 3	Di-n-octylphthalate	1	mg/kg	U
21-11291	MD21-01-0533	9–10	Qbt 3	Hexachlorobenzene	1	mg/kg	U
21-11291	MD21-01-0533	9–10	Qbt 3	Anthracene	0.1	mg/kg	U
21-11291	MD21-01-0534	14–15	Qbt 3	Mercury	0.00537	mg/kg	J+
21-11291	MD21-01-0534	14–15	Qbt 3	Barium	33.5	mg/kg	None
21-11291	MD21-01-0534	14–15	Qbt 3	Calcium	584	mg/kg	J
21-11291	MD21-01-0534	14–15	Qbt 3	Cadmium	0.474	mg/kg	U
21-11291	MD21-01-0534	14–15	Qbt 3	Cobalt	0.381	mg/kg	J

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11291	MD21-01-0534	14–15	Qbt 3	Chromium	3.67	mg/kg	None
21-11291	MD21-01-0534	14–15	Qbt 3	Copper	1.91	mg/kg	None
21-11291	MD21-01-0534	14–15	Qbt 3	Iron	3720	mg/kg	None
21-11291	MD21-01-0534	14–15	Qbt 3	Potassium	391	mg/kg	None
21-11291	MD21-01-0534	14–15	Qbt 3	Magnesium	539	mg/kg	None
21-11291	MD21-01-0534	14–15	Qbt 3	Manganese	194	mg/kg	None
21-11291	MD21-01-0534	14–15	Qbt 3	Sodium	245	mg/kg	None
21-11291	MD21-01-0534	14–15	Qbt 3	Lead	16.3	mg/kg	J
21-11291	MD21-01-0534	14–15	Qbt 3	Selenium	0.474	mg/kg	U
21-11291	MD21-01-0534	14–15	Qbt 3	Vanadium	2.85	mg/kg	None
21-11291	MD21-01-0534	14–15	Qbt 3	Zinc	30.8	mg/kg	None
21-11291	MD21-01-0534	14–15	Qbt 3	Silver	0.202	mg/kg	U
21-11291	MD21-01-0534	14–15	Qbt 3	Antimony	0.0826	mg/kg	U
21-11291	MD21-01-0534	14–15	Qbt 3	Thallium	0.103	mg/kg	None
21-11291	MD21-01-0534	14–15	Qbt 3	Beryllium	0.393	mg/kg	None
21-11291	MD21-01-0534	14–15	Qbt 3	Nickel	1.45	mg/kg	J
21-11291	MD21-01-0534	14–15	Qbt 3	Perchlorate	0.146	mg/kg	J
21-11291	MD21-01-0534	14–15	Qbt 3	Oxalate	0.909	mg/kg	U
21-11291	MD21-01-0534	14–15	Qbt 3	Strontium-90	0.0281	pCi/g	U
21-11291	MD21-01-0534	14–15	Qbt 3	Ruthenium-106	0.000372	pCi/g	U
21-11291	MD21-01-0534	14–15	Qbt 3	Uranium-235	-0.00819	pCi/g	U
21-11291	MD21-01-0534	14–15	Qbt 3	Americium-241	0.0248	pCi/g	U
21-11291	MD21-01-0534	14–15	Qbt 3	Sodium-22	-0.00888	pCi/g	U
21-11291	MD21-01-0534	14–15	Qbt 3	Cesium-137	-0.017	pCi/g	U
21-11291	MD21-01-0534	14–15	Qbt 3	Europium-152	-0.0179	pCi/g	U
21-11291	MD21-01-0534	14–15	Qbt 3	Arsenic	1.74	mg/kg	None
21-11291	MD21-01-0534	14–15	Qbt 3	Aluminum	2640	mg/kg	J+
21-11291	MD21-01-0534	14–15	Qbt 3	Cesium-134	0.0112	pCi/g	U
21-11291	MD21-01-0534	14–15	Qbt 3	Dinitro-2-methylphenol[4,6-]	1.03	mg/kg	U
21-11291	MD21-01-0534	14–15	Qbt 3	Dichlorobenzene[1,3-]	1.03	mg/kg	U
21-11291	MD21-01-0534	14–15	Qbt 3	Benz(a)anthracene	0.103	mg/kg	U
21-11291	MD21-01-0534	14–15	Qbt 3	Chloro-3-methylphenol[4-]	1.03	mg/kg	U
21-11291	MD21-01-0534	14–15	Qbt 3	Dinitrotoluene[2,6-]	1.03	mg/kg	U
21-11291	MD21-01-0534	14–15	Qbt 3	Aniline	1.03	mg/kg	U
21-11291	MD21-01-0534	14–15	Qbt 3	Nitrosodimethylamine[N-]	1.03	mg/kg	U
21-11291	MD21-01-0534	14–15	Qbt 3	Nitroso-di-n-propylamine[N-]	1.03	mg/kg	U
21-11291	MD21-01-0534	14–15	Qbt 3	Benzoic Acid	2.06	mg/kg	U
21-11291	MD21-01-0534	14–15	Qbt 3	Hexachloroethane	1.03	mg/kg	U
21-11291	MD21-01-0534	14–15	Qbt 3	Chlorophenyl-phenyl[4-] Ether	1.03	mg/kg	U
21-11291	MD21-01-0534	14–15	Qbt 3	Hexachlorocyclopentadiene	1.03	mg/kg	U
21-11291	MD21-01-0534	14–15	Qbt 3	Isophorone	1.03	mg/kg	U
21-11291	MD21-01-0534	14–15	Qbt 3	Acenaphthene	0.103	mg/kg	U
21-11291	MD21-01-0534	14–15	Qbt 3	Diethylphthalate	0.106	mg/kg	U
21-11291	MD21-01-0534	14–15	Qbt 3	Di-n-butylphthalate	1.03	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11291	MD21-01-0534	14–15	Qbt 3	Phenanthrene	0.103	mg/kg	U
21-11291	MD21-01-0534	14–15	Qbt 3	Butylbenzylphthalate	1.03	mg/kg	U
21-11291	MD21-01-0534	14–15	Qbt 3	Fluorene	0.103	mg/kg	U
21-11291	MD21-01-0534	14–15	Qbt 3	Hexachlorobutadiene	1.03	mg/kg	U
21-11291	MD21-01-0534	14–15	Qbt 3	Pentachlorophenol	1.03	mg/kg	U
21-11291	MD21-01-0534	14–15	Qbt 3	Trichlorophenol[2,4,6-]	1.03	mg/kg	U
21-11291	MD21-01-0534	14–15	Qbt 3	Nitroaniline[2-]	1.03	mg/kg	U
21-11291	MD21-01-0534	14–15	Qbt 3	Nitrophenol[2-]	1.03	mg/kg	U
21-11291	MD21-01-0534	14–15	Qbt 3	Naphthalene	0.103	mg/kg	U
21-11291	MD21-01-0534	14–15	Qbt 3	Methylnaphthalene[2-]	0.103	mg/kg	U
21-11291	MD21-01-0534	14–15	Qbt 3	Chloronaphthalene[2-]	0.103	mg/kg	U
21-11291	MD21-01-0534	14–15	Qbt 3	Dichlorobenzidine[3,3'-]	1.03	mg/kg	U
21-11291	MD21-01-0534	14–15	Qbt 3	Methylphenol[2-]	1.03	mg/kg	U
21-11291	MD21-01-0534	14–15	Qbt 3	Dichlorobenzene[1,2-]	1.03	mg/kg	U
21-11291	MD21-01-0534	14–15	Qbt 3	Chlorophenol[2-]	1.03	mg/kg	U
21-11291	MD21-01-0534	14–15	Qbt 3	Trichlorophenol[2,4,5-]	1.03	mg/kg	U
21-11291	MD21-01-0534	14–15	Qbt 3	Nitrobenzene	1.03	mg/kg	U
21-11291	MD21-01-0534	14–15	Qbt 3	Nitroaniline[3-]	1.03	mg/kg	U
21-11291	MD21-01-0534	14–15	Qbt 3	Nitroaniline[4-]	1.03	mg/kg	U
21-11291	MD21-01-0534	14–15	Qbt 3	Nitrophenol[4-]	1.03	mg/kg	U
21-11291	MD21-01-0534	14–15	Qbt 3	Benzyl Alcohol	1.03	mg/kg	U
21-11291	MD21-01-0534	14–15	Qbt 3	Bromophenyl-phenylether[4-]	1.03	mg/kg	U
21-11291	MD21-01-0534	14–15	Qbt 3	Azobenzene	0.103	mg/kg	U
21-11291	MD21-01-0534	14–15	Qbt 3	Dimethylphenol[2,4-]	1.03	mg/kg	U
21-11291	MD21-01-0534	14–15	Qbt 3	Methylphenol[4-]	1.03	mg/kg	U
21-11291	MD21-01-0534	14–15	Qbt 3	Dichlorobenzene[1,4-]	1.03	mg/kg	U
21-11291	MD21-01-0534	14–15	Qbt 3	Chloroaniline[4-]	1.03	mg/kg	U
21-11291	MD21-01-0534	14–15	Qbt 3	Oxybis(1-chloropropane)[2,2'-]	1.03	mg/kg	U
21-11291	MD21-01-0534	14–15	Qbt 3	Phenol	1.03	mg/kg	U
21-11291	MD21-01-0534	14–15	Qbt 3	Pyridine	1.03	mg/kg	U
21-11291	MD21-01-0534	14–15	Qbt 3	Bis(2-chloroethyl)ether	1.03	mg/kg	U
21-11291	MD21-01-0534	14–15	Qbt 3	Bis(2-chloroethoxy)methane	1.03	mg/kg	U
21-11291	MD21-01-0534	14–15	Qbt 3	Bis(2-ethylhexyl)phthalate	1.03	mg/kg	U
21-11291	MD21-01-0534	14–15	Qbt 3	Di-n-octylphthalate	1.03	mg/kg	U
21-11291	MD21-01-0534	14–15	Qbt 3	Hexachlorobenzene	1.03	mg/kg	U
21-11291	MD21-01-0534	14–15	Qbt 3	Anthracene	0.103	mg/kg	U
21-11291	MD21-01-0534	14–15	Qbt 3	Trichlorobenzene[1,2,4-]	1.03	mg/kg	U
21-11291	MD21-01-0534	14–15	Qbt 3	Dichlorophenol[2,4-]	1.03	mg/kg	U
21-11291	MD21-01-0534	14–15	Qbt 3	Dinitrotoluene[2,4-]	1.03	mg/kg	U
21-11291	MD21-01-0534	14–15	Qbt 3	Diphenylamine	1.03	mg/kg	U
21-11291	MD21-01-0534	14–15	Qbt 3	Pyrene	0.103	mg/kg	U
21-11291	MD21-01-0534	14–15	Qbt 3	Dimethyl Phthalate	1.03	mg/kg	U
21-11291	MD21-01-0534	14–15	Qbt 3	Dibenzofuran	1.03	mg/kg	U
21-11291	MD21-01-0534	14–15	Qbt 3	Benzo(g,h,i)perylene	0.103	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11291	MD21-01-0534	14–15	Qbt 3	Indeno(1,2,3-cd)pyrene	0.103	mg/kg	U
21-11291	MD21-01-0534	14–15	Qbt 3	Benzo(b)fluoranthene	0.103	mg/kg	U
21-11291	MD21-01-0534	14–15	Qbt 3	Fluoranthene	0.103	mg/kg	U
21-11291	MD21-01-0534	14–15	Qbt 3	Benzo(k)fluoranthene	0.103	mg/kg	U
21-11291	MD21-01-0534	14–15	Qbt 3	Acenaphthylene	0.103	mg/kg	U
21-11291	MD21-01-0534	14–15	Qbt 3	Chrysene	0.103	mg/kg	U
21-11291	MD21-01-0534	14–15	Qbt 3	Benzo(a)pyrene	0.103	mg/kg	U
21-11291	MD21-01-0534	14–15	Qbt 3	Dinitrophenol[2,4-]	2.06	mg/kg	U
21-11291	MD21-01-0534	14–15	Qbt 3	Dibenz(a,h)anthracene	0.103	mg/kg	U
21-11291	MD21-01-0534	14–15	Qbt 3	Aroclor-1260	0.0034	mg/kg	U
21-11291	MD21-01-0534	14–15	Qbt 3	Aroclor-1254	0.0034	mg/kg	U
21-11291	MD21-01-0534	14–15	Qbt 3	Aroclor-1221	0.0034	mg/kg	U
21-11291	MD21-01-0534	14–15	Qbt 3	Aroclor-1232	0.0034	mg/kg	U
21-11291	MD21-01-0534	14–15	Qbt 3	Aroclor-1248	0.0034	mg/kg	U
21-11291	MD21-01-0534	14–15	Qbt 3	Aroclor-1016	0.0034	mg/kg	U
21-11291	MD21-01-0534	14–15	Qbt 3	Aroclor-1242	0.0034	mg/kg	U
21-11291	MD21-01-0534	14–15	Qbt 3	Cobalt-60	-0.00612	pCi/g	U
21-11291	MD21-01-0535	14–15	Qbt 3	Beryllium	0.311	mg/kg	None
21-11291	MD21-01-0535	14–15	Qbt 3	Nickel	1.45	mg/kg	J
21-11291	MD21-01-0535	14–15	Qbt 3	Aluminum	1610	mg/kg	J+
21-11291	MD21-01-0535	14–15	Qbt 3	Arsenic	1.36	mg/kg	None
21-11291	MD21-01-0535	14–15	Qbt 3	Barium	13.3	mg/kg	None
21-11291	MD21-01-0535	14–15	Qbt 3	Calcium	519	mg/kg	J
21-11291	MD21-01-0535	14–15	Qbt 3	Cadmium	0.506	mg/kg	U
21-11291	MD21-01-0535	14–15	Qbt 3	Cobalt	0.278	mg/kg	J
21-11291	MD21-01-0535	14–15	Qbt 3	Chromium	1.49	mg/kg	None
21-11291	MD21-01-0535	14–15	Qbt 3	Copper	1.29	mg/kg	None
21-11291	MD21-01-0535	14–15	Qbt 3	Iron	2800	mg/kg	None
21-11291	MD21-01-0535	14–15	Qbt 3	Potassium	261	mg/kg	None
21-11291	MD21-01-0535	14–15	Qbt 3	Magnesium	330	mg/kg	None
21-11291	MD21-01-0535	14–15	Qbt 3	Manganese	186	mg/kg	None
21-11291	MD21-01-0535	14–15	Qbt 3	Sodium	165	mg/kg	None
21-11291	MD21-01-0535	14–15	Qbt 3	Lead	15.3	mg/kg	J
21-11291	MD21-01-0535	14–15	Qbt 3	Selenium	0.506	mg/kg	U
21-11291	MD21-01-0535	14–15	Qbt 3	Vanadium	2.08	mg/kg	None
21-11291	MD21-01-0535	14–15	Qbt 3	Zinc	25.2	mg/kg	None
21-11291	MD21-01-0535	14–15	Qbt 3	Mercury	0.00987	mg/kg	UJ
21-11291	MD21-01-0535	14–15	Qbt 3	Strontium-90	0.0595	pCi/g	U
21-11291	MD21-01-0535	14–15	Qbt 3	Europium-152	-0.0156	pCi/g	U
21-11291	MD21-01-0535	14–15	Qbt 3	Cesium-134	-0.00679	pCi/g	U
21-11291	MD21-01-0535	14–15	Qbt 3	Cobalt-60	-0.00595	pCi/g	U
21-11291	MD21-01-0535	14–15	Qbt 3	Ruthenium-106	-0.111	pCi/g	U
21-11291	MD21-01-0535	14–15	Qbt 3	Uranium-235	0.219	pCi/g	U
21-11291	MD21-01-0535	14–15	Qbt 3	Americium-241	-0.103	pCi/g	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11291	MD21-01-0535	14–15	Qbt 3	Sodium-22	-0.0156	pCi/g	U
21-11291	MD21-01-0535	14–15	Qbt 3	Cesium-137	0.00408	pCi/g	U
21-11291	MD21-01-0535	14–15	Qbt 3	Nitroaniline[4-]	1	mg/kg	U
21-11291	MD21-01-0535	14–15	Qbt 3	Nitrophenol[4-]	1	mg/kg	U
21-11291	MD21-01-0535	14–15	Qbt 3	Benzyl Alcohol	1	mg/kg	U
21-11291	MD21-01-0535	14–15	Qbt 3	Bromophenyl-phenylether[4-]	1	mg/kg	U
21-11291	MD21-01-0535	14–15	Qbt 3	Azobenzene	0.1	mg/kg	U
21-11291	MD21-01-0535	14–15	Qbt 3	Dimethylphenol[2,4-]	1	mg/kg	U
21-11291	MD21-01-0535	14–15	Qbt 3	Methylphenol[4-]	1	mg/kg	U
21-11291	MD21-01-0535	14–15	Qbt 3	Dichlorobenzene[1,4-]	1	mg/kg	U
21-11291	MD21-01-0535	14–15	Qbt 3	Chloroaniline[4-]	1	mg/kg	U
21-11291	MD21-01-0535	14–15	Qbt 3	Oxybis(1-chloropropane)[2,2'-]	1	mg/kg	U
21-11291	MD21-01-0535	14–15	Qbt 3	Phenol	1	mg/kg	U
21-11291	MD21-01-0535	14–15	Qbt 3	Pyridine	1	mg/kg	U
21-11291	MD21-01-0535	14–15	Qbt 3	Bis(2-chloroethyl)ether	1	mg/kg	U
21-11291	MD21-01-0535	14–15	Qbt 3	Bis(2-chloroethoxy)methane	1	mg/kg	U
21-11291	MD21-01-0535	14–15	Qbt 3	Bis(2-ethylhexyl)phthalate	1	mg/kg	U
21-11291	MD21-01-0535	14–15	Qbt 3	Di-n-octylphthalate	1	mg/kg	U
21-11291	MD21-01-0535	14–15	Qbt 3	Hexachlorobenzene	1	mg/kg	U
21-11291	MD21-01-0535	14–15	Qbt 3	Anthracene	0.1	mg/kg	U
21-11291	MD21-01-0535	14–15	Qbt 3	Trichlorobenzene[1,2,4-]	1	mg/kg	U
21-11291	MD21-01-0535	14–15	Qbt 3	Dichlorophenol[2,4-]	1	mg/kg	U
21-11291	MD21-01-0535	14–15	Qbt 3	Dinitrotoluene[2,4-]	1	mg/kg	U
21-11291	MD21-01-0535	14–15	Qbt 3	Diphenylamine	1	mg/kg	U
21-11291	MD21-01-0535	14–15	Qbt 3	Pyrene	0.1	mg/kg	U
21-11291	MD21-01-0535	14–15	Qbt 3	Dimethyl Phthalate	1	mg/kg	U
21-11291	MD21-01-0535	14–15	Qbt 3	Dibenzofuran	1	mg/kg	U
21-11291	MD21-01-0535	14–15	Qbt 3	Benzo(g,h,i)perylene	0.1	mg/kg	U
21-11291	MD21-01-0535	14–15	Qbt 3	Indeno(1,2,3-cd)pyrene	0.1	mg/kg	U
21-11291	MD21-01-0535	14–15	Qbt 3	Benzo(b)fluoranthene	0.1	mg/kg	U
21-11291	MD21-01-0535	14–15	Qbt 3	Fluoranthene	0.1	mg/kg	U
21-11291	MD21-01-0535	14–15	Qbt 3	Benzo(k)fluoranthene	0.1	mg/kg	U
21-11291	MD21-01-0535	14–15	Qbt 3	Acenaphthylene	0.1	mg/kg	U
21-11291	MD21-01-0535	14–15	Qbt 3	Chrysene	0.1	mg/kg	U
21-11291	MD21-01-0535	14–15	Qbt 3	Benzo(a)pyrene	0.1	mg/kg	U
21-11291	MD21-01-0535	14–15	Qbt 3	Methylphenol[2-]	1	mg/kg	U
21-11291	MD21-01-0535	14–15	Qbt 3	Dichlorobenzene[1,2-]	1	mg/kg	U
21-11291	MD21-01-0535	14–15	Qbt 3	Chlorophenol[2-]	1	mg/kg	U
21-11291	MD21-01-0535	14–15	Qbt 3	Trichlorophenol[2,4,5-]	1	mg/kg	U
21-11291	MD21-01-0535	14–15	Qbt 3	Nitrobenzene	1	mg/kg	U
21-11291	MD21-01-0535	14–15	Qbt 3	Nitroaniline[3-]	1	mg/kg	U
21-11291	MD21-01-0535	14–15	Qbt 3	Aroclor-1260	0.0033	mg/kg	U
21-11291	MD21-01-0535	14–15	Qbt 3	Aroclor-1254	0.0033	mg/kg	U
21-11291	MD21-01-0535	14–15	Qbt 3	Aroclor-1221	0.0033	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11291	MD21-01-0535	14–15	Qbt 3	Aroclor-1232	0.0033	mg/kg	U
21-11291	MD21-01-0535	14–15	Qbt 3	Aroclor-1248	0.0033	mg/kg	U
21-11291	MD21-01-0535	14–15	Qbt 3	Aroclor-1016	0.0033	mg/kg	U
21-11291	MD21-01-0535	14–15	Qbt 3	Aroclor-1242	0.0033	mg/kg	U
21-11291	MD21-01-0535	14–15	Qbt 3	Perchlorate	0.11	mg/kg	J
21-11291	MD21-01-0535	14–15	Qbt 3	Oxalate	0.904	mg/kg	U
21-11291	MD21-01-0535	14–15	Qbt 3	Silver	0.201	mg/kg	U
21-11291	MD21-01-0535	14–15	Qbt 3	Antimony	0.0441	mg/kg	U
21-11291	MD21-01-0535	14–15	Qbt 3	Thallium	0.106	mg/kg	None
21-11291	MD21-01-0535	14–15	Qbt 3	Dinitrophenol[2,4-]	2.01	mg/kg	U
21-11291	MD21-01-0535	14–15	Qbt 3	Dibenz(a,h)anthracene	0.1	mg/kg	U
21-11291	MD21-01-0535	14–15	Qbt 3	Dinitro-2-methylphenol[4,6-]	1	mg/kg	U
21-11291	MD21-01-0535	14–15	Qbt 3	Dichlorobenzene[1,3-]	1	mg/kg	U
21-11291	MD21-01-0535	14–15	Qbt 3	Benz(a)anthracene	0.1	mg/kg	U
21-11291	MD21-01-0535	14–15	Qbt 3	Chloro-3-methylphenol[4-]	1	mg/kg	U
21-11291	MD21-01-0535	14–15	Qbt 3	Dinitrotoluene[2,6-]	1	mg/kg	U
21-11291	MD21-01-0535	14–15	Qbt 3	Aniline	1	mg/kg	U
21-11291	MD21-01-0535	14–15	Qbt 3	Nitrosodimethylamine[N-]	1	mg/kg	U
21-11291	MD21-01-0535	14–15	Qbt 3	Nitroso-di-n-propylamine[N-]	1	mg/kg	U
21-11291	MD21-01-0535	14–15	Qbt 3	Benzoic Acid	2.01	mg/kg	U
21-11291	MD21-01-0535	14–15	Qbt 3	Hexachloroethane	1	mg/kg	U
21-11291	MD21-01-0535	14–15	Qbt 3	Chlorophenyl-phenyl[4-] Ether	1	mg/kg	U
21-11291	MD21-01-0535	14–15	Qbt 3	Hexachlorocyclopentadiene	1	mg/kg	U
21-11291	MD21-01-0535	14–15	Qbt 3	Isophorone	1	mg/kg	U
21-11291	MD21-01-0535	14–15	Qbt 3	Acenaphthene	0.1	mg/kg	U
21-11291	MD21-01-0535	14–15	Qbt 3	Diethylphthalate	0.106	mg/kg	U
21-11291	MD21-01-0535	14–15	Qbt 3	Di-n-butylphthalate	1	mg/kg	U
21-11291	MD21-01-0535	14–15	Qbt 3	Phenanthrene	0.1	mg/kg	U
21-11291	MD21-01-0535	14–15	Qbt 3	Butylbenzylphthalate	1	mg/kg	U
21-11291	MD21-01-0535	14–15	Qbt 3	Fluorene	0.1	mg/kg	U
21-11291	MD21-01-0535	14–15	Qbt 3	Hexachlorobutadiene	1	mg/kg	U
21-11291	MD21-01-0535	14–15	Qbt 3	Pentachlorophenol	1	mg/kg	U
21-11291	MD21-01-0535	14–15	Qbt 3	Trichlorophenol[2,4,6-]	1	mg/kg	U
21-11291	MD21-01-0535	14–15	Qbt 3	Nitroaniline[2-]	1	mg/kg	U
21-11291	MD21-01-0535	14–15	Qbt 3	Nitrophenol[2-]	1	mg/kg	U
21-11291	MD21-01-0535	14–15	Qbt 3	Naphthalene	0.1	mg/kg	U
21-11291	MD21-01-0535	14–15	Qbt 3	Methylnaphthalene[2-]	0.1	mg/kg	U
21-11291	MD21-01-0535	14–15	Qbt 3	Chloronaphthalene[2-]	0.1	mg/kg	U
21-11291	MD21-01-0535	14–15	Qbt 3	Dichlorobenzidine[3,3'-]	1	mg/kg	U
21-11291	MD21-01-0536	24–25	Qbt 3	Arsenic	1.22	mg/kg	None
21-11291	MD21-01-0536	24–25	Qbt 3	Barium	85.50001	mg/kg	None
21-11291	MD21-01-0536	24–25	Qbt 3	Calcium	1030	mg/kg	J
21-11291	MD21-01-0536	24–25	Qbt 3	Cadmium	0.507	mg/kg	U
21-11291	MD21-01-0536	24–25	Qbt 3	Cobalt	0.322	mg/kg	J

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11291	MD21-01-0536	24–25	Qbt 3	Chromium	2.22	mg/kg	None
21-11291	MD21-01-0536	24–25	Qbt 3	Copper	1.45	mg/kg	None
21-11291	MD21-01-0536	24–25	Qbt 3	Iron	3270	mg/kg	None
21-11291	MD21-01-0536	24–25	Qbt 3	Potassium	322	mg/kg	None
21-11291	MD21-01-0536	24–25	Qbt 3	Magnesium	482	mg/kg	None
21-11291	MD21-01-0536	24–25	Qbt 3	Manganese	183	mg/kg	None
21-11291	MD21-01-0536	24–25	Qbt 3	Sodium	160	mg/kg	None
21-11291	MD21-01-0536	24–25	Qbt 3	Lead	9.25	mg/kg	J
21-11291	MD21-01-0536	24–25	Qbt 3	Selenium	0.507	mg/kg	U
21-11291	MD21-01-0536	24–25	Qbt 3	Vanadium	2.68	mg/kg	None
21-11291	MD21-01-0536	24–25	Qbt 3	Zinc	32	mg/kg	None
21-11291	MD21-01-0536	24–25	Qbt 3	Mercury	0.00953	mg/kg	UJ
21-11291	MD21-01-0536	24–25	Qbt 3	Sodium-22	0.0403	pCi/g	U
21-11291	MD21-01-0536	24–25	Qbt 3	Strontium-90	0.0427	pCi/g	U
21-11291	MD21-01-0536	24–25	Qbt 3	Dinitro-2-methylphenol[4,6-]	1.02	mg/kg	U
21-11291	MD21-01-0536	24–25	Qbt 3	Dichlorobenzene[1,3-]	1.02	mg/kg	U
21-11291	MD21-01-0536	24–25	Qbt 3	Benz(a)anthracene	0.102	mg/kg	U
21-11291	MD21-01-0536	24–25	Qbt 3	Chloro-3-methylphenol[4-]	1.02	mg/kg	U
21-11291	MD21-01-0536	24–25	Qbt 3	Perchlorate	0.154	mg/kg	U
21-11291	MD21-01-0536	24–25	Qbt 3	Oxalate	0.923	mg/kg	U
21-11291	MD21-01-0536	24–25	Qbt 3	Silver	0.204	mg/kg	U
21-11291	MD21-01-0536	24–25	Qbt 3	Antimony	0.0286	mg/kg	U
21-11291	MD21-01-0536	24–25	Qbt 3	Thallium	0.106	mg/kg	None
21-11291	MD21-01-0536	24–25	Qbt 3	Beryllium	0.511	mg/kg	None
21-11291	MD21-01-0536	24–25	Qbt 3	Nickel	0.981	mg/kg	J
21-11291	MD21-01-0536	24–25	Qbt 3	Aluminum	2620	mg/kg	J+
21-11291	MD21-01-0536	24–25	Qbt 3	Dinitrotoluene[2,6-]	1.02	mg/kg	U
21-11291	MD21-01-0536	24–25	Qbt 3	Aniline	1.02	mg/kg	U
21-11291	MD21-01-0536	24–25	Qbt 3	Americium-241	-0.035	pCi/g	U
21-11291	MD21-01-0536	24–25	Qbt 3	Cesium-134	0.00488	pCi/g	U
21-11291	MD21-01-0536	24–25	Qbt 3	Nitrosodimethylamine[N-]	1.02	mg/kg	U
21-11291	MD21-01-0536	24–25	Qbt 3	Nitroso-di-n-propylamine[N-]	1.02	mg/kg	U
21-11291	MD21-01-0536	24–25	Qbt 3	Nitrophenol[2-]	1.02	mg/kg	U
21-11291	MD21-01-0536	24–25	Qbt 3	Naphthalene	0.102	mg/kg	U
21-11291	MD21-01-0536	24–25	Qbt 3	Benzoic Acid	2.05	mg/kg	U
21-11291	MD21-01-0536	24–25	Qbt 3	Hexachloroethane	1.02	mg/kg	U
21-11291	MD21-01-0536	24–25	Qbt 3	Chlorophenyl-phenyl[4-] Ether	1.02	mg/kg	U
21-11291	MD21-01-0536	24–25	Qbt 3	Hexachlorocyclopentadiene	1.02	mg/kg	U
21-11291	MD21-01-0536	24–25	Qbt 3	Isophorone	1.02	mg/kg	U
21-11291	MD21-01-0536	24–25	Qbt 3	Acenaphthene	0.102	mg/kg	U
21-11291	MD21-01-0536	24–25	Qbt 3	Diethylphthalate	0.106	mg/kg	U
21-11291	MD21-01-0536	24–25	Qbt 3	Di-n-butylphthalate	1.02	mg/kg	U
21-11291	MD21-01-0536	24–25	Qbt 3	Phenanthrene	0.102	mg/kg	U
21-11291	MD21-01-0536	24–25	Qbt 3	Aroclor-1260	0.0034	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11291	MD21-01-0536	24–25	Qbt 3	Aroclor-1254	0.0034	mg/kg	U
21-11291	MD21-01-0536	24–25	Qbt 3	Aroclor-1221	0.0034	mg/kg	U
21-11291	MD21-01-0536	24–25	Qbt 3	Butylbenzylphthalate	1.02	mg/kg	U
21-11291	MD21-01-0536	24–25	Qbt 3	Fluorene	0.102	mg/kg	U
21-11291	MD21-01-0536	24–25	Qbt 3	Hexachlorobutadiene	1.02	mg/kg	U
21-11291	MD21-01-0536	24–25	Qbt 3	Pentachlorophenol	1.02	mg/kg	U
21-11291	MD21-01-0536	24–25	Qbt 3	Methylnaphthalene[2-]	0.102	mg/kg	U
21-11291	MD21-01-0536	24–25	Qbt 3	Chloronaphthalene[2-]	0.102	mg/kg	U
21-11291	MD21-01-0536	24–25	Qbt 3	Dichlorobenzidine[3,3'-]	1.02	mg/kg	U
21-11291	MD21-01-0536	24–25	Qbt 3	Methylphenol[2-]	1.02	mg/kg	U
21-11291	MD21-01-0536	24–25	Qbt 3	Dichlorobenzene[1,2-]	1.02	mg/kg	U
21-11291	MD21-01-0536	24–25	Qbt 3	Chlorophenol[2-]	1.02	mg/kg	U
21-11291	MD21-01-0536	24–25	Qbt 3	Trichlorophenol[2,4,5-]	1.02	mg/kg	U
21-11291	MD21-01-0536	24–25	Qbt 3	Nitrobenzene	1.02	mg/kg	U
21-11291	MD21-01-0536	24–25	Qbt 3	Nitroaniline[3-]	1.02	mg/kg	U
21-11291	MD21-01-0536	24–25	Qbt 3	Aroclor-1248	0.0034	mg/kg	U
21-11291	MD21-01-0536	24–25	Qbt 3	Aroclor-1232	0.0034	mg/kg	U
21-11291	MD21-01-0536	24–25	Qbt 3	Aroclor-1016	0.0034	mg/kg	U
21-11291	MD21-01-0536	24–25	Qbt 3	Aroclor-1242	0.0034	mg/kg	U
21-11291	MD21-01-0536	24–25	Qbt 3	Trichlorophenol[2,4,6-]	1.02	mg/kg	U
21-11291	MD21-01-0536	24–25	Qbt 3	Nitroaniline[2-]	1.02	mg/kg	U
21-11291	MD21-01-0536	24–25	Qbt 3	Ruthenium-106	0.00342	pCi/g	U
21-11291	MD21-01-0536	24–25	Qbt 3	Cobalt-60	0.00194	pCi/g	U
21-11291	MD21-01-0536	24–25	Qbt 3	Cesium-137	0.0164	pCi/g	U
21-11291	MD21-01-0536	24–25	Qbt 3	Europium-152	-0.0225	pCi/g	U
21-11291	MD21-01-0536	24–25	Qbt 3	Uranium-235	0.0193	pCi/g	U
21-11291	MD21-01-0536	24–25	Qbt 3	Nitrophenol[4-]	1.02	mg/kg	U
21-11291	MD21-01-0536	24–25	Qbt 3	Nitroaniline[4-]	1.02	mg/kg	U
21-11291	MD21-01-0536	24–25	Qbt 3	Benzyl Alcohol	1.02	mg/kg	U
21-11291	MD21-01-0536	24–25	Qbt 3	Bromophenyl-phenylether[4-]	1.02	mg/kg	U
21-11291	MD21-01-0536	24–25	Qbt 3	Azobenzene	0.102	mg/kg	U
21-11291	MD21-01-0536	24–25	Qbt 3	Dimethylphenol[2,4-]	1.02	mg/kg	U
21-11291	MD21-01-0536	24–25	Qbt 3	Methylphenol[4-]	1.02	mg/kg	U
21-11291	MD21-01-0536	24–25	Qbt 3	Chloroaniline[4-]	1.02	mg/kg	U
21-11291	MD21-01-0536	24–25	Qbt 3	Oxybis(1-chloropropane)[2,2'-]	1.02	mg/kg	U
21-11291	MD21-01-0536	24–25	Qbt 3	Phenol	1.02	mg/kg	U
21-11291	MD21-01-0536	24–25	Qbt 3	Pyridine	1.02	mg/kg	U
21-11291	MD21-01-0536	24–25	Qbt 3	Bis(2-chloroethyl)ether	1.02	mg/kg	U
21-11291	MD21-01-0536	24–25	Qbt 3	Bis(2-chloroethoxy)methane	1.02	mg/kg	U
21-11291	MD21-01-0536	24–25	Qbt 3	Bis(2-ethylhexyl)phthalate	1.02	mg/kg	U
21-11291	MD21-01-0536	24–25	Qbt 3	Di-n-octylphthalate	1.02	mg/kg	U
21-11291	MD21-01-0536	24–25	Qbt 3	Hexachlorobenzene	1.02	mg/kg	U
21-11291	MD21-01-0536	24–25	Qbt 3	Anthracene	0.102	mg/kg	U
21-11291	MD21-01-0536	24–25	Qbt 3	Trichlorobenzene[1,2,4-]	1.02	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11291	MD21-01-0536	24–25	Qbt 3	Dichlorophenol[2,4-]	1.02	mg/kg	U
21-11291	MD21-01-0536	24–25	Qbt 3	Dinitrotoluene[2,4-]	1.02	mg/kg	U
21-11291	MD21-01-0536	24–25	Qbt 3	Diphenylamine	1.02	mg/kg	U
21-11291	MD21-01-0536	24–25	Qbt 3	Pyrene	0.102	mg/kg	U
21-11291	MD21-01-0536	24–25	Qbt 3	Dimethyl Phthalate	1.02	mg/kg	U
21-11291	MD21-01-0536	24–25	Qbt 3	Dibenzofuran	1.02	mg/kg	U
21-11291	MD21-01-0536	24–25	Qbt 3	Benzo(g,h,i)perylene	0.102	mg/kg	U
21-11291	MD21-01-0536	24–25	Qbt 3	Indeno(1,2,3-cd)pyrene	0.102	mg/kg	U
21-11291	MD21-01-0536	24–25	Qbt 3	Dichlorobenzene[1,4-]	1.02	mg/kg	U
21-11291	MD21-01-0536	24–25	Qbt 3	Benzo(b)fluoranthene	0.102	mg/kg	U
21-11291	MD21-01-0536	24–25	Qbt 3	Fluoranthene	0.102	mg/kg	U
21-11291	MD21-01-0536	24–25	Qbt 3	Benzo(k)fluoranthene	0.102	mg/kg	U
21-11291	MD21-01-0536	24–25	Qbt 3	Acenaphthylene	0.102	mg/kg	U
21-11291	MD21-01-0536	24–25	Qbt 3	Chrysene	0.102	mg/kg	U
21-11291	MD21-01-0536	24–25	Qbt 3	Benzo(a)pyrene	0.102	mg/kg	U
21-11291	MD21-01-0536	24–25	Qbt 3	Dinitrophenol[2,4-]	2.05	mg/kg	U
21-11291	MD21-01-0536	24–25	Qbt 3	Dibenz(a,h)anthracene	0.102	mg/kg	U
21-11291	MD21-02-49503	2.5–2.75	Qbt 3	Tritium	0.012614	pCi/g	None
21-11291	MD21-02-49503	2.5–2.75	Qbt 3	Plutonium-238	0.00251	pCi/g	U
21-11291	MD21-02-49503	2.5–2.75	Qbt 3	Plutonium-239	0	pCi/g	U
21-11291	MD21-02-49504	3.75–4.25	Qbt 3	Tritium	0.024563	pCi/g	None
21-11291	MD21-02-49504	3.75–4.25	Qbt 3	Plutonium-238	-0.00141	pCi/g	U
21-11291	MD21-02-49504	3.75–4.25	Qbt 3	Plutonium-239	0.00562	pCi/g	U
21-11292	MD21-01-0537	4–5	Qbt 3	Perchlorate	0.123	mg/kg	J
21-11292	MD21-01-0537	4–5	Qbt 3	Oxalate	0.908	mg/kg	U
21-11292	MD21-01-0537	4–5	Qbt 3	Silver	0.198	mg/kg	U
21-11292	MD21-01-0537	4–5	Qbt 3	Antimony	0.0355	mg/kg	U
21-11292	MD21-01-0537	4–5	Qbt 3	Thallium	0.103	mg/kg	None
21-11292	MD21-01-0537	4–5	Qbt 3	Beryllium	0.346	mg/kg	None
21-11292	MD21-01-0537	4–5	Qbt 3	Nickel	2.25	mg/kg	None
21-11292	MD21-01-0537	4–5	Qbt 3	Aluminum	2300	mg/kg	J+
21-11292	MD21-01-0537	4–5	Qbt 3	Arsenic	1.93	mg/kg	None
21-11292	MD21-01-0537	4–5	Qbt 3	Barium	25.2	mg/kg	None
21-11292	MD21-01-0537	4–5	Qbt 3	Calcium	1100	mg/kg	J
21-11292	MD21-01-0537	4–5	Qbt 3	Cadmium	0.484	mg/kg	U
21-11292	MD21-01-0537	4–5	Qbt 3	Cobalt	0.505	mg/kg	None
21-11292	MD21-01-0537	4–5	Qbt 3	Chromium	1.93	mg/kg	None
21-11292	MD21-01-0537	4–5	Qbt 3	Strontium-90	0.0859	pCi/g	U
21-11292	MD21-01-0537	4–5	Qbt 3	Americium-241	-0.041	pCi/g	U
21-11292	MD21-01-0537	4–5	Qbt 3	Cobalt-60	-9.1E-06	pCi/g	U
21-11292	MD21-01-0537	4–5	Qbt 3	Cesium-137	-0.0278	pCi/g	U
21-11292	MD21-01-0537	4–5	Qbt 3	Sodium-22	0.00192	pCi/g	U
21-11292	MD21-01-0537	4–5	Qbt 3	Lead	3.27	mg/kg	J
21-11292	MD21-01-0537	4–5	Qbt 3	Selenium	0.484	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11292	MD21-01-0537	4–5	Qbt 3	Europium-152	0.00224	pCi/g	U
21-11292	MD21-01-0537	4–5	Qbt 3	Nitroaniline[4-]	1.02	mg/kg	U
21-11292	MD21-01-0537	4–5	Qbt 3	Nitrophenol[4-]	1.02	mg/kg	U
21-11292	MD21-01-0537	4–5	Qbt 3	Benzyl Alcohol	1.02	mg/kg	U
21-11292	MD21-01-0537	4–5	Qbt 3	Bromophenyl-phenylether[4-]	1.02	mg/kg	U
21-11292	MD21-01-0537	4–5	Qbt 3	Azobenzene	0.102	mg/kg	U
21-11292	MD21-01-0537	4–5	Qbt 3	Dimethylphenol[2,4-]	1.02	mg/kg	U
21-11292	MD21-01-0537	4–5	Qbt 3	Methylphenol[4-]	1.02	mg/kg	U
21-11292	MD21-01-0537	4–5	Qbt 3	Dichlorobenzene[1,4-]	1.02	mg/kg	U
21-11292	MD21-01-0537	4–5	Qbt 3	Chloroaniline[4-]	1.02	mg/kg	U
21-11292	MD21-01-0537	4–5	Qbt 3	Oxybis(1-chloropropane)[2,2'-]	1.02	mg/kg	U
21-11292	MD21-01-0537	4–5	Qbt 3	Phenol	1.02	mg/kg	U
21-11292	MD21-01-0537	4–5	Qbt 3	Pyridine	1.02	mg/kg	U
21-11292	MD21-01-0537	4–5	Qbt 3	Bis(2-chloroethyl)ether	1.02	mg/kg	U
21-11292	MD21-01-0537	4–5	Qbt 3	Bis(2-chloroethoxy)methane	1.02	mg/kg	U
21-11292	MD21-01-0537	4–5	Qbt 3	Bis(2-ethylhexyl)phthalate	1.02	mg/kg	U
21-11292	MD21-01-0537	4–5	Qbt 3	Di-n-octylphthalate	1.02	mg/kg	U
21-11292	MD21-01-0537	4–5	Qbt 3	Hexachlorobenzene	1.02	mg/kg	U
21-11292	MD21-01-0537	4–5	Qbt 3	Anthracene	0.102	mg/kg	U
21-11292	MD21-01-0537	4–5	Qbt 3	Trichlorobenzene[1,2,4-]	1.02	mg/kg	U
21-11292	MD21-01-0537	4–5	Qbt 3	Dichlorophenol[2,4-]	1.02	mg/kg	U
21-11292	MD21-01-0537	4–5	Qbt 3	Dinitrotoluene[2,4-]	1.02	mg/kg	U
21-11292	MD21-01-0537	4–5	Qbt 3	Diphenylamine	1.02	mg/kg	U
21-11292	MD21-01-0537	4–5	Qbt 3	Pyrene	0.102	mg/kg	U
21-11292	MD21-01-0537	4–5	Qbt 3	Dimethyl Phthalate	1.02	mg/kg	U
21-11292	MD21-01-0537	4–5	Qbt 3	Dibenzofuran	1.02	mg/kg	U
21-11292	MD21-01-0537	4–5	Qbt 3	Benzo(g,h,i)perylene	0.102	mg/kg	U
21-11292	MD21-01-0537	4–5	Qbt 3	Indeno(1,2,3-cd)pyrene	0.102	mg/kg	U
21-11292	MD21-01-0537	4–5	Qbt 3	Benzo(b)fluoranthene	0.102	mg/kg	U
21-11292	MD21-01-0537	4–5	Qbt 3	Fluoranthene	0.102	mg/kg	U
21-11292	MD21-01-0537	4–5	Qbt 3	Benzo(k)fluoranthene	0.102	mg/kg	U
21-11292	MD21-01-0537	4–5	Qbt 3	Acenaphthylene	0.102	mg/kg	U
21-11292	MD21-01-0537	4–5	Qbt 3	Chrysene	0.102	mg/kg	U
21-11292	MD21-01-0537	4–5	Qbt 3	Benzo(a)pyrene	0.102	mg/kg	U
21-11292	MD21-01-0537	4–5	Qbt 3	Dinitrophenol[2,4-]	2.04	mg/kg	U
21-11292	MD21-01-0537	4–5	Qbt 3	Dibenz(a,h)anthracene	0.102	mg/kg	U
21-11292	MD21-01-0537	4–5	Qbt 3	Dinitro-2-methylphenol[4,6-]	1.02	mg/kg	U
21-11292	MD21-01-0537	4–5	Qbt 3	Dichlorobenzene[1,3-]	1.02	mg/kg	U
21-11292	MD21-01-0537	4–5	Qbt 3	Benz(a)anthracene	0.102	mg/kg	U
21-11292	MD21-01-0537	4–5	Qbt 3	Chloro-3-methylphenol[4-]	1.02	mg/kg	U
21-11292	MD21-01-0537	4–5	Qbt 3	Dinitrotoluene[2,6-]	1.02	mg/kg	U
21-11292	MD21-01-0537	4–5	Qbt 3	Aniline	1.02	mg/kg	U
21-11292	MD21-01-0537	4–5	Qbt 3	Nitrosodimethylamine[N-]	1.02	mg/kg	U
21-11292	MD21-01-0537	4–5	Qbt 3	Nitroso-di-n-propylamine[N-]	1.02	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11292	MD21-01-0537	4–5	Qbt 3	Benzoic Acid	2.04	mg/kg	U
21-11292	MD21-01-0537	4–5	Qbt 3	Hexachloroethane	1.02	mg/kg	U
21-11292	MD21-01-0537	4–5	Qbt 3	Chlorophenyl-phenyl[4-] Ether	1.02	mg/kg	U
21-11292	MD21-01-0537	4–5	Qbt 3	Hexachlorocyclopentadiene	1.02	mg/kg	U
21-11292	MD21-01-0537	4–5	Qbt 3	Isophorone	1.02	mg/kg	U
21-11292	MD21-01-0537	4–5	Qbt 3	Acenaphthene	0.102	mg/kg	U
21-11292	MD21-01-0537	4–5	Qbt 3	Diethylphthalate	0.105	mg/kg	U
21-11292	MD21-01-0537	4–5	Qbt 3	Di-n-butylphthalate	1.02	mg/kg	U
21-11292	MD21-01-0537	4–5	Qbt 3	Phenanthrene	0.102	mg/kg	U
21-11292	MD21-01-0537	4–5	Qbt 3	Butylbenzylphthalate	1.02	mg/kg	U
21-11292	MD21-01-0537	4–5	Qbt 3	Fluorene	0.102	mg/kg	U
21-11292	MD21-01-0537	4–5	Qbt 3	Hexachlorobutadiene	1.02	mg/kg	U
21-11292	MD21-01-0537	4–5	Qbt 3	Pentachlorophenol	1.02	mg/kg	U
21-11292	MD21-01-0537	4–5	Qbt 3	Trichlorophenol[2,4,6-]	1.02	mg/kg	U
21-11292	MD21-01-0537	4–5	Qbt 3	Nitroaniline[2-]	1.02	mg/kg	U
21-11292	MD21-01-0537	4–5	Qbt 3	Nitrophenol[2-]	1.02	mg/kg	U
21-11292	MD21-01-0537	4–5	Qbt 3	Naphthalene	0.102	mg/kg	U
21-11292	MD21-01-0537	4–5	Qbt 3	Methylnaphthalene[2-]	0.102	mg/kg	U
21-11292	MD21-01-0537	4–5	Qbt 3	Chloronaphthalene[2-]	0.102	mg/kg	U
21-11292	MD21-01-0537	4–5	Qbt 3	Dichlorobenzidine[3,3'-]	1.02	mg/kg	U
21-11292	MD21-01-0537	4–5	Qbt 3	Methylphenol[2-]	1.02	mg/kg	U
21-11292	MD21-01-0537	4–5	Qbt 3	Dichlorobenzene[1,2-]	1.02	mg/kg	U
21-11292	MD21-01-0537	4–5	Qbt 3	Chlorophenol[2-]	1.02	mg/kg	U
21-11292	MD21-01-0537	4–5	Qbt 3	Trichlorophenol[2,4,5-]	1.02	mg/kg	U
21-11292	MD21-01-0537	4–5	Qbt 3	Nitrobenzene	1.02	mg/kg	U
21-11292	MD21-01-0537	4–5	Qbt 3	Nitroaniline[3-]	1.02	mg/kg	U
21-11292	MD21-01-0537	4–5	Qbt 3	Aroclor-1260	0.0034	mg/kg	U
21-11292	MD21-01-0537	4–5	Qbt 3	Aroclor-1254	0.0034	mg/kg	U
21-11292	MD21-01-0537	4–5	Qbt 3	Aroclor-1221	0.0034	mg/kg	U
21-11292	MD21-01-0537	4–5	Qbt 3	Aroclor-1232	0.0034	mg/kg	U
21-11292	MD21-01-0537	4–5	Qbt 3	Aroclor-1248	0.0034	mg/kg	U
21-11292	MD21-01-0537	4–5	Qbt 3	Aroclor-1016	0.0034	mg/kg	U
21-11292	MD21-01-0537	4–5	Qbt 3	Aroclor-1242	0.0034	mg/kg	U
21-11292	MD21-01-0537	4–5	Qbt 3	Vanadium	3.15	mg/kg	None
21-11292	MD21-01-0537	4–5	Qbt 3	Zinc	28.4	mg/kg	None
21-11292	MD21-01-0537	4–5	Qbt 3	Mercury	0.00664	mg/kg	J+
21-11292	MD21-01-0537	4–5	Qbt 3	Copper	1.37	mg/kg	None
21-11292	MD21-01-0537	4–5	Qbt 3	Iron	3340	mg/kg	None
21-11292	MD21-01-0537	4–5	Qbt 3	Potassium	245	mg/kg	None
21-11292	MD21-01-0537	4–5	Qbt 3	Magnesium	417	mg/kg	None
21-11292	MD21-01-0537	4–5	Qbt 3	Manganese	148	mg/kg	None
21-11292	MD21-01-0537	4–5	Qbt 3	Sodium	75	mg/kg	None
21-11292	MD21-01-0537	4–5	Qbt 3	Ruthenium-106	-0.00653	pCi/g	U
21-11292	MD21-01-0537	4–5	Qbt 3	Cesium-134	0.0156	pCi/g	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11292	MD21-01-0537	4–5	Qbt 3	Uranium-235	0.257	pCi/g	U
21-11292	MD21-01-0538	9–10	Qbt 3	Perchlorate	0.108	mg/kg	J
21-11292	MD21-01-0538	9–10	Qbt 3	Oxalate	0.901	mg/kg	U
21-11292	MD21-01-0538	9–10	Qbt 3	Silver	0.198	mg/kg	U
21-11292	MD21-01-0538	9–10	Qbt 3	Beryllium	0.105	mg/kg	None
21-11292	MD21-01-0538	9–10	Qbt 3	Nickel	0.948	mg/kg	None
21-11292	MD21-01-0538	9–10	Qbt 3	Antimony	0.0833	mg/kg	U
21-11292	MD21-01-0538	9–10	Qbt 3	Thallium	0.0159	mg/kg	J
21-11292	MD21-01-0538	9–10	Qbt 3	Aluminum	239	mg/kg	J+
21-11292	MD21-01-0538	9–10	Qbt 3	Arsenic	1.78	mg/kg	None
21-11292	MD21-01-0538	9–10	Qbt 3	Barium	7.49	mg/kg	None
21-11292	MD21-01-0538	9–10	Qbt 3	Calcium	578	mg/kg	J
21-11292	MD21-01-0538	9–10	Qbt 3	Cadmium	0.5	mg/kg	U
21-11292	MD21-01-0538	9–10	Qbt 3	Cobalt	0.136	mg/kg	J
21-11292	MD21-01-0538	9–10	Qbt 3	Chromium	2.92	mg/kg	None
21-11292	MD21-01-0538	9–10	Qbt 3	Copper	1.28	mg/kg	None
21-11292	MD21-01-0538	9–10	Qbt 3	Iron	2160	mg/kg	None
21-11292	MD21-01-0538	9–10	Qbt 3	Potassium	98.2	mg/kg	None
21-11292	MD21-01-0538	9–10	Qbt 3	Magnesium	130	mg/kg	None
21-11292	MD21-01-0538	9–10	Qbt 3	Manganese	169	mg/kg	None
21-11292	MD21-01-0538	9–10	Qbt 3	Sodium	82.2	mg/kg	None
21-11292	MD21-01-0538	9–10	Qbt 3	Lead	0.813	mg/kg	J
21-11292	MD21-01-0538	9–10	Qbt 3	Selenium	0.5	mg/kg	U
21-11292	MD21-01-0538	9–10	Qbt 3	Vanadium	0.815	mg/kg	None
21-11292	MD21-01-0538	9–10	Qbt 3	Zinc	31.5	mg/kg	None
21-11292	MD21-01-0538	9–10	Qbt 3	Mercury	0.00984	mg/kg	UJ
21-11292	MD21-01-0538	9–10	Qbt 3	Strontium-90	-0.0594	pCi/g	U
21-11292	MD21-01-0538	9–10	Qbt 3	Uranium-235	0.163	pCi/g	U
21-11292	MD21-01-0538	9–10	Qbt 3	Cobalt-60	-0.00026	pCi/g	U
21-11292	MD21-01-0538	9–10	Qbt 3	Ruthenium-106	0.0318	pCi/g	U
21-11292	MD21-01-0538	9–10	Qbt 3	Cesium-134	-0.00063	pCi/g	U
21-11292	MD21-01-0538	9–10	Qbt 3	Cesium-137	-0.0136	pCi/g	U
21-11292	MD21-01-0538	9–10	Qbt 3	Sodium-22	-0.0063	pCi/g	U
21-11292	MD21-01-0538	9–10	Qbt 3	Americium-241	-0.0624	pCi/g	U
21-11292	MD21-01-0538	9–10	Qbt 3	Europium-152	-0.0273	pCi/g	U
21-11292	MD21-01-0538	9–10	Qbt 3	Nitroaniline[4-]	1	mg/kg	U
21-11292	MD21-01-0538	9–10	Qbt 3	Nitrophenol[4-]	1	mg/kg	U
21-11292	MD21-01-0538	9–10	Qbt 3	Benzyl Alcohol	1	mg/kg	U
21-11292	MD21-01-0538	9–10	Qbt 3	Bromophenyl-phenylether[4-]	1	mg/kg	U
21-11292	MD21-01-0538	9–10	Qbt 3	Azobenzene	0.1	mg/kg	U
21-11292	MD21-01-0538	9–10	Qbt 3	Dimethylphenol[2,4-]	1	mg/kg	U
21-11292	MD21-01-0538	9–10	Qbt 3	Methylphenol[4-]	1	mg/kg	U
21-11292	MD21-01-0538	9–10	Qbt 3	Dichlorobenzene[1,4-]	1	mg/kg	U
21-11292	MD21-01-0538	9–10	Qbt 3	Chloroaniline[4-]	1	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11292	MD21-01-0538	9–10	Qbt 3	Oxybis(1-chloropropane)[2,2'-]	1	mg/kg	U
21-11292	MD21-01-0538	9–10	Qbt 3	Phenol	1	mg/kg	U
21-11292	MD21-01-0538	9–10	Qbt 3	Pyridine	1	mg/kg	U
21-11292	MD21-01-0538	9–10	Qbt 3	Bis(2-chloroethyl)ether	1	mg/kg	U
21-11292	MD21-01-0538	9–10	Qbt 3	Bis(2-chloroethoxy)methane	1	mg/kg	U
21-11292	MD21-01-0538	9–10	Qbt 3	Bis(2-ethylhexyl)phthalate	1	mg/kg	U
21-11292	MD21-01-0538	9–10	Qbt 3	Di-n-octylphthalate	1	mg/kg	U
21-11292	MD21-01-0538	9–10	Qbt 3	Hexachlorobenzene	1	mg/kg	U
21-11292	MD21-01-0538	9–10	Qbt 3	Indeno(1,2,3-cd)pyrene	0.1	mg/kg	U
21-11292	MD21-01-0538	9–10	Qbt 3	Benzo(b)fluoranthene	0.1	mg/kg	U
21-11292	MD21-01-0538	9–10	Qbt 3	Fluoranthene	0.1	mg/kg	U
21-11292	MD21-01-0538	9–10	Qbt 3	Benzo(k)fluoranthene	0.1	mg/kg	U
21-11292	MD21-01-0538	9–10	Qbt 3	Acenaphthylene	0.1	mg/kg	U
21-11292	MD21-01-0538	9–10	Qbt 3	Chrysene	0.1	mg/kg	U
21-11292	MD21-01-0538	9–10	Qbt 3	Benzo(a)pyrene	0.1	mg/kg	U
21-11292	MD21-01-0538	9–10	Qbt 3	Dinitrophenol[2,4-]	2.01	mg/kg	U
21-11292	MD21-01-0538	9–10	Qbt 3	Dibenz(a,h)anthracene	0.1	mg/kg	U
21-11292	MD21-01-0538	9–10	Qbt 3	Dinitro-2-methylphenol[4,6-]	1	mg/kg	U
21-11292	MD21-01-0538	9–10	Qbt 3	Dichlorobenzene[1,3-]	1	mg/kg	U
21-11292	MD21-01-0538	9–10	Qbt 3	Benz(a)anthracene	0.1	mg/kg	U
21-11292	MD21-01-0538	9–10	Qbt 3	Chloro-3-methylphenol[4-]	1	mg/kg	U
21-11292	MD21-01-0538	9–10	Qbt 3	Dinitrotoluene[2,6-]	1	mg/kg	U
21-11292	MD21-01-0538	9–10	Qbt 3	Aniline	1	mg/kg	U
21-11292	MD21-01-0538	9–10	Qbt 3	Nitrosodimethylamine[N-]	1	mg/kg	U
21-11292	MD21-01-0538	9–10	Qbt 3	Nitroso-di-n-propylamine[N-]	1	mg/kg	U
21-11292	MD21-01-0538	9–10	Qbt 3	Benzoic Acid	2.01	mg/kg	U
21-11292	MD21-01-0538	9–10	Qbt 3	Hexachloroethane	1	mg/kg	U
21-11292	MD21-01-0538	9–10	Qbt 3	Chlorophenyl-phenyl[4-] Ether	1	mg/kg	U
21-11292	MD21-01-0538	9–10	Qbt 3	Hexachlorocyclopentadiene	1	mg/kg	U
21-11292	MD21-01-0538	9–10	Qbt 3	Isophorone	1	mg/kg	U
21-11292	MD21-01-0538	9–10	Qbt 3	Acenaphthene	0.1	mg/kg	U
21-11292	MD21-01-0538	9–10	Qbt 3	Diethylphthalate	0.103	mg/kg	U
21-11292	MD21-01-0538	9–10	Qbt 3	Di-n-butylphthalate	1	mg/kg	U
21-11292	MD21-01-0538	9–10	Qbt 3	Phenanthrene	0.1	mg/kg	U
21-11292	MD21-01-0538	9–10	Qbt 3	Butylbenzylphthalate	1	mg/kg	U
21-11292	MD21-01-0538	9–10	Qbt 3	Fluorene	0.1	mg/kg	U
21-11292	MD21-01-0538	9–10	Qbt 3	Hexachlorobutadiene	1	mg/kg	U
21-11292	MD21-01-0538	9–10	Qbt 3	Naphthalene	0.1	mg/kg	U
21-11292	MD21-01-0538	9–10	Qbt 3	Methylnaphthalene[2-]	0.1	mg/kg	U
21-11292	MD21-01-0538	9–10	Qbt 3	Pentachlorophenol	1	mg/kg	U
21-11292	MD21-01-0538	9–10	Qbt 3	Trichlorophenol[2,4,6-]	1	mg/kg	U
21-11292	MD21-01-0538	9–10	Qbt 3	Nitroaniline[2-]	1	mg/kg	U
21-11292	MD21-01-0538	9–10	Qbt 3	Nitrophenol[2-]	1	mg/kg	U
21-11292	MD21-01-0538	9–10	Qbt 3	Trichlorobenzene[1,2,4-]	1	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11292	MD21-01-0538	9–10	Qbt 3	Anthracene	0.1	mg/kg	U
21-11292	MD21-01-0538	9–10	Qbt 3	Chloronaphthalene[2-]	0.1	mg/kg	U
21-11292	MD21-01-0538	9–10	Qbt 3	Dichlorobenzidine[3,3'-]	1	mg/kg	U
21-11292	MD21-01-0538	9–10	Qbt 3	Methylphenol[2-]	1	mg/kg	U
21-11292	MD21-01-0538	9–10	Qbt 3	Dichlorobenzene[1,2-]	1	mg/kg	U
21-11292	MD21-01-0538	9–10	Qbt 3	Chlorophenol[2-]	1	mg/kg	U
21-11292	MD21-01-0538	9–10	Qbt 3	Trichlorophenol[2,4,5-]	1	mg/kg	U
21-11292	MD21-01-0538	9–10	Qbt 3	Nitrobenzene	1	mg/kg	U
21-11292	MD21-01-0538	9–10	Qbt 3	Nitroaniline[3-]	1	mg/kg	U
21-11292	MD21-01-0538	9–10	Qbt 3	Aroclor-1260	0.0033	mg/kg	U
21-11292	MD21-01-0538	9–10	Qbt 3	Aroclor-1254	0.0033	mg/kg	U
21-11292	MD21-01-0538	9–10	Qbt 3	Aroclor-1221	0.0033	mg/kg	U
21-11292	MD21-01-0538	9–10	Qbt 3	Aroclor-1232	0.0033	mg/kg	U
21-11292	MD21-01-0538	9–10	Qbt 3	Aroclor-1248	0.0033	mg/kg	U
21-11292	MD21-01-0538	9–10	Qbt 3	Aroclor-1016	0.0033	mg/kg	U
21-11292	MD21-01-0538	9–10	Qbt 3	Aroclor-1242	0.0074	mg/kg	None
21-11292	MD21-01-0538	9–10	Qbt 3	Dichlorophenol[2,4-]	1	mg/kg	U
21-11292	MD21-01-0538	9–10	Qbt 3	Dinitrotoluene[2,4-]	1	mg/kg	U
21-11292	MD21-01-0538	9–10	Qbt 3	Diphenylamine	1	mg/kg	U
21-11292	MD21-01-0538	9–10	Qbt 3	Pyrene	0.1	mg/kg	U
21-11292	MD21-01-0538	9–10	Qbt 3	Dimethyl Phthalate	1	mg/kg	U
21-11292	MD21-01-0538	9–10	Qbt 3	Dibenzofuran	1	mg/kg	U
21-11292	MD21-01-0538	9–10	Qbt 3	Benzo(g,h,i)perylene	0.1	mg/kg	U
21-11292	MD21-01-0539	14–15	Qbt 3	Perchlorate	0.151	mg/kg	U
21-11292	MD21-01-0539	14–15	Qbt 3	Oxalate	0.905	mg/kg	U
21-11292	MD21-01-0539	14–15	Qbt 3	Mercury	0.009	mg/kg	UJ
21-11292	MD21-01-0539	14–15	Qbt 3	Silver	0.202	mg/kg	U
21-11292	MD21-01-0539	14–15	Qbt 3	Beryllium	0.201	mg/kg	None
21-11292	MD21-01-0539	14–15	Qbt 3	Nickel	1.25	mg/kg	None
21-11292	MD21-01-0539	14–15	Qbt 3	Antimony	0.0363	mg/kg	U
21-11292	MD21-01-0539	14–15	Qbt 3	Thallium	0.0242	mg/kg	J
21-11292	MD21-01-0539	14–15	Qbt 3	Aluminum	1450	mg/kg	J+
21-11292	MD21-01-0539	14–15	Qbt 3	Arsenic	1.41	mg/kg	None
21-11292	MD21-01-0539	14–15	Qbt 3	Barium	13.2	mg/kg	None
21-11292	MD21-01-0539	14–15	Qbt 3	Calcium	656.0001	mg/kg	J
21-11292	MD21-01-0539	14–15	Qbt 3	Cadmium	0.497	mg/kg	U
21-11292	MD21-01-0539	14–15	Qbt 3	Cobalt	0.257	mg/kg	J
21-11292	MD21-01-0539	14–15	Qbt 3	Chromium	2.89	mg/kg	None
21-11292	MD21-01-0539	14–15	Qbt 3	Copper	1.33	mg/kg	None
21-11292	MD21-01-0539	14–15	Qbt 3	Iron	2790	mg/kg	None
21-11292	MD21-01-0539	14–15	Qbt 3	Potassium	232	mg/kg	None
21-11292	MD21-01-0539	14–15	Qbt 3	Magnesium	279	mg/kg	None
21-11292	MD21-01-0539	14–15	Qbt 3	Manganese	177	mg/kg	None
21-11292	MD21-01-0539	14–15	Qbt 3	Sodium	132	mg/kg	None

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11292	MD21-01-0539	14–15	Qbt 3	Lead	2.13	mg/kg	J
21-11292	MD21-01-0539	14–15	Qbt 3	Vanadium	1.82	mg/kg	None
21-11292	MD21-01-0539	14–15	Qbt 3	Zinc	24.2	mg/kg	None
21-11292	MD21-01-0539	14–15	Qbt 3	Selenium	0.497	mg/kg	U
21-11292	MD21-01-0539	14–15	Qbt 3	Strontium-90	-0.0101	pCi/g	U
21-11292	MD21-01-0539	14–15	Qbt 3	Uranium-235	0.158	pCi/g	U
21-11292	MD21-01-0539	14–15	Qbt 3	Cobalt-60	0.0129	pCi/g	U
21-11292	MD21-01-0539	14–15	Qbt 3	Europium-152	-0.00944	pCi/g	U
21-11292	MD21-01-0539	14–15	Qbt 3	Americium-241	-0.00205	pCi/g	U
21-11292	MD21-01-0539	14–15	Qbt 3	Sodium-22	0.00292	pCi/g	U
21-11292	MD21-01-0539	14–15	Qbt 3	Cesium-134	-0.0266	pCi/g	U
21-11292	MD21-01-0539	14–15	Qbt 3	Cesium-137	0.034	pCi/g	U
21-11292	MD21-01-0539	14–15	Qbt 3	Ruthenium-106	-0.111	pCi/g	U
21-11292	MD21-01-0539	14–15	Qbt 3	Nitroaniline[4-]	1.01	mg/kg	U
21-11292	MD21-01-0539	14–15	Qbt 3	Nitrophenol[4-]	1.01	mg/kg	U
21-11292	MD21-01-0539	14–15	Qbt 3	Benzyl Alcohol	1.01	mg/kg	U
21-11292	MD21-01-0539	14–15	Qbt 3	Bromophenyl-phenylether[4-]	1.01	mg/kg	U
21-11292	MD21-01-0539	14–15	Qbt 3	Azobenzene	0.101	mg/kg	U
21-11292	MD21-01-0539	14–15	Qbt 3	Dimethylphenol[2,4-]	1.01	mg/kg	U
21-11292	MD21-01-0539	14–15	Qbt 3	Methylphenol[4-]	1.01	mg/kg	U
21-11292	MD21-01-0539	14–15	Qbt 3	Dichlorobenzene[1,4-]	0.0933	mg/kg	J
21-11292	MD21-01-0539	14–15	Qbt 3	Chloroaniline[4-]	1.01	mg/kg	U
21-11292	MD21-01-0539	14–15	Qbt 3	Oxybis(1-chloropropane)[2,2'-]	1.01	mg/kg	U
21-11292	MD21-01-0539	14–15	Qbt 3	Phenol	1.01	mg/kg	U
21-11292	MD21-01-0539	14–15	Qbt 3	Pyridine	1.01	mg/kg	U
21-11292	MD21-01-0539	14–15	Qbt 3	Bis(2-chloroethyl)ether	1.01	mg/kg	U
21-11292	MD21-01-0539	14–15	Qbt 3	Bis(2-chloroethoxy)methane	1.01	mg/kg	U
21-11292	MD21-01-0539	14–15	Qbt 3	Bis(2-ethylhexyl)phthalate	1.01	mg/kg	U
21-11292	MD21-01-0539	14–15	Qbt 3	Di-n-octylphthalate	1.01	mg/kg	U
21-11292	MD21-01-0539	14–15	Qbt 3	Hexachlorobenzene	1.01	mg/kg	U
21-11292	MD21-01-0539	14–15	Qbt 3	Anthracene	0.101	mg/kg	U
21-11292	MD21-01-0539	14–15	Qbt 3	Trichlorobenzene[1,2,4-]	1.01	mg/kg	U
21-11292	MD21-01-0539	14–15	Qbt 3	Dichlorophenol[2,4-]	1.01	mg/kg	U
21-11292	MD21-01-0539	14–15	Qbt 3	Dinitrotoluene[2,4-]	1.01	mg/kg	U
21-11292	MD21-01-0539	14–15	Qbt 3	Diphenylamine	1.01	mg/kg	U
21-11292	MD21-01-0539	14–15	Qbt 3	Pyrene	0.101	mg/kg	U
21-11292	MD21-01-0539	14–15	Qbt 3	Dimethyl Phthalate	1.01	mg/kg	U
21-11292	MD21-01-0539	14–15	Qbt 3	Dibenzofuran	1.01	mg/kg	U
21-11292	MD21-01-0539	14–15	Qbt 3	Benzo(g,h,i)perylene	0.101	mg/kg	U
21-11292	MD21-01-0539	14–15	Qbt 3	Indeno(1,2,3-cd)pyrene	0.101	mg/kg	U
21-11292	MD21-01-0539	14–15	Qbt 3	Benzo(b)fluoranthene	0.101	mg/kg	U
21-11292	MD21-01-0539	14–15	Qbt 3	Fluoranthene	0.101	mg/kg	U
21-11292	MD21-01-0539	14–15	Qbt 3	Benzo(k)fluoranthene	0.101	mg/kg	U
21-11292	MD21-01-0539	14–15	Qbt 3	Acenaphthylene	0.101	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11292	MD21-01-0539	14–15	Qbt 3	Chrysene	0.101	mg/kg	U
21-11292	MD21-01-0539	14–15	Qbt 3	Benzo(a)pyrene	0.101	mg/kg	U
21-11292	MD21-01-0539	14–15	Qbt 3	Dinitrophenol[2,4-]	2.02	mg/kg	U
21-11292	MD21-01-0539	14–15	Qbt 3	Dibenz(a,h)anthracene	0.101	mg/kg	U
21-11292	MD21-01-0539	14–15	Qbt 3	Dinitro-2-methylphenol[4,6-]	1.01	mg/kg	U
21-11292	MD21-01-0539	14–15	Qbt 3	Dichlorobenzene[1,3-]	1.01	mg/kg	U
21-11292	MD21-01-0539	14–15	Qbt 3	Benz(a)anthracene	0.101	mg/kg	U
21-11292	MD21-01-0539	14–15	Qbt 3	Chloro-3-methylphenol[4-]	1.01	mg/kg	U
21-11292	MD21-01-0539	14–15	Qbt 3	Dinitrotoluene[2,6-]	1.01	mg/kg	U
21-11292	MD21-01-0539	14–15	Qbt 3	Aniline	1.01	mg/kg	U
21-11292	MD21-01-0539	14–15	Qbt 3	Nitrosodimethylamine[N-]	1.01	mg/kg	U
21-11292	MD21-01-0539	14–15	Qbt 3	Nitroso-di-n-propylamine[N-]	1.01	mg/kg	U
21-11292	MD21-01-0539	14–15	Qbt 3	Benzoic Acid	2.02	mg/kg	U
21-11292	MD21-01-0539	14–15	Qbt 3	Hexachloroethane	1.01	mg/kg	U
21-11292	MD21-01-0539	14–15	Qbt 3	Chlorophenyl-phenyl[4-] Ether	1.01	mg/kg	U
21-11292	MD21-01-0539	14–15	Qbt 3	Hexachlorocyclopentadiene	1.01	mg/kg	U
21-11292	MD21-01-0539	14–15	Qbt 3	Isophorone	1.01	mg/kg	U
21-11292	MD21-01-0539	14–15	Qbt 3	Acenaphthene	0.101	mg/kg	U
21-11292	MD21-01-0539	14–15	Qbt 3	Diethylphthalate	0.11	mg/kg	U
21-11292	MD21-01-0539	14–15	Qbt 3	Di-n-butylphthalate	1.01	mg/kg	U
21-11292	MD21-01-0539	14–15	Qbt 3	Phenanthrene	0.101	mg/kg	U
21-11292	MD21-01-0539	14–15	Qbt 3	Butylbenzylphthalate	1.01	mg/kg	U
21-11292	MD21-01-0539	14–15	Qbt 3	Fluorene	0.101	mg/kg	U
21-11292	MD21-01-0539	14–15	Qbt 3	Hexachlorobutadiene	1.01	mg/kg	U
21-11292	MD21-01-0539	14–15	Qbt 3	Pentachlorophenol	1.01	mg/kg	U
21-11292	MD21-01-0539	14–15	Qbt 3	Trichlorophenol[2,4,6-]	1.01	mg/kg	U
21-11292	MD21-01-0539	14–15	Qbt 3	Nitroaniline[2-]	1.01	mg/kg	U
21-11292	MD21-01-0539	14–15	Qbt 3	Nitrophenol[2-]	1.01	mg/kg	U
21-11292	MD21-01-0539	14–15	Qbt 3	Naphthalene	0.101	mg/kg	U
21-11292	MD21-01-0539	14–15	Qbt 3	Methylnaphthalene[2-]	0.101	mg/kg	U
21-11292	MD21-01-0539	14–15	Qbt 3	Chloronaphthalene[2-]	0.101	mg/kg	U
21-11292	MD21-01-0539	14–15	Qbt 3	Dichlorobenzidine[3,3'-]	1.01	mg/kg	U
21-11292	MD21-01-0539	14–15	Qbt 3	Methylphenol[2-]	1.01	mg/kg	U
21-11292	MD21-01-0539	14–15	Qbt 3	Dichlorobenzene[1,2-]	1.01	mg/kg	U
21-11292	MD21-01-0539	14–15	Qbt 3	Chlorophenol[2-]	1.01	mg/kg	U
21-11292	MD21-01-0539	14–15	Qbt 3	Trichlorophenol[2,4,5-]	1.01	mg/kg	U
21-11292	MD21-01-0539	14–15	Qbt 3	Nitrobenzene	1.01	mg/kg	U
21-11292	MD21-01-0539	14–15	Qbt 3	Nitroaniline[3-]	1.01	mg/kg	U
21-11292	MD21-01-0539	14–15	Qbt 3	Aroclor-1260	0.0034	mg/kg	U
21-11292	MD21-01-0539	14–15	Qbt 3	Aroclor-1254	0.0034	mg/kg	U
21-11292	MD21-01-0539	14–15	Qbt 3	Aroclor-1221	0.0034	mg/kg	U
21-11292	MD21-01-0539	14–15	Qbt 3	Aroclor-1232	0.0034	mg/kg	U
21-11292	MD21-01-0539	14–15	Qbt 3	Aroclor-1248	0.0034	mg/kg	U
21-11292	MD21-01-0539	14–15	Qbt 3	Aroclor-1016	0.0034	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11292	MD21-01-0539	14–15	Qbt 3	Aroclor-1242	0.0034	mg/kg	U
21-11292	MD21-01-0540	24–25	Qbt 3	Perchlorate	0.117	mg/kg	J
21-11292	MD21-01-0540	24–25	Qbt 3	Oxalate	0.895	mg/kg	U
21-11292	MD21-01-0540	24–25	Qbt 3	Beryllium	0.169	mg/kg	None
21-11292	MD21-01-0540	24–25	Qbt 3	Silver	0.201	mg/kg	U
21-11292	MD21-01-0540	24–25	Qbt 3	Lead	1.83	mg/kg	J
21-11292	MD21-01-0540	24–25	Qbt 3	Selenium	0.492	mg/kg	U
21-11292	MD21-01-0540	24–25	Qbt 3	Vanadium	0.8	mg/kg	None
21-11292	MD21-01-0540	24–25	Qbt 3	Zinc	29.7	mg/kg	None
21-11292	MD21-01-0540	24–25	Qbt 3	Mercury	0.00832	mg/kg	UJ
21-11292	MD21-01-0540	24–25	Qbt 3	Strontium-90	0.0253	pCi/g	U
21-11292	MD21-01-0540	24–25	Qbt 3	Ruthenium-106	-0.00508	pCi/g	U
21-11292	MD21-01-0540	24–25	Qbt 3	Europium-152	0.0139	pCi/g	U
21-11292	MD21-01-0540	24–25	Qbt 3	Sodium-22	0.0221	pCi/g	U
21-11292	MD21-01-0540	24–25	Qbt 3	Cobalt-60	0.0305	pCi/g	U
21-11292	MD21-01-0540	24–25	Qbt 3	Uranium-235	0.0834	pCi/g	U
21-11292	MD21-01-0540	24–25	Qbt 3	Cesium-134	-0.00831	pCi/g	U
21-11292	MD21-01-0540	24–25	Qbt 3	Americium-241	0.0106	pCi/g	U
21-11292	MD21-01-0540	24–25	Qbt 3	Cesium-137	0.00884	pCi/g	U
21-11292	MD21-01-0540	24–25	Qbt 3	Nitroaniline[4-]	1	mg/kg	U
21-11292	MD21-01-0540	24–25	Qbt 3	Nitrophenol[4-]	1	mg/kg	U
21-11292	MD21-01-0540	24–25	Qbt 3	Benzyl Alcohol	1	mg/kg	U
21-11292	MD21-01-0540	24–25	Qbt 3	Bromophenyl-phenylether[4-]	1	mg/kg	U
21-11292	MD21-01-0540	24–25	Qbt 3	Azobenzene	0.1	mg/kg	U
21-11292	MD21-01-0540	24–25	Qbt 3	Dimethylphenol[2,4-]	1	mg/kg	U
21-11292	MD21-01-0540	24–25	Qbt 3	Methylphenol[4-]	1	mg/kg	U
21-11292	MD21-01-0540	24–25	Qbt 3	Dichlorobenzene[1,4-]	1	mg/kg	U
21-11292	MD21-01-0540	24–25	Qbt 3	Chloroaniline[4-]	1	mg/kg	U
21-11292	MD21-01-0540	24–25	Qbt 3	Oxybis(1-chloropropane)[2,2'-]	1	mg/kg	U
21-11292	MD21-01-0540	24–25	Qbt 3	Phenol	1	mg/kg	U
21-11292	MD21-01-0540	24–25	Qbt 3	Pyridine	1	mg/kg	U
21-11292	MD21-01-0540	24–25	Qbt 3	Bis(2-chloroethyl)ether	1	mg/kg	U
21-11292	MD21-01-0540	24–25	Qbt 3	Bis(2-chloroethoxy)methane	1	mg/kg	U
21-11292	MD21-01-0540	24–25	Qbt 3	Bis(2-ethylhexyl)phthalate	1	mg/kg	U
21-11292	MD21-01-0540	24–25	Qbt 3	Di-n-octylphthalate	1	mg/kg	U
21-11292	MD21-01-0540	24–25	Qbt 3	Hexachlorobenzene	1	mg/kg	U
21-11292	MD21-01-0540	24–25	Qbt 3	Anthracene	0.1	mg/kg	U
21-11292	MD21-01-0540	24–25	Qbt 3	Trichlorobenzene[1,2,4-]	1	mg/kg	U
21-11292	MD21-01-0540	24–25	Qbt 3	Dichlorophenol[2,4-]	1	mg/kg	U
21-11292	MD21-01-0540	24–25	Qbt 3	Dinitrotoluene[2,4-]	1	mg/kg	U
21-11292	MD21-01-0540	24–25	Qbt 3	Diphenylamine	1	mg/kg	U
21-11292	MD21-01-0540	24–25	Qbt 3	Pyrene	0.1	mg/kg	U
21-11292	MD21-01-0540	24–25	Qbt 3	Dimethyl Phthalate	1	mg/kg	U
21-11292	MD21-01-0540	24–25	Qbt 3	Dibenzofuran	1	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11292	MD21-01-0540	24–25	Qbt 3	Benzo(g,h,i)perylene	0.1	mg/kg	U
21-11292	MD21-01-0540	24–25	Qbt 3	Indeno(1,2,3-cd)pyrene	0.1	mg/kg	U
21-11292	MD21-01-0540	24–25	Qbt 3	Benzo(b)fluoranthene	0.1	mg/kg	U
21-11292	MD21-01-0540	24–25	Qbt 3	Fluoranthene	0.1	mg/kg	U
21-11292	MD21-01-0540	24–25	Qbt 3	Benzo(k)fluoranthene	0.1	mg/kg	U
21-11292	MD21-01-0540	24–25	Qbt 3	Acenaphthylene	0.1	mg/kg	U
21-11292	MD21-01-0540	24–25	Qbt 3	Chrysene	0.1	mg/kg	U
21-11292	MD21-01-0540	24–25	Qbt 3	Benzo(a)pyrene	0.1	mg/kg	U
21-11292	MD21-01-0540	24–25	Qbt 3	Dinitrophenol[2,4-]	2.01	mg/kg	U
21-11292	MD21-01-0540	24–25	Qbt 3	Dibenz(a,h)anthracene	0.1	mg/kg	U
21-11292	MD21-01-0540	24–25	Qbt 3	Dinitro-2-methylphenol[4,6-]	1	mg/kg	U
21-11292	MD21-01-0540	24–25	Qbt 3	Dichlorobenzene[1,3-]	1	mg/kg	U
21-11292	MD21-01-0540	24–25	Qbt 3	Benz(a)anthracene	0.1	mg/kg	U
21-11292	MD21-01-0540	24–25	Qbt 3	Chloro-3-methylphenol[4-]	1	mg/kg	U
21-11292	MD21-01-0540	24–25	Qbt 3	Dinitrotoluene[2,6-]	1	mg/kg	U
21-11292	MD21-01-0540	24–25	Qbt 3	Aniline	1	mg/kg	U
21-11292	MD21-01-0540	24–25	Qbt 3	Nitrosodimethylamine[N-]	1	mg/kg	U
21-11292	MD21-01-0540	24–25	Qbt 3	Nitroso-di-n-propylamine[N-]	1	mg/kg	U
21-11292	MD21-01-0540	24–25	Qbt 3	Benzoic Acid	2.01	mg/kg	U
21-11292	MD21-01-0540	24–25	Qbt 3	Hexachloroethane	1	mg/kg	U
21-11292	MD21-01-0540	24–25	Qbt 3	Chlorophenyl-phenyl[4-] Ether	1	mg/kg	U
21-11292	MD21-01-0540	24–25	Qbt 3	Hexachlorocyclopentadiene	1	mg/kg	U
21-11292	MD21-01-0540	24–25	Qbt 3	Isophorone	1	mg/kg	U
21-11292	MD21-01-0540	24–25	Qbt 3	Acenaphthene	0.1	mg/kg	U
21-11292	MD21-01-0540	24–25	Qbt 3	Diethylphthalate	0.103	mg/kg	U
21-11292	MD21-01-0540	24–25	Qbt 3	Di-n-butylphthalate	1	mg/kg	U
21-11292	MD21-01-0540	24–25	Qbt 3	Phenanthrene	0.1	mg/kg	U
21-11292	MD21-01-0540	24–25	Qbt 3	Butylbenzylphthalate	1	mg/kg	U
21-11292	MD21-01-0540	24–25	Qbt 3	Fluorene	0.1	mg/kg	U
21-11292	MD21-01-0540	24–25	Qbt 3	Hexachlorobutadiene	1	mg/kg	U
21-11292	MD21-01-0540	24–25	Qbt 3	Pentachlorophenol	1	mg/kg	U
21-11292	MD21-01-0540	24–25	Qbt 3	Trichlorophenol[2,4,6-]	1	mg/kg	U
21-11292	MD21-01-0540	24–25	Qbt 3	Nitroaniline[2-]	1	mg/kg	U
21-11292	MD21-01-0540	24–25	Qbt 3	Nitrophenol[2-]	1	mg/kg	U
21-11292	MD21-01-0540	24–25	Qbt 3	Naphthalene	0.1	mg/kg	U
21-11292	MD21-01-0540	24–25	Qbt 3	Methylnaphthalene[2-]	0.1	mg/kg	U
21-11292	MD21-01-0540	24–25	Qbt 3	Chloronaphthalene[2-]	0.1	mg/kg	U
21-11292	MD21-01-0540	24–25	Qbt 3	Dichlorobenzidine[3,3'-]	1	mg/kg	U
21-11292	MD21-01-0540	24–25	Qbt 3	Methylphenol[2-]	1	mg/kg	U
21-11292	MD21-01-0540	24–25	Qbt 3	Dichlorobenzene[1,2-]	1	mg/kg	U
21-11292	MD21-01-0540	24–25	Qbt 3	Chlorophenol[2-]	1	mg/kg	U
21-11292	MD21-01-0540	24–25	Qbt 3	Trichlorophenol[2,4,5-]	1	mg/kg	U
21-11292	MD21-01-0540	24–25	Qbt 3	Nitrobenzene	1	mg/kg	U
21-11292	MD21-01-0540	24–25	Qbt 3	Nitroaniline[3-]	1	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11292	MD21-01-0540	24–25	Qbt 3	Aroclor-1260	0.0034	mg/kg	U
21-11292	MD21-01-0540	24–25	Qbt 3	Aroclor-1254	0.0034	mg/kg	U
21-11292	MD21-01-0540	24–25	Qbt 3	Aroclor-1221	0.0034	mg/kg	U
21-11292	MD21-01-0540	24–25	Qbt 3	Aroclor-1232	0.0034	mg/kg	U
21-11292	MD21-01-0540	24–25	Qbt 3	Aroclor-1248	0.0034	mg/kg	U
21-11292	MD21-01-0540	24–25	Qbt 3	Aroclor-1016	0.0034	mg/kg	U
21-11292	MD21-01-0540	24–25	Qbt 3	Nickel	0.53	mg/kg	None
21-11292	MD21-01-0540	24–25	Qbt 3	Antimony	0.0221	mg/kg	U
21-11292	MD21-01-0540	24–25	Qbt 3	Thallium	0.00602	mg/kg	J
21-11292	MD21-01-0540	24–25	Qbt 3	Aluminum	456	mg/kg	J+
21-11292	MD21-01-0540	24–25	Qbt 3	Arsenic	1.37	mg/kg	None
21-11292	MD21-01-0540	24–25	Qbt 3	Barium	6.72	mg/kg	None
21-11292	MD21-01-0540	24–25	Qbt 3	Calcium	1010	mg/kg	J
21-11292	MD21-01-0540	24–25	Qbt 3	Cadmium	0.492	mg/kg	U
21-11292	MD21-01-0540	24–25	Qbt 3	Cobalt	0.138	mg/kg	J
21-11292	MD21-01-0540	24–25	Qbt 3	Chromium	1.7	mg/kg	None
21-11292	MD21-01-0540	24–25	Qbt 3	Copper	1.15	mg/kg	None
21-11292	MD21-01-0540	24–25	Qbt 3	Iron	2510	mg/kg	None
21-11292	MD21-01-0540	24–25	Qbt 3	Potassium	203	mg/kg	None
21-11292	MD21-01-0540	24–25	Qbt 3	Magnesium	174	mg/kg	None
21-11292	MD21-01-0540	24–25	Qbt 3	Manganese	201	mg/kg	None
21-11292	MD21-01-0540	24–25	Qbt 3	Sodium	157	mg/kg	None
21-11292	MD21-01-0540	24–25	Qbt 3	Aroclor-1242	0.0034	mg/kg	U
21-11293	MD21-01-0541	0–0.5	Fill	Nitroaniline[4-]	1.05	mg/kg	U
21-11293	MD21-01-0541	0–0.5	Fill	Nitrophenol[4-]	1.05	mg/kg	U
21-11293	MD21-01-0541	0–0.5	Fill	Benzyl Alcohol	1.05	mg/kg	U
21-11293	MD21-01-0541	0–0.5	Fill	Bromophenyl-phenylether[4-]	1.05	mg/kg	U
21-11293	MD21-01-0541	0–0.5	Fill	Azobenzene	0.105	mg/kg	U
21-11293	MD21-01-0541	0–0.5	Fill	Dimethylphenol[2,4-]	1.05	mg/kg	U
21-11293	MD21-01-0541	0–0.5	Fill	Methylphenol[4-]	1.05	mg/kg	U
21-11293	MD21-01-0541	0–0.5	Fill	Dichlorobenzene[1,4-]	1.05	mg/kg	U
21-11293	MD21-01-0541	0–0.5	Fill	Chloroaniline[4-]	1.05	mg/kg	U
21-11293	MD21-01-0541	0–0.5	Fill	Oxybis(1-chloropropane)[2,2'-]	1.05	mg/kg	U
21-11293	MD21-01-0541	0–0.5	Fill	Phenol	1.05	mg/kg	U
21-11293	MD21-01-0541	0–0.5	Fill	Pyridine	1.05	mg/kg	U
21-11293	MD21-01-0541	0–0.5	Fill	Bis(2-chloroethyl)ether	1.05	mg/kg	U
21-11293	MD21-01-0541	0–0.5	Fill	Bis(2-chloroethoxy)methane	1.05	mg/kg	U
21-11293	MD21-01-0541	0–0.5	Fill	Bis(2-ethylhexyl)phthalate	1.05	mg/kg	U
21-11293	MD21-01-0541	0–0.5	Fill	Di-n-octylphthalate	1.05	mg/kg	U
21-11293	MD21-01-0541	0–0.5	Fill	Hexachlorobenzene	1.05	mg/kg	U
21-11293	MD21-01-0541	0–0.5	Fill	Anthracene	0.105	mg/kg	U
21-11293	MD21-01-0541	0–0.5	Fill	Trichlorobenzene[1,2,4-]	1.05	mg/kg	U
21-11293	MD21-01-0541	0–0.5	Fill	Dichlorophenol[2,4-]	1.05	mg/kg	U
21-11293	MD21-01-0541	0–0.5	Fill	Dinitrotoluene[2,4-]	1.05	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11293	MD21-01-0541	0–0.5	Fill	Diphenylamine	1.05	mg/kg	U
21-11293	MD21-01-0541	0–0.5	Fill	Pyrene	0.105	mg/kg	U
21-11293	MD21-01-0541	0–0.5	Fill	Dimethyl Phthalate	1.05	mg/kg	U
21-11293	MD21-01-0541	0–0.5	Fill	Dibenzofuran	1.05	mg/kg	U
21-11293	MD21-01-0541	0–0.5	Fill	Benzo(g,h,i)perylene	0.105	mg/kg	U
21-11293	MD21-01-0541	0–0.5	Fill	Indeno(1,2,3-cd)pyrene	0.105	mg/kg	U
21-11293	MD21-01-0541	0–0.5	Fill	Benzo(b)fluoranthene	0.105	mg/kg	U
21-11293	MD21-01-0541	0–0.5	Fill	Fluoranthene	0.0947	mg/kg	J
21-11293	MD21-01-0541	0–0.5	Fill	Benzo(k)fluoranthene	0.105	mg/kg	U
21-11293	MD21-01-0541	0–0.5	Fill	Acenaphthylene	0.105	mg/kg	U
21-11293	MD21-01-0541	0–0.5	Fill	Chrysene	0.105	mg/kg	U
21-11293	MD21-01-0541	0–0.5	Fill	Benzo(a)pyrene	0.105	mg/kg	U
21-11293	MD21-01-0541	0–0.5	Fill	Dinitrophenol[2,4-]	2.1	mg/kg	U
21-11293	MD21-01-0541	0–0.5	Fill	Dibenz(a,h)anthracene	0.105	mg/kg	U
21-11293	MD21-01-0541	0–0.5	Fill	Dinitro-2-methylphenol[4,6-]	1.05	mg/kg	U
21-11293	MD21-01-0541	0–0.5	Fill	Dichlorobenzene[1,3-]	1.05	mg/kg	U
21-11293	MD21-01-0541	0–0.5	Fill	Perchlorate	0.155	mg/kg	U
21-11293	MD21-01-0541	0–0.5	Fill	Oxalate	0.931	mg/kg	None
21-11293	MD21-01-0541	0–0.5	Fill	Silver	0.0122	mg/kg	J
21-11293	MD21-01-0541	0–0.5	Fill	Antimony	0.114	mg/kg	U
21-11293	MD21-01-0541	0–0.5	Fill	Thallium	0.143	mg/kg	None
21-11293	MD21-01-0541	0–0.5	Fill	Beryllium	0.785	mg/kg	None
21-11293	MD21-01-0541	0–0.5	Fill	Nickel	6.690001	mg/kg	None
21-11293	MD21-01-0541	0–0.5	Fill	Aluminum	10760	mg/kg	J+
21-11293	MD21-01-0541	0–0.5	Fill	Arsenic	3.02	mg/kg	None
21-11293	MD21-01-0541	0–0.5	Fill	Barium	130	mg/kg	None
21-11293	MD21-01-0541	0–0.5	Fill	Calcium	2640	mg/kg	J
21-11293	MD21-01-0541	0–0.5	Fill	Cadmium	0.0721	mg/kg	J
21-11293	MD21-01-0541	0–0.5	Fill	Cobalt	4.34	mg/kg	None
21-11293	MD21-01-0541	0–0.5	Fill	Chromium	7.95	mg/kg	None
21-11293	MD21-01-0541	0–0.5	Fill	Copper	6.27	mg/kg	None
21-11293	MD21-01-0541	0–0.5	Fill	Iron	11020	mg/kg	None
21-11293	MD21-01-0541	0–0.5	Fill	Magnesium	2010	mg/kg	None
21-11293	MD21-01-0541	0–0.5	Fill	Manganese	261	mg/kg	None
21-11293	MD21-01-0541	0–0.5	Fill	Sodium	113	mg/kg	None
21-11293	MD21-01-0541	0–0.5	Fill	Lead	35	mg/kg	J
21-11293	MD21-01-0541	0–0.5	Fill	Selenium	0.476	mg/kg	U
21-11293	MD21-01-0541	0–0.5	Fill	Vanadium	17.9	mg/kg	None
21-11293	MD21-01-0541	0–0.5	Fill	Zinc	26.1	mg/kg	None
21-11293	MD21-01-0541	0–0.5	Fill	Potassium	1420	mg/kg	None
21-11293	MD21-01-0541	0–0.5	Fill	Mercury	0.0247	mg/kg	J+
21-11293	MD21-01-0541	0–0.5	Fill	Strontium-90	0.011	pCi/g	U
21-11293	MD21-01-0541	0–0.5	Fill	Ruthenium-106	0.108	pCi/g	U
21-11293	MD21-01-0541	0–0.5	Fill	Cobalt-60	0.0112	pCi/g	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11293	MD21-01-0541	0–0.5	Fill	Europium-152	-0.0188	pCi/g	U
21-11293	MD21-01-0541	0–0.5	Fill	Uranium-235	0.0186	pCi/g	U
21-11293	MD21-01-0541	0–0.5	Fill	Cesium-137	0.039	pCi/g	U
21-11293	MD21-01-0541	0–0.5	Fill	Sodium-22	-0.0177	pCi/g	U
21-11293	MD21-01-0541	0–0.5	Fill	Americium-241	-0.0793	pCi/g	U
21-11293	MD21-01-0541	0–0.5	Fill	Cesium-134	0.024	pCi/g	U
21-11293	MD21-01-0541	0–0.5	Fill	Benz(a)anthracene	0.105	mg/kg	U
21-11293	MD21-01-0541	0–0.5	Fill	Chloro-3-methylphenol[4-]	1.05	mg/kg	U
21-11293	MD21-01-0541	0–0.5	Fill	Dinitrotoluene[2,6-]	1.05	mg/kg	U
21-11293	MD21-01-0541	0–0.5	Fill	Aniline	1.05	mg/kg	U
21-11293	MD21-01-0541	0–0.5	Fill	Nitrosodimethylamine[N-]	1.05	mg/kg	U
21-11293	MD21-01-0541	0–0.5	Fill	Nitroso-di-n-propylamine[N-]	1.05	mg/kg	U
21-11293	MD21-01-0541	0–0.5	Fill	Benzoic Acid	2.1	mg/kg	U
21-11293	MD21-01-0541	0–0.5	Fill	Hexachloroethane	1.05	mg/kg	U
21-11293	MD21-01-0541	0–0.5	Fill	Chlorophenyl-phenyl[4-] Ether	1.05	mg/kg	U
21-11293	MD21-01-0541	0–0.5	Fill	Hexachlorocyclopentadiene	1.05	mg/kg	U
21-11293	MD21-01-0541	0–0.5	Fill	Isophorone	1.05	mg/kg	U
21-11293	MD21-01-0541	0–0.5	Fill	Acenaphthene	0.105	mg/kg	U
21-11293	MD21-01-0541	0–0.5	Fill	Diethylphthalate	0.115	mg/kg	U
21-11293	MD21-01-0541	0–0.5	Fill	Di-n-butylphthalate	1.05	mg/kg	U
21-11293	MD21-01-0541	0–0.5	Fill	Phenanthrene	0.105	mg/kg	U
21-11293	MD21-01-0541	0–0.5	Fill	Butylbenzylphthalate	1.05	mg/kg	U
21-11293	MD21-01-0541	0–0.5	Fill	Fluorene	0.105	mg/kg	U
21-11293	MD21-01-0541	0–0.5	Fill	Hexachlorobutadiene	1.05	mg/kg	U
21-11293	MD21-01-0541	0–0.5	Fill	Pentachlorophenol	1.05	mg/kg	U
21-11293	MD21-01-0541	0–0.5	Fill	Trichlorophenol[2,4,6-]	1.05	mg/kg	U
21-11293	MD21-01-0541	0–0.5	Fill	Nitroaniline[2-]	1.05	mg/kg	U
21-11293	MD21-01-0541	0–0.5	Fill	Nitrophenol[2-]	1.05	mg/kg	U
21-11293	MD21-01-0541	0–0.5	Fill	Naphthalene	0.105	mg/kg	U
21-11293	MD21-01-0541	0–0.5	Fill	Methylnaphthalene[2-]	0.105	mg/kg	U
21-11293	MD21-01-0541	0–0.5	Fill	Chloronaphthalene[2-]	0.105	mg/kg	U
21-11293	MD21-01-0541	0–0.5	Fill	Dichlorobenzidine[3,3'-]	1.05	mg/kg	U
21-11293	MD21-01-0541	0–0.5	Fill	Methylphenol[2-]	1.05	mg/kg	U
21-11293	MD21-01-0541	0–0.5	Fill	Dichlorobenzene[1,2-]	1.05	mg/kg	U
21-11293	MD21-01-0541	0–0.5	Fill	Chlorophenol[2-]	1.05	mg/kg	U
21-11293	MD21-01-0541	0–0.5	Fill	Trichlorophenol[2,4,5-]	1.05	mg/kg	U
21-11293	MD21-01-0541	0–0.5	Fill	Nitrobenzene	1.05	mg/kg	U
21-11293	MD21-01-0541	0–0.5	Fill	Nitroaniline[3-]	1.05	mg/kg	U
21-11293	MD21-01-0541	0–0.5	Fill	Aroclor-1260	0.0035	mg/kg	U
21-11293	MD21-01-0541	0–0.5	Fill	Aroclor-1254	0.0035	mg/kg	U
21-11293	MD21-01-0541	0–0.5	Fill	Aroclor-1221	0.0035	mg/kg	U
21-11293	MD21-01-0541	0–0.5	Fill	Aroclor-1232	0.0035	mg/kg	U
21-11293	MD21-01-0541	0–0.5	Fill	Aroclor-1248	0.0035	mg/kg	U
21-11293	MD21-01-0541	0–0.5	Fill	Aroclor-1016	0.0035	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11293	MD21-01-0541	0–0.5	Fill	Aroclor-1242	0.0035	mg/kg	U
21-11293	MD21-02-49501	0–0.5	Fill	Tritium	0.041221	pCi/g	None
21-11293	MD21-02-49501	0–0.5	Fill	Plutonium-238	0.00433	pCi/g	U
21-11293	MD21-02-49501	0–0.5	Fill	Plutonium-239	0.0823	pCi/g	None
21-11293	MD21-02-49502	1.5–2	Qbt 3	Tritium	-0.886	pCi/g	U
21-11293	MD21-02-49502	1.5–2	Qbt 3	Plutonium-238	-0.00336	pCi/g	U
21-11293	MD21-02-49502	1.5–2	Qbt 3	Plutonium-239	-0.00673	pCi/g	U
21-11294	MD21-01-0242	4–5	Qbt 3	Perchlorate	0.0177	mg/kg	J
21-11294	MD21-01-0242	4–5	Qbt 3	Americium-241	0.004	pCi/g	U
21-11294	MD21-01-0242	4–5	Qbt 3	Vanadium	0.58	mg/kg	None
21-11294	MD21-01-0242	4–5	Qbt 3	Strontium	0.59	mg/kg	None
21-11294	MD21-01-0242	4–5	Qbt 3	Lithium	1.1	mg/kg	J
21-11294	MD21-01-0242	4–5	Qbt 3	Copper	1.9	mg/kg	None
21-11294	MD21-01-0242	4–5	Qbt 3	Barium	11	mg/kg	None
21-11294	MD21-01-0242	4–5	Qbt 3	Zinc	15	mg/kg	J-
21-11294	MD21-01-0242	4–5	Qbt 3	Nickel	2	mg/kg	J-
21-11294	MD21-01-0242	4–5	Qbt 3	Iron	2600	mg/kg	None
21-11294	MD21-01-0242	4–5	Qbt 3	Aluminum	420	mg/kg	None
21-11294	MD21-01-0242	4–5	Qbt 3	Chromium	5	mg/kg	None
21-11294	MD21-01-0242	4–5	Qbt 3	Sodium	49	mg/kg	J
21-11294	MD21-01-0242	4–5	Qbt 3	Manganese	56	mg/kg	J-
21-11294	MD21-01-0242	4–5	Qbt 3	Potassium	70	mg/kg	J
21-11294	MD21-01-0242	4–5	Qbt 3	Calcium	81	mg/kg	J
21-11294	MD21-01-0242	4–5	Qbt 3	Magnesium	91	mg/kg	J
21-11294	MD21-01-0242	4–5	Qbt 3	Cadmium	0.0085	mg/kg	J
21-11294	MD21-01-0242	4–5	Qbt 3	Thallium	0.0097	mg/kg	J
21-11294	MD21-01-0242	4–5	Qbt 3	Silver	0.029	mg/kg	J
21-11294	MD21-01-0242	4–5	Qbt 3	Beryllium	0.14	mg/kg	None
21-11294	MD21-01-0242	4–5	Qbt 3	Selenium	0.43	mg/kg	None
21-11294	MD21-01-0242	4–5	Qbt 3	Arsenic	0.82	mg/kg	None
21-11294	MD21-01-0242	4–5	Qbt 3	Lead	3	mg/kg	J+
21-11294	MD21-01-0242	4–5	Qbt 3	Mercury	0.028	mg/kg	J
21-11294	MD21-01-0242	4–5	Qbt 3	Plutonium-238	-0.01	pCi/g	U
21-11294	MD21-01-0242	4–5	Qbt 3	Plutonium-239	0.0042	pCi/g	U
21-11294	MD21-01-0242	4–5	Qbt 3	Thorium-228	1.14	pCi/g	None
21-11294	MD21-01-0242	4–5	Qbt 3	Thorium-230	0.72	pCi/g	None
21-11294	MD21-01-0242	4–5	Qbt 3	Thorium-232	1.31	pCi/g	None
21-11294	MD21-01-0242	4–5	Qbt 3	Uranium-234	0.71	pCi/g	None
21-11294	MD21-01-0242	4–5	Qbt 3	Uranium-235	0.036	pCi/g	None
21-11294	MD21-01-0242	4–5	Qbt 3	Uranium-238	0.69	pCi/g	None
21-11294	MD21-01-0242	4–5	Qbt 3	Tritium	-0.005	pCi/g	U
21-11294	MD21-01-0242	4–5	Qbt 3	Chloromethane	0.0059	mg/kg	U
21-11294	MD21-01-0242	4–5	Qbt 3	Chloroethane	0.0059	mg/kg	U
21-11294	MD21-01-0242	4–5	Qbt 3	Vinyl Chloride	0.0059	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11294	MD21-01-0242	4–5	Qbt 3	Benzene	0.0059	mg/kg	U
21-11294	MD21-01-0242	4–5	Qbt 3	Isopropylbenzene	0.0059	mg/kg	U
21-11294	MD21-01-0242	4–5	Qbt 3	Dichloroethane[1,2-]	0.0059	mg/kg	U
21-11294	MD21-01-0242	4–5	Qbt 3	Trichloroethane[1,1,1-]	0.0059	mg/kg	U
21-11294	MD21-01-0242	4–5	Qbt 3	Dichloropropane[1,2-]	0.0059	mg/kg	U
21-11294	MD21-01-0242	4–5	Qbt 3	Bromobenzene	0.0059	mg/kg	U
21-11294	MD21-01-0242	4–5	Qbt 3	Bromodichloromethane	0.0059	mg/kg	U
21-11294	MD21-01-0242	4–5	Qbt 3	Bromoform	0.0059	mg/kg	U
21-11294	MD21-01-0242	4–5	Qbt 3	Xylene[1,2-]	0.0059	mg/kg	U
21-11294	MD21-01-0242	4–5	Qbt 3	Toluene	0.0059	mg/kg	U
21-11294	MD21-01-0242	4–5	Qbt 3	Dichlorobenzene[1,2-]	0.0059	mg/kg	U
21-11294	MD21-01-0242	4–5	Qbt 3	Ethylbenzene	0.0059	mg/kg	U
21-11294	MD21-01-0242	4–5	Qbt 3	Tetrachloroethane[1,1,1,2-]	0.0059	mg/kg	U
21-11294	MD21-01-0242	4–5	Qbt 3	Trichloroethene	0.0059	mg/kg	U
21-11294	MD21-01-0242	4–5	Qbt 3	Chloroform	0.0059	mg/kg	U
21-11294	MD21-01-0242	4–5	Qbt 3	Trichlorofluoromethane	0.0059	mg/kg	U
21-11294	MD21-01-0242	4–5	Qbt 3	Trichloroethane[1,1,2-]	0.0059	mg/kg	U
21-11294	MD21-01-0242	4–5	Qbt 3	Dichlorobenzene[1,3-]	0.0059	mg/kg	U
21-11294	MD21-01-0242	4–5	Qbt 3	Dichloropropene[1,1-]	0.0059	mg/kg	U
21-11294	MD21-01-0242	4–5	Qbt 3	Chlorotoluene[2-]	0.0059	mg/kg	U
21-11294	MD21-01-0242	4–5	Qbt 3	Dichloropropene[trans-1,3-]	0.0059	mg/kg	U
21-11294	MD21-01-0242	4–5	Qbt 3	Carbon Tetrachloride	0.0059	mg/kg	U
21-11294	MD21-01-0242	4–5	Qbt 3	Dichloropropane[1,3-]	0.0059	mg/kg	U
21-11294	MD21-01-0242	4–5	Qbt 3	Dichloroethene[cis-1,2-]	0.0059	mg/kg	U
21-11294	MD21-01-0242	4–5	Qbt 3	Styrene	0.0059	mg/kg	U
21-11294	MD21-01-0242	4–5	Qbt 3	Butylbenzene[sec-]	0.0059	mg/kg	U
21-11294	MD21-01-0242	4–5	Qbt 3	Trimethylbenzene[1,3,5-]	0.0059	mg/kg	U
21-11294	MD21-01-0242	4–5	Qbt 3	Dichlorobenzene[1,4-]	0.0059	mg/kg	U
21-11294	MD21-01-0242	4–5	Qbt 3	Chlorobenzene	0.0059	mg/kg	U
21-11294	MD21-01-0242	4–5	Qbt 3	Trichloropropane[1,2,3-]	0.0059	mg/kg	U
21-11294	MD21-01-0242	4–5	Qbt 3	Trimethylbenzene[1,2,4-]	0.0059	mg/kg	U
21-11294	MD21-01-0242	4–5	Qbt 3	Dichlorodifluoromethane	0.0059	mg/kg	U
21-11294	MD21-01-0242	4–5	Qbt 3	Chlorotoluene[4-]	0.0059	mg/kg	U
21-11294	MD21-01-0242	4–5	Qbt 3	Propylbenzene[1-]	0.0059	mg/kg	U
21-11294	MD21-01-0242	4–5	Qbt 3	Dichloroethane[1,1-]	0.0059	mg/kg	U
21-11294	MD21-01-0242	4–5	Qbt 3	Dichloropropane[2,2-]	0.0059	mg/kg	U
21-11294	MD21-01-0242	4–5	Qbt 3	Bromochloromethane	0.0059	mg/kg	U
21-11294	MD21-01-0242	4–5	Qbt 3	Dibromomethane	0.0059	mg/kg	U
21-11294	MD21-01-0242	4–5	Qbt 3	Butylbenzene[n-]	0.0059	mg/kg	U
21-11294	MD21-01-0242	4–5	Qbt 3	Isopropyltoluene[4-]	0.0059	mg/kg	U
21-11294	MD21-01-0242	4–5	Qbt 3	Tetrachloroethane[1,1,2,2-]	0.0059	mg/kg	U
21-11294	MD21-01-0242	4–5	Qbt 3	Dichloropropene[cis-1,3-]	0.0059	mg/kg	U
21-11294	MD21-01-0242	4–5	Qbt 3	Dichloroethene[trans-1,2-]	0.0059	mg/kg	U
21-11294	MD21-01-0242	4–5	Qbt 3	Chlorodibromomethane	0.0059	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11294	MD21-01-0242	4–5	Qbt 3	Xylene (Total)	0.0059	mg/kg	U
21-11294	MD21-01-0242	4–5	Qbt 3	Carbon Disulfide	0.0059	mg/kg	U
21-11294	MD21-01-0242	4–5	Qbt 3	Dichloroethene[1,1-]	0.0059	mg/kg	U
21-11294	MD21-01-0242	4–5	Qbt 3	Dibromo-3-Chloropropane[1,2-]	0.0059	mg/kg	U
21-11294	MD21-01-0242	4–5	Qbt 3	Bromomethane	0.0059	mg/kg	U
21-11294	MD21-01-0242	4–5	Qbt 3	Methylene Chloride	0.0059	mg/kg	U
21-11294	MD21-01-0242	4–5	Qbt 3	Iodomethane	0.0059	mg/kg	U
21-11294	MD21-01-0242	4–5	Qbt 3	Tetrachloroethene	0.0059	mg/kg	U
21-11294	MD21-01-0242	4–5	Qbt 3	Acetone	0.018	mg/kg	U
21-11294	MD21-01-0242	4–5	Qbt 3	Butylbenzene[tert-]	0.0059	mg/kg	U
21-11294	MD21-01-0242	4–5	Qbt 3	Trichloro-1,2,2-trifluoroethane[1,1,2-]	0.0059	mg/kg	U
21-11294	MD21-01-0242	4–5	Qbt 3	Dibromoethane[1,2-]	0.0059	mg/kg	U
21-11294	MD21-01-0242	4–5	Qbt 3	Hexanone[2-]	0.03	mg/kg	U
21-11294	MD21-01-0242	4–5	Qbt 3	Methyl-2-pentanone[4-]	0.03	mg/kg	U
21-11294	MD21-01-0242	4–5	Qbt 3	Butanone[2-]	0.03	mg/kg	U
21-11294	MD21-01-0243	9–10	Qbt 3	Perchlorate	0.06	mg/kg	U
21-11294	MD21-01-0243	9–10	Qbt 3	Americium-241	0.004	pCi/g	U
21-11294	MD21-01-0243	9–10	Qbt 3	Lithium	1.1	mg/kg	J
21-11294	MD21-01-0243	9–10	Qbt 3	Strontium	1	mg/kg	None
21-11294	MD21-01-0243	9–10	Qbt 3	Vanadium	1.3	mg/kg	None
21-11294	MD21-01-0243	9–10	Qbt 3	Nickel	1.5	mg/kg	J-
21-11294	MD21-01-0243	9–10	Qbt 3	Barium	10	mg/kg	None
21-11294	MD21-01-0243	9–10	Qbt 3	Manganese	130	mg/kg	J-
21-11294	MD21-01-0243	9–10	Qbt 3	Copper	2.1	mg/kg	None
21-11294	MD21-01-0243	9–10	Qbt 3	Calcium	150	mg/kg	J
21-11294	MD21-01-0243	9–10	Qbt 3	Iron	2300	mg/kg	None
21-11294	MD21-01-0243	9–10	Qbt 3	Aluminum	270	mg/kg	None
21-11294	MD21-01-0243	9–10	Qbt 3	Zinc	28	mg/kg	J-
21-11294	MD21-01-0243	9–10	Qbt 3	Chromium	3.8	mg/kg	None
21-11294	MD21-01-0243	9–10	Qbt 3	Sodium	32	mg/kg	J
21-11294	MD21-01-0243	9–10	Qbt 3	Potassium	60	mg/kg	J
21-11294	MD21-01-0243	9–10	Qbt 3	Magnesium	78	mg/kg	J
21-11294	MD21-01-0243	9–10	Qbt 3	Cadmium	0.0087	mg/kg	J
21-11294	MD21-01-0243	9–10	Qbt 3	Silver	0.021	mg/kg	J
21-11294	MD21-01-0243	9–10	Qbt 3	Thallium	0.025	mg/kg	J
21-11294	MD21-01-0243	9–10	Qbt 3	Beryllium	0.14	mg/kg	None
21-11294	MD21-01-0243	9–10	Qbt 3	Selenium	0.43	mg/kg	None
21-11294	MD21-01-0243	9–10	Qbt 3	Arsenic	0.66	mg/kg	None
21-11294	MD21-01-0243	9–10	Qbt 3	Lead	3.2	mg/kg	J+
21-11294	MD21-01-0243	9–10	Qbt 3	Mercury	0.016	mg/kg	J
21-11294	MD21-01-0243	9–10	Qbt 3	Plutonium-238	-0.012	pCi/g	U
21-11294	MD21-01-0243	9–10	Qbt 3	Plutonium-239	0.004	pCi/g	U
21-11294	MD21-01-0243	9–10	Qbt 3	Thorium-228	1.59	pCi/g	None
21-11294	MD21-01-0243	9–10	Qbt 3	Thorium-230	0.99	pCi/g	None

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11294	MD21-01-0243	9–10	Qbt 3	Thorium-232	1.55	pCi/g	None
21-11294	MD21-01-0243	9–10	Qbt 3	Uranium-234	0.98	pCi/g	None
21-11294	MD21-01-0243	9–10	Qbt 3	Uranium-235	0.033	pCi/g	U
21-11294	MD21-01-0243	9–10	Qbt 3	Uranium-238	1.01	pCi/g	None
21-11294	MD21-01-0243	9–10	Qbt 3	Tritium	0.012	pCi/g	U
21-11294	MD21-01-0243	9–10	Qbt 3	Chloromethane	0.007	mg/kg	U
21-11294	MD21-01-0243	9–10	Qbt 3	Chloroethane	0.007	mg/kg	U
21-11294	MD21-01-0243	9–10	Qbt 3	Vinyl Chloride	0.007	mg/kg	U
21-11294	MD21-01-0243	9–10	Qbt 3	Benzene	0.007	mg/kg	U
21-11294	MD21-01-0243	9–10	Qbt 3	Isopropylbenzene	0.007	mg/kg	U
21-11294	MD21-01-0243	9–10	Qbt 3	Dichloroethane[1,2-]	0.007	mg/kg	U
21-11294	MD21-01-0243	9–10	Qbt 3	Trichloroethane[1,1,1-]	0.007	mg/kg	U
21-11294	MD21-01-0243	9–10	Qbt 3	Dichloropropane[1,2-]	0.007	mg/kg	U
21-11294	MD21-01-0243	9–10	Qbt 3	Bromobenzene	0.007	mg/kg	U
21-11294	MD21-01-0243	9–10	Qbt 3	Bromodichloromethane	0.007	mg/kg	U
21-11294	MD21-01-0243	9–10	Qbt 3	Bromoform	0.007	mg/kg	U
21-11294	MD21-01-0243	9–10	Qbt 3	Xylene[1,2-]	0.007	mg/kg	U
21-11294	MD21-01-0243	9–10	Qbt 3	Toluene	0.007	mg/kg	U
21-11294	MD21-01-0243	9–10	Qbt 3	Dichlorobenzene[1,2-]	0.007	mg/kg	U
21-11294	MD21-01-0243	9–10	Qbt 3	Ethylbenzene	0.007	mg/kg	U
21-11294	MD21-01-0243	9–10	Qbt 3	Tetrachloroethane[1,1,1,2-]	0.007	mg/kg	U
21-11294	MD21-01-0243	9–10	Qbt 3	Trichloroethene	0.007	mg/kg	U
21-11294	MD21-01-0243	9–10	Qbt 3	Chloroform	0.007	mg/kg	U
21-11294	MD21-01-0243	9–10	Qbt 3	Trichlorofluoromethane	0.007	mg/kg	U
21-11294	MD21-01-0243	9–10	Qbt 3	Trichloroethane[1,1,2-]	0.007	mg/kg	U
21-11294	MD21-01-0243	9–10	Qbt 3	Dichloropropene[1,1-]	0.007	mg/kg	U
21-11294	MD21-01-0243	9–10	Qbt 3	Dichlorobenzene[1,3-]	0.007	mg/kg	U
21-11294	MD21-01-0243	9–10	Qbt 3	Chlorotoluene[2-]	0.007	mg/kg	U
21-11294	MD21-01-0243	9–10	Qbt 3	Trimethylbenzene[1,3,5-]	0.007	mg/kg	U
21-11294	MD21-01-0243	9–10	Qbt 3	Dichloropropane[1,3-]	0.007	mg/kg	U
21-11294	MD21-01-0243	9–10	Qbt 3	Dichlorobenzene[1,4-]	0.007	mg/kg	U
21-11294	MD21-01-0243	9–10	Qbt 3	Carbon Tetrachloride	0.007	mg/kg	U
21-11294	MD21-01-0243	9–10	Qbt 3	Dichloroethene[cis-1,2-]	0.007	mg/kg	U
21-11294	MD21-01-0243	9–10	Qbt 3	Butylbenzene[sec-]	0.007	mg/kg	U
21-11294	MD21-01-0243	9–10	Qbt 3	Styrene	0.007	mg/kg	U
21-11294	MD21-01-0243	9–10	Qbt 3	Dichloropropene[trans-1,3-]	0.007	mg/kg	U
21-11294	MD21-01-0243	9–10	Qbt 3	Trichloropropane[1,2,3-]	0.007	mg/kg	U
21-11294	MD21-01-0243	9–10	Qbt 3	Trimethylbenzene[1,2,4-]	0.007	mg/kg	U
21-11294	MD21-01-0243	9–10	Qbt 3	Chlorobenzene	0.007	mg/kg	U
21-11294	MD21-01-0243	9–10	Qbt 3	Dichlorodifluoromethane	0.007	mg/kg	U
21-11294	MD21-01-0243	9–10	Qbt 3	Chlorotoluene[4-]	0.007	mg/kg	U
21-11294	MD21-01-0243	9–10	Qbt 3	Dichloropropane[2,2-]	0.007	mg/kg	U
21-11294	MD21-01-0243	9–10	Qbt 3	Bromochloromethane	0.007	mg/kg	U
21-11294	MD21-01-0243	9–10	Qbt 3	Dibromomethane	0.007	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11294	MD21-01-0243	9–10	Qbt 3	Butylbenzene[n-]	0.007	mg/kg	U
21-11294	MD21-01-0243	9–10	Qbt 3	Propylbenzene[1-]	0.007	mg/kg	U
21-11294	MD21-01-0243	9–10	Qbt 3	Isopropyltoluene[4-]	0.007	mg/kg	U
21-11294	MD21-01-0243	9–10	Qbt 3	Dichloroethane[1,1-]	0.007	mg/kg	U
21-11294	MD21-01-0243	9–10	Qbt 3	Tetrachloroethane[1,1,2,2-]	0.007	mg/kg	U
21-11294	MD21-01-0243	9–10	Qbt 3	Dichloroethene[trans-1,2-]	0.007	mg/kg	U
21-11294	MD21-01-0243	9–10	Qbt 3	Dichloropropene[cis-1,3-]	0.007	mg/kg	U
21-11294	MD21-01-0243	9–10	Qbt 3	Chlorodibromomethane	0.007	mg/kg	U
21-11294	MD21-01-0243	9–10	Qbt 3	Xylene (Total)	0.007	mg/kg	U
21-11294	MD21-01-0243	9–10	Qbt 3	Carbon Disulfide	0.007	mg/kg	U
21-11294	MD21-01-0243	9–10	Qbt 3	Butanone[2-]	0.035	mg/kg	U
21-11294	MD21-01-0243	9–10	Qbt 3	Dichloroethene[1,1-]	0.007	mg/kg	U
21-11294	MD21-01-0243	9–10	Qbt 3	Dibromo-3-Chloropropane[1,2-]	0.007	mg/kg	U
21-11294	MD21-01-0243	9–10	Qbt 3	Bromomethane	0.007	mg/kg	U
21-11294	MD21-01-0243	9–10	Qbt 3	Methylene Chloride	0.007	mg/kg	U
21-11294	MD21-01-0243	9–10	Qbt 3	Iodomethane	0.007	mg/kg	U
21-11294	MD21-01-0243	9–10	Qbt 3	Tetrachloroethene	0.007	mg/kg	U
21-11294	MD21-01-0243	9–10	Qbt 3	Butylbenzene[tert-]	0.007	mg/kg	U
21-11294	MD21-01-0243	9–10	Qbt 3	Acetone	0.06	mg/kg	U
21-11294	MD21-01-0243	9–10	Qbt 3	Trichloro-1,2,2-trifluoroethane[1,1,2-]	0.007	mg/kg	U
21-11294	MD21-01-0243	9–10	Qbt 3	Dibromoethane[1,2-]	0.007	mg/kg	U
21-11294	MD21-01-0243	9–10	Qbt 3	Hexanone[2-]	0.035	mg/kg	U
21-11294	MD21-01-0243	9–10	Qbt 3	Methyl-2-pentanone[4-]	0.035	mg/kg	U
21-11294	MD21-01-0244	19–20	Qbt 3	Perchlorate	0.0125	mg/kg	None
21-11294	MD21-01-0244	19–20	Qbt 3	Americium-241	0.004	pCi/g	U
21-11294	MD21-01-0244	19–20	Qbt 3	Lithium	1	mg/kg	J
21-11294	MD21-01-0244	19–20	Qbt 3	Nickel	1.2	mg/kg	J-
21-11294	MD21-01-0244	19–20	Qbt 3	Vanadium	1.2	mg/kg	None
21-11294	MD21-01-0244	19–20	Qbt 3	Copper	1.8	mg/kg	None
21-11294	MD21-01-0244	19–20	Qbt 3	Strontium	1.9	mg/kg	None
21-11294	MD21-01-0244	19–20	Qbt 3	Potassium	130	mg/kg	J
21-11294	MD21-01-0244	19–20	Qbt 3	Barium	12	mg/kg	None
21-11294	MD21-01-0244	19–20	Qbt 3	Manganese	160	mg/kg	J-
21-11294	MD21-01-0244	19–20	Qbt 3	Zinc	19	mg/kg	J-
21-11294	MD21-01-0244	19–20	Qbt 3	Chromium	2.1	mg/kg	None
21-11294	MD21-01-0244	19–20	Qbt 3	Calcium	230	mg/kg	J
21-11294	MD21-01-0244	19–20	Qbt 3	Magnesium	160	mg/kg	J
21-11294	MD21-01-0244	19–20	Qbt 3	Iron	2900	mg/kg	None
21-11294	MD21-01-0244	19–20	Qbt 3	Sodium	38	mg/kg	J
21-11294	MD21-01-0244	19–20	Qbt 3	Aluminum	880	mg/kg	None
21-11294	MD21-01-0244	19–20	Qbt 3	Cadmium	0.014	mg/kg	J
21-11294	MD21-01-0244	19–20	Qbt 3	Thallium	0.012	mg/kg	J
21-11294	MD21-01-0244	19–20	Qbt 3	Silver	0.027	mg/kg	J
21-11294	MD21-01-0244	19–20	Qbt 3	Selenium	0.43	mg/kg	None

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11294	MD21-01-0244	19–20	Qbt 3	Beryllium	0.48	mg/kg	None
21-11294	MD21-01-0244	19–20	Qbt 3	Arsenic	0.77	mg/kg	None
21-11294	MD21-01-0244	19–20	Qbt 3	Lead	2.3	mg/kg	J+
21-11294	MD21-01-0244	19–20	Qbt 3	Mercury	0.025	mg/kg	J
21-11294	MD21-01-0244	19–20	Qbt 3	Plutonium-238	-0.002	pCi/g	U
21-11294	MD21-01-0244	19–20	Qbt 3	Plutonium-239	0.002	pCi/g	U
21-11294	MD21-01-0244	19–20	Qbt 3	Thorium-228	1.34	pCi/g	None
21-11294	MD21-01-0244	19–20	Qbt 3	Thorium-230	0.84	pCi/g	None
21-11294	MD21-01-0244	19–20	Qbt 3	Thorium-232	1.16	pCi/g	None
21-11294	MD21-01-0244	19–20	Qbt 3	Uranium-234	0.76	pCi/g	None
21-11294	MD21-01-0244	19–20	Qbt 3	Uranium-235	0.034	pCi/g	None
21-11294	MD21-01-0244	19–20	Qbt 3	Uranium-238	0.82	pCi/g	None
21-11294	MD21-01-0244	19–20	Qbt 3	Tritium	-0.037	pCi/g	U
21-11294	MD21-01-0244	19–20	Qbt 3	Chloromethane	0.0064	mg/kg	U
21-11294	MD21-01-0244	19–20	Qbt 3	Chloroethane	0.0064	mg/kg	U
21-11294	MD21-01-0244	19–20	Qbt 3	Vinyl Chloride	0.0064	mg/kg	U
21-11294	MD21-01-0244	19–20	Qbt 3	Benzene	0.0064	mg/kg	U
21-11294	MD21-01-0244	19–20	Qbt 3	Isopropylbenzene	0.0064	mg/kg	U
21-11294	MD21-01-0244	19–20	Qbt 3	Dichloroethane[1,2-]	0.0064	mg/kg	U
21-11294	MD21-01-0244	19–20	Qbt 3	Trichloroethane[1,1,1-]	0.0064	mg/kg	U
21-11294	MD21-01-0244	19–20	Qbt 3	Dichloropropane[1,2-]	0.0064	mg/kg	U
21-11294	MD21-01-0244	19–20	Qbt 3	Bromobenzene	0.0064	mg/kg	U
21-11294	MD21-01-0244	19–20	Qbt 3	Bromodichloromethane	0.0064	mg/kg	U
21-11294	MD21-01-0244	19–20	Qbt 3	Bromoform	0.0064	mg/kg	U
21-11294	MD21-01-0244	19–20	Qbt 3	Xylene[1,2-]	0.0064	mg/kg	U
21-11294	MD21-01-0244	19–20	Qbt 3	Toluene	0.0064	mg/kg	U
21-11294	MD21-01-0244	19–20	Qbt 3	Dichlorobenzene[1,2-]	0.0064	mg/kg	U
21-11294	MD21-01-0244	19–20	Qbt 3	Ethylbenzene	0.0064	mg/kg	U
21-11294	MD21-01-0244	19–20	Qbt 3	Tetrachloroethane[1,1,1,2-]	0.0064	mg/kg	U
21-11294	MD21-01-0244	19–20	Qbt 3	Trichloroethene	0.0064	mg/kg	U
21-11294	MD21-01-0244	19–20	Qbt 3	Chloroform	0.0064	mg/kg	U
21-11294	MD21-01-0244	19–20	Qbt 3	Trichlorofluoromethane	0.0064	mg/kg	U
21-11294	MD21-01-0244	19–20	Qbt 3	Trichloroethane[1,1,2-]	0.0064	mg/kg	U
21-11294	MD21-01-0244	19–20	Qbt 3	Dichlorobenzene[1,3-]	0.0064	mg/kg	U
21-11294	MD21-01-0244	19–20	Qbt 3	Chlorotoluene[2-]	0.0064	mg/kg	U
21-11294	MD21-01-0244	19–20	Qbt 3	Dichloropropene[1,1-]	0.0064	mg/kg	U
21-11294	MD21-01-0244	19–20	Qbt 3	Dichloropropene[trans-1,3-]	0.0064	mg/kg	U
21-11294	MD21-01-0244	19–20	Qbt 3	Carbon Tetrachloride	0.0064	mg/kg	U
21-11294	MD21-01-0244	19–20	Qbt 3	Trimethylbenzene[1,3,5-]	0.0064	mg/kg	U
21-11294	MD21-01-0244	19–20	Qbt 3	Dichloropropane[1,3-]	0.0064	mg/kg	U
21-11294	MD21-01-0244	19–20	Qbt 3	Dichlorobenzene[1,4-]	0.0064	mg/kg	U
21-11294	MD21-01-0244	19–20	Qbt 3	Dichloroethene[cis-1,2-]	0.0064	mg/kg	U
21-11294	MD21-01-0244	19–20	Qbt 3	Butylbenzene[sec-]	0.0064	mg/kg	U
21-11294	MD21-01-0244	19–20	Qbt 3	Styrene	0.0064	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11294	MD21-01-0244	19–20	Qbt 3	Trichloropropane[1,2,3-]	0.0064	mg/kg	U
21-11294	MD21-01-0244	19–20	Qbt 3	Trimethylbenzene[1,2,4-]	0.0064	mg/kg	U
21-11294	MD21-01-0244	19–20	Qbt 3	Chlorobenzene	0.0064	mg/kg	U
21-11294	MD21-01-0244	19–20	Qbt 3	Dichlorodifluoromethane	0.0064	mg/kg	U
21-11294	MD21-01-0244	19–20	Qbt 3	Chlorotoluene[4-]	0.0064	mg/kg	U
21-11294	MD21-01-0244	19–20	Qbt 3	Propylbenzene[1-]	0.0064	mg/kg	U
21-11294	MD21-01-0244	19–20	Qbt 3	Isopropyltoluene[4-]	0.0064	mg/kg	U
21-11294	MD21-01-0244	19–20	Qbt 3	Dichloroethane[1,1-]	0.0064	mg/kg	U
21-11294	MD21-01-0244	19–20	Qbt 3	Dichloropropane[2,2-]	0.0064	mg/kg	U
21-11294	MD21-01-0244	19–20	Qbt 3	Bromochloromethane	0.0064	mg/kg	U
21-11294	MD21-01-0244	19–20	Qbt 3	Dibromomethane	0.0064	mg/kg	U
21-11294	MD21-01-0244	19–20	Qbt 3	Butylbenzene[n-]	0.0064	mg/kg	U
21-11294	MD21-01-0244	19–20	Qbt 3	Tetrachloroethane[1,1,2,2-]	0.0064	mg/kg	U
21-11294	MD21-01-0244	19–20	Qbt 3	Dichloropropene[cis-1,3-]	0.0064	mg/kg	U
21-11294	MD21-01-0244	19–20	Qbt 3	Dichloroethene[trans-1,2-]	0.0064	mg/kg	U
21-11294	MD21-01-0244	19–20	Qbt 3	Chlorodibromomethane	0.0064	mg/kg	U
21-11294	MD21-01-0244	19–20	Qbt 3	Xylene (Total)	0.0064	mg/kg	U
21-11294	MD21-01-0244	19–20	Qbt 3	Carbon Disulfide	0.0064	mg/kg	U
21-11294	MD21-01-0244	19–20	Qbt 3	Butanone[2-]	0.032	mg/kg	U
21-11294	MD21-01-0244	19–20	Qbt 3	Dichloroethene[1,1-]	0.0064	mg/kg	U
21-11294	MD21-01-0244	19–20	Qbt 3	Dibromo-3-Chloropropane[1,2-]	0.0064	mg/kg	U
21-11294	MD21-01-0244	19–20	Qbt 3	Bromomethane	0.0064	mg/kg	U
21-11294	MD21-01-0244	19–20	Qbt 3	Methylene Chloride	0.0064	mg/kg	U
21-11294	MD21-01-0244	19–20	Qbt 3	Iodomethane	0.0064	mg/kg	U
21-11294	MD21-01-0244	19–20	Qbt 3	Tetrachloroethene	0.0064	mg/kg	U
21-11294	MD21-01-0244	19–20	Qbt 3	Butylbenzene[tert-]	0.0064	mg/kg	U
21-11294	MD21-01-0244	19–20	Qbt 3	Acetone	0.048	mg/kg	U
21-11294	MD21-01-0244	19–20	Qbt 3	Trichloro-1,2,2-trifluoroethane[1,1,2-]	0.0064	mg/kg	U
21-11294	MD21-01-0244	19–20	Qbt 3	Dibromoethane[1,2-]	0.0064	mg/kg	U
21-11294	MD21-01-0244	19–20	Qbt 3	Hexanone[2-]	0.032	mg/kg	U
21-11294	MD21-01-0244	19–20	Qbt 3	Methyl-2-pentanone[4-]	0.032	mg/kg	U
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Perchlorate	0.133	mg/kg	J
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Carbon Tetrachloride	0.0013	mg/kg	U
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Tetrachloroethane[1,1,1,2-]	0.0013	mg/kg	U
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Acetone	0.0066	mg/kg	U
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Dichlorodifluoromethane	0.0015	mg/kg	U
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Chlorotoluene[2-]	0.0013	mg/kg	U
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Propylbenzene[1-]	0.0013	mg/kg	U
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Hexanone[2-]	0.0066	mg/kg	U
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Trichloropropane[1,2,3-]	0.0013	mg/kg	U
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Dichloropropane[1,3-]	0.0013	mg/kg	U
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Dichloroethene[cis-1,2-]	0.0013	mg/kg	U
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Dibromo-3-Chloropropane[1,2-]	0.0013	mg/kg	U
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Butylbenzene[tert-]	0.0013	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Butylbenzene[sec-]	0.0013	mg/kg	U
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Dibromomethane	0.0013	mg/kg	U
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Trimethylbenzene[1,2,4-]	0.0013	mg/kg	U
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Chlorotoluene[4-]	0.0013	mg/kg	U
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Dibromoethane[1,2-]	0.0013	mg/kg	U
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Chlorobenzene	0.0013	mg/kg	U
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Chlorodibromomethane	0.0013	mg/kg	U
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Chloroform	0.0013	mg/kg	U
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Dichloroethene[1,1-]	0.0013	mg/kg	U
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Butanone[2-]	0.0066	mg/kg	U
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Tetrachloroethane[1,1,2,2-]	0.0013	mg/kg	U
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Dichloropropene[cis-1,3-]	0.0013	mg/kg	U
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Dichloroethene[trans-1,2-]	0.0013	mg/kg	U
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Iodomethane	0.0066	mg/kg	U
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Bromochloromethane	0.0013	mg/kg	U
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Methylene Chloride	0.0066	mg/kg	U
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Bromobenzene	0.0013	mg/kg	U
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Butylbenzene[n-]	0.0013	mg/kg	U
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Trimethylbenzene[1,3,5-]	0.0013	mg/kg	U
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Dichlorobenzene[1,3-]	0.0013	mg/kg	U
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Trichlorofluoromethane	0.0144	mg/kg	None
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Xylene[1,3-]+Xylene[1,4-]	0.0026	mg/kg	U
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Styrene	0.0013	mg/kg	U
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Trichlorotrifluoroethane	0.0066	mg/kg	U
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Bromoform	0.0013	mg/kg	U
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Dichloropropane[1,2-]	0.0013	mg/kg	U
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Trichloroethene	0.0013	mg/kg	U
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Dichloropropane[2,2-]	0.0013	mg/kg	U
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Bromomethane	0.0013	mg/kg	U
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Chloroethane	0.0013	mg/kg	U
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Vinyl Chloride	0.0013	mg/kg	U
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Trichloroethane[1,1,2-]	0.0013	mg/kg	U
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Xylene[1,2-]	0.0013	mg/kg	U
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Dichlorobenzene[1,2-]	0.0013	mg/kg	U
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Isopropylbenzene	0.0013	mg/kg	U
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Dichloropropene[trans-1,3-]	0.0013	mg/kg	U
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Dichlorobenzene[1,4-]	0.0013	mg/kg	U
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Dichloroethane[1,2-]	0.0013	mg/kg	U
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Toluene	0.0013	mg/kg	U
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Dichloropropene[1,1-]	0.0013	mg/kg	U
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Benzene	0.00036	mg/kg	J
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Chloromethane	0.0013	mg/kg	U
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Bromodichloromethane	0.0013	mg/kg	U
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Isopropyltoluene[4-]	0.0013	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Trichloroethane[1,1,1-]	0.0013	mg/kg	U
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Carbon Disulfide	0.0066	mg/kg	U
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Tetrachloroethene	0.0013	mg/kg	U
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Dichloroethane[1,1-]	0.0013	mg/kg	U
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Methyl-2-pentanone[4-]	0.0066	mg/kg	U
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Silver	0.198	mg/kg	U
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Zinc	11.6	mg/kg	None
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Mercury	0.35	mg/kg	J+
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Tritium	-0.00447	pCi/g	U
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Americium-241	0.0862	pCi/g	None
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Beryllium	0.115	mg/kg	None
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Ethylbenzene	0.0013	mg/kg	U
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Lithium	14.6	mg/kg	None
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Nickel	1.09	mg/kg	None
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Antimony	0.0655	mg/kg	U
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Thallium	0.0992	mg/kg	U
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Aluminum	294	mg/kg	J+
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Arsenic	1.45	mg/kg	J
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Barium	4.39	mg/kg	None
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Calcium	113	mg/kg	J
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Cadmium	0.491	mg/kg	U
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Cobalt	0.0926	mg/kg	J
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Chromium	4.67	mg/kg	None
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Copper	1.29	mg/kg	None
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Iron	2820	mg/kg	None
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Potassium	74.6	mg/kg	None
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Magnesium	101	mg/kg	None
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Manganese	54.9	mg/kg	None
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Sodium	48	mg/kg	None
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Lead	1.16	mg/kg	J
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Selenium	0.491	mg/kg	U
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Strontium	0.967	mg/kg	J
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Vanadium	0.486	mg/kg	J
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Cobalt-60	0.00258	pCi/g	U
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Cesium-134	-0.00988	pCi/g	U
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Cesium-137	0.0173	pCi/g	U
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Europium-152	0.00248	pCi/g	U
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Sodium-22	0.0129	pCi/g	U
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Ruthenium-106	0.105	pCi/g	U
21-11295	MD21-01-0236	8.8–9.8	Qbt 3	Uranium-235	0.0308	pCi/g	U
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Chloroform	0.0012	mg/kg	U
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Dichloroethene[1,1-]	0.0012	mg/kg	U
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Butanone[2-]	0.0058	mg/kg	U
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Tetrachloroethene	0.0012	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Dichlorobenzene[1,3-]	0.0012	mg/kg	U
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Vinyl Chloride	0.0012	mg/kg	U
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Trichlorofluoromethane	0.0132	mg/kg	None
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Tetrachloroethane[1,1,2,2-]	0.0012	mg/kg	U
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Dichloroethene[cis-1,2-]	0.0012	mg/kg	U
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Tetrachloroethane[1,1,1,2-]	0.0012	mg/kg	U
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Isopropyltoluene[4-]	0.0012	mg/kg	U
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Dichloroethane[1,2-]	0.0012	mg/kg	U
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Bromoform	0.0012	mg/kg	U
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Bromodichloromethane	0.0012	mg/kg	U
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Iodomethane	0.0058	mg/kg	U
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Dibromomethane	0.0012	mg/kg	U
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Xylene[1,3-]+Xylene[1,4-]	0.0023	mg/kg	U
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Acetone	0.005	mg/kg	J
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Trichloroethane[1,1,1-]	0.0012	mg/kg	U
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Isopropylbenzene	0.0012	mg/kg	U
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Dichlorobenzene[1,4-]	0.0012	mg/kg	U
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Chloroethane	0.0012	mg/kg	U
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Methylene Chloride	0.0058	mg/kg	U
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Dichlorobenzene[1,2-]	0.0012	mg/kg	U
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Butylbenzene[tert-]	0.0012	mg/kg	U
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Dibromoethane[1,2-]	0.0012	mg/kg	U
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Butylbenzene[sec-]	0.0012	mg/kg	U
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Trimethylbenzene[1,3,5-]	0.0012	mg/kg	U
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Chlorobenzene	0.0012	mg/kg	U
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Chlorotoluene[2-]	0.0012	mg/kg	U
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Trichloropropane[1,2,3-]	0.0012	mg/kg	U
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Silver	0.201	mg/kg	U
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Beryllium	0.0502	mg/kg	None
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Lithium	3.59	mg/kg	None
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Nickel	1.37	mg/kg	None
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Antimony	0.401	mg/kg	U
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Thallium	0.1	mg/kg	U
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Aluminum	175	mg/kg	J+
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Arsenic	1.16	mg/kg	J
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Barium	8.62	mg/kg	None
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Calcium	71.3	mg/kg	J
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Cadmium	0.498	mg/kg	U
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Cobalt	0.103	mg/kg	J
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Chromium	5.94	mg/kg	None
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Copper	0.777	mg/kg	None
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Iron	2170	mg/kg	None
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Potassium	78.2	mg/kg	None
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Magnesium	116	mg/kg	None

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Manganese	51.3	mg/kg	None
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Sodium	46.4	mg/kg	None
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Lead	0.777	mg/kg	J
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Selenium	0.498	mg/kg	U
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Strontium	0.43	mg/kg	J
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Vanadium	0.439	mg/kg	J
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Zinc	6.53	mg/kg	None
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Mercury	0.00387	mg/kg	J+
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Tritium	-0.00225	pCi/g	U
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Americium-241	0.0144	pCi/g	U
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Cobalt-60	-0.0167	pCi/g	U
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Cesium-134	-0.00345	pCi/g	U
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Cesium-137	-0.0221	pCi/g	U
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Europium-152	0.00124	pCi/g	U
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Sodium-22	0.00194	pCi/g	U
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Perchlorate	0.0589	mg/kg	U
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Dichloropropane[2,2-]	0.0012	mg/kg	U
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Dichloropropene[cis-1,3-]	0.0012	mg/kg	U
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Butylbenzene[n-]	0.0012	mg/kg	U
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Bromobenzene	0.0012	mg/kg	U
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Toluene	0.0012	mg/kg	U
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Trichlorotrifluoroethane	0.0058	mg/kg	U
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Dichlorodifluoromethane	0.00098	mg/kg	J
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Styrene	0.0012	mg/kg	U
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Chlorotoluene[4-]	0.0012	mg/kg	U
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Chloromethane	0.0012	mg/kg	U
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Chlorodibromomethane	0.0012	mg/kg	U
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Dichloropropane[1,3-]	0.0012	mg/kg	U
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Bromochloromethane	0.0012	mg/kg	U
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Trimethylbenzene[1,2,4-]	0.0012	mg/kg	U
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Dichloroethene[trans-1,2-]	0.0012	mg/kg	U
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Dichloropropene[1,1-]	0.0012	mg/kg	U
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Ethylbenzene	0.0012	mg/kg	U
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Carbon Disulfide	0.0058	mg/kg	U
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Dichloropropane[1,2-]	0.0012	mg/kg	U
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Trichloroethane[1,1,2-]	0.0012	mg/kg	U
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Dibromo-3-Chloropropane[1,2-]	0.0012	mg/kg	U
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Methyl-2-pentanone[4-]	0.0058	mg/kg	U
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Carbon Tetrachloride	0.0012	mg/kg	U
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Hexanone[2-]	0.0058	mg/kg	U
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Benzene	0.0012	mg/kg	U
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Dichloroethane[1,1-]	0.0012	mg/kg	U
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Trichloroethene	0.0012	mg/kg	U
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Dichloropropene[trans-1,3-]	0.0012	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Propylbenzene[1-]	0.0012	mg/kg	U
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Ruthenium-106	0.0914	pCi/g	U
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Uranium-235	0.127	pCi/g	U
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Xylene[1,2-]	0.0012	mg/kg	U
21-11295	MD21-01-0237	12.8–13.8	Qbt 3	Bromomethane	0.0012	mg/kg	U
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Perchlorate	0.0599	mg/kg	U
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Isopropylbenzene	0.0012	mg/kg	U
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Iodomethane	0.0058	mg/kg	U
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Dichlorobenzene[1,2-]	0.0012	mg/kg	U
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Trichloropropane[1,2,3-]	0.0012	mg/kg	U
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Chloroethane	0.0012	mg/kg	U
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Dichloroethane[1,1-]	0.0012	mg/kg	U
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Trichlorotrifluoroethane	0.0058	mg/kg	U
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Dibromomethane	0.0012	mg/kg	U
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Methylene Chloride	0.0058	mg/kg	U
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Butylbenzene[n-]	0.0012	mg/kg	U
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Bromobenzene	0.0012	mg/kg	U
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Chlorobenzene	0.0012	mg/kg	U
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Butanone[2-]	0.0058	mg/kg	U
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Ethylbenzene	0.0004	mg/kg	J
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Dichloroethane[1,2-]	0.0012	mg/kg	U
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Styrene	0.00032	mg/kg	J
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Dibromo-3-Chloropropane[1,2-]	0.0012	mg/kg	U
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Xylene[1,3-]+Xylene[1,4-]	0.0012	mg/kg	J
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Toluene	0.00055	mg/kg	J
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Benzene	0.0012	mg/kg	U
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Chloromethane	0.0012	mg/kg	U
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Bromodichloromethane	0.0012	mg/kg	U
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Carbon Disulfide	0.0058	mg/kg	U
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Dichloropropene[trans-1,3-]	0.0012	mg/kg	U
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Methyl-2-pentanone[4-]	0.0058	mg/kg	U
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Dichloroethene[1,1-]	0.0012	mg/kg	U
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Dichlorodifluoromethane	0.0012	mg/kg	None
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Dichloropropane[2,2-]	0.0012	mg/kg	U
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Acetone	0.0058	mg/kg	U
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Trichloroethane[1,1,1-]	0.0012	mg/kg	U
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Bromomethane	0.0012	mg/kg	U
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Xylene[1,2-]	0.0012	mg/kg	U
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Isopropyltoluene[4-]	0.0012	mg/kg	U
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Butylbenzene[tert-]	0.0012	mg/kg	U
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Trichlorofluoromethane	0.0145	mg/kg	None
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Dichloroethene[trans-1,2-]	0.0012	mg/kg	U
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Trichloroethane[1,1,2-]	0.0012	mg/kg	U
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Tetrachloroethene	0.0012	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Dichloropropane[1,3-]	0.0012	mg/kg	U
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Vinyl Chloride	0.0012	mg/kg	U
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Dichlorobenzene[1,4-]	0.0012	mg/kg	U
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Chlorodibromomethane	0.0012	mg/kg	U
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Chloroform	0.0012	mg/kg	U
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Trichloroethene	0.0012	mg/kg	U
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Trimethylbenzene[1,2,4-]	0.0012	mg/kg	U
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Chlorotoluene[4-]	0.0012	mg/kg	U
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Dichlorobenzene[1,3-]	0.0012	mg/kg	U
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Carbon Tetrachloride	0.0012	mg/kg	U
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Tetrachloroethane[1,1,1,2-]	0.0012	mg/kg	U
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Dichloropropene[1,1-]	0.0012	mg/kg	U
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Chlorotoluene[2-]	0.0012	mg/kg	U
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Dichloropropene[cis-1,3-]	0.0012	mg/kg	U
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Dibromoethane[1,2-]	0.0012	mg/kg	U
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Dichloroethene[cis-1,2-]	0.0012	mg/kg	U
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Dichloropropane[1,2-]	0.0012	mg/kg	U
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Trimethylbenzene[1,3,5-]	0.0012	mg/kg	U
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Bromoform	0.0012	mg/kg	U
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Tetrachloroethane[1,1,2,2-]	0.0012	mg/kg	U
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Butylbenzene[sec-]	0.0012	mg/kg	U
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Hexanone[2-]	0.0058	mg/kg	U
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Sodium	72.3	mg/kg	None
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Lead	0.267	mg/kg	J
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Selenium	0.459	mg/kg	U
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Strontium	0.443	mg/kg	J
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Vanadium	0.748	mg/kg	None
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Zinc	19.3	mg/kg	None
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Mercury	0.00416	mg/kg	J+
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Tritium	-0.00077	pCi/g	U
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Americium-241	0.0274	pCi/g	None
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Bromochloromethane	0.0012	mg/kg	U
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Propylbenzene[1-]	0.0012	mg/kg	U
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Silver	0.199	mg/kg	U
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Beryllium	0.201	mg/kg	None
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Lithium	13.2	mg/kg	None
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Nickel	0.635	mg/kg	None
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Antimony	0.398	mg/kg	U
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Thallium	0.0995	mg/kg	U
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Aluminum	255	mg/kg	J+
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Arsenic	1.31	mg/kg	J
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Barium	6.1	mg/kg	None
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Calcium	670	mg/kg	J
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Cadmium	0.459	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Cobalt	0.0789	mg/kg	J
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Chromium	1.86	mg/kg	None
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Copper	1.2	mg/kg	None
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Iron	2240	mg/kg	None
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Potassium	105	mg/kg	None
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Magnesium	125	mg/kg	None
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Manganese	155	mg/kg	None
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Uranium-235	0.0485	pCi/g	U
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Cobalt-60	0.00376	pCi/g	U
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Cesium-134	-0.193	pCi/g	U
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Cesium-137	-0.0174	pCi/g	U
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Europium-152	0.0404	pCi/g	U
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Sodium-22	0.00114	pCi/g	U
21-11295	MD21-01-0238	17.8–18.8	Qbt 3	Ruthenium-106	0.207	pCi/g	U
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Perchlorate	0.0603	mg/kg	U
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Trichlorotrifluoroethane	0.0058	mg/kg	U
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Chloromethane	0.0012	mg/kg	U
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Carbon Disulfide	0.0058	mg/kg	U
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Dichlorobenzene[1,2-]	0.0012	mg/kg	U
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Carbon Tetrachloride	0.0012	mg/kg	U
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Bromomethane	0.0012	mg/kg	U
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Bromoform	0.0012	mg/kg	U
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Butylbenzene[tert-]	0.0012	mg/kg	U
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Butylbenzene[n-]	0.0012	mg/kg	U
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Dichloropropene[trans-1,3-]	0.0012	mg/kg	U
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Acetone	0.0058	mg/kg	U
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Dibromomethane	0.0012	mg/kg	U
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Trimethylbenzene[1,2,4-]	0.0012	mg/kg	U
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Ethylbenzene	0.0012	mg/kg	U
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Chlorodibromomethane	0.0012	mg/kg	U
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Tetrachloroethene	0.0012	mg/kg	U
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Dibromoethane[1,2-]	0.0012	mg/kg	U
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Toluene	0.0012	mg/kg	U
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Trimethylbenzene[1,3,5-]	0.0012	mg/kg	U
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Butylbenzene[sec-]	0.0012	mg/kg	U
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Dichloroethene[trans-1,2-]	0.0012	mg/kg	U
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Butanone[2-]	0.0058	mg/kg	U
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Chlorotoluene[2-]	0.0012	mg/kg	U
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Dibromo-3-Chloropropane[1,2-]	0.0012	mg/kg	U
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Isopropylbenzene	0.0012	mg/kg	U
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Trichloropropane[1,2,3-]	0.0012	mg/kg	U
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Xylene[1,2-]	0.0012	mg/kg	U
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Dichloroethane[1,1-]	0.0012	mg/kg	U
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Dichlorodifluoromethane	0.0012	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Tetrachloroethane[1,1,2,2-]	0.0012	mg/kg	U
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Vinyl Chloride	0.0012	mg/kg	U
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Trichloroethene	0.0012	mg/kg	U
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Dichloropropene[1,1-]	0.0012	mg/kg	U
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Dichloropropane[2,2-]	0.0012	mg/kg	U
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Tetrachloroethane[1,1,1,2-]	0.0012	mg/kg	U
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Benzene	0.0012	mg/kg	U
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Xylene[1,3-]+Xylene[1,4-]	0.0023	mg/kg	U
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Hexanone[2-]	0.0058	mg/kg	U
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Methylene Chloride	0.0058	mg/kg	U
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Chloroform	0.0012	mg/kg	U
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Bromochloromethane	0.0012	mg/kg	U
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Chloroethane	0.0012	mg/kg	U
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Dichloropropane[1,2-]	0.0012	mg/kg	U
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Propylbenzene[1-]	0.0012	mg/kg	U
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Dichloropropane[1,3-]	0.0012	mg/kg	U
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Dichloroethene[cis-1,2-]	0.0012	mg/kg	U
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Methyl-2-pentanone[4-]	0.0058	mg/kg	U
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Chlorobenzene	0.0012	mg/kg	U
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Styrene	0.0012	mg/kg	U
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Bromobenzene	0.0012	mg/kg	U
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Iodomethane	0.0058	mg/kg	U
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Dichloroethene[1,1-]	0.0012	mg/kg	U
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Trichlorofluoromethane	0.0048	mg/kg	None
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Trichloroethane[1,1,2-]	0.0012	mg/kg	U
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Dichloropropene[cis-1,3-]	0.0012	mg/kg	U
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Chlorotoluene[4-]	0.0012	mg/kg	U
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Dichlorobenzene[1,3-]	0.0012	mg/kg	U
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Trichloroethane[1,1,1-]	0.0012	mg/kg	U
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Bromodichloromethane	0.0012	mg/kg	U
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Isopropyltoluene[4-]	0.0012	mg/kg	U
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Dichloroethane[1,2-]	0.0012	mg/kg	U
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Dichlorobenzene[1,4-]	0.0012	mg/kg	U
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Silver	0.203	mg/kg	U
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Beryllium	0.26	mg/kg	None
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Lithium	5.29	mg/kg	None
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Nickel	0.958	mg/kg	None
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Antimony	0.406	mg/kg	U
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Thallium	0.101	mg/kg	U
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Aluminum	1180	mg/kg	J+
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Arsenic	1.36	mg/kg	J
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Barium	8.23	mg/kg	None
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Calcium	1170	mg/kg	J
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Cadmium	0.505	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Cobalt	0.266	mg/kg	J
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Chromium	1.73	mg/kg	None
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Copper	1.55	mg/kg	None
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Iron	2350	mg/kg	None
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Potassium	211	mg/kg	None
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Magnesium	248	mg/kg	None
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Manganese	205	mg/kg	None
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Sodium	115	mg/kg	None
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Lead	0.584	mg/kg	J
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Selenium	0.505	mg/kg	U
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Strontium	0.878	mg/kg	J
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Vanadium	1.44	mg/kg	None
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Zinc	35.5	mg/kg	None
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Mercury	0.0652	mg/kg	J+
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Tritium	-0.00454	pCi/g	U
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Americium-241	0.0162	pCi/g	U
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Cobalt-60	-0.0181	pCi/g	U
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Cesium-134	0.0165	pCi/g	U
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Cesium-137	-0.00578	pCi/g	U
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Europium-152	0.049	pCi/g	U
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Sodium-22	0.0204	pCi/g	U
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Ruthenium-106	-0.0425	pCi/g	U
21-11295	MD21-01-0239	27.8–28.8	Qbt 3	Uranium-235	0.0674	pCi/g	U
21-11296	MD21-01-0431	0–1	ALLH	Cadmium	0.195	mg/kg	J
21-11296	MD21-01-0431	0–1	ALLH	Silver	0.0292	mg/kg	J
21-11296	MD21-01-0431	0–1	ALLH	Arsenic	2.58	mg/kg	None
21-11296	MD21-01-0431	0–1	ALLH	Copper	4.84	mg/kg	None
21-11296	MD21-01-0431	0–1	ALLH	Magnesium	1010	mg/kg	None
21-11296	MD21-01-0431	0–1	ALLH	Sodium	63	mg/kg	None
21-11296	MD21-01-0431	0–1	ALLH	Aluminum	6290	mg/kg	None
21-11296	MD21-01-0431	0–1	ALLH	Barium	53.9	mg/kg	None
21-11296	MD21-01-0431	0–1	ALLH	Thallium	0.0813	mg/kg	J
21-11296	MD21-01-0431	0–1	ALLH	Cobalt	2.07	mg/kg	None
21-11296	MD21-01-0431	0–1	ALLH	Lead	19.4	mg/kg	None
21-11296	MD21-01-0431	0–1	ALLH	Calcium	2030	mg/kg	None
21-11296	MD21-01-0431	0–1	ALLH	Selenium	0.521	mg/kg	U
21-11296	MD21-01-0431	0–1	ALLH	Vanadium	11.1	mg/kg	None
21-11296	MD21-01-0431	0–1	ALLH	Antimony	0.142	mg/kg	U
21-11296	MD21-01-0431	0–1	ALLH	Beryllium	0.325	mg/kg	None
21-11296	MD21-01-0431	0–1	ALLH	Nickel	2.94	mg/kg	None
21-11296	MD21-01-0431	0–1	ALLH	Mercury	0.0405	mg/kg	None
21-11296	MD21-01-0431	0–1	ALLH	Potassium	920	mg/kg	J+
21-11296	MD21-01-0431	0–1	ALLH	Manganese	260	mg/kg	None
21-11296	MD21-01-0431	0–1	ALLH	Strontium	14	mg/kg	None

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11296	MD21-01-0431	0–1	ALLH	Uranium-234	1.17	pCi/g	None
21-11296	MD21-01-0431	0–1	ALLH	Uranium-238	1.25	pCi/g	None
21-11296	MD21-01-0431	0–1	ALLH	Uranium-235	0.0852	pCi/g	None
21-11296	MD21-01-0431	0–1	ALLH	Americium-241	0.059	pCi/g	None
21-11296	MD21-01-0431	0–1	ALLH	Tritium	0.08899	pCi/g	None
21-11296	MD21-01-0431	0–1	ALLH	Plutonium-238	0.0101	pCi/g	U
21-11296	MD21-01-0431	0–1	ALLH	Plutonium-239	0.613	pCi/g	None
21-11296	MD21-01-0431	0–1	ALLH	Thorium-228	1.46	pCi/g	None
21-11296	MD21-01-0431	0–1	ALLH	Thorium-230	1.1	pCi/g	None
21-11296	MD21-01-0431	0–1	ALLH	Thorium-232	1.15	pCi/g	None
21-11296	MD21-01-0431	0–1	ALLH	Iron	8380	mg/kg	None
21-11296	MD21-01-0431	0–1	ALLH	Chromium	4.74	mg/kg	None
21-11296	MD21-01-0431	0–1	ALLH	Zinc	34.7	mg/kg	None
21-11297	MD21-01-0428	0–1	ALLH	Manganese	276	mg/kg	None
21-11297	MD21-01-0428	0–1	ALLH	Magnesium	1140	mg/kg	None
21-11297	MD21-01-0428	0–1	ALLH	Selenium	0.515	mg/kg	U
21-11297	MD21-01-0428	0–1	ALLH	Mercury	0.415	mg/kg	None
21-11297	MD21-01-0428	0–1	ALLH	Cadmium	0.15	mg/kg	J
21-11297	MD21-01-0428	0–1	ALLH	Antimony	0.539	mg/kg	U
21-11297	MD21-01-0428	0–1	ALLH	Beryllium	0.447	mg/kg	None
21-11297	MD21-01-0428	0–1	ALLH	Aluminum	6800	mg/kg	None
21-11297	MD21-01-0428	0–1	ALLH	Calcium	1980	mg/kg	None
21-11297	MD21-01-0428	0–1	ALLH	Copper	5.18	mg/kg	None
21-11297	MD21-01-0428	0–1	ALLH	Thallium	0.0624	mg/kg	J
21-11297	MD21-01-0428	0–1	ALLH	Iron	9310	mg/kg	None
21-11297	MD21-01-0428	0–1	ALLH	Arsenic	2.64	mg/kg	None
21-11297	MD21-01-0428	0–1	ALLH	Vanadium	11.5	mg/kg	None
21-11297	MD21-01-0428	0–1	ALLH	Silver	0.0229	mg/kg	J
21-11297	MD21-01-0428	0–1	ALLH	Lead	22.9	mg/kg	None
21-11297	MD21-01-0428	0–1	ALLH	Strontium	15.5	mg/kg	None
21-11297	MD21-01-0428	0–1	ALLH	Nickel	3.27	mg/kg	None
21-11297	MD21-01-0428	0–1	ALLH	Cobalt	1.95	mg/kg	None
21-11297	MD21-01-0428	0–1	ALLH	Sodium	62.3	mg/kg	None
21-11297	MD21-01-0428	0–1	ALLH	Barium	61.6	mg/kg	J+
21-11297	MD21-01-0428	0–1	ALLH	Potassium	925	mg/kg	J+
21-11297	MD21-01-0428	0–1	ALLH	Zinc	32.4	mg/kg	None
21-11297	MD21-01-0428	0–1	ALLH	Chromium	6.16	mg/kg	None
21-11297	MD21-01-0428	0–1	ALLH	Thorium-228	1.6	pCi/g	None
21-11297	MD21-01-0428	0–1	ALLH	Thorium-230	1.02	pCi/g	None
21-11297	MD21-01-0428	0–1	ALLH	Thorium-232	1.37	pCi/g	None
21-11297	MD21-01-0428	0–1	ALLH	Uranium-235	0.126	pCi/g	None
21-11297	MD21-01-0428	0–1	ALLH	Uranium-234	1.25	pCi/g	None
21-11297	MD21-01-0428	0–1	ALLH	Uranium-238	1.37	pCi/g	None
21-11297	MD21-01-0428	0–1	ALLH	Americium-241	0.103	pCi/g	None

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11297	MD21-01-0428	0–1	ALLH	Tritium	0.072332	pCi/g	None
21-11297	MD21-01-0428	0–1	ALLH	Plutonium-238	0.0137	pCi/g	U
21-11297	MD21-01-0428	0–1	ALLH	Plutonium-239	0.897	pCi/g	None
21-11298	MD21-01-0430	0.08–0.5	ALLH	Chromium	4.95	mg/kg	None
21-11298	MD21-01-0430	0.08–0.5	ALLH	Magnesium	939	mg/kg	None
21-11298	MD21-01-0430	0.08–0.5	ALLH	Manganese	240	mg/kg	None
21-11298	MD21-01-0430	0.08–0.5	ALLH	Strontium	12.8	mg/kg	None
21-11298	MD21-01-0430	0.08–0.5	ALLH	Copper	4.29	mg/kg	None
21-11298	MD21-01-0430	0.08–0.5	ALLH	Calcium	1620	mg/kg	None
21-11298	MD21-01-0430	0.08–0.5	ALLH	Sodium	66.4	mg/kg	None
21-11298	MD21-01-0430	0.08–0.5	ALLH	Iron	8110	mg/kg	None
21-11298	MD21-01-0430	0.08–0.5	ALLH	Selenium	0.502	mg/kg	U
21-11298	MD21-01-0430	0.08–0.5	ALLH	Vanadium	10.5	mg/kg	None
21-11298	MD21-01-0430	0.08–0.5	ALLH	Mercury	0.134	mg/kg	None
21-11298	MD21-01-0430	0.08–0.5	ALLH	Barium	52	mg/kg	J+
21-11298	MD21-01-0430	0.08–0.5	ALLH	Lead	23.1	mg/kg	None
21-11298	MD21-01-0430	0.08–0.5	ALLH	Aluminum	5870	mg/kg	None
21-11298	MD21-01-0430	0.08–0.5	ALLH	Arsenic	2.32	mg/kg	None
21-11298	MD21-01-0430	0.08–0.5	ALLH	Zinc	27.5	mg/kg	None
21-11298	MD21-01-0430	0.08–0.5	ALLH	Beryllium	0.286	mg/kg	None
21-11298	MD21-01-0430	0.08–0.5	ALLH	Thorium-228	1.53	pCi/g	None
21-11298	MD21-01-0430	0.08–0.5	ALLH	Thorium-230	1.04	pCi/g	None
21-11298	MD21-01-0430	0.08–0.5	ALLH	Thorium-232	1.29	pCi/g	None
21-11298	MD21-01-0430	0.08–0.5	ALLH	Thallium	0.06	mg/kg	J
21-11298	MD21-01-0430	0.08–0.5	ALLH	Nickel	2.39	mg/kg	None
21-11298	MD21-01-0430	0.08–0.5	ALLH	Antimony	0.17	mg/kg	U
21-11298	MD21-01-0430	0.08–0.5	ALLH	Potassium	731	mg/kg	J+
21-11298	MD21-01-0430	0.08–0.5	ALLH	Cadmium	0.0987	mg/kg	J
21-11298	MD21-01-0430	0.08–0.5	ALLH	Cobalt	1.58	mg/kg	None
21-11298	MD21-01-0430	0.08–0.5	ALLH	Silver	0.0186	mg/kg	J
21-11298	MD21-01-0430	0.08–0.5	ALLH	Uranium-235	0.11	pCi/g	None
21-11298	MD21-01-0430	0.08–0.5	ALLH	Uranium-234	1.3	pCi/g	None
21-11298	MD21-01-0430	0.08–0.5	ALLH	Uranium-238	1.44	pCi/g	None
21-11298	MD21-01-0430	0.08–0.5	ALLH	Americium-241	0.0806	pCi/g	None
21-11298	MD21-01-0430	0.08–0.5	ALLH	Tritium	0.076239	pCi/g	None
21-11298	MD21-01-0430	0.08–0.5	ALLH	Plutonium-238	0.0152	pCi/g	None
21-11298	MD21-01-0430	0.08–0.5	ALLH	Plutonium-239	0.591	pCi/g	None
21-11298	MD21-01-0433	0.5–1	ALLH	Antimony	0.326	mg/kg	U
21-11298	MD21-01-0433	0.5–1	ALLH	Silver	0.0165	mg/kg	J
21-11298	MD21-01-0433	0.5–1	ALLH	Aluminum	4860	mg/kg	None
21-11298	MD21-01-0433	0.5–1	ALLH	Thallium	0.0475	mg/kg	J
21-11298	MD21-01-0433	0.5–1	ALLH	Lead	9.2	mg/kg	None
21-11298	MD21-01-0433	0.5–1	ALLH	Cadmium	0.0855	mg/kg	J
21-11298	MD21-01-0433	0.5–1	ALLH	Manganese	153	mg/kg	None

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11298	MD21-01-0433	0.5–1	ALLH	Barium	38.4	mg/kg	J+
21-11298	MD21-01-0433	0.5–1	ALLH	Beryllium	0.217	mg/kg	None
21-11298	MD21-01-0433	0.5–1	ALLH	Iron	7130	mg/kg	None
21-11298	MD21-01-0433	0.5–1	ALLH	Potassium	514	mg/kg	J+
21-11298	MD21-01-0433	0.5–1	ALLH	Magnesium	720	mg/kg	None
21-11298	MD21-01-0433	0.5–1	ALLH	Arsenic	1.57	mg/kg	None
21-11298	MD21-01-0433	0.5–1	ALLH	Mercury	0.0601	mg/kg	None
21-11298	MD21-01-0433	0.5–1	ALLH	Copper	3.08	mg/kg	None
21-11298	MD21-01-0433	0.5–1	ALLH	Sodium	69.8	mg/kg	None
21-11298	MD21-01-0433	0.5–1	ALLH	Selenium	0.52	mg/kg	U
21-11298	MD21-01-0433	0.5–1	ALLH	Calcium	1390	mg/kg	None
21-11298	MD21-01-0433	0.5–1	ALLH	Strontium	11	mg/kg	None
21-11298	MD21-01-0433	0.5–1	ALLH	Vanadium	8.04	mg/kg	None
21-11298	MD21-01-0433	0.5–1	ALLH	Zinc	21.7	mg/kg	None
21-11298	MD21-01-0433	0.5–1	ALLH	Cobalt	1.03	mg/kg	None
21-11298	MD21-01-0433	0.5–1	ALLH	Chromium	3.51	mg/kg	None
21-11298	MD21-01-0433	0.5–1	ALLH	Nickel	1.87	mg/kg	None
21-11298	MD21-01-0433	0.5–1	ALLH	Uranium-238	0.927	pCi/g	None
21-11298	MD21-01-0433	0.5–1	ALLH	Uranium-234	0.942	pCi/g	None
21-11298	MD21-01-0433	0.5–1	ALLH	Uranium-235	0.0255	pCi/g	U
21-11298	MD21-01-0433	0.5–1	ALLH	Americium-241	0.127	pCi/g	None
21-11298	MD21-01-0433	0.5–1	ALLH	Tritium	0.052869	pCi/g	None
21-11298	MD21-01-0433	0.5–1	ALLH	Plutonium-238	0.0245	pCi/g	None
21-11298	MD21-01-0433	0.5–1	ALLH	Plutonium-239	0.992	pCi/g	None
21-11298	MD21-01-0433	0.5–1	ALLH	Thorium-228	1.4	pCi/g	None
21-11298	MD21-01-0433	0.5–1	ALLH	Thorium-230	0.0972	pCi/g	U
21-11298	MD21-01-0433	0.5–1	ALLH	Thorium-232	1.39	pCi/g	None
21-11429	MD21-02-0001	0.75–1.5	ALLH	Nickel	2.5	mg/kg	J-
21-11429	MD21-02-0001	0.75–1.5	ALLH	Cobalt	1.7	mg/kg	None
21-11429	MD21-02-0001	0.75–1.5	ALLH	Iron	5460	mg/kg	None
21-11429	MD21-02-0001	0.75–1.5	ALLH	Cadmium	0.051	mg/kg	J
21-11429	MD21-02-0001	0.75–1.5	ALLH	Potassium	550	mg/kg	None
21-11429	MD21-02-0001	0.75–1.5	ALLH	Aluminum	3950	mg/kg	None
21-11429	MD21-02-0001	0.75–1.5	ALLH	Antimony	0.091	mg/kg	U
21-11429	MD21-02-0001	0.75–1.5	ALLH	Copper	2.2	mg/kg	J-
21-11429	MD21-02-0001	0.75–1.5	ALLH	Thallium	0.043	mg/kg	U
21-11429	MD21-02-0001	0.75–1.5	ALLH	Zinc	22.5	mg/kg	None
21-11429	MD21-02-0001	0.75–1.5	ALLH	Arsenic	0.69	mg/kg	None
21-11429	MD21-02-0001	0.75–1.5	ALLH	Barium	34.7	mg/kg	None
21-11429	MD21-02-0001	0.75–1.5	ALLH	Beryllium	0.22	mg/kg	J-
21-11429	MD21-02-0001	0.75–1.5	ALLH	Lead	6.1	mg/kg	None
21-11429	MD21-02-0001	0.75–1.5	ALLH	Manganese	157	mg/kg	None
21-11429	MD21-02-0001	0.75–1.5	ALLH	Silver	0.073	mg/kg	U
21-11429	MD21-02-0001	0.75–1.5	ALLH	Calcium	1210	mg/kg	None

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11429	MD21-02-0001	0.75–1.5	ALLH	Chromium	3.6	mg/kg	U
21-11429	MD21-02-0001	0.75–1.5	ALLH	Magnesium	786	mg/kg	None
21-11429	MD21-02-0001	0.75–1.5	ALLH	Mercury	0.034	mg/kg	U
21-11429	MD21-02-0001	0.75–1.5	ALLH	Sodium	125	mg/kg	U
21-11429	MD21-02-0001	0.75–1.5	ALLH	Vanadium	6.9	mg/kg	None
21-11429	MD21-02-0001	0.75–1.5	ALLH	Lithium	4	mg/kg	U
21-11429	MD21-02-0001	0.75–1.5	ALLH	Strontium	9.5	mg/kg	None
21-11429	MD21-02-0001	0.75–1.5	ALLH	Selenium	0.096	mg/kg	U
21-11429	MD21-02-0001	0.75–1.5	ALLH	Americium-241	0.027	pCi/g	U
21-11429	MD21-02-0001	0.75–1.5	ALLH	Plutonium-238	0.014	pCi/g	U
21-11429	MD21-02-0001	0.75–1.5	ALLH	Plutonium-239	0.086	pCi/g	U
21-11429	MD21-02-0001	0.75–1.5	ALLH	Thorium-228	1.15	pCi/g	None
21-11429	MD21-02-0001	0.75–1.5	ALLH	Thorium-230	0.99	pCi/g	None
21-11429	MD21-02-0001	0.75–1.5	ALLH	Thorium-232	1.01	pCi/g	None
21-11429	MD21-02-0001	0.75–1.5	ALLH	Uranium-234	0.66	pCi/g	None
21-11429	MD21-02-0001	0.75–1.5	ALLH	Uranium-235	0.043	pCi/g	U
21-11429	MD21-02-0001	0.75–1.5	ALLH	Uranium-238	0.57	pCi/g	None
21-11429	MD21-02-0001	0.75–1.5	ALLH	Tritium	-0.08	pCi/g	U
21-11430	MD21-02-0002	0.58–0.92	ALLH	Barium	56.6	mg/kg	None
21-11430	MD21-02-0002	0.58–0.92	ALLH	Beryllium	0.36	mg/kg	J-
21-11430	MD21-02-0002	0.58–0.92	ALLH	Cadmium	0.073	mg/kg	J
21-11430	MD21-02-0002	0.58–0.92	ALLH	Calcium	2040	mg/kg	None
21-11430	MD21-02-0002	0.58–0.92	ALLH	Magnesium	1180	mg/kg	None
21-11430	MD21-02-0002	0.58–0.92	ALLH	Sodium	132	mg/kg	U
21-11430	MD21-02-0002	0.58–0.92	ALLH	Thallium	0.06	mg/kg	U
21-11430	MD21-02-0002	0.58–0.92	ALLH	Aluminum	5570	mg/kg	None
21-11430	MD21-02-0002	0.58–0.92	ALLH	Antimony	0.13	mg/kg	U
21-11430	MD21-02-0002	0.58–0.92	ALLH	Copper	3.1	mg/kg	J-
21-11430	MD21-02-0002	0.58–0.92	ALLH	Lead	11.6	mg/kg	None
21-11430	MD21-02-0002	0.58–0.92	ALLH	Manganese	226	mg/kg	None
21-11430	MD21-02-0002	0.58–0.92	ALLH	Mercury	0.035	mg/kg	U
21-11430	MD21-02-0002	0.58–0.92	ALLH	Potassium	640	mg/kg	None
21-11430	MD21-02-0002	0.58–0.92	ALLH	Vanadium	8.7	mg/kg	None
21-11430	MD21-02-0002	0.58–0.92	ALLH	Zinc	22.1	mg/kg	None
21-11430	MD21-02-0002	0.58–0.92	ALLH	Arsenic	1.2	mg/kg	None
21-11430	MD21-02-0002	0.58–0.92	ALLH	Chromium	4.8	mg/kg	U
21-11430	MD21-02-0002	0.58–0.92	ALLH	Iron	7500	mg/kg	None
21-11430	MD21-02-0002	0.58–0.92	ALLH	Nickel	3.7	mg/kg	J-
21-11430	MD21-02-0002	0.58–0.92	ALLH	Silver	0.11	mg/kg	U
21-11430	MD21-02-0002	0.58–0.92	ALLH	Cobalt	2.6	mg/kg	None
21-11430	MD21-02-0002	0.58–0.92	ALLH	Lithium	7	mg/kg	U
21-11430	MD21-02-0002	0.58–0.92	ALLH	Strontium	13.1	mg/kg	None
21-11430	MD21-02-0002	0.58–0.92	ALLH	Selenium	0.14	mg/kg	J
21-11430	MD21-02-0002	0.58–0.92	ALLH	Americium-241	0.038	pCi/g	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11430	MD21-02-0002	0.58–0.92	ALLH	Plutonium-238	0.0032	pCi/g	U
21-11430	MD21-02-0002	0.58–0.92	ALLH	Plutonium-239	0.23	pCi/g	J-
21-11430	MD21-02-0002	0.58–0.92	ALLH	Thorium-228	1.04	pCi/g	None
21-11430	MD21-02-0002	0.58–0.92	ALLH	Thorium-230	0.76	pCi/g	U
21-11430	MD21-02-0002	0.58–0.92	ALLH	Thorium-232	0.93	pCi/g	None
21-11430	MD21-02-0002	0.58–0.92	ALLH	Uranium-234	0.67	pCi/g	None
21-11430	MD21-02-0002	0.58–0.92	ALLH	Uranium-235	0.058	pCi/g	U
21-11430	MD21-02-0002	0.58–0.92	ALLH	Uranium-238	0.66	pCi/g	None
21-11430	MD21-02-0002	0.58–0.92	ALLH	Tritium	0.06	pCi/g	U
21-11431	MD21-02-0003	0.5–0.92	ALLH	Cadmium	0.11	mg/kg	J
21-11431	MD21-02-0003	0.5–0.92	ALLH	Chromium	10	mg/kg	None
21-11431	MD21-02-0003	0.5–0.92	ALLH	Vanadium	25.4	mg/kg	None
21-11431	MD21-02-0003	0.5–0.92	ALLH	Lead	15.1	mg/kg	None
21-11431	MD21-02-0003	0.5–0.92	ALLH	Silver	0.2	mg/kg	U
21-11431	MD21-02-0003	0.5–0.92	ALLH	Iron	16100	mg/kg	None
21-11431	MD21-02-0003	0.5–0.92	ALLH	Potassium	1870	mg/kg	None
21-11431	MD21-02-0003	0.5–0.92	ALLH	Cobalt	4.9	mg/kg	None
21-11431	MD21-02-0003	0.5–0.92	ALLH	Mercury	0.017	mg/kg	J
21-11431	MD21-02-0003	0.5–0.92	ALLH	Aluminum	21800	mg/kg	None
21-11431	MD21-02-0003	0.5–0.92	ALLH	Beryllium	0.82	mg/kg	J-
21-11431	MD21-02-0003	0.5–0.92	ALLH	Calcium	2810	mg/kg	None
21-11431	MD21-02-0003	0.5–0.92	ALLH	Nickel	7.6	mg/kg	J-
21-11431	MD21-02-0003	0.5–0.92	ALLH	Zinc	32.1	mg/kg	None
21-11431	MD21-02-0003	0.5–0.92	ALLH	Antimony	0.13	mg/kg	U
21-11431	MD21-02-0003	0.5–0.92	ALLH	Arsenic	2	mg/kg	None
21-11431	MD21-02-0003	0.5–0.92	ALLH	Barium	201	mg/kg	None
21-11431	MD21-02-0003	0.5–0.92	ALLH	Copper	6.9	mg/kg	J-
21-11431	MD21-02-0003	0.5–0.92	ALLH	Magnesium	2770	mg/kg	None
21-11431	MD21-02-0003	0.5–0.92	ALLH	Manganese	365	mg/kg	None
21-11431	MD21-02-0003	0.5–0.92	ALLH	Sodium	192	mg/kg	J
21-11431	MD21-02-0003	0.5–0.92	ALLH	Thallium	0.19	mg/kg	U
21-11431	MD21-02-0003	0.5–0.92	ALLH	Lithium	18.3	mg/kg	None
21-11431	MD21-02-0003	0.5–0.92	ALLH	Strontium	28.4	mg/kg	None
21-11431	MD21-02-0003	0.5–0.92	ALLH	Selenium	0.1	mg/kg	U
21-11431	MD21-02-0003	0.5–0.92	ALLH	Americium-241	0.023	pCi/g	U
21-11431	MD21-02-0003	0.5–0.92	ALLH	Plutonium-238	0.0109	pCi/g	U
21-11431	MD21-02-0003	0.5–0.92	ALLH	Plutonium-239	0.011	pCi/g	U
21-11431	MD21-02-0003	0.5–0.92	ALLH	Thorium-228	2.11	pCi/g	None
21-11431	MD21-02-0003	0.5–0.92	ALLH	Thorium-230	1.47	pCi/g	None
21-11431	MD21-02-0003	0.5–0.92	ALLH	Thorium-232	1.71	pCi/g	None
21-11431	MD21-02-0003	0.5–0.92	ALLH	Uranium-234	1.21	pCi/g	None
21-11431	MD21-02-0003	0.5–0.92	ALLH	Uranium-235	0.153	pCi/g	U
21-11431	MD21-02-0003	0.5–0.92	ALLH	Uranium-238	1.36	pCi/g	None
21-11431	MD21-02-0003	0.5–0.92	ALLH	Tritium	0.14	pCi/g	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11432	MD21-02-0004	0.5–0.92	ALLH	Potassium	1690	mg/kg	None
21-11432	MD21-02-0004	0.5–0.92	ALLH	Silver	0.22	mg/kg	J
21-11432	MD21-02-0004	0.5–0.92	ALLH	Antimony	0.12	mg/kg	U
21-11432	MD21-02-0004	0.5–0.92	ALLH	Zinc	34.1	mg/kg	None
21-11432	MD21-02-0004	0.5–0.92	ALLH	Aluminum	22100	mg/kg	None
21-11432	MD21-02-0004	0.5–0.92	ALLH	Beryllium	0.74	mg/kg	J-
21-11432	MD21-02-0004	0.5–0.92	ALLH	Copper	7.2	mg/kg	J-
21-11432	MD21-02-0004	0.5–0.92	ALLH	Lead	16	mg/kg	None
21-11432	MD21-02-0004	0.5–0.92	ALLH	Manganese	356	mg/kg	None
21-11432	MD21-02-0004	0.5–0.92	ALLH	Mercury	0.018	mg/kg	J
21-11432	MD21-02-0004	0.5–0.92	ALLH	Calcium	3060	mg/kg	None
21-11432	MD21-02-0004	0.5–0.92	ALLH	Magnesium	2830	mg/kg	None
21-11432	MD21-02-0004	0.5–0.92	ALLH	Nickel	7.9	mg/kg	J-
21-11432	MD21-02-0004	0.5–0.92	ALLH	Thallium	0.17	mg/kg	U
21-11432	MD21-02-0004	0.5–0.92	ALLH	Arsenic	2.1	mg/kg	None
21-11432	MD21-02-0004	0.5–0.92	ALLH	Chromium	10.6	mg/kg	None
21-11432	MD21-02-0004	0.5–0.92	ALLH	Iron	16700	mg/kg	None
21-11432	MD21-02-0004	0.5–0.92	ALLH	Sodium	177	mg/kg	U
21-11432	MD21-02-0004	0.5–0.92	ALLH	Barium	233	mg/kg	None
21-11432	MD21-02-0004	0.5–0.92	ALLH	Cadmium	0.12	mg/kg	J
21-11432	MD21-02-0004	0.5–0.92	ALLH	Cobalt	5.1	mg/kg	None
21-11432	MD21-02-0004	0.5–0.92	ALLH	Vanadium	25.5	mg/kg	None
21-11432	MD21-02-0004	0.5–0.92	ALLH	Lithium	19.4	mg/kg	None
21-11432	MD21-02-0004	0.5–0.92	ALLH	Strontium	29.9	mg/kg	None
21-11432	MD21-02-0004	0.5–0.92	ALLH	Selenium	0.1	mg/kg	U
21-11432	MD21-02-0004	0.5–0.92	ALLH	Americium-241	0.027	pCi/g	U
21-11432	MD21-02-0004	0.5–0.92	ALLH	Plutonium-238	-0.003	pCi/g	U
21-11432	MD21-02-0004	0.5–0.92	ALLH	Plutonium-239	0.025	pCi/g	U
21-11432	MD21-02-0004	0.5–0.92	ALLH	Thorium-228	1.48	pCi/g	None
21-11432	MD21-02-0004	0.5–0.92	ALLH	Thorium-230	1.45	pCi/g	None
21-11432	MD21-02-0004	0.5–0.92	ALLH	Thorium-232	1.57	pCi/g	None
21-11432	MD21-02-0004	0.5–0.92	ALLH	Uranium-234	1.1	pCi/g	None
21-11432	MD21-02-0004	0.5–0.92	ALLH	Uranium-235	0.138	pCi/g	U
21-11432	MD21-02-0004	0.5–0.92	ALLH	Uranium-238	1.28	pCi/g	None
21-11432	MD21-02-0004	0.5–0.92	ALLH	Tritium	0.14	pCi/g	U
21-11433	MD21-02-0005	0.5–0.92	ALLH	Americium-241	0.032	pCi/g	U
21-11433	MD21-02-0005	0.5–0.92	ALLH	Plutonium-238	-0.009	pCi/g	U
21-11433	MD21-02-0005	0.5–0.92	ALLH	Plutonium-239	0.237	pCi/g	J-
21-11433	MD21-02-0005	0.5–0.92	ALLH	Uranium-234	0.9	pCi/g	None
21-11433	MD21-02-0005	0.5–0.92	ALLH	Uranium-235	0.106	pCi/g	U
21-11433	MD21-02-0005	0.5–0.92	ALLH	Uranium-238	0.79	pCi/g	None
21-11433	MD21-02-0005	0.5–0.92	ALLH	Tritium	0.07	pCi/g	U
21-11433	MD21-02-0005	0.5–0.92	ALLH	Thorium-230	1.09	pCi/g	None
21-11433	MD21-02-0005	0.5–0.92	ALLH	Thorium-232	1.28	pCi/g	None

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11433	MD21-02-0005	0.5–0.92	ALLH	Thorium-228	1.32	pCi/g	None
21-11433	MD21-02-0005	0.5–0.92	ALLH	Aluminum	5330	mg/kg	None
21-11433	MD21-02-0005	0.5–0.92	ALLH	Antimony	0.2	mg/kg	U
21-11433	MD21-02-0005	0.5–0.92	ALLH	Arsenic	0.92	mg/kg	None
21-11433	MD21-02-0005	0.5–0.92	ALLH	Barium	55.5	mg/kg	None
21-11433	MD21-02-0005	0.5–0.92	ALLH	Beryllium	0.32	mg/kg	J-
21-11433	MD21-02-0005	0.5–0.92	ALLH	Cadmium	0.11	mg/kg	J
21-11433	MD21-02-0005	0.5–0.92	ALLH	Calcium	1100	mg/kg	None
21-11433	MD21-02-0005	0.5–0.92	ALLH	Chromium	5.3	mg/kg	U
21-11433	MD21-02-0005	0.5–0.92	ALLH	Cobalt	3	mg/kg	J-
21-11433	MD21-02-0005	0.5–0.92	ALLH	Copper	3.2	mg/kg	J-
21-11433	MD21-02-0005	0.5–0.92	ALLH	Iron	7590	mg/kg	None
21-11433	MD21-02-0005	0.5–0.92	ALLH	Lead	9	mg/kg	None
21-11433	MD21-02-0005	0.5–0.92	ALLH	Lithium	7.3	mg/kg	U
21-11433	MD21-02-0005	0.5–0.92	ALLH	Magnesium	983	mg/kg	None
21-11433	MD21-02-0005	0.5–0.92	ALLH	Manganese	254	mg/kg	None
21-11433	MD21-02-0005	0.5–0.92	ALLH	Mercury	0.035	mg/kg	U
21-11433	MD21-02-0005	0.5–0.92	ALLH	Nickel	3.4	mg/kg	J-
21-11433	MD21-02-0005	0.5–0.92	ALLH	Potassium	671	mg/kg	None
21-11433	MD21-02-0005	0.5–0.92	ALLH	Selenium	0.21	mg/kg	U
21-11433	MD21-02-0005	0.5–0.92	ALLH	Silver	0.17	mg/kg	U
21-11433	MD21-02-0005	0.5–0.92	ALLH	Sodium	71.7	mg/kg	U
21-11433	MD21-02-0005	0.5–0.92	ALLH	Strontium	10.7	mg/kg	None
21-11433	MD21-02-0005	0.5–0.92	ALLH	Thallium	0.47	mg/kg	J
21-11433	MD21-02-0005	0.5–0.92	ALLH	Vanadium	11.3	mg/kg	None
21-11433	MD21-02-0005	0.5–0.92	ALLH	Zinc	20.4	mg/kg	None
21-11434	MD21-02-0006	0.75–0.92	ALLH	Americium-241	0.04	pCi/g	U
21-11434	MD21-02-0006	0.75–0.92	ALLH	Plutonium-238	7E-07	pCi/g	U
21-11434	MD21-02-0006	0.75–0.92	ALLH	Plutonium-239	0.169	pCi/g	J-
21-11434	MD21-02-0006	0.75–0.92	ALLH	Uranium-234	0.93	pCi/g	None
21-11434	MD21-02-0006	0.75–0.92	ALLH	Uranium-235	0.094	pCi/g	U
21-11434	MD21-02-0006	0.75–0.92	ALLH	Uranium-238	0.78	pCi/g	None
21-11434	MD21-02-0006	0.75–0.92	ALLH	Tritium	0.06	pCi/g	U
21-11434	MD21-02-0006	0.75–0.92	ALLH	Thorium-230	0.99	pCi/g	None
21-11434	MD21-02-0006	0.75–0.92	ALLH	Thorium-228	1.15	pCi/g	None
21-11434	MD21-02-0006	0.75–0.92	ALLH	Thorium-232	0.98	pCi/g	None
21-11434	MD21-02-0006	0.75–0.92	ALLH	Aluminum	6050	mg/kg	None
21-11434	MD21-02-0006	0.75–0.92	ALLH	Antimony	0.13	mg/kg	U
21-11434	MD21-02-0006	0.75–0.92	ALLH	Arsenic	1.4	mg/kg	None
21-11434	MD21-02-0006	0.75–0.92	ALLH	Barium	78.9	mg/kg	None
21-11434	MD21-02-0006	0.75–0.92	ALLH	Beryllium	0.34	mg/kg	J-
21-11434	MD21-02-0006	0.75–0.92	ALLH	Cadmium	0.091	mg/kg	J
21-11434	MD21-02-0006	0.75–0.92	ALLH	Calcium	1590	mg/kg	None
21-11434	MD21-02-0006	0.75–0.92	ALLH	Chromium	5.8	mg/kg	None

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11434	MD21-02-0006	0.75–0.92	ALLH	Cobalt	4.5	mg/kg	J-
21-11434	MD21-02-0006	0.75–0.92	ALLH	Copper	3.4	mg/kg	J-
21-11434	MD21-02-0006	0.75–0.92	ALLH	Iron	9050	mg/kg	None
21-11434	MD21-02-0006	0.75–0.92	ALLH	Lead	14.2	mg/kg	None
21-11434	MD21-02-0006	0.75–0.92	ALLH	Lithium	10.5	mg/kg	None
21-11434	MD21-02-0006	0.75–0.92	ALLH	Magnesium	1330	mg/kg	None
21-11434	MD21-02-0006	0.75–0.92	ALLH	Manganese	359	mg/kg	None
21-11434	MD21-02-0006	0.75–0.92	ALLH	Mercury	0.034	mg/kg	U
21-11434	MD21-02-0006	0.75–0.92	ALLH	Nickel	4	mg/kg	J-
21-11434	MD21-02-0006	0.75–0.92	ALLH	Potassium	930	mg/kg	None
21-11434	MD21-02-0006	0.75–0.92	ALLH	Selenium	0.21	mg/kg	U
21-11434	MD21-02-0006	0.75–0.92	ALLH	Silver	0.11	mg/kg	U
21-11434	MD21-02-0006	0.75–0.92	ALLH	Sodium	94.3	mg/kg	U
21-11434	MD21-02-0006	0.75–0.92	ALLH	Strontium	15.8	mg/kg	None
21-11434	MD21-02-0006	0.75–0.92	ALLH	Thallium	0.13	mg/kg	U
21-11434	MD21-02-0006	0.75–0.92	ALLH	Vanadium	14.9	mg/kg	None
21-11434	MD21-02-0006	0.75–0.92	ALLH	Zinc	22.2	mg/kg	None
21-11435	MD21-02-0007	0.58–0.83	ALLH	Americium-241	0.021	pCi/g	U
21-11435	MD21-02-0007	0.58–0.83	ALLH	Plutonium-238	0.0034	pCi/g	U
21-11435	MD21-02-0007	0.58–0.83	ALLH	Uranium-235	0.11	pCi/g	U
21-11435	MD21-02-0007	0.58–0.83	ALLH	Tritium	0.06	pCi/g	U
21-11435	MD21-02-0007	0.58–0.83	ALLH	Thorium-228	2.84	pCi/g	None
21-11435	MD21-02-0007	0.58–0.83	ALLH	Thorium-230	1.4	pCi/g	None
21-11435	MD21-02-0007	0.58–0.83	ALLH	Thorium-232	1.34	pCi/g	None
21-11435	MD21-02-0007	0.58–0.83	ALLH	Aluminum	10200	mg/kg	None
21-11435	MD21-02-0007	0.58–0.83	ALLH	Antimony	0.15	mg/kg	U
21-11435	MD21-02-0007	0.58–0.83	ALLH	Arsenic	1.7	mg/kg	None
21-11435	MD21-02-0007	0.58–0.83	ALLH	Barium	107	mg/kg	None
21-11435	MD21-02-0007	0.58–0.83	ALLH	Beryllium	0.53	mg/kg	J-
21-11435	MD21-02-0007	0.58–0.83	ALLH	Cadmium	0.077	mg/kg	J
21-11435	MD21-02-0007	0.58–0.83	ALLH	Calcium	2200	mg/kg	None
21-11435	MD21-02-0007	0.58–0.83	ALLH	Chromium	7.6	mg/kg	None
21-11435	MD21-02-0007	0.58–0.83	ALLH	Cobalt	4.3	mg/kg	J-
21-11435	MD21-02-0007	0.58–0.83	ALLH	Copper	5.2	mg/kg	J-
21-11435	MD21-02-0007	0.58–0.83	ALLH	Iron	12000	mg/kg	None
21-11435	MD21-02-0007	0.58–0.83	ALLH	Lead	11.7	mg/kg	None
21-11435	MD21-02-0007	0.58–0.83	ALLH	Uranium-238	1.03	pCi/g	None
21-11435	MD21-02-0007	0.58–0.83	ALLH	Magnesium	1990	mg/kg	None
21-11435	MD21-02-0007	0.58–0.83	ALLH	Manganese	274	mg/kg	None
21-11435	MD21-02-0007	0.58–0.83	ALLH	Mercury	0.036	mg/kg	U
21-11435	MD21-02-0007	0.58–0.83	ALLH	Nickel	5.7	mg/kg	J-
21-11435	MD21-02-0007	0.58–0.83	ALLH	Potassium	1480	mg/kg	None
21-11435	MD21-02-0007	0.58–0.83	ALLH	Selenium	0.21	mg/kg	U
21-11435	MD21-02-0007	0.58–0.83	ALLH	Silver	0.14	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11435	MD21-02-0007	0.58–0.83	ALLH	Sodium	111	mg/kg	U
21-11435	MD21-02-0007	0.58–0.83	ALLH	Strontium	21.7	mg/kg	None
21-11435	MD21-02-0007	0.58–0.83	ALLH	Thallium	0.15	mg/kg	U
21-11435	MD21-02-0007	0.58–0.83	ALLH	Vanadium	19.3	mg/kg	None
21-11435	MD21-02-0007	0.58–0.83	ALLH	Zinc	27.7	mg/kg	None
21-11435	MD21-02-0007	0.58–0.83	ALLH	Lithium	13.4	mg/kg	None
21-11435	MD21-02-0007	0.58–0.83	ALLH	Plutonium-239	0.034	pCi/g	U
21-11435	MD21-02-0007	0.58–0.83	ALLH	Uranium-234	0.94	pCi/g	None
21-11435	MD21-02-0008	0.58–0.83	ALLH	Americium-241	0.04	pCi/g	U
21-11435	MD21-02-0008	0.58–0.83	ALLH	Plutonium-238	-0.011	pCi/g	U
21-11435	MD21-02-0008	0.58–0.83	ALLH	Plutonium-239	0.043	pCi/g	U
21-11435	MD21-02-0008	0.58–0.83	ALLH	Uranium-234	0.98	pCi/g	None
21-11435	MD21-02-0008	0.58–0.83	ALLH	Uranium-235	0.115	pCi/g	U
21-11435	MD21-02-0008	0.58–0.83	ALLH	Uranium-238	0.73	pCi/g	None
21-11435	MD21-02-0008	0.58–0.83	ALLH	Tritium	0.05	pCi/g	U
21-11435	MD21-02-0008	0.58–0.83	ALLH	Thorium-228	1.51	pCi/g	None
21-11435	MD21-02-0008	0.58–0.83	ALLH	Thorium-230	1.16	pCi/g	None
21-11435	MD21-02-0008	0.58–0.83	ALLH	Thorium-232	1.24	pCi/g	None
21-11435	MD21-02-0008	0.58–0.83	ALLH	Antimony	0.12	mg/kg	U
21-11435	MD21-02-0008	0.58–0.83	ALLH	Arsenic	1.6	mg/kg	None
21-11435	MD21-02-0008	0.58–0.83	ALLH	Barium	111	mg/kg	None
21-11435	MD21-02-0008	0.58–0.83	ALLH	Beryllium	0.55	mg/kg	J-
21-11435	MD21-02-0008	0.58–0.83	ALLH	Cadmium	0.076	mg/kg	J
21-11435	MD21-02-0008	0.58–0.83	ALLH	Calcium	2320	mg/kg	None
21-11435	MD21-02-0008	0.58–0.83	ALLH	Chromium	7.7	mg/kg	None
21-11435	MD21-02-0008	0.58–0.83	ALLH	Cobalt	4.1	mg/kg	J-
21-11435	MD21-02-0008	0.58–0.83	ALLH	Copper	5.1	mg/kg	J-
21-11435	MD21-02-0008	0.58–0.83	ALLH	Iron	12000	mg/kg	None
21-11435	MD21-02-0008	0.58–0.83	ALLH	Lead	11.8	mg/kg	None
21-11435	MD21-02-0008	0.58–0.83	ALLH	Lithium	13.5	mg/kg	None
21-11435	MD21-02-0008	0.58–0.83	ALLH	Magnesium	1930	mg/kg	None
21-11435	MD21-02-0008	0.58–0.83	ALLH	Manganese	282	mg/kg	None
21-11435	MD21-02-0008	0.58–0.83	ALLH	Mercury	0.036	mg/kg	U
21-11435	MD21-02-0008	0.58–0.83	ALLH	Nickel	5.7	mg/kg	J-
21-11435	MD21-02-0008	0.58–0.83	ALLH	Potassium	1480	mg/kg	None
21-11435	MD21-02-0008	0.58–0.83	ALLH	Selenium	0.21	mg/kg	U
21-11435	MD21-02-0008	0.58–0.83	ALLH	Silver	0.14	mg/kg	U
21-11435	MD21-02-0008	0.58–0.83	ALLH	Sodium	118	mg/kg	U
21-11435	MD21-02-0008	0.58–0.83	ALLH	Strontium	22.6	mg/kg	None
21-11435	MD21-02-0008	0.58–0.83	ALLH	Thallium	0.14	mg/kg	U
21-11435	MD21-02-0008	0.58–0.83	ALLH	Vanadium	20.7	mg/kg	None
21-11435	MD21-02-0008	0.58–0.83	ALLH	Zinc	28.2	mg/kg	None
21-11435	MD21-02-0008	0.58–0.83	ALLH	Aluminum	9720	mg/kg	None
21-11436	MD21-02-0009	0.75–1	ALLH	Americium-241	0.02	pCi/g	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11436	MD21-02-0009	0.75–1	ALLH	Plutonium-238	0.003	pCi/g	U
21-11436	MD21-02-0009	0.75–1	ALLH	Plutonium-239	0.049	pCi/g	U
21-11436	MD21-02-0009	0.75–1	ALLH	Uranium-234	0.99	pCi/g	None
21-11436	MD21-02-0009	0.75–1	ALLH	Uranium-235	0.078	pCi/g	U
21-11436	MD21-02-0009	0.75–1	ALLH	Uranium-238	0.87	pCi/g	None
21-11436	MD21-02-0009	0.75–1	ALLH	Tritium	0.11	pCi/g	U
21-11436	MD21-02-0009	0.75–1	ALLH	Thorium-228	1.33	pCi/g	None
21-11436	MD21-02-0009	0.75–1	ALLH	Thorium-230	0.95	pCi/g	None
21-11436	MD21-02-0009	0.75–1	ALLH	Thorium-232	1.05	pCi/g	None
21-11436	MD21-02-0009	0.75–1	ALLH	Aluminum	5860	mg/kg	None
21-11436	MD21-02-0009	0.75–1	ALLH	Antimony	0.11	mg/kg	U
21-11436	MD21-02-0009	0.75–1	ALLH	Arsenic	1.1	mg/kg	None
21-11436	MD21-02-0009	0.75–1	ALLH	Barium	77.1	mg/kg	None
21-11436	MD21-02-0009	0.75–1	ALLH	Beryllium	0.35	mg/kg	J-
21-11436	MD21-02-0009	0.75–1	ALLH	Cadmium	0.064	mg/kg	J
21-11436	MD21-02-0009	0.75–1	ALLH	Calcium	1440	mg/kg	None
21-11436	MD21-02-0009	0.75–1	ALLH	Chromium	5.6	mg/kg	None
21-11436	MD21-02-0009	0.75–1	ALLH	Cobalt	3.5	mg/kg	J-
21-11436	MD21-02-0009	0.75–1	ALLH	Copper	3.7	mg/kg	J-
21-11436	MD21-02-0009	0.75–1	ALLH	Iron	8360	mg/kg	None
21-11436	MD21-02-0009	0.75–1	ALLH	Lead	9.9	mg/kg	None
21-11436	MD21-02-0009	0.75–1	ALLH	Lithium	8.9	mg/kg	None
21-11436	MD21-02-0009	0.75–1	ALLH	Magnesium	1220	mg/kg	None
21-11436	MD21-02-0009	0.75–1	ALLH	Manganese	264	mg/kg	None
21-11436	MD21-02-0009	0.75–1	ALLH	Mercury	0.035	mg/kg	U
21-11436	MD21-02-0009	0.75–1	ALLH	Nickel	4.1	mg/kg	J-
21-11436	MD21-02-0009	0.75–1	ALLH	Potassium	787	mg/kg	None
21-11436	MD21-02-0009	0.75–1	ALLH	Selenium	0.21	mg/kg	U
21-11436	MD21-02-0009	0.75–1	ALLH	Silver	0.098	mg/kg	U
21-11436	MD21-02-0009	0.75–1	ALLH	Sodium	120	mg/kg	U
21-11436	MD21-02-0009	0.75–1	ALLH	Strontium	14.2	mg/kg	None
21-11436	MD21-02-0009	0.75–1	ALLH	Thallium	0.095	mg/kg	U
21-11436	MD21-02-0009	0.75–1	ALLH	Vanadium	14.2	mg/kg	None
21-11436	MD21-02-0009	0.75–1	ALLH	Zinc	21.7	mg/kg	None
21-11437	MD21-02-0010	0.33–0.66	ALLH	Americium-241	0.024	pCi/g	U
21-11437	MD21-02-0010	0.33–0.66	ALLH	Plutonium-238	-0.005	pCi/g	U
21-11437	MD21-02-0010	0.33–0.66	ALLH	Plutonium-239	0.07	pCi/g	U
21-11437	MD21-02-0010	0.33–0.66	ALLH	Uranium-234	0.86	pCi/g	None
21-11437	MD21-02-0010	0.33–0.66	ALLH	Uranium-235	0.089	pCi/g	U
21-11437	MD21-02-0010	0.33–0.66	ALLH	Uranium-238	0.89	pCi/g	None
21-11437	MD21-02-0010	0.33–0.66	ALLH	Tritium	0.11	pCi/g	U
21-11437	MD21-02-0010	0.33–0.66	ALLH	Thorium-228	1.22	pCi/g	None
21-11437	MD21-02-0010	0.33–0.66	ALLH	Thorium-230	0.93	pCi/g	None
21-11437	MD21-02-0010	0.33–0.66	ALLH	Thorium-232	1.09	pCi/g	None

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11437	MD21-02-0010	0.33–0.66	ALLH	Aluminum	5680	mg/kg	None
21-11437	MD21-02-0010	0.33–0.66	ALLH	Antimony	0.11	mg/kg	U
21-11437	MD21-02-0010	0.33–0.66	ALLH	Arsenic	0.93	mg/kg	None
21-11437	MD21-02-0010	0.33–0.66	ALLH	Barium	67.3	mg/kg	None
21-11437	MD21-02-0010	0.33–0.66	ALLH	Beryllium	0.34	mg/kg	J-
21-11437	MD21-02-0010	0.33–0.66	ALLH	Cadmium	0.078	mg/kg	J
21-11437	MD21-02-0010	0.33–0.66	ALLH	Calcium	1680	mg/kg	None
21-11437	MD21-02-0010	0.33–0.66	ALLH	Chromium	5.2	mg/kg	U
21-11437	MD21-02-0010	0.33–0.66	ALLH	Cobalt	3	mg/kg	J-
21-11437	MD21-02-0010	0.33–0.66	ALLH	Copper	3.1	mg/kg	J-
21-11437	MD21-02-0010	0.33–0.66	ALLH	Iron	7710	mg/kg	None
21-11437	MD21-02-0010	0.33–0.66	ALLH	Lead	9.6	mg/kg	None
21-11437	MD21-02-0010	0.33–0.66	ALLH	Lithium	7.6	mg/kg	U
21-11437	MD21-02-0010	0.33–0.66	ALLH	Magnesium	1120	mg/kg	None
21-11437	MD21-02-0010	0.33–0.66	ALLH	Manganese	281	mg/kg	None
21-11437	MD21-02-0010	0.33–0.66	ALLH	Mercury	0.035	mg/kg	U
21-11437	MD21-02-0010	0.33–0.66	ALLH	Nickel	3.7	mg/kg	J-
21-11437	MD21-02-0010	0.33–0.66	ALLH	Potassium	952	mg/kg	None
21-11437	MD21-02-0010	0.33–0.66	ALLH	Selenium	0.21	mg/kg	U
21-11437	MD21-02-0010	0.33–0.66	ALLH	Silver	0.089	mg/kg	U
21-11437	MD21-02-0010	0.33–0.66	ALLH	Sodium	109	mg/kg	U
21-11437	MD21-02-0010	0.33–0.66	ALLH	Strontium	14.7	mg/kg	None
21-11437	MD21-02-0010	0.33–0.66	ALLH	Thallium	0.087	mg/kg	U
21-11437	MD21-02-0010	0.33–0.66	ALLH	Vanadium	10.9	mg/kg	None
21-11437	MD21-02-0010	0.33–0.66	ALLH	Zinc	22.6	mg/kg	None
21-11437	MD21-02-0011	0–0.33	ALLH	Americium-241	0.06	pCi/g	U
21-11437	MD21-02-0011	0–0.33	ALLH	Plutonium-238	0.008	pCi/g	U
21-11437	MD21-02-0011	0–0.33	ALLH	Plutonium-239	0.43	pCi/g	J-
21-11437	MD21-02-0011	0–0.33	ALLH	Uranium-234	0.96	pCi/g	None
21-11437	MD21-02-0011	0–0.33	ALLH	Uranium-235	0.085	pCi/g	U
21-11437	MD21-02-0011	0–0.33	ALLH	Uranium-238	1	pCi/g	None
21-11437	MD21-02-0011	0–0.33	ALLH	Tritium	0.14	pCi/g	U
21-11437	MD21-02-0011	0–0.33	ALLH	Thorium-228	1.18	pCi/g	None
21-11437	MD21-02-0011	0–0.33	ALLH	Thorium-230	1.01	pCi/g	None
21-11437	MD21-02-0011	0–0.33	ALLH	Thorium-232	1.21	pCi/g	None
21-11437	MD21-02-0011	0–0.33	ALLH	Aluminum	6090	mg/kg	None
21-11437	MD21-02-0011	0–0.33	ALLH	Antimony	0.11	mg/kg	U
21-11437	MD21-02-0011	0–0.33	ALLH	Arsenic	1	mg/kg	None
21-11437	MD21-02-0011	0–0.33	ALLH	Barium	71.6	mg/kg	None
21-11437	MD21-02-0011	0–0.33	ALLH	Beryllium	0.35	mg/kg	J-
21-11437	MD21-02-0011	0–0.33	ALLH	Cadmium	0.098	mg/kg	J
21-11437	MD21-02-0011	0–0.33	ALLH	Calcium	1890	mg/kg	None
21-11437	MD21-02-0011	0–0.33	ALLH	Chromium	5.5	mg/kg	None
21-11437	MD21-02-0011	0–0.33	ALLH	Cobalt	3	mg/kg	J-

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11437	MD21-02-0011	0–0.33	ALLH	Copper	3.5	mg/kg	J-
21-11437	MD21-02-0011	0–0.33	ALLH	Iron	8130	mg/kg	None
21-11437	MD21-02-0011	0–0.33	ALLH	Lead	12.1	mg/kg	None
21-11437	MD21-02-0011	0–0.33	ALLH	Lithium	7.6	mg/kg	U
21-11437	MD21-02-0011	0–0.33	ALLH	Magnesium	1200	mg/kg	None
21-11437	MD21-02-0011	0–0.33	ALLH	Manganese	305	mg/kg	None
21-11437	MD21-02-0011	0–0.33	ALLH	Mercury	0.036	mg/kg	U
21-11437	MD21-02-0011	0–0.33	ALLH	Nickel	3.8	mg/kg	J-
21-11437	MD21-02-0011	0–0.33	ALLH	Potassium	1000	mg/kg	None
21-11437	MD21-02-0011	0–0.33	ALLH	Selenium	0.21	mg/kg	U
21-11437	MD21-02-0011	0–0.33	ALLH	Silver	0.095	mg/kg	U
21-11437	MD21-02-0011	0–0.33	ALLH	Sodium	115	mg/kg	U
21-11437	MD21-02-0011	0–0.33	ALLH	Strontium	15.5	mg/kg	None
21-11437	MD21-02-0011	0–0.33	ALLH	Thallium	0.09	mg/kg	U
21-11437	MD21-02-0011	0–0.33	ALLH	Vanadium	10.7	mg/kg	None
21-11437	MD21-02-0011	0–0.33	ALLH	Zinc	26.8	mg/kg	None
21-11438	MD21-02-0012	0.33–0.66	ALLH	Americium-241	0.105	pCi/g	U
21-11438	MD21-02-0012	0.33–0.66	ALLH	Plutonium-238	0.01	pCi/g	U
21-11438	MD21-02-0012	0.33–0.66	ALLH	Plutonium-239	0.134	pCi/g	U
21-11438	MD21-02-0012	0.33–0.66	ALLH	Uranium-234	1.1	pCi/g	None
21-11438	MD21-02-0012	0.33–0.66	ALLH	Uranium-235	0.114	pCi/g	U
21-11438	MD21-02-0012	0.33–0.66	ALLH	Uranium-238	0.95	pCi/g	None
21-11438	MD21-02-0012	0.33–0.66	ALLH	Tritium	0.1	pCi/g	U
21-11438	MD21-02-0012	0.33–0.66	ALLH	Thorium-228	1.09	pCi/g	None
21-11438	MD21-02-0012	0.33–0.66	ALLH	Thorium-230	1.08	pCi/g	None
21-11438	MD21-02-0012	0.33–0.66	ALLH	Thorium-232	1.2	pCi/g	None
21-11438	MD21-02-0012	0.33–0.66	ALLH	Aluminum	6020	mg/kg	None
21-11438	MD21-02-0012	0.33–0.66	ALLH	Antimony	0.11	mg/kg	U
21-11438	MD21-02-0012	0.33–0.66	ALLH	Arsenic	1.2	mg/kg	None
21-11438	MD21-02-0012	0.33–0.66	ALLH	Barium	74.3	mg/kg	None
21-11438	MD21-02-0012	0.33–0.66	ALLH	Beryllium	0.31	mg/kg	J-
21-11438	MD21-02-0012	0.33–0.66	ALLH	Cadmium	0.1	mg/kg	J
21-11438	MD21-02-0012	0.33–0.66	ALLH	Calcium	1930	mg/kg	None
21-11438	MD21-02-0012	0.33–0.66	ALLH	Chromium	5.3	mg/kg	None
21-11438	MD21-02-0012	0.33–0.66	ALLH	Cobalt	3.2	mg/kg	J-
21-11438	MD21-02-0012	0.33–0.66	ALLH	Copper	3.4	mg/kg	J-
21-11438	MD21-02-0012	0.33–0.66	ALLH	Iron	8280	mg/kg	None
21-11438	MD21-02-0012	0.33–0.66	ALLH	Lead	10.8	mg/kg	None
21-11438	MD21-02-0012	0.33–0.66	ALLH	Lithium	6.8	mg/kg	U
21-11438	MD21-02-0012	0.33–0.66	ALLH	Magnesium	1240	mg/kg	None
21-11438	MD21-02-0012	0.33–0.66	ALLH	Manganese	310	mg/kg	None
21-11438	MD21-02-0012	0.33–0.66	ALLH	Mercury	0.035	mg/kg	U
21-11438	MD21-02-0012	0.33–0.66	ALLH	Nickel	3.8	mg/kg	J-
21-11438	MD21-02-0012	0.33–0.66	ALLH	Potassium	883	mg/kg	None

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11438	MD21-02-0012	0.33–0.66	ALLH	Selenium	0.21	mg/kg	U
21-11438	MD21-02-0012	0.33–0.66	ALLH	Silver	0.092	mg/kg	U
21-11438	MD21-02-0012	0.33–0.66	ALLH	Sodium	106	mg/kg	U
21-11438	MD21-02-0012	0.33–0.66	ALLH	Strontium	15.8	mg/kg	None
21-11438	MD21-02-0012	0.33–0.66	ALLH	Thallium	0.084	mg/kg	U
21-11438	MD21-02-0012	0.33–0.66	ALLH	Vanadium	11.1	mg/kg	None
21-11438	MD21-02-0012	0.33–0.66	ALLH	Zinc	26.4	mg/kg	None
21-11438	MD21-02-0013	0.66–0.98	ALLH	Americium-241	-0.005	pCi/g	U
21-11438	MD21-02-0013	0.66–0.98	ALLH	Plutonium-238	0.003	pCi/g	U
21-11438	MD21-02-0013	0.66–0.98	ALLH	Plutonium-239	0.03	pCi/g	U
21-11438	MD21-02-0013	0.66–0.98	ALLH	Uranium-234	0.98	pCi/g	None
21-11438	MD21-02-0013	0.66–0.98	ALLH	Uranium-235	0.071	pCi/g	U
21-11438	MD21-02-0013	0.66–0.98	ALLH	Uranium-238	0.92	pCi/g	None
21-11438	MD21-02-0013	0.66–0.98	ALLH	Tritium	-0.01	pCi/g	U
21-11438	MD21-02-0013	0.66–0.98	ALLH	Thorium-228	1.4	pCi/g	None
21-11438	MD21-02-0013	0.66–0.98	ALLH	Thorium-230	1.04	pCi/g	None
21-11438	MD21-02-0013	0.66–0.98	ALLH	Thorium-232	1.14	pCi/g	None
21-11438	MD21-02-0013	0.66–0.98	ALLH	Aluminum	7340	mg/kg	None
21-11438	MD21-02-0013	0.66–0.98	ALLH	Antimony	0.097	mg/kg	U
21-11438	MD21-02-0013	0.66–0.98	ALLH	Arsenic	1.2	mg/kg	None
21-11438	MD21-02-0013	0.66–0.98	ALLH	Barium	86.9	mg/kg	None
21-11438	MD21-02-0013	0.66–0.98	ALLH	Beryllium	0.39	mg/kg	J-
21-11438	MD21-02-0013	0.66–0.98	ALLH	Cadmium	0.073	mg/kg	J
21-11438	MD21-02-0013	0.66–0.98	ALLH	Calcium	1680	mg/kg	None
21-11438	MD21-02-0013	0.66–0.98	ALLH	Chromium	6.3	mg/kg	None
21-11438	MD21-02-0013	0.66–0.98	ALLH	Cobalt	3.7	mg/kg	J-
21-11438	MD21-02-0013	0.66–0.98	ALLH	Copper	3.7	mg/kg	J-
21-11438	MD21-02-0013	0.66–0.98	ALLH	Iron	9410	mg/kg	None
21-11438	MD21-02-0013	0.66–0.98	ALLH	Lead	10.2	mg/kg	None
21-11438	MD21-02-0013	0.66–0.98	ALLH	Lithium	7.7	mg/kg	U
21-11438	MD21-02-0013	0.66–0.98	ALLH	Magnesium	1510	mg/kg	None
21-11438	MD21-02-0013	0.66–0.98	ALLH	Manganese	308	mg/kg	None
21-11438	MD21-02-0013	0.66–0.98	ALLH	Mercury	0.035	mg/kg	U
21-11438	MD21-02-0013	0.66–0.98	ALLH	Nickel	4.6	mg/kg	J-
21-11438	MD21-02-0013	0.66–0.98	ALLH	Potassium	1020	mg/kg	None
21-11438	MD21-02-0013	0.66–0.98	ALLH	Selenium	0.21	mg/kg	U
21-11438	MD21-02-0013	0.66–0.98	ALLH	Silver	0.1	mg/kg	U
21-11438	MD21-02-0013	0.66–0.98	ALLH	Sodium	118	mg/kg	U
21-11438	MD21-02-0013	0.66–0.98	ALLH	Strontium	16.5	mg/kg	None
21-11438	MD21-02-0013	0.66–0.98	ALLH	Thallium	0.1	mg/kg	U
21-11438	MD21-02-0013	0.66–0.98	ALLH	Vanadium	16.3	mg/kg	None
21-11438	MD21-02-0013	0.66–0.98	ALLH	Zinc	23.2	mg/kg	None
21-11439	MD21-02-0014	0–0.33	ALLH	Plutonium-239	0.43	pCi/g	J-
21-11439	MD21-02-0014	0–0.33	ALLH	Uranium-234	0.86	pCi/g	None

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11439	MD21-02-0014	0–0.33	ALLH	Uranium-235	0.098	pCi/g	U
21-11439	MD21-02-0014	0–0.33	ALLH	Uranium-238	0.87	pCi/g	None
21-11439	MD21-02-0014	0–0.33	ALLH	Tritium	0.09	pCi/g	U
21-11439	MD21-02-0014	0–0.33	ALLH	Thorium-228	2.98	pCi/g	None
21-11439	MD21-02-0014	0–0.33	ALLH	Aluminum	5780	mg/kg	None
21-11439	MD21-02-0014	0–0.33	ALLH	Antimony	0.19	mg/kg	U
21-11439	MD21-02-0014	0–0.33	ALLH	Americium-241	0.043	pCi/g	U
21-11439	MD21-02-0014	0–0.33	ALLH	Plutonium-238	0.029	pCi/g	U
21-11439	MD21-02-0014	0–0.33	ALLH	Thorium-230	0.95	pCi/g	None
21-11439	MD21-02-0014	0–0.33	ALLH	Thorium-232	1.17	pCi/g	None
21-11439	MD21-02-0014	0–0.33	ALLH	Arsenic	1.2	mg/kg	None
21-11439	MD21-02-0014	0–0.33	ALLH	Barium	73.8	mg/kg	None
21-11439	MD21-02-0014	0–0.33	ALLH	Beryllium	0.34	mg/kg	J-
21-11439	MD21-02-0014	0–0.33	ALLH	Cadmium	0.095	mg/kg	J
21-11439	MD21-02-0014	0–0.33	ALLH	Calcium	1960	mg/kg	None
21-11439	MD21-02-0014	0–0.33	ALLH	Chromium	5.4	mg/kg	U
21-11439	MD21-02-0014	0–0.33	ALLH	Cobalt	3.4	mg/kg	J-
21-11439	MD21-02-0014	0–0.33	ALLH	Copper	5	mg/kg	J-
21-11439	MD21-02-0014	0–0.33	ALLH	Iron	8350	mg/kg	None
21-11439	MD21-02-0014	0–0.33	ALLH	Lead	12.1	mg/kg	None
21-11439	MD21-02-0014	0–0.33	ALLH	Lithium	6.5	mg/kg	U
21-11439	MD21-02-0014	0–0.33	ALLH	Magnesium	1210	mg/kg	None
21-11439	MD21-02-0014	0–0.33	ALLH	Manganese	346	mg/kg	None
21-11439	MD21-02-0014	0–0.33	ALLH	Mercury	0.035	mg/kg	U
21-11439	MD21-02-0014	0–0.33	ALLH	Nickel	3.8	mg/kg	J-
21-11439	MD21-02-0014	0–0.33	ALLH	Potassium	969	mg/kg	None
21-11439	MD21-02-0014	0–0.33	ALLH	Selenium	0.21	mg/kg	U
21-11439	MD21-02-0014	0–0.33	ALLH	Silver	0.12	mg/kg	U
21-11439	MD21-02-0014	0–0.33	ALLH	Sodium	118	mg/kg	U
21-11439	MD21-02-0014	0–0.33	ALLH	Strontium	15.3	mg/kg	None
21-11439	MD21-02-0014	0–0.33	ALLH	Thallium	0.074	mg/kg	U
21-11439	MD21-02-0014	0–0.33	ALLH	Vanadium	12	mg/kg	None
21-11439	MD21-02-0014	0–0.33	ALLH	Zinc	26.8	mg/kg	None
21-11439	MD21-02-0015	0.66–0.98	ALLH	Americium-241	0.032	pCi/g	U
21-11439	MD21-02-0015	0.66–0.98	ALLH	Plutonium-238	0.01	pCi/g	U
21-11439	MD21-02-0015	0.66–0.98	ALLH	Uranium-235	0.088	pCi/g	U
21-11439	MD21-02-0015	0.66–0.98	ALLH	Uranium-238	0.7	pCi/g	None
21-11439	MD21-02-0015	0.66–0.98	ALLH	Tritium	0.09	pCi/g	U
21-11439	MD21-02-0015	0.66–0.98	ALLH	Thorium-228	1.2	pCi/g	None
21-11439	MD21-02-0015	0.66–0.98	ALLH	Thorium-230	0.78	pCi/g	None
21-11439	MD21-02-0015	0.66–0.98	ALLH	Thorium-232	0.99	pCi/g	None
21-11439	MD21-02-0015	0.66–0.98	ALLH	Aluminum	4980	mg/kg	None
21-11439	MD21-02-0015	0.66–0.98	ALLH	Antimony	0.11	mg/kg	U
21-11439	MD21-02-0015	0.66–0.98	ALLH	Arsenic	0.87	mg/kg	None

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11439	MD21-02-0015	0.66–0.98	ALLH	Barium	57	mg/kg	None
21-11439	MD21-02-0015	0.66–0.98	ALLH	Beryllium	0.28	mg/kg	J-
21-11439	MD21-02-0015	0.66–0.98	ALLH	Cadmium	0.051	mg/kg	J
21-11439	MD21-02-0015	0.66–0.98	ALLH	Calcium	1380	mg/kg	None
21-11439	MD21-02-0015	0.66–0.98	ALLH	Chromium	4.7	mg/kg	U
21-11439	MD21-02-0015	0.66–0.98	ALLH	Cobalt	2.6	mg/kg	J-
21-11439	MD21-02-0015	0.66–0.98	ALLH	Copper	2.9	mg/kg	J-
21-11439	MD21-02-0015	0.66–0.98	ALLH	Iron	7240	mg/kg	None
21-11439	MD21-02-0015	0.66–0.98	ALLH	Lead	7.7	mg/kg	None
21-11439	MD21-02-0015	0.66–0.98	ALLH	Lithium	6.5	mg/kg	U
21-11439	MD21-02-0015	0.66–0.98	ALLH	Magnesium	1020	mg/kg	None
21-11439	MD21-02-0015	0.66–0.98	ALLH	Manganese	229	mg/kg	None
21-11439	MD21-02-0015	0.66–0.98	ALLH	Mercury	0.034	mg/kg	U
21-11439	MD21-02-0015	0.66–0.98	ALLH	Nickel	3.3	mg/kg	J-
21-11439	MD21-02-0015	0.66–0.98	ALLH	Potassium	687	mg/kg	None
21-11439	MD21-02-0015	0.66–0.98	ALLH	Selenium	0.21	mg/kg	U
21-11439	MD21-02-0015	0.66–0.98	ALLH	Silver	0.083	mg/kg	U
21-11439	MD21-02-0015	0.66–0.98	ALLH	Sodium	120	mg/kg	U
21-11439	MD21-02-0015	0.66–0.98	ALLH	Strontium	11.6	mg/kg	None
21-11439	MD21-02-0015	0.66–0.98	ALLH	Thallium	0.058	mg/kg	U
21-11439	MD21-02-0015	0.66–0.98	ALLH	Vanadium	9.9	mg/kg	None
21-11439	MD21-02-0015	0.66–0.98	ALLH	Zinc	22.9	mg/kg	None
21-11439	MD21-02-0015	0.66–0.98	ALLH	Plutonium-239	0.059	pCi/g	U
21-11439	MD21-02-0015	0.66–0.98	ALLH	Uranium-234	0.67	pCi/g	None
21-11439	MD21-03-50293	0–0.5	ALLH	Plutonium-238	0.0031	pCi/g	U
21-11439	MD21-03-50293	0–0.5	ALLH	Plutonium-239	0.193	pCi/g	None
21-11439	MD21-03-50294	0–0.5	ALLH	Plutonium-238	0.00149	pCi/g	U
21-11439	MD21-03-50294	0–0.5	ALLH	Plutonium-239	0.407	pCi/g	None
21-11439	MD21-03-50300	0–0.5	ALLH	Thorium-228	1.2	pCi/g	None
21-11439	MD21-03-50300	0–0.5	ALLH	Thorium-230	1.11	pCi/g	None
21-11439	MD21-03-50300	0–0.5	ALLH	Thorium-232	1.44	pCi/g	None
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Aluminum	8560	mg/kg	None
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Copper	2.5	mg/kg	J-
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Iron	9250	mg/kg	None
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Lead	6.6	mg/kg	None
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Magnesium	1790	mg/kg	None
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Mercury	0.046	mg/kg	None
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Nickel	6.7	mg/kg	J-
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Potassium	844	mg/kg	None
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Selenium	0.21	mg/kg	U
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Silver	0.098	mg/kg	J
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Sodium	311	mg/kg	None
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Arsenic	1.7	mg/kg	None
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Barium	80.9	mg/kg	J

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Beryllium	0.52	mg/kg	None
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Cadmium	0.042	mg/kg	J
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Calcium	4290	mg/kg	J
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Cobalt	1.2	mg/kg	None
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Vanadium	8.8	mg/kg	None
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Thallium	0.75	mg/kg	J
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Zinc	20.3	mg/kg	None
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Antimony	0.21	mg/kg	UJ
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Dimethylphenol[2,4-]	0.34	mg/kg	U
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Dinitro-2-methylphenol[4,6-]	1.7	mg/kg	U
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Nitrosodiphenylamine[N-]	0.34	mg/kg	U
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Oxybis(1-chloropropane)[2,2'-]	0.34	mg/kg	U
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Pentachlorophenol	1.7	mg/kg	U
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Phenanthrene	0.34	mg/kg	U
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Phenol	0.34	mg/kg	U
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Pyrene	0.34	mg/kg	U
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Trichlorobenzene[1,2,4-]	0.34	mg/kg	U
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Trichlorophenol[2,4,5-]	0.34	mg/kg	U
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Trichlorophenol[2,4,6-]	0.34	mg/kg	U
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Dinitrophenol[2,4-]	1.7	mg/kg	U
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Acenaphthene	0.34	mg/kg	U
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Acenaphthylene	0.34	mg/kg	U
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Aniline	0.34	mg/kg	U
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Anthracene	0.34	mg/kg	U
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Azobenzene	0.34	mg/kg	U
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Benz(a)anthracene	0.34	mg/kg	U
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Benzo(a)pyrene	0.34	mg/kg	U
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Benzo(b)fluoranthene	0.34	mg/kg	U
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Benzo(g,h,i)perylene	0.34	mg/kg	U
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Benzo(k)fluoranthene	0.34	mg/kg	UJ
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Benzoic Acid	1.7	mg/kg	U
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Benzyl Alcohol	0.34	mg/kg	U
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Ruthenium-106	0.18	pCi/g	U
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Uranium-235	0.03	pCi/g	U
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Cesium-134	0.017	pCi/g	U
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Cesium-137	-0.016	pCi/g	U
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Cobalt-60	-0.072	pCi/g	U
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Europium-152	0.13	pCi/g	U
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Bis(2-chloroethoxy)methane	0.34	mg/kg	U
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Bis(2-chloroethyl)ether	0.34	mg/kg	U
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Bis(2-ethylhexyl)phthalate	0.34	mg/kg	U
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Bromophenyl-phenylether[4-]	0.34	mg/kg	U
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Butylbenzylphthalate	0.34	mg/kg	U
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Chloro-3-methylphenol[4-]	0.34	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Chloroaniline[4-]	0.34	mg/kg	U
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Chloronaphthalene[2-]	0.34	mg/kg	U
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Chlorophenol[2-]	0.34	mg/kg	U
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Chlorophenyl-phenyl[4-] Ether	0.34	mg/kg	U
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Tritium	0.27	pCi/g	U
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Americium-241	0.027	pCi/g	U
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Chrysene	0.34	mg/kg	U
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Di-n-butylphthalate	0.34	mg/kg	U
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Di-n-octylphthalate	0.34	mg/kg	U
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Dibenz(a,h)anthracene	0.34	mg/kg	U
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Dibenzofuran	0.34	mg/kg	U
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Dichlorobenzene[1,2-]	0.34	mg/kg	U
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Dichlorobenzene[1,3-]	0.34	mg/kg	U
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Dichlorobenzene[1,4-]	0.34	mg/kg	U
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Dichlorobenzidine[3,3'-]	1.7	mg/kg	U
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Dichlorophenol[2,4-]	0.34	mg/kg	U
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Diethylphthalate	0.34	mg/kg	U
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Dimethyl Phthalate	0.34	mg/kg	U
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Dinitrotoluene[2,4-]	0.34	mg/kg	U
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Dinitrotoluene[2,6-]	0.34	mg/kg	U
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Fluoranthene	0.34	mg/kg	U
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Fluorene	0.34	mg/kg	U
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Hexachlorobenzene	0.34	mg/kg	U
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Hexachlorobutadiene	0.34	mg/kg	U
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Hexachlorocyclopentadiene	1.7	mg/kg	U
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Hexachloroethane	0.34	mg/kg	U
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Indeno(1,2,3-cd)pyrene	0.34	mg/kg	U
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Isophorone	0.34	mg/kg	U
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Methylnaphthalene[2-]	0.34	mg/kg	U
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Methylphenol[2-]	0.34	mg/kg	U
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Methylphenol[4-]	0.34	mg/kg	U
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Naphthalene	0.34	mg/kg	U
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Nitroaniline[2-]	1.7	mg/kg	U
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Nitroaniline[3-]	1.7	mg/kg	U
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Nitroaniline[4-]	1.7	mg/kg	U
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Nitrobenzene	0.34	mg/kg	U
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Nitrophenol[2-]	0.34	mg/kg	U
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Nitrophenol[4-]	1.7	mg/kg	U
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Nitroso-di-n-propylamine[N-]	0.34	mg/kg	U
21-11449	MD21-02-0021	1.5–2.5	Qbt 3	Nitrosodimethylamine[N-]	0.34	mg/kg	U
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Cesium-134	0.033	pCi/g	U
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Cesium-137	-0.013	pCi/g	U
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Cobalt-60	0.03	pCi/g	U
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Europium-152	0.15	pCi/g	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Ruthenium-106	0.1	pCi/g	U
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Uranium-235	0.03	pCi/g	U
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Aluminum	2270	mg/kg	None
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Antimony	0.21	mg/kg	UJ
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Arsenic	1.1	mg/kg	None
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Barium	30	mg/kg	J
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Beryllium	0.46	mg/kg	None
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Cadmium	0.033	mg/kg	J
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Calcium	1060	mg/kg	J
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Cobalt	1.3	mg/kg	None
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Copper	2.5	mg/kg	J-
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Iron	6820	mg/kg	None
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Lead	4.9	mg/kg	None
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Magnesium	601	mg/kg	None
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Mercury	0.023	mg/kg	J
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Nickel	6.1	mg/kg	J-
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Potassium	344	mg/kg	None
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Selenium	0.14	mg/kg	J
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Butylbenzylphthalate	0.49	mg/kg	U
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Chloro-3-methylphenol[4-]	0.49	mg/kg	U
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Silver	0.07	mg/kg	J
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Sodium	138	mg/kg	J
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Thallium	0.24	mg/kg	J
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Vanadium	3.9	mg/kg	None
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Zinc	32.7	mg/kg	None
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Acenaphthene	0.49	mg/kg	U
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Acenaphthylene	0.49	mg/kg	U
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Aniline	0.49	mg/kg	U
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Anthracene	0.49	mg/kg	U
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Azobenzene	0.49	mg/kg	U
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Benz(a)anthracene	0.49	mg/kg	U
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Benzo(a)pyrene	0.49	mg/kg	U
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Benzo(b)fluoranthene	0.49	mg/kg	U
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Benzo(g,h,i)perylene	0.49	mg/kg	U
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Benzo(k)fluoranthene	0.49	mg/kg	UJ
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Benzoic Acid	2.4	mg/kg	U
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Chloroaniline[4-]	0.49	mg/kg	U
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Chloronaphthalene[2-]	0.49	mg/kg	U
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Chlorophenol[2-]	0.49	mg/kg	U
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Chlorophenyl-phenyl[4-] Ether	0.49	mg/kg	U
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Chrysene	0.49	mg/kg	U
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Di-n-butylphthalate	0.49	mg/kg	U
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Di-n-octylphthalate	0.49	mg/kg	U
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Dibenz(a,h)anthracene	0.49	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Hexachloroethane	0.49	mg/kg	U
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Indeno(1,2,3-cd)pyrene	0.49	mg/kg	U
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Isophorone	0.49	mg/kg	U
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Methylnaphthalene[2-]	0.49	mg/kg	U
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Methylphenol[2-]	0.49	mg/kg	U
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Methylphenol[4-]	0.49	mg/kg	U
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Naphthalene	0.49	mg/kg	U
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Nitroaniline[2-]	2.4	mg/kg	U
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Nitroaniline[3-]	2.4	mg/kg	U
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Nitroaniline[4-]	2.4	mg/kg	U
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Dinitrophenol[2,4-]	2.4	mg/kg	U
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Dinitrotoluene[2,4-]	0.49	mg/kg	U
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Dinitrotoluene[2,6-]	0.49	mg/kg	U
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Fluoranthene	0.49	mg/kg	U
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Fluorene	0.49	mg/kg	U
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Hexachlorobenzene	0.49	mg/kg	U
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Hexachlorobutadiene	0.49	mg/kg	U
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Hexachlorocyclopentadiene	2.4	mg/kg	U
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Dibenzofuran	0.49	mg/kg	U
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Dichlorobenzene[1,2-]	0.49	mg/kg	U
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Dichlorobenzene[1,3-]	0.49	mg/kg	U
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Dichlorobenzene[1,4-]	0.49	mg/kg	U
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Nitrobenzene	0.49	mg/kg	U
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Nitrophenol[2-]	0.49	mg/kg	U
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Nitrophenol[4-]	2.4	mg/kg	U
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Nitroso-di-n-propylamine[N-]	0.49	mg/kg	U
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Nitrosodimethylamine[N-]	0.49	mg/kg	U
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Nitrosodiphenylamine[N-]	0.49	mg/kg	U
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Oxybis(1-chloropropane)[2,2'-]	0.49	mg/kg	U
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Pentachlorophenol	2.4	mg/kg	U
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Phenanthrene	0.49	mg/kg	U
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Phenol	0.49	mg/kg	U
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Pyrene	0.49	mg/kg	U
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Trichlorobenzene[1,2,4-]	0.49	mg/kg	U
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Trichlorophenol[2,4,5-]	0.49	mg/kg	U
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Trichlorophenol[2,4,6-]	0.49	mg/kg	U
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Dichlorobenzidine[3,3'-]	2.4	mg/kg	U
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Dichlorophenol[2,4-]	0.49	mg/kg	U
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Diethylphthalate	0.49	mg/kg	U
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Dimethyl Phthalate	0.49	mg/kg	U
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Dimethylphenol[2,4-]	0.49	mg/kg	U
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Dinitro-2-methylphenol[4,6-]	2.4	mg/kg	U
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Benzyl Alcohol	0.49	mg/kg	U
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Bis(2-chloroethoxy)methane	0.49	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Americium-241	0.007	pCi/g	U
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Tritium	0.14	pCi/g	U
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Bis(2-chloroethyl)ether	0.49	mg/kg	U
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Bis(2-ethylhexyl)phthalate	0.49	mg/kg	U
21-11450	MD21-02-0022	1.5–2.5	Qbt 3	Bromophenyl-phenylether[4-]	0.49	mg/kg	U
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Dichlorobenzene[1,2-]	0.36	mg/kg	U
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Dichlorobenzene[1,3-]	0.36	mg/kg	U
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Dichlorobenzene[1,4-]	0.36	mg/kg	U
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Dichlorobenzidine[3,3'-]	1.7	mg/kg	U
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Dichlorophenol[2,4-]	0.36	mg/kg	U
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Diethylphthalate	0.36	mg/kg	U
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Dimethyl Phthalate	0.36	mg/kg	U
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Dimethylphenol[2,4-]	0.36	mg/kg	U
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Dinitro-2-methylphenol[4,6-]	1.7	mg/kg	U
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Dinitrophenol[2,4-]	1.7	mg/kg	U
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Dinitrotoluene[2,4-]	0.36	mg/kg	U
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Dinitrotoluene[2,6-]	0.36	mg/kg	U
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Fluoranthene	0.36	mg/kg	U
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Hexachlorobenzene	0.36	mg/kg	U
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Fluorene	0.36	mg/kg	U
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Nitroaniline[3-]	1.7	mg/kg	U
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Nitroaniline[4-]	1.7	mg/kg	U
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Nitrobenzene	0.36	mg/kg	U
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Nitrophenol[2-]	0.36	mg/kg	U
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Nitrophenol[4-]	1.7	mg/kg	U
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Nitroso-di-n-propylamine[N-]	0.36	mg/kg	U
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Hexachlorobutadiene	0.36	mg/kg	U
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Hexachlorocyclopentadiene	1.7	mg/kg	U
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Hexachloroethane	0.36	mg/kg	U
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Indeno(1,2,3-cd)pyrene	0.36	mg/kg	U
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Isophorone	0.36	mg/kg	U
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Methylnaphthalene[2-]	0.36	mg/kg	U
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Methylphenol[2-]	0.36	mg/kg	U
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Methylphenol[4-]	0.36	mg/kg	U
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Naphthalene	0.36	mg/kg	U
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Nitroaniline[2-]	1.7	mg/kg	U
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Nitrosodimethylamine[N-]	0.36	mg/kg	U
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Nitrosodiphenylamine[N-]	0.36	mg/kg	U
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Cesium-134	0.0008	pCi/g	U
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Cesium-137	0.03	pCi/g	U
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Cobalt-60	-0.006	pCi/g	U
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Europium-152	0.46	pCi/g	U
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Ruthenium-106	-0.27	pCi/g	U
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Uranium-235	0.185	pCi/g	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Americium-241	0.026	pCi/g	U
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Tritium	0.13	pCi/g	U
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Oxybis(1-chloropropane)[2,2'-]	0.36	mg/kg	U
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Pentachlorophenol	1.7	mg/kg	U
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Phenanthrene	0.36	mg/kg	U
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Phenol	0.36	mg/kg	U
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Pyrene	0.36	mg/kg	U
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Trichlorobenzene[1,2,4-]	0.36	mg/kg	U
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Trichlorophenol[2,4,5-]	0.36	mg/kg	U
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Trichlorophenol[2,4,6-]	0.36	mg/kg	U
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Magnesium	2450	mg/kg	None
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Mercury	0.044	mg/kg	None
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Nickel	6.4	mg/kg	J-
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Potassium	1410	mg/kg	None
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Selenium	0.22	mg/kg	U
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Silver	0.14	mg/kg	J
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Sodium	865	mg/kg	None
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Thallium	0.38	mg/kg	J
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Vanadium	13.7	mg/kg	None
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Zinc	38	mg/kg	None
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Chrysene	0.36	mg/kg	U
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Di-n-butylphthalate	0.36	mg/kg	U
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Di-n-octylphthalate	0.36	mg/kg	U
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Dibenz(a,h)anthracene	0.36	mg/kg	U
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Aluminum	12700	mg/kg	None
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Antimony	0.22	mg/kg	UJ
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Arsenic	2.7	mg/kg	None
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Barium	94.4	mg/kg	J
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Beryllium	0.85	mg/kg	None
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Cadmium	0.046	mg/kg	J
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Calcium	3640	mg/kg	J
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Cobalt	2.7	mg/kg	None
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Copper	4.1	mg/kg	J-
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Iron	12700	mg/kg	None
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Lead	11.2	mg/kg	None
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Acenaphthene	0.36	mg/kg	U
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Acenaphthylene	0.36	mg/kg	U
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Aniline	0.36	mg/kg	U
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Anthracene	0.36	mg/kg	U
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Azobenzene	0.36	mg/kg	U
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Benz(a)anthracene	0.36	mg/kg	U
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Benzo(a)pyrene	0.36	mg/kg	U
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Benzo(b)fluoranthene	0.36	mg/kg	U
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Benzo(g,h,i)perylene	0.36	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Dibenzofuran	0.36	mg/kg	U
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Benzo(k)fluoranthene	0.36	mg/kg	UJ
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Benzoic Acid	1.7	mg/kg	U
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Benzyl Alcohol	0.36	mg/kg	U
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Bis(2-chloroethoxy)methane	0.36	mg/kg	U
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Bis(2-chloroethyl)ether	0.36	mg/kg	U
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Bis(2-ethylhexyl)phthalate	0.36	mg/kg	U
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Bromophenyl-phenylether[4-]	0.36	mg/kg	U
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Butylbenzylphthalate	0.36	mg/kg	U
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Chloro-3-methylphenol[4-]	0.36	mg/kg	U
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Chloroaniline[4-]	0.36	mg/kg	U
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Chloronaphthalene[2-]	0.36	mg/kg	U
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Chlorophenol[2-]	0.36	mg/kg	U
21-11451	MD21-02-0023	1.5–2.5	Qbt 3	Chlorophenyl-phenyl[4-] Ether	0.36	mg/kg	U
21-03-21704	MD21-03-50285	0–0.2	ALLH	Plutonium-238	0.0252	pCi/g	None
21-03-21704	MD21-03-50285	0–0.2	ALLH	Plutonium-239	2.43	pCi/g	None
21-11275	MD21-03-50286	0.5–1	Qbt 3	Plutonium-238	0.00537	pCi/g	U
21-11275	MD21-03-50286	0.5–1	Qbt 3	Plutonium-239	-0.00536	pCi/g	U
21-11275	MD21-03-50287	2–2.5	Qbt 3	Plutonium-238	0	pCi/g	U
21-11275	MD21-03-50287	2–2.5	Qbt 3	Plutonium-239	0.00156	pCi/g	U
21-11277	MD21-03-50288	1.5–2	Qbt 3	Plutonium-238	0.00608	pCi/g	U
21-11277	MD21-03-50288	1.5–2	Qbt 3	Plutonium-239	0.0577	pCi/g	None
21-11277	MD21-03-50289	1.5–2	Qbt 3	Plutonium-238	0.00491	pCi/g	U
21-11277	MD21-03-50289	1.5–2	Qbt 3	Plutonium-239	0.16	pCi/g	None
21-11277	MD21-03-50290	3–3.5	Qbt 3	Plutonium-238	0.0153	pCi/g	U
21-11277	MD21-03-50290	3–3.5	Qbt 3	Plutonium-239	0.0238	pCi/g	U
21-11280	MD21-03-50292	1.5–2	Qbt 3	Plutonium-238	0.00151	pCi/g	U
21-11280	MD21-03-50292	1.5–2	Qbt 3	Plutonium-239	7.18E-10	pCi/g	U
21-11439	MD21-03-50293	0–0.5	ALLH	Plutonium-238	0.0031	pCi/g	U
21-11439	MD21-03-50293	0–0.5	ALLH	Plutonium-239	0.193	pCi/g	None
21-11439	MD21-03-50294	0–0.5	ALLH	Plutonium-238	0.00149	pCi/g	U
21-11439	MD21-03-50294	0–0.5	ALLH	Plutonium-239	0.407	pCi/g	None
21-11280	MD21-03-50295	3–3.5	Qbt 3	Plutonium-238	-0.00187	pCi/g	U
21-11280	MD21-03-50295	3–3.5	Qbt 3	Plutonium-239	-0.00748	pCi/g	U
21-11279	MD21-03-50296	2–2.5	Qbt 3	Plutonium-238	1.38E-09	pCi/g	U
21-11279	MD21-03-50296	2–2.5	Qbt 3	Plutonium-239	0.0116	pCi/g	U
21-11279	MD21-03-50297	3.5–4	Qbt 3	Plutonium-238	-0.00213	pCi/g	U
21-11279	MD21-03-50297	3.5–4	Qbt 3	Plutonium-239	0.0191	pCi/g	U
21-11281	MD21-03-50298	9–9.5	Qbt 3	Plutonium-238	0.0332	pCi/g	U
21-11281	MD21-03-50298	9–9.5	Qbt 3	Plutonium-239	0.452	pCi/g	None
21-11281	MD21-03-50299	10.5–11	Qbt 3	Plutonium-238	-0.00955	pCi/g	U
21-11281	MD21-03-50299	10.5–11	Qbt 3	Plutonium-239	0.062	pCi/g	None
21-11439	MD21-03-50300	0–0.5	ALLH	Thorium-228	1.2	pCi/g	None
21-11439	MD21-03-50300	0–0.5	ALLH	Thorium-230	1.11	pCi/g	None

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Unit	Report Qualifier
21-11439	MD21-03-50300	0–0.5	ALLH	Thorium-232	1.44	pCi/g	None

Table D-2.0-2
Excavated Samples

Location ID	Sample ID	Depth (ft)	Media Code)	Analyte	Result	Unit	Report Qualifier
21-01432	AAA1098	0–0.5	ALLH	Nickel	3.2	mg/kg	None
21-01432	AAA1098	0–0.5	ALLH	Barium	57.1	mg/kg	None
21-01432	AAA1098	0–0.5	ALLH	Beryllium	0.27	mg/kg	None
21-01432	AAA1098	0–0.5	ALLH	Calcium	928	mg/kg	None
21-01432	AAA1098	0–0.5	ALLH	Chromium	20.4	mg/kg	None
21-01432	AAA1098	0–0.5	ALLH	Cobalt	1.2	mg/kg	None
21-01432	AAA1098	0–0.5	ALLH	Arsenic	3.5	mg/kg	None
21-01432	AAA1098	0–0.5	ALLH	Aluminum	4300	mg/kg	None
21-01432	AAA1098	0–0.5	ALLH	Cadmium	0.74	mg/kg	None
21-01432	AAA1098	0–0.5	ALLH	Antimony	6	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Silver	0.63	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Sodium	75.3	mg/kg	None
21-01432	AAA1098	0–0.5	ALLH	Molybdenum	10.6	mg/kg	None
21-01432	AAA1098	0–0.5	ALLH	Manganese	113	mg/kg	None
21-01432	AAA1098	0–0.5	ALLH	Magnesium	800	mg/kg	None
21-01432	AAA1098	0–0.5	ALLH	Potassium	703	mg/kg	None
21-01432	AAA1098	0–0.5	ALLH	Copper	5.7	mg/kg	None
21-01432	AAA1098	0–0.5	ALLH	Iron	6900	mg/kg	None
21-01432	AAA1098	0–0.5	ALLH	Zinc	23.4	mg/kg	None
21-01432	AAA1098	0–0.5	ALLH	Vanadium	9.1	mg/kg	None
21-01432	AAA1098	0–0.5	ALLH	Thallium	0.26	mg/kg	None
21-01432	AAA1098	0–0.5	ALLH	Selenium	0.32	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Lead	32.3	mg/kg	None
21-01432	AAA1098	0–0.5	ALLH	Uranium	5.3	mg/kg	None
21-01432	AAA1098	0–0.5	ALLH	Strontium	8.6	mg/kg	None
21-01432	AAA1098	0–0.5	ALLH	Lithium	3.3	mg/kg	None
21-01432	AAA1098	0–0.5	ALLH	Butylbenzene[n-]	0.005	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Propylbenzene[1-]	0.005	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Trimethylbenzene[1,3,5-]	0.005	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Methyl-2-pentanone[4-]	0.011	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Bromobenzene	0.005	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Toluene	0.005	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Chlorobenzene	0.005	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Trichlorobenzene[1,2,4-]	0.005	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Chlorodibromomethane	0.005	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Tetrachloroethene	0.005	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Xylene (Total)	0.005	mg/kg	U

Table D-2.0-2 (continued)

Location ID	Sample ID	Depth (ft)	Media Code)	Analyte	Result	Unit	Report Qualifier
21-01432	AAA1098	0–0.5	ALLH	Butylbenzene[sec-]	0.005	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Dichloropropane[1,3-]	0.005	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Dichloroethene[cis-1,2-]	0.005	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Dichlorobenzene[1,3-]	0.005	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Carbon Tetrachloride	0.005	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Dichloropropene[1,1-]	0.005	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Hexanone[2-]	0.011	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Dichloropropane[2,2-]	0.005	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Chloroform	0.005	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Benzene	0.005	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Trichloroethane[1,1,1-]	0.005	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Bromomethane	0.011	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Chloromethane	0.011	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Iodomethane	0.005	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Dibromomethane	0.005	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Bromochloromethane	0.005	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Chloroethane	0.011	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Vinyl Chloride	0.011	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Methylene Chloride	0.005	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Bromoform	0.005	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Bromodichloromethane	0.005	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Dichloroethane[1,1-]	0.005	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Dichloroethene[1,1-]	0.005	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Trichlorofluoromethane	0.011	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Trichloro-1,2,2-trifluoroethane[1,1,2-]	0.005	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Dichloropropane[1,2-]	0.005	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Ethylbenzene	0.005	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Trichloroethane[1,1,2-]	0.005	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Styrene	0.005	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Dichloropropene[cis-1,3-]	0.005	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Dichloropropene[trans-1,3-]	0.005	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Chlorotoluene[4-]	0.005	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Dichlorobenzene[1,4-]	0.005	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Dibromoethane[1,2-]	0.005	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Acrolein	0.11	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Dichloroethane[1,2-]	0.005	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Acrylonitrile	0.11	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Vinyl acetate	0.011	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Chlorotoluene[2-]	0.005	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Dichlorobenzene[1,2-]	0.005	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Trimethylbenzene[1,2,4-]	0.005	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Dibromo-3-Chloropropane[1,2-]	0.005	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Trichloropropane[1,2,3-]	0.005	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Butylbenzene[tert-]	0.005	mg/kg	U

Table D-2.0-2 (continued)

Location ID	Sample ID	Depth (ft)	Media Code)	Analyte	Result	Unit	Report Qualifier
21-01432	AAA1098	0–0.5	ALLH	Isopropylbenzene	0.005	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Isopropyltoluene[4-]	0.005	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Dichlorodifluoromethane	0.011	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Tetrachloroethane[1,1,1,2-]	0.005	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Butanone[2-]	0.011	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Trichloroethene	0.005	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Dichloroethene[trans-1,2-]	0.005	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Carbon Disulfide	0.005	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Tetrachloroethane[1,1,2,2-]	0.005	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Trichlorobenzene[1,2,3-]	0.005	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Hexachlorobutadiene	0.005	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Naphthalene	0.005	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Acetone	0.035	mg/kg	None
21-01432	AAA1098	0–0.5	ALLH	Nitrobenzene	0.35	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Trichlorophenol[2,4,5-]	0.35	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Butylbenzylphthalate	0.35	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Phenanthrene	0.35	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Di-n-butylphthalate	0.35	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Diethylphthalate	0.35	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Acenaphthene	0.35	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Benzo(g,h,i)perylene	0.35	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Dimethyl Phthalate	0.35	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Pyrene	0.35	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Pentachlorophenol	1.7	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Nitroaniline[3-]	1.7	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Chlorophenol[2-]	0.35	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Dichlorobenzene[1,2-]	0.35	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Methylphenol[2-]	0.35	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Hexachlorobutadiene	0.35	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Fluorene	0.35	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Nitrosodiphenylamine[N-]	0.35	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Dinitrotoluene[2,4-]	0.35	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Dichlorophenol[2,4-]	0.35	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Nitrosodimethylamine[N-]	0.35	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Trichlorobenzene[1,2,4-]	0.35	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Anthracene	0.35	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Dinitrotoluene[2,6-]	0.35	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Chloro-3-methylphenol[4-]	0.71	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Benz(a)anthracene	0.35	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Dichlorobenzene[1,3-]	0.35	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Dibenz(a,h)anthracene	0.35	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Dinitro-2-methylphenol[4,6-]	1.7	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Dinitrophenol[2,4-]	1.7	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Benzo(a)pyrene	0.35	mg/kg	U

Table D-2.0-2 (continued)

Location ID	Sample ID	Depth (ft)	Media Code)	Analyte	Result	Unit	Report Qualifier
21-01432	AAA1098	0–0.5	ALLH	Isophorone	0.35	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Hexachlorocyclopentadiene	0.35	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Chlorophenyl-phenyl[4-] Ether	0.35	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Hexachloroethane	0.35	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Benzoic Acid	1.7	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Nitroso-di-n-propylamine[N-]	0.35	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Aniline	0.35	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Hexachlorobenzene	0.35	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Di-n-octylphthalate	0.35	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Bis(2-ethylhexyl)phthalate	0.35	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Chrysene	0.35	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Benzo(k)fluoranthene	0.35	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Fluoranthene	0.35	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Bis(2-chloroethoxy)methane	0.35	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Bis(2-chloroethyl)ether	0.35	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Nitroaniline[4-]	1.7	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Benzyl Alcohol	0.71	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Azobenzene	0.35	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Methylphenol[4-]	0.35	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Dimethylphenol[2,4-]	0.35	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Benzidine	1.7	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Dichlorobenzidine[3,3'-]	0.71	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Chloronaphthalene[2-]	0.35	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Methylnaphthalene[2-]	0.35	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Naphthalene	0.35	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Nitrophenol[2-]	0.35	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Nitroaniline[2-]	1.7	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Phenol	0.35	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Oxybis(1-chloropropane)[2,2'-]	0.35	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Chloroaniline[4-]	0.71	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Dichlorobenzene[1,4-]	0.35	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Bromophenyl-phenylether[4-]	0.35	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Nitrophenol[4-]	1.7	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Indeno(1,2,3-cd)pyrene	0.35	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Dibenzofuran	0.35	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Trichlorophenol[2,4,6-]	0.35	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Benzo(b)fluoranthene	0.35	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Acenaphthylene	0.35	mg/kg	U
21-01432	AAA1098	0–0.5	ALLH	Thorium-228	1.06	pCi/g	None
21-01432	AAA1098	0–0.5	ALLH	Thorium-232	0.941	pCi/g	None
21-01432	AAA1098	0–0.5	ALLH	Thorium-230	0.605	pCi/g	None
21-01432	AAA1098	0–0.5	ALLH	Plutonium-238	0.121	pCi/g	U
21-01432	AAA1098	0–0.5	ALLH	Plutonium-239	13.9	pCi/g	None
21-01432	AAA1098	0–0.5	ALLH	Americium-241	0.62	pCi/g	None

Table D-2.0-2 (continued)

Location ID	Sample ID	Depth (ft)	Media Code)	Analyte	Result	Unit	Report Qualifier
21-01432	AAA1098	0–0.5	ALLH	Tritium	0.2555	pCi/g	None
21-01432	AAA1098	0–0.5	ALLH	Strontium-90	0.669	pCi/g	U
21-01432	AAA1099	0–0.5	ALLH	Uranium	5.1	mg/kg	None
21-01432	AAA1099	0–0.5	ALLH	Strontium	8.8	mg/kg	None
21-01432	AAA1099	0–0.5	ALLH	Lithium	3.9	mg/kg	None
21-01432	AAA1099	0–0.5	ALLH	Silver	0.63	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Copper	6.3	mg/kg	None
21-01432	AAA1099	0–0.5	ALLH	Chromium	21	mg/kg	None
21-01432	AAA1099	0–0.5	ALLH	Selenium	0.32	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Antimony	6	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Lead	22.7	mg/kg	None
21-01432	AAA1099	0–0.5	ALLH	Nickel	3.1	mg/kg	None
21-01432	AAA1099	0–0.5	ALLH	Sodium	64.6	mg/kg	None
21-01432	AAA1099	0–0.5	ALLH	Molybdenum	9.4	mg/kg	None
21-01432	AAA1099	0–0.5	ALLH	Manganese	121	mg/kg	None
21-01432	AAA1099	0–0.5	ALLH	Magnesium	844	mg/kg	None
21-01432	AAA1099	0–0.5	ALLH	Zinc	28.3	mg/kg	None
21-01432	AAA1099	0–0.5	ALLH	Vanadium	9.4	mg/kg	None
21-01432	AAA1099	0–0.5	ALLH	Thallium	0.11	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Potassium	719	mg/kg	None
21-01432	AAA1099	0–0.5	ALLH	Barium	56.2	mg/kg	None
21-01432	AAA1099	0–0.5	ALLH	Calcium	922	mg/kg	None
21-01432	AAA1099	0–0.5	ALLH	Cadmium	0.78	mg/kg	None
21-01432	AAA1099	0–0.5	ALLH	Cobalt	1.1	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Beryllium	0.28	mg/kg	None
21-01432	AAA1099	0–0.5	ALLH	Aluminum	4750	mg/kg	None
21-01432	AAA1099	0–0.5	ALLH	Arsenic	2.3	mg/kg	None
21-01432	AAA1099	0–0.5	ALLH	Iron	7360	mg/kg	None
21-01432	AAA1099	0–0.5	ALLH	Methyl-2-pentanone[4-]	0.011	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Chloroethane	0.011	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Hexachlorobutadiene	0.005	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Tetrachloroethane[1,1,1,2-]	0.005	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Ethylbenzene	0.005	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Styrene	0.005	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Dichloropropene[cis-1,3-]	0.005	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Methylene Chloride	0.005	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Dichloropropene[trans-1,3-]	0.005	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Propylbenzene[1-]	0.005	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Butylbenzene[n-]	0.005	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Chlorotoluene[4-]	0.005	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Dichlorobenzene[1,4-]	0.005	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Dibromoethane[1,2-]	0.005	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Acrolein	0.11	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Trichloro-1,2,2-trifluoroethane[1,1,2-]	0.005	mg/kg	U

Table D-2.0-2 (continued)

Location ID	Sample ID	Depth (ft)	Media Code)	Analyte	Result	Unit	Report Qualifier
21-01432	AAA1099	0–0.5	ALLH	Dichlorodifluoromethane	0.011	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Trichlorofluoromethane	0.011	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Dichloroethene[1,1-]	0.005	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Dichloroethane[1,1-]	0.005	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Bromodichloromethane	0.005	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Bromoform	0.005	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Carbon Disulfide	0.005	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Isopropyltoluene[4-]	0.005	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Isopropylbenzene	0.005	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Butylbenzene[tert-]	0.005	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Trichloropropane[1,2,3-]	0.005	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Dibromo-3-Chloropropane[1,2-]	0.005	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Trimethylbenzene[1,2,4-]	0.005	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Dichlorobenzene[1,2-]	0.005	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Chlorotoluene[2-]	0.005	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Naphthalene	0.005	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Trichlorobenzene[1,2,3-]	0.005	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Tetrachloroethane[1,1,2,2-]	0.005	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Trichloroethene	0.005	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Trichloroethane[1,1,2-]	0.005	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Butanone[2-]	0.011	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Dichloropropane[1,2-]	0.005	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Dichloroethane[1,2-]	0.005	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Acrylonitrile	0.11	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Vinyl acetate	0.011	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Trimethylbenzene[1,3,5-]	0.005	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Bromobenzene	0.005	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Toluene	0.005	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Trichlorobenzene[1,2,4-]	0.005	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Chlorodibromomethane	0.005	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Tetrachloroethene	0.005	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Xylene (Total)	0.005	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Butylbenzene[sec-]	0.005	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Dichloropropane[1,3-]	0.005	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Dichloroethene[cis-1,2-]	0.005	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Dichloroethene[trans-1,2-]	0.005	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Dichlorobenzene[1,3-]	0.005	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Carbon Tetrachloride	0.005	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Dichloropropene[1,1-]	0.005	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Hexanone[2-]	0.011	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Dichloropropane[2,2-]	0.005	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Acetone	0.011	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Chloroform	0.005	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Benzene	0.005	mg/kg	U

Table D-2.0-2 (continued)

Location ID	Sample ID	Depth (ft)	Media Code)	Analyte	Result	Unit	Report Qualifier
21-01432	AAA1099	0–0.5	ALLH	Trichloroethane[1,1,1-]	0.005	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Bromomethane	0.011	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Chloromethane	0.011	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Iodomethane	0.005	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Dibromomethane	0.005	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Bromochloromethane	0.005	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Vinyl Chloride	0.011	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Chlorobenzene	0.005	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Methylphenol[4-]	0.35	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Dimethylphenol[2,4-]	0.35	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Benzo(b)fluoranthene	0.35	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Fluoranthene	0.35	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Benzo(k)fluoranthene	0.35	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Chrysene	0.35	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Nitroaniline[4-]	1.7	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Pentachlorophenol	1.7	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Acenaphthylene	0.35	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Indeno(1,2,3-cd)pyrene	0.35	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Nitroso-di-n-propylamine[N-]	0.35	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Dinitrotoluene[2,6-]	0.35	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Chloro-3-methylphenol[4-]	0.71	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Benz(a)anthracene	0.35	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Dichlorobenzene[1,3-]	0.35	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Dibenz(a,h)anthracene	0.35	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Dinitro-2-methylphenol[4,6-]	1.7	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Dinitrophenol[2,4-]	1.7	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Trichlorophenol[2,4,6-]	0.35	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Hexachlorobutadiene	0.35	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Fluorene	0.35	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Nitrosodiphenylamine[N-]	0.35	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Butylbenzylphthalate	0.35	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Phenanthrene	0.35	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Di-n-butylphthalate	0.35	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Diethylphthalate	0.35	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Nitroaniline[3-]	1.7	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Nitrobenzene	0.35	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Trichlorophenol[2,4,5-]	0.35	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Chlorophenol[2-]	0.35	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Dichlorobenzene[1,2-]	0.35	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Methylphenol[2-]	0.35	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Benzidine	1.7	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Dichlorobenzidine[3,3'-]	0.71	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Chloronaphthalene[2-]	0.35	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Methylnaphthalene[2-]	0.35	mg/kg	U

Table D-2.0-2 (continued)

Location ID	Sample ID	Depth (ft)	Media Code)	Analyte	Result	Unit	Report Qualifier
21-01432	AAA1099	0–0.5	ALLH	Naphthalene	0.35	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Nitrophenol[2-]	0.35	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Nitroaniline[2-]	1.7	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Acenaphthene	0.35	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Isophorone	0.35	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Hexachlorocyclopentadiene	0.35	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Chlorophenyl-phenyl[4-] Ether	0.35	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Hexachloroethane	0.35	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Benzoic Acid	1.7	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Nitrosodimethylamine[N-]	0.35	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Aniline	0.35	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Benzo(a)pyrene	0.35	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Benzo(g,h,i)perylene	0.35	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Dibenzofuran	0.35	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Dimethyl Phthalate	0.35	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Pyrene	0.35	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Azobenzene	0.35	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Bromophenyl-phenylether[4-]	0.35	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Benzyl Alcohol	0.71	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Nitrophenol[4-]	1.7	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Dinitrotoluene[2,4-]	0.35	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Dichlorophenol[2,4-]	0.35	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Trichlorobenzene[1,2,4-]	0.35	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Anthracene	0.35	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Hexachlorobenzene	0.35	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Di-n-octylphthalate	0.35	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Bis(2-ethylhexyl)phthalate	0.35	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Bis(2-chloroethoxy)methane	0.35	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Bis(2-chloroethyl)ether	0.35	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Phenol	0.35	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Oxybis(1-chloropropane)[2,2'-]	0.35	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Chloroaniline[4-]	0.71	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Dichlorobenzene[1,4-]	0.35	mg/kg	U
21-01432	AAA1099	0–0.5	ALLH	Thorium-228	1.09	pCi/g	None
21-01432	AAA1099	0–0.5	ALLH	Thorium-230	0.67	pCi/g	None
21-01432	AAA1099	0–0.5	ALLH	Thorium-232	1.08	pCi/g	None
21-01432	AAA1099	0–0.5	ALLH	Plutonium-238	0.127	pCi/g	U
21-01432	AAA1099	0–0.5	ALLH	Plutonium-239	11.8	pCi/g	None
21-01432	AAA1099	0–0.5	ALLH	Americium-241	0.598	pCi/g	None
21-01432	AAA1099	0–0.5	ALLH	Tritium	0.211	pCi/g	None
21-01432	AAA1099	0–0.5	ALLH	Strontium-90	0.356	pCi/g	U
21-11294	MD21-01-0241	0.5–0.83	ALLH	Aluminum	6900	mg/kg	None
21-11294	MD21-01-0241	0.5–0.83	ALLH	Arsenic	2.7	mg/kg	None
21-11294	MD21-01-0241	0.5–0.83	ALLH	Barium	100	mg/kg	None

Table D-2.0-2 (continued)

Location ID	Sample ID	Depth (ft)	Media Code)	Analyte	Result	Unit	Report Qualifier
21-11294	MD21-01-0241	0.5–0.83	ALLH	Beryllium	0.5	mg/kg	None
21-11294	MD21-01-0241	0.5–0.83	ALLH	Cadmium	0.15	mg/kg	J
21-11294	MD21-01-0241	0.5–0.83	ALLH	Calcium	2000	mg/kg	None
21-11294	MD21-01-0241	0.5–0.83	ALLH	Chromium	20	mg/kg	None
21-11294	MD21-01-0241	0.5–0.83	ALLH	Cobalt	2.5	mg/kg	J-
21-11294	MD21-01-0241	0.5–0.83	ALLH	Copper	11	mg/kg	None
21-11294	MD21-01-0241	0.5–0.83	ALLH	Iron	9500	mg/kg	None
21-11294	MD21-01-0241	0.5–0.83	ALLH	Lead	28	mg/kg	J+
21-11294	MD21-01-0241	0.5–0.83	ALLH	Lithium	6.1	mg/kg	None
21-11294	MD21-01-0241	0.5–0.83	ALLH	Magnesium	1500	mg/kg	None
21-11294	MD21-01-0241	0.5–0.83	ALLH	Manganese	120	mg/kg	J-
21-11294	MD21-01-0241	0.5–0.83	ALLH	Mercury	25	mg/kg	None
21-11294	MD21-01-0241	0.5–0.83	ALLH	Nickel	5	mg/kg	J-
21-11294	MD21-01-0241	0.5–0.83	ALLH	Perchlorate	0.15	mg/kg	U
21-11294	MD21-01-0241	0.5–0.83	ALLH	Potassium	1000	mg/kg	None
21-11294	MD21-01-0241	0.5–0.83	ALLH	Selenium	0.5	mg/kg	None
21-11294	MD21-01-0241	0.5–0.83	ALLH	Silver	0.25	mg/kg	J
21-11294	MD21-01-0241	0.5–0.83	ALLH	Sodium	80	mg/kg	J
21-11294	MD21-01-0241	0.5–0.83	ALLH	Strontium	20	mg/kg	None
21-11294	MD21-01-0241	0.5–0.83	ALLH	Thallium	0.11	mg/kg	None
21-11294	MD21-01-0241	0.5–0.83	ALLH	Vanadium	14	mg/kg	None
21-11294	MD21-01-0241	0.5–0.83	ALLH	Zinc	29	mg/kg	J-
21-11294	MD21-01-0241	0.5–0.83	ALLH	Acetone	1.1	mg/kg	U
21-11294	MD21-01-0241	0.5–0.83	ALLH	Benzene	0.0069	mg/kg	U
21-11294	MD21-01-0241	0.5–0.83	ALLH	Bromobenzene	0.0069	mg/kg	U
21-11294	MD21-01-0241	0.5–0.83	ALLH	Bromochloromethane	0.0069	mg/kg	U
21-11294	MD21-01-0241	0.5–0.83	ALLH	Bromodichloromethane	0.0069	mg/kg	U
21-11294	MD21-01-0241	0.5–0.83	ALLH	Bromoform	0.0069	mg/kg	U
21-11294	MD21-01-0241	0.5–0.83	ALLH	Bromomethane	0.0069	mg/kg	U
21-11294	MD21-01-0241	0.5–0.83	ALLH	Butanone[2-]	0.028	mg/kg	J
21-11294	MD21-01-0241	0.5–0.83	ALLH	Butylbenzene[n-]	0.0069	mg/kg	U
21-11294	MD21-01-0241	0.5–0.83	ALLH	Butylbenzene[sec-]	0.0069	mg/kg	U
21-11294	MD21-01-0241	0.5–0.83	ALLH	Butylbenzene[tert-]	0.0069	mg/kg	U
21-11294	MD21-01-0241	0.5–0.83	ALLH	Carbon Disulfide	0.0069	mg/kg	U
21-11294	MD21-01-0241	0.5–0.83	ALLH	Carbon Tetrachloride	0.0069	mg/kg	U
21-11294	MD21-01-0241	0.5–0.83	ALLH	Chlorobenzene	0.0069	mg/kg	U
21-11294	MD21-01-0241	0.5–0.83	ALLH	Chlorodibromomethane	0.0069	mg/kg	U
21-11294	MD21-01-0241	0.5–0.83	ALLH	Chloroethane	0.0069	mg/kg	U
21-11294	MD21-01-0241	0.5–0.83	ALLH	Chloroform	0.0069	mg/kg	U
21-11294	MD21-01-0241	0.5–0.83	ALLH	Chloromethane	0.0069	mg/kg	U
21-11294	MD21-01-0241	0.5–0.83	ALLH	Chlorotoluene[2-]	0.0069	mg/kg	U
21-11294	MD21-01-0241	0.5–0.83	ALLH	Chlorotoluene[4-]	0.0069	mg/kg	U

Table D-2.0-2 (continued)

Location ID	Sample ID	Depth (ft)	Media Code)	Analyte	Result	Unit	Report Qualifier
21-11294	MD21-01-0241	0.5–0.83	ALLH	Dibromo-3-Chloropropane[1,2-]	0.0069	mg/kg	U
21-11294	MD21-01-0241	0.5–0.83	ALLH	Dibromoethane[1,2-]	0.0069	mg/kg	U
21-11294	MD21-01-0241	0.5–0.83	ALLH	Dibromomethane	0.0069	mg/kg	U
21-11294	MD21-01-0241	0.5–0.83	ALLH	Dichlorobenzene[1,2-]	0.0069	mg/kg	U
21-11294	MD21-01-0241	0.5–0.83	ALLH	Dichlorobenzene[1,3-]	0.0069	mg/kg	U
21-11294	MD21-01-0241	0.5–0.83	ALLH	Dichlorobenzene[1,4-]	0.0069	mg/kg	U
21-11294	MD21-01-0241	0.5–0.83	ALLH	Dichlorodifluoromethane	0.0069	mg/kg	U
21-11294	MD21-01-0241	0.5–0.83	ALLH	Dichloroethane[1,1-]	0.0069	mg/kg	U
21-11294	MD21-01-0241	0.5–0.83	ALLH	Dichloroethane[1,2-]	0.0069	mg/kg	U
21-11294	MD21-01-0241	0.5–0.83	ALLH	Dichloroethene[1,1-]	0.0069	mg/kg	U
21-11294	MD21-01-0241	0.5–0.83	ALLH	Dichloroethene[cis-1,2-]	0.0069	mg/kg	U
21-11294	MD21-01-0241	0.5–0.83	ALLH	Dichloroethene[trans-1,2-]	0.0069	mg/kg	U
21-11294	MD21-01-0241	0.5–0.83	ALLH	Dichloropropane[1,2-]	0.0069	mg/kg	U
21-11294	MD21-01-0241	0.5–0.83	ALLH	Dichloropropane[1,3-]	0.0069	mg/kg	U
21-11294	MD21-01-0241	0.5–0.83	ALLH	Dichloropropane[2,2-]	0.0069	mg/kg	U
21-11294	MD21-01-0241	0.5–0.83	ALLH	Dichloropropene[1,1-]	0.0069	mg/kg	U
21-11294	MD21-01-0241	0.5–0.83	ALLH	Dichloropropene[cis-1,3-]	0.0069	mg/kg	U
21-11294	MD21-01-0241	0.5–0.83	ALLH	Dichloropropene[trans-1,3-]	0.0069	mg/kg	U
21-11294	MD21-01-0241	0.5–0.83	ALLH	Ethylbenzene	0.0069	mg/kg	U
21-11294	MD21-01-0241	0.5–0.83	ALLH	Hexanone[2-]	0.035	mg/kg	U
21-11294	MD21-01-0241	0.5–0.83	ALLH	Iodomethane	0.0069	mg/kg	U
21-11294	MD21-01-0241	0.5–0.83	ALLH	Isopropylbenzene	0.0069	mg/kg	U
21-11294	MD21-01-0241	0.5–0.83	ALLH	Isopropyltoluene[4-]	0.034	mg/kg	None
21-11294	MD21-01-0241	0.5–0.83	ALLH	Methyl-2-pentanone[4-]	0.035	mg/kg	U
21-11294	MD21-01-0241	0.5–0.83	ALLH	Methylene Chloride	0.0069	mg/kg	U
21-11294	MD21-01-0241	0.5–0.83	ALLH	Propylbenzene[1-]	0.0069	mg/kg	U
21-11294	MD21-01-0241	0.5–0.83	ALLH	Styrene	0.0069	mg/kg	U
21-11294	MD21-01-0241	0.5–0.83	ALLH	Tetrachloroethane[1,1,1,2-]	0.0069	mg/kg	U
21-11294	MD21-01-0241	0.5–0.83	ALLH	Tetrachloroethane[1,1,2,2-]	0.0069	mg/kg	U
21-11294	MD21-01-0241	0.5–0.83	ALLH	Tetrachloroethene	0.0069	mg/kg	U
21-11294	MD21-01-0241	0.5–0.83	ALLH	Toluene	0.011	mg/kg	None
21-11294	MD21-01-0241	0.5–0.83	ALLH	Trichloro-1,2,2-trifluoroethane[1,1,2-]	0.0069	mg/kg	U
21-11294	MD21-01-0241	0.5–0.83	ALLH	Trichloroethane[1,1,1-]	0.0069	mg/kg	U
21-11294	MD21-01-0241	0.5–0.83	ALLH	Trichloroethane[1,1,2-]	0.0069	mg/kg	U
21-11294	MD21-01-0241	0.5–0.83	ALLH	Trichloroethene	0.0069	mg/kg	U
21-11294	MD21-01-0241	0.5–0.83	ALLH	Trichlorofluoromethane	0.0069	mg/kg	U
21-11294	MD21-01-0241	0.5–0.83	ALLH	Trichloropropane[1,2,3-]	0.0069	mg/kg	U
21-11294	MD21-01-0241	0.5–0.83	ALLH	Trimethylbenzene[1,2,4-]	0.0069	mg/kg	U
21-11294	MD21-01-0241	0.5–0.83	ALLH	Trimethylbenzene[1,3,5-]	0.0069	mg/kg	U
21-11294	MD21-01-0241	0.5–0.83	ALLH	Vinyl Chloride	0.0069	mg/kg	U
21-11294	MD21-01-0241	0.5–0.83	ALLH	Xylene (Total)	0.0069	mg/kg	U
21-11294	MD21-01-0241	0.5–0.83	ALLH	Xylene[1,2-]	0.0069	mg/kg	U

Table D-2.0-2 (continued)

Location ID	Sample ID	Depth (ft)	Media Code)	Analyte	Result	Unit	Report Qualifier
21-11294	MD21-01-0241	0.5–0.83	ALLH	Americium-241	0.85	pCi/g	None
21-11294	MD21-01-0241	0.5–0.83	ALLH	Plutonium-238	0.182	pCi/g	None
21-11294	MD21-01-0241	0.5–0.83	ALLH	Plutonium-239	27.4	pCi/g	None
21-11294	MD21-01-0241	0.5–0.83	ALLH	Thorium-228	1.59	pCi/g	None
21-11294	MD21-01-0241	0.5–0.83	ALLH	Thorium-230	1.12	pCi/g	None
21-11294	MD21-01-0241	0.5–0.83	ALLH	Thorium-232	1.53	pCi/g	None
21-11294	MD21-01-0241	0.5–0.83	ALLH	Tritium	0.048	pCi/g	U
21-11294	MD21-01-0241	0.5–0.83	ALLH	Uranium-234	1.46	pCi/g	None
21-11294	MD21-01-0241	0.5–0.83	ALLH	Uranium-235	0.072	pCi/g	None
21-11294	MD21-01-0241	0.5–0.83	ALLH	Uranium-238	1.6	pCi/g	None

Table D-2.0-3
Analytical Results for Waste Samples

Location ID	Sample ID	Waste Matrix	Analyte	Result	Units	Report Qualifier
NA [a]	MD21-01-0297	SLW [b]	Aldrin	0.011	mg/kg	U
NA	MD21-01-0297	SLW	Aluminum	3800	mg/kg	None
NA	MD21-01-0297	SLW	Americium-241	22.4	pCi/g	None
NA	MD21-01-0297	SLW	Americium-241	21.4	pCi/g	None
NA	MD21-01-0297	SLW	Antimony	1.29	mg/kg	J-
NA	MD21-01-0297	SLW	Antimony-125	-0.0581	pCi/g	U
NA	MD21-01-0297	SLW	Aroclor-1016	0.22	mg/kg	U
NA	MD21-01-0297	SLW	Aroclor-1221	0.44	mg/kg	U
NA	MD21-01-0297	SLW	Aroclor-1232	0.22	mg/kg	U
NA	MD21-01-0297	SLW	Aroclor-1242	0.22	mg/kg	U
NA	MD21-01-0297	SLW	Aroclor-1248	0.22	mg/kg	U
NA	MD21-01-0297	SLW	Aroclor-1254	0.22	mg/kg	U
NA	MD21-01-0297	SLW	Aroclor-1260	0.11	mg/kg	J
NA	MD21-01-0297	SLW	Arsenic	60	mg/kg	None
NA	MD21-01-0297	SLW	Arsenic	28	µg/L	J
NA	MD21-01-0297	SLW	Barium	710	µg/L	None
NA	MD21-01-0297	SLW	Barium	480	mg/kg	None
NA	MD21-01-0297	SLW	Benzene	50	µg/L	U
NA	MD21-01-0297	SLW	Beryllium	0.2	mg/kg	J
NA	MD21-01-0297	SLW	BHC[alpha-]	0.011	mg/kg	U
NA	MD21-01-0297	SLW	BHC[beta-]	0.011	mg/kg	U
NA	MD21-01-0297	SLW	BHC[delta-]	0.011	mg/kg	U
NA	MD21-01-0297	SLW	BHC[gamma-]	0.011	mg/kg	U
NA	MD21-01-0297	SLW	Bismuth-211	1.27	pCi/g	U
NA	MD21-01-0297	SLW	Bismuth-214	0.619	pCi/g	U
NA	MD21-01-0297	SLW	Bromide	15.3	mg/kg	None
NA	MD21-01-0297	SLW	Butanone[2-]	1000	µg/L	U

Table D-2.0-3 (continued)

Location ID	Sample ID	Waste Matrix	Analyte	Result	Units	Report Qualifier
NA	MD21-01-0297	SLW	Cadmium	1.73	µg/L	U
NA	MD21-01-0297	SLW	Cadmium	3.5	mg/kg	J
NA	MD21-01-0297	SLW	Calcium	2800	mg/kg	None
NA	MD21-01-0297	SLW	Carbon Tetrachloride	50	µg/L	U
NA	MD21-01-0297	SLW	Cesium-134	0.0507	pCi/g	U
NA	MD21-01-0297	SLW	Cesium-137	0.163	pCi/g	J
NA	MD21-01-0297	SLW	Chlordane[alpha-]	0.011	mg/kg	U
NA	MD21-01-0297	SLW	Chlordane[gamma-]	0.011	mg/kg	U
NA	MD21-01-0297	SLW	Chloride	346	mg/kg	None
NA	MD21-01-0297	SLW	Chlorobenzene	50	µg/L	U
NA	MD21-01-0297	SLW	Chloroform	50	µg/L	U
NA	MD21-01-0297	SLW	Chromium	330	mg/kg	None
NA	MD21-01-0297	SLW	Chromium	28	µg/L	U
NA	MD21-01-0297	SLW	Cobalt	5.3	mg/kg	J
NA	MD21-01-0297	SLW	Cobalt-60	-0.0162	pCi/g	U
NA	MD21-01-0297	SLW	Copper	230	mg/kg	R
NA	MD21-01-0297	SLW	DDD[4,4'-]	0.022	mg/kg	U
NA	MD21-01-0297	SLW	DDE[4,4'-]	0.022	mg/kg	U
NA	MD21-01-0297	SLW	DDT[4,4'-]	0.018	mg/kg	J
NA	MD21-01-0297	SLW	Dichlorobenzene[1,4-]	5	µg/L	U
NA	MD21-01-0297	SLW	Dichloroethane[1,2-]	50	µg/L	U
NA	MD21-01-0297	SLW	Dichloroethene[1,1-]	50	µg/L	U
NA	MD21-01-0297	SLW	Dieldrin	0.022	mg/kg	U
NA	MD21-01-0297	SLW	Dinitrotoluene[2,4-]	5	µg/L	U
NA	MD21-01-0297	SLW	Endosulfan I	0.011	mg/kg	U
NA	MD21-01-0297	SLW	Endosulfan II	0.022	mg/kg	U
NA	MD21-01-0297	SLW	Endosulfan Sulfate	0.022	mg/kg	U
NA	MD21-01-0297	SLW	Endrin	0.022	mg/kg	U
NA	MD21-01-0297	SLW	Endrin Aldehyde	0.0022	mg/kg	U
NA	MD21-01-0297	SLW	Endrin Ketone	0.022	mg/kg	U
NA	MD21-01-0297	SLW	Europium-152	0.0536	pCi/g	U
NA	MD21-01-0297	SLW	Europium-154	-0.0516	pCi/g	U
NA	MD21-01-0297	SLW	Europium-155	0.0752	pCi/g	U
NA	MD21-01-0297	SLW	Fluoride	1.18	mg/kg	U
NA	MD21-01-0297	SLW	Heptachlor	0.011	mg/kg	U
NA	MD21-01-0297	SLW	Heptachlor Epoxide	0.011	mg/kg	U
NA	MD21-01-0297	SLW	Hexachlorobenzene	5	µg/L	U
NA	MD21-01-0297	SLW	Hexachlorobutadiene	5	µg/L	U
NA	MD21-01-0297	SLW	Hexachloroethane	5	µg/L	U
NA	MD21-01-0297	SLW	Iron	110000	mg/kg	None
NA	MD21-01-0297	SLW	Lead	19	µg/L	U
NA	MD21-01-0297	SLW	Lead	150	mg/kg	J-
NA	MD21-01-0297	SLW	Lead-212	0.526	pCi/g	None
NA	MD21-01-0297	SLW	Lead-214	0.854	pCi/g	None

Table D-2.0-3 (continued)

Location ID	Sample ID	Waste Matrix	Analyte	Result	Units	Report Qualifier
NA	MD21-01-0297	SLW	Lithium	3.2	mg/kg	J
NA	MD21-01-0297	SLW	Magnesium	850	mg/kg	None
NA	MD21-01-0297	SLW	Manganese	300	mg/kg	J-
NA	MD21-01-0297	SLW	Mercury	1900	mg/kg	None
NA	MD21-01-0297	SLW	Mercury	15	µg/L	J
NA	MD21-01-0297	SLW	Methoxychlor[4,4'-]	0.11	mg/kg	U
NA	MD21-01-0297	SLW	Methylphenol[2-]	5	µg/L	U
NA	MD21-01-0297	SLW	Nickel	30	mg/kg	None
NA	MD21-01-0297	SLW	Nitrobenzene	5	µg/L	U
NA	MD21-01-0297	SLW	Oxalate	30.9	mg/kg	None
NA	MD21-01-0297	SLW	Pentachlorophenol	25	µg/L	U
NA	MD21-01-0297	SLW	Perchlorate	0.0804	mg/kg	U
NA	MD21-01-0297	SLW	Plutonium-238	3.95	pCi/g	None
NA	MD21-01-0297	SLW	Plutonium-239	579	pCi/g	None
NA	MD21-01-0297	SLW	Potassium	510	mg/kg	J
NA	MD21-01-0297	SLW	Potassium-40	10.8	pCi/g	None
NA	MD21-01-0297	SLW	Protactinium-233	0.0334	pCi/g	U
NA	MD21-01-0297	SLW	Pyridine	5	µg/L	U
NA	MD21-01-0297	SLW	Ruthenium-106	-0.247	pCi/g	U
NA	MD21-01-0297	SLW	Selenium	28	µg/L	J
NA	MD21-01-0297	SLW	Selenium	1.94	mg/kg	None
NA	MD21-01-0297	SLW	Silver	38	µg/L	U
NA	MD21-01-0297	SLW	Silver	6	mg/kg	None
NA	MD21-01-0297	SLW	Sodium	110	mg/kg	J
NA	MD21-01-0297	SLW	Strontium	33	mg/kg	None
NA	MD21-01-0297	SLW	Strontium-90	1.89	pCi/g	U
NA	MD21-01-0297	SLW	Sulfate	125000	mg/kg	None
NA	MD21-01-0297	SLW	Tetrachloroethene	50	µg/L	U
NA	MD21-01-0297	SLW	Thallium	0.357	mg/kg	U
NA	MD21-01-0297	SLW	Thallium-208	0.323	pCi/g	U
NA	MD21-01-0297	SLW	Thorium-227	0.265	pCi/g	U
NA	MD21-01-0297	SLW	Thorium-228	0.261	pCi/g	U
NA	MD21-01-0297	SLW	Thorium-230	0.213	pCi/g	U
NA	MD21-01-0297	SLW	Thorium-232	0.257	pCi/g	None
NA	MD21-01-0297	SLW	Thorium-234	5.87	pCi/g	None
NA	MD21-01-0297	SLW	Trichloroethene	50	µg/L	U
NA	MD21-01-0297	SLW	Trichlorophenol[2,4,5-]	25	µg/L	U
NA	MD21-01-0297	SLW	Trichlorophenol[2,4,6-]	5	µg/L	U
NA	MD21-01-0297	SLW	Tritium	0.005041753	pCi/g	U
NA	MD21-01-0297	SLW	Uranium-234	9.4	pCi/g	None
NA	MD21-01-0297	SLW	Uranium-235	0.636	pCi/g	None
NA	MD21-01-0297	SLW	Uranium-235	0.483	pCi/g	None
NA	MD21-01-0297	SLW	Uranium-238	5.89	pCi/g	None
NA	MD21-01-0297	SLW	Vanadium	41	mg/kg	None

Table D-2.0-3 (continued)

Location ID	Sample ID	Waste Matrix	Analyte	Result	Units	Report Qualifier
NA	MD21-01-0297	SLW	Vinyl Chloride	100	µg/L	U
NA	MD21-01-0297	SLW	Zinc	1200	mg/kg	None
21-11070	MD21-99-0171	W [c]	Acenaphthene	10	µg/L	U
21-11070	MD21-99-0171	W	Acenaphthylene	10	µg/L	U
21-11070	MD21-99-0171	W	Acetone	20	µg/L	U
21-11070	MD21-99-0171	W	Actinium-228	3	pCi/L	U
21-11070	MD21-99-0171	W	Aluminum	328	µg/L	None
21-11070	MD21-99-0171	W	Americium-241	1.1	pCi/L	U
21-11070	MD21-99-0171	W	Aniline	21	µg/L	U
21-11070	MD21-99-0171	W	Annihilation Radiation	-18.8	pCi/L	U
21-11070	MD21-99-0171	W	Anthracene	10	µg/L	U
21-11070	MD21-99-0171	W	Antimony	3.4	µg/L	U
21-11070	MD21-99-0171	W	Aroclor-1016	1	µg/L	UJ
21-11070	MD21-99-0171	W	Aroclor-1221	2.1	µg/L	UJ
21-11070	MD21-99-0171	W	Aroclor-1232	1	µg/L	UJ
21-11070	MD21-99-0171	W	Aroclor-1242	1	µg/L	UJ
21-11070	MD21-99-0171	W	Aroclor-1248	1	µg/L	UJ
21-11070	MD21-99-0171	W	Aroclor-1254	1	µg/L	UJ
21-11070	MD21-99-0171	W	Aroclor-1260	1	µg/L	UJ
21-11070	MD21-99-0171	W	Arsenic	2.7	µg/L	U
21-11070	MD21-99-0171	W	Azobenzene	21	µg/L	U
21-11070	MD21-99-0171	W	Barium	123	µg/L	J
21-11070	MD21-99-0171	W	Barium-140	5	pCi/L	U
21-11070	MD21-99-0171	W	Benzene	5	µg/L	U
21-11070	MD21-99-0171	W	Benzidine	10	µg/L	U
21-11070	MD21-99-0171	W	Benzo(a)anthracene	10	µg/L	U
21-11070	MD21-99-0171	W	Benzo(a)pyrene	10	µg/L	U
21-11070	MD21-99-0171	W	Benzo(b)fluoranthene	10	µg/L	U
21-11070	MD21-99-0171	W	Benzo(g,h,i)perylene	10	µg/L	U
21-11070	MD21-99-0171	W	Benzo(k)fluoranthene	10	µg/L	U
21-11070	MD21-99-0171	W	Benzoic Acid	52	µg/L	U
21-11070	MD21-99-0171	W	Benzyl Alcohol	21	µg/L	U
21-11070	MD21-99-0171	W	Beryllium	0.43	µg/L	U
21-11070	MD21-99-0171	W	Bis(2-chloroethoxy)methane	10	µg/L	U
21-11070	MD21-99-0171	W	Bis(2-chloroethyl)ether	10	µg/L	U
21-11070	MD21-99-0171	W	Bis(2-ethylhexyl)phthalate	3.8	µg/L	U
21-11070	MD21-99-0171	W	Bismuth-211	2	pCi/L	U
21-11070	MD21-99-0171	W	Bismuth-212	-18	pCi/L	U
21-11070	MD21-99-0171	W	Bismuth-214	-1.5	pCi/L	U
21-11070	MD21-99-0171	W	Bromobenzene	5	µg/L	U
21-11070	MD21-99-0171	W	Bromochloromethane	5	µg/L	U
21-11070	MD21-99-0171	W	Bromodichloromethane	5	µg/L	U
21-11070	MD21-99-0171	W	Bromoform	5	µg/L	U
21-11070	MD21-99-0171	W	Bromomethane	10	µg/L	U

Table D-2.0-3 (continued)

Location ID	Sample ID	Waste Matrix	Analyte	Result	Units	Report Qualifier
21-11070	MD21-99-0171	W	Bromophenyl-phenylether[4-]	10	µg/L	U
21-11070	MD21-99-0171	W	Butanone[2-]	20	µg/L	U
21-11070	MD21-99-0171	W	Butylbenzene[n-]	5	µg/L	U
21-11070	MD21-99-0171	W	Butylbenzene[sec-]	5	µg/L	U
21-11070	MD21-99-0171	W	Butylbenzene[tert-]	5	µg/L	U
21-11070	MD21-99-0171	W	Butylbenzylphthalate	10	µg/L	U
21-11070	MD21-99-0171	W	Cadmium	0.36	µg/L	U
21-11070	MD21-99-0171	W	Cadmium-109	7	pCi/L	U
21-11070	MD21-99-0171	W	Calcium	15800	µg/L	None
21-11070	MD21-99-0171	W	Carbazole	10	µg/L	U
21-11070	MD21-99-0171	W	Carbon Disulfide	5	µg/L	U
21-11070	MD21-99-0171	W	Carbon Tetrachloride	5	µg/L	U
21-11070	MD21-99-0171	W	Cerium-139	-1.08	pCi/L	U
21-11070	MD21-99-0171	W	Cerium-144	-5.4	pCi/L	U
21-11070	MD21-99-0171	W	Cesium-134	-0.4	pCi/L	U
21-11070	MD21-99-0171	W	Cesium-137	0	pCi/L	U
21-11070	MD21-99-0171	W	Chemical Oxygen Demand	20800	µg/L	None
21-11070	MD21-99-0171	W	Chloro-3-methylphenol[4-]	21	µg/L	U
21-11070	MD21-99-0171	W	Chloroaniline[4-]	21	µg/L	U
21-11070	MD21-99-0171	W	Chlorobenzene	5	µg/L	U
21-11070	MD21-99-0171	W	Chlorodibromomethane	5	µg/L	U
21-11070	MD21-99-0171	W	Chloroethane	10	µg/L	U
21-11070	MD21-99-0171	W	Chloroform	5	µg/L	U
21-11070	MD21-99-0171	W	Chloromethane	10	µg/L	U
21-11070	MD21-99-0171	W	Chloronaphthalene[2-]	10	µg/L	U
21-11070	MD21-99-0171	W	Chlorophenol[2-]	10	µg/L	U
21-11070	MD21-99-0171	W	Chlorophenyl-phenyl[4-] Ether	10	µg/L	U
21-11070	MD21-99-0171	W	Chlorotoluene[2-]	5	µg/L	U
21-11070	MD21-99-0171	W	Chlorotoluene[4-]	5	µg/L	U
21-11070	MD21-99-0171	W	Chromium	1.9	µg/L	J
21-11070	MD21-99-0171	W	Chrysene	10	µg/L	U
21-11070	MD21-99-0171	W	Cobalt	0.96	µg/L	U
21-11070	MD21-99-0171	W	Cobalt-57	-0.92	pCi/L	U
21-11070	MD21-99-0171	W	Cobalt-60	0.2	pCi/L	U
21-11070	MD21-99-0171	W	Copper	1.4	µg/L	J
21-11070	MD21-99-0171	W	Dibenz(a,h)anthracene	10	µg/L	U
21-11070	MD21-99-0171	W	Dibenzofuran	10	µg/L	U
21-11070	MD21-99-0171	W	Dibromo-3-Chloropropane[1,2-]	10	µg/L	U
21-11070	MD21-99-0171	W	Dibromoethane[1,2-]	5	µg/L	U
21-11070	MD21-99-0171	W	Dibromomethane	5	µg/L	U
21-11070	MD21-99-0171	W	Dichlorobenzene[1,2-]	5	µg/L	U
21-11070	MD21-99-0171	W	Dichlorobenzene[1,2-]	10	µg/L	U
21-11070	MD21-99-0171	W	Dichlorobenzene[1,3-]	10	µg/L	U
21-11070	MD21-99-0171	W	Dichlorobenzene[1,3-]	5	µg/L	U

Table D-2.0-3 (continued)

Location ID	Sample ID	Waste Matrix	Analyte	Result	Units	Report Qualifier
21-11070	MD21-99-0171	W	Dichlorobenzene[1,4-]	5	µg/L	U
21-11070	MD21-99-0171	W	Dichlorobenzene[1,4-]	10	µg/L	U
21-11070	MD21-99-0171	W	Dichlorobenzidine[3,3'-]	21	µg/L	U
21-11070	MD21-99-0171	W	Dichlorodifluoromethane	10	µg/L	U
21-11070	MD21-99-0171	W	Dichloroethane[1,1-]	5	µg/L	U
21-11070	MD21-99-0171	W	Dichloroethane[1,2-]	5	µg/L	U
21-11070	MD21-99-0171	W	Dichloroethene[1,1-]	5	µg/L	U
21-11070	MD21-99-0171	W	Dichloroethene[cis-1,2-]	5	µg/L	U
21-11070	MD21-99-0171	W	Dichloroethene[trans-1,2-]	5	µg/L	U
21-11070	MD21-99-0171	W	Dichlorophenol[2,4-]	10	µg/L	U
21-11070	MD21-99-0171	W	Dichloropropane[1,2-]	5	µg/L	U
21-11070	MD21-99-0171	W	Dichloropropane[1,3-]	5	µg/L	U
21-11070	MD21-99-0171	W	Dichloropropane[2,2-]	5	µg/L	U
21-11070	MD21-99-0171	W	Dichloropropene[1,1-]	5	µg/L	U
21-11070	MD21-99-0171	W	Dichloropropene[cis-1,3-]	5	µg/L	U
21-11070	MD21-99-0171	W	Dichloropropene[trans-1,3-]	5	µg/L	U
21-11070	MD21-99-0171	W	Diethylphthalate	10	µg/L	U
21-11070	MD21-99-0171	W	Dimethyl Phthalate	10	µg/L	U
21-11070	MD21-99-0171	W	Dimethylphenol[2,4-]	10	µg/L	U
21-11070	MD21-99-0171	W	Di-n-butylphthalate	10	µg/L	U
21-11070	MD21-99-0171	W	Dinitro-2-methylphenol[4,6-]	52	µg/L	U
21-11070	MD21-99-0171	W	Dinitrophenol[2,4-]	52	µg/L	U
21-11070	MD21-99-0171	W	Dinitrotoluene[2,4-]	10	µg/L	U
21-11070	MD21-99-0171	W	Dinitrotoluene[2,6-]	10	µg/L	U
21-11070	MD21-99-0171	W	Di-n-octylphthalate	10	µg/L	U
21-11070	MD21-99-0171	W	Ethylbenzene	5	µg/L	U
21-11070	MD21-99-0171	W	Europium-152	-0.1	pCi/L	U
21-11070	MD21-99-0171	W	Fluoranthene	10	µg/L	U
21-11070	MD21-99-0171	W	Fluorene	10	µg/L	U
21-11070	MD21-99-0171	W	Hexachlorobenzene	10	µg/L	U
21-11070	MD21-99-0171	W	Hexachlorobutadiene	5	µg/L	U
21-11070	MD21-99-0171	W	Hexachlorobutadiene	10	µg/L	U
21-11070	MD21-99-0171	W	Hexachlorocyclopentadiene	10	µg/L	U
21-11070	MD21-99-0171	W	Hexachloroethane	10	µg/L	U
21-11070	MD21-99-0171	W	Hexanone[2-]	20	µg/L	U
21-11070	MD21-99-0171	W	Indeno(1,2,3-cd)pyrene	10	µg/L	U
21-11070	MD21-99-0171	W	Iodomethane	5	µg/L	U
21-11070	MD21-99-0171	W	Iron	2590	µg/L	None
21-11070	MD21-99-0171	W	Isophorone	10	µg/L	U
21-11070	MD21-99-0171	W	Isopropylbenzene	5	µg/L	U
21-11070	MD21-99-0171	W	Isopropyltoluene[4-]	5	µg/L	U
21-11070	MD21-99-0171	W	Lanthanum-140	-11	pCi/L	U
21-11070	MD21-99-0171	W	Lead	1.3	µg/L	U
21-11070	MD21-99-0171	W	Lead-211	-4	pCi/L	U

Table D-2.0-3 (continued)

Location ID	Sample ID	Waste Matrix	Analyte	Result	Units	Report Qualifier
21-11070	MD21-99-0171	W	Lead-212	2.8	pCi/L	U
21-11070	MD21-99-0171	W	Lead-214	-0.2	pCi/L	U
21-11070	MD21-99-0171	W	Magnesium	5790	µg/L	None
21-11070	MD21-99-0171	W	Manganese	113	µg/L	None
21-11070	MD21-99-0171	W	Manganese-54	-0.3	pCi/L	U
21-11070	MD21-99-0171	W	Mercury	5.4	µg/L	None
21-11070	MD21-99-0171	W	Mercury-203	0.7	pCi/L	U
21-11070	MD21-99-0171	W	Methyl-2-pentanone[4-]	20	µg/L	U
21-11070	MD21-99-0171	W	Methylene Chloride	2.4	µg/L	U
21-11070	MD21-99-0171	W	Methylnaphthalene[2-]	10	µg/L	U
21-11070	MD21-99-0171	W	Methylphenol[2-]	10	µg/L	U
21-11070	MD21-99-0171	W	Methylphenol[4-]	10	µg/L	U
21-11070	MD21-99-0171	W	Naphthalene	5	µg/L	U
21-11070	MD21-99-0171	W	Naphthalene	10	µg/L	U
21-11070	MD21-99-0171	W	Neptunium-237	-7.4	pCi/L	U
21-11070	MD21-99-0171	W	Nickel	1.8	µg/L	J
21-11070	MD21-99-0171	W	Nitrate-Nitrite as N	50	µg/L	U
21-11070	MD21-99-0171	W	Nitroaniline[2-]	52	µg/L	U
21-11070	MD21-99-0171	W	Nitroaniline[3-]	52	µg/L	U
21-11070	MD21-99-0171	W	Nitroaniline[4-]	21	µg/L	U
21-11070	MD21-99-0171	W	Nitrobenzene	10	µg/L	U
21-11070	MD21-99-0171	W	Nitrophenol[2-]	10	µg/L	U
21-11070	MD21-99-0171	W	Nitrophenol[4-]	52	µg/L	U
21-11070	MD21-99-0171	W	Nitrosodimethylamine[N-]	10	µg/L	U
21-11070	MD21-99-0171	W	Nitroso-di-n-propylamine[N-]	10	µg/L	U
21-11070	MD21-99-0171	W	Nitrosodiphenylamine[N-]	10	µg/L	U
21-11070	MD21-99-0171	W	Oxybis(1-chloropropane)[2,2'-]	10	µg/L	U
21-11070	MD21-99-0171	W	Pentachlorophenol	52	µg/L	U
21-11070	MD21-99-0171	W	pH	7.5	SU	None
21-11070	MD21-99-0171	W	Phenanthrene	10	µg/L	U
21-11070	MD21-99-0171	W	Phenol	10	µg/L	U
21-11070	MD21-99-0171	W	Plutonium-238	-0.0074	pCi/L	U
21-11070	MD21-99-0171	W	Plutonium-239	0.0117	pCi/L	U
21-11070	MD21-99-0171	W	Potassium	3380	µg/L	J
21-11070	MD21-99-0171	W	Potassium-40	-70	pCi/L	U
21-11070	MD21-99-0171	W	Propylbenzene[1-]	5	µg/L	U
21-11070	MD21-99-0171	W	Protactinium-231	33	pCi/L	U
21-11070	MD21-99-0171	W	Protactinium-233	0.3	pCi/L	U
21-11070	MD21-99-0171	W	Protactinium-234M	270	pCi/L	U
21-11070	MD21-99-0171	W	Pyrene	10	µg/L	U
21-11070	MD21-99-0171	W	Pyridine	10	µg/L	U
21-11070	MD21-99-0171	W	Radium-223	-34	pCi/L	U
21-11070	MD21-99-0171	W	Radium-224	-78	pCi/L	U
21-11070	MD21-99-0171	W	Radium-226	-21	pCi/L	U

Table D-2.0-3 (continued)

Location ID	Sample ID	Waste Matrix	Analyte	Result	Units	Report Qualifier
21-11070	MD21-99-0171	W	Radon-219	-3	pCi/L	U
21-11070	MD21-99-0171	W	Ruthenium-106	-3	pCi/L	U
21-11070	MD21-99-0171	W	Selenium	2.9	µg/L	U
21-11070	MD21-99-0171	W	Selenium-75	1	pCi/L	U
21-11070	MD21-99-0171	W	Silver	0.7	µg/L	U
21-11070	MD21-99-0171	W	Sodium	8330	µg/L	None
21-11070	MD21-99-0171	W	Sodium-22	0.1	pCi/L	U
21-11070	MD21-99-0171	W	Strontium-85	-4.9	pCi/L	U
21-11070	MD21-99-0171	W	Strontium-90	0.06	pCi/L	U
21-11070	MD21-99-0171	W	Styrene	5	µg/L	U
21-11070	MD21-99-0171	W	Tetrachloroethane[1,1,1,2-]	5	µg/L	U
21-11070	MD21-99-0171	W	Tetrachloroethane[1,1,2,2-]	5	µg/L	U
21-11070	MD21-99-0171	W	Tetrachloroethene	5	µg/L	U
21-11070	MD21-99-0171	W	Thallium	5.2	µg/L	U
21-11070	MD21-99-0171	W	Thallium-208	-0.3	pCi/L	U
21-11070	MD21-99-0171	W	Thorium-227	-15.7	pCi/L	U
21-11070	MD21-99-0171	W	Thorium-228	0.007	pCi/L	U
21-11070	MD21-99-0171	W	Thorium-230	0.141	pCi/L	U
21-11070	MD21-99-0171	W	Thorium-232	-0.0009	pCi/L	U
21-11070	MD21-99-0171	W	Thorium-234	-60	pCi/L	U
21-11070	MD21-99-0171	W	Tin-113	-0.3	pCi/L	U
21-11070	MD21-99-0171	W	Toluene	5	µg/L	U
21-11070	MD21-99-0171	W	Total Suspended Solids	20000	µg/L	U
21-11070	MD21-99-0171	W	Trichloro-1,2,2-trifluoroethane[1,1,2-]	5	µg/L	U
21-11070	MD21-99-0171	W	Trichlorobenzene[1,2,3-]	5	µg/L	U
21-11070	MD21-99-0171	W	Trichlorobenzene[1,2,4-]	5	µg/L	U
21-11070	MD21-99-0171	W	Trichlorobenzene[1,2,4-]	10	µg/L	U
21-11070	MD21-99-0171	W	Trichloroethane[1,1,1-]	5	µg/L	U
21-11070	MD21-99-0171	W	Trichloroethane[1,1,2-]	5	µg/L	U
21-11070	MD21-99-0171	W	Trichloroethene	5	µg/L	U
21-11070	MD21-99-0171	W	Trichlorofluoromethane	5	µg/L	U
21-11070	MD21-99-0171	W	Trichlorophenol[2,4,5-]	52	µg/L	U
21-11070	MD21-99-0171	W	Trichlorophenol[2,4,6-]	10	µg/L	U
21-11070	MD21-99-0171	W	Trichloropropane[1,2,3-]	5	µg/L	U
21-11070	MD21-99-0171	W	Trimethylbenzene[1,2,4-]	5	µg/L	U
21-11070	MD21-99-0171	W	Trimethylbenzene[1,3,5-]	5	µg/L	U
21-11070	MD21-99-0171	W	Tritium	83	pCi/L	U
21-11070	MD21-99-0171	W	Uranium-234	0.103	pCi/L	None
21-11070	MD21-99-0171	W	Uranium-235	0.3	pCi/L	U
21-11070	MD21-99-0171	W	Uranium-235	0.025	pCi/L	U
21-11070	MD21-99-0171	W	Uranium-238	0.067	pCi/L	U
21-11070	MD21-99-0171	W	Vanadium	1.1	µg/L	J
21-11070	MD21-99-0171	W	Vinyl Chloride	10	µg/L	U
21-11070	MD21-99-0171	W	Xylene (Total)	5	µg/L	U

Table D-2.0-3 (continued)

Location ID	Sample ID	Waste Matrix	Analyte	Result	Units	Report Qualifier
21-11070	MD21-99-0171	W	Xylene[1,2-]	5	µg/L	U
21-11070	MD21-99-0171	W	Yttrium-88	1.2	pCi/L	U
21-11070	MD21-99-0171	W	Zinc	5.1	µg/L	U
21-11070	MD21-99-0171	W	Zinc-65	1.7	pCi/L	U
21-11070	MD21-99-0172	SLW	Acenaphthene	0.97	mg/kg	UJ
21-11070	MD21-99-0172	SLW	Acenaphthylene	0.97	mg/kg	UJ
21-11070	MD21-99-0172	SLW	Acetone	0.032	mg/kg	None
21-11070	MD21-99-0172	SLW	Actinium-228	0.98	pCi/g	U
21-11070	MD21-99-0172	SLW	Aluminum	3690	mg/kg	None
21-11070	MD21-99-0172	SLW	Americium-241	0.5	pCi/g	U
21-11070	MD21-99-0172	SLW	Aniline	1.9	mg/kg	UJ
21-11070	MD21-99-0172	SLW	Annihilation Radiation	0.11	pCi/g	U
21-11070	MD21-99-0172	SLW	Anthracene	0.97	mg/kg	UJ
21-11070	MD21-99-0172	SLW	Antimony	3.8	mg/kg	J
21-11070	MD21-99-0172	SLW	Aroclor-1016	0.097	mg/kg	U
21-11070	MD21-99-0172	SLW	Aroclor-1221	0.19	mg/kg	U
21-11070	MD21-99-0172	SLW	Aroclor-1232	0.097	mg/kg	U
21-11070	MD21-99-0172	SLW	Aroclor-1242	0.097	mg/kg	U
21-11070	MD21-99-0172	SLW	Aroclor-1248	0.097	mg/kg	U
21-11070	MD21-99-0172	SLW	Aroclor-1254	0.097	mg/kg	U
21-11070	MD21-99-0172	SLW	Aroclor-1260	0.097	mg/kg	U
21-11070	MD21-99-0172	SLW	Arsenic	30.4	µg/L	J
21-11070	MD21-99-0172	SLW	Arsenic	11.8	mg/kg	None
21-11070	MD21-99-0172	SLW	Azobenzene	1.9	mg/kg	UJ
21-11070	MD21-99-0172	SLW	Barium	88.1	mg/kg	None
21-11070	MD21-99-0172	SLW	Barium	1320	µg/L	J
21-11070	MD21-99-0172	SLW	Barium-140	-0.33	pCi/g	U
21-11070	MD21-99-0172	SLW	Benzene	0.0073	mg/kg	U
21-11070	MD21-99-0172	SLW	Benzidine	0.97	mg/kg	UJ
21-11070	MD21-99-0172	SLW	Benzo(a)anthracene	0.97	mg/kg	UJ
21-11070	MD21-99-0172	SLW	Benzo(a)pyrene	0.97	mg/kg	UJ
21-11070	MD21-99-0172	SLW	Benzo(b)fluoranthene	0.97	mg/kg	UJ
21-11070	MD21-99-0172	SLW	Benzo(g,h,i)perylene	0.97	mg/kg	UJ
21-11070	MD21-99-0172	SLW	Benzo(k)fluoranthene	0.97	mg/kg	UJ
21-11070	MD21-99-0172	SLW	Benzoic Acid	4.9	mg/kg	UJ
21-11070	MD21-99-0172	SLW	Benzyl Alcohol	1.9	mg/kg	UJ
21-11070	MD21-99-0172	SLW	Beryllium	0.53	mg/kg	J
21-11070	MD21-99-0172	SLW	Bis(2-chloroethoxy)methane	0.97	mg/kg	UJ
21-11070	MD21-99-0172	SLW	Bis(2-chloroethyl)ether	0.97	mg/kg	UJ
21-11070	MD21-99-0172	SLW	Bis(2-ethylhexyl)phthalate	0.97	mg/kg	UJ
21-11070	MD21-99-0172	SLW	Bismuth-211		pCi/g	R
21-11070	MD21-99-0172	SLW	Bismuth-212	0.5	pCi/g	U
21-11070	MD21-99-0172	SLW	Bismuth-214	0.36	pCi/g	U
21-11070	MD21-99-0172	SLW	Bromobenzene	0.0073	mg/kg	U

Table D-2.0-3 (continued)

Location ID	Sample ID	Waste Matrix	Analyte	Result	Units	Report Qualifier
21-11070	MD21-99-0172	SLW	Bromochloromethane	0.0016	mg/kg	J
21-11070	MD21-99-0172	SLW	Bromodichloromethane	0.0073	mg/kg	U
21-11070	MD21-99-0172	SLW	Bromoform	0.0073	mg/kg	U
21-11070	MD21-99-0172	SLW	Bromomethane	0.015	mg/kg	U
21-11070	MD21-99-0172	SLW	Bromophenyl-phenylether[4-]	0.97	mg/kg	UJ
21-11070	MD21-99-0172	SLW	Butanone[2-]	0.0091	mg/kg	J
21-11070	MD21-99-0172	SLW	Butylbenzene[n-]	0.0073	mg/kg	U
21-11070	MD21-99-0172	SLW	Butylbenzene[sec-]	0.0073	mg/kg	U
21-11070	MD21-99-0172	SLW	Butylbenzene[tert-]	0.0073	mg/kg	U
21-11070	MD21-99-0172	SLW	Butylbenzylphthalate	0.97	mg/kg	UJ
21-11070	MD21-99-0172	SLW	Cadmium	2	µg/L	U
21-11070	MD21-99-0172	SLW	Cadmium	1.6	mg/kg	J
21-11070	MD21-99-0172	SLW	Cadmium-109	-0.2	pCi/g	U
21-11070	MD21-99-0172	SLW	Calcium	1340	mg/kg	J
21-11070	MD21-99-0172	SLW	Carbazole	0.97	mg/kg	UJ
21-11070	MD21-99-0172	SLW	Carbon Disulfide	0.0073	mg/kg	U
21-11070	MD21-99-0172	SLW	Carbon Tetrachloride	0.0073	mg/kg	U
21-11070	MD21-99-0172	SLW	Cerium-139	-0.015	pCi/g	U
21-11070	MD21-99-0172	SLW	Cerium-144	0.18	pCi/g	U
21-11070	MD21-99-0172	SLW	Cesium-134	0.066	pCi/g	U
21-11070	MD21-99-0172	SLW	Cesium-137	0.076	pCi/g	U
21-11070	MD21-99-0172	SLW	Chemical Oxygen Demand	40800	mg/kg	None
21-11070	MD21-99-0172	SLW	Chloro-3-methylphenol[4-]	1.9	mg/kg	UJ
21-11070	MD21-99-0172	SLW	Chloroaniline[4-]	1.9	mg/kg	UJ
21-11070	MD21-99-0172	SLW	Chlorobenzene	0.0073	mg/kg	U
21-11070	MD21-99-0172	SLW	Chlorodibromomethane	0.0073	mg/kg	U
21-11070	MD21-99-0172	SLW	Chloroethane	0.015	mg/kg	U
21-11070	MD21-99-0172	SLW	Chloroform	0.0073	mg/kg	U
21-11070	MD21-99-0172	SLW	Chloromethane	0.015	mg/kg	U
21-11070	MD21-99-0172	SLW	Chloronaphthalene[2-]	0.97	mg/kg	UJ
21-11070	MD21-99-0172	SLW	Chlorophenol[2-]	0.97	mg/kg	UJ
21-11070	MD21-99-0172	SLW	Chlorophenyl-phenyl[4-] Ether	0.97	mg/kg	UJ
21-11070	MD21-99-0172	SLW	Chlorotoluene[2-]	0.0073	mg/kg	U
21-11070	MD21-99-0172	SLW	Chlorotoluene[4-]	0.0073	mg/kg	U
21-11070	MD21-99-0172	SLW	Chromium	71.5	µg/L	J
21-11070	MD21-99-0172	SLW	Chromium	159	mg/kg	J-
21-11070	MD21-99-0172	SLW	Chrysene	0.97	mg/kg	UJ
21-11070	MD21-99-0172	SLW	Cobalt	6.8	mg/kg	J
21-11070	MD21-99-0172	SLW	Cobalt-57	0.003	pCi/g	U
21-11070	MD21-99-0172	SLW	Cobalt-60	-0.036	pCi/g	U
21-11070	MD21-99-0172	SLW	Copper	44.7	mg/kg	None
21-11070	MD21-99-0172	SLW	Dibenz(a,h)anthracene	0.97	mg/kg	UJ
21-11070	MD21-99-0172	SLW	Dibenzofuran	0.97	mg/kg	UJ
21-11070	MD21-99-0172	SLW	Dibromo-3-Chloropropane[1,2-]	0.015	mg/kg	U

Table D-2.0-3 (continued)

Location ID	Sample ID	Waste Matrix	Analyte	Result	Units	Report Qualifier
21-11070	MD21-99-0172	SLW	Dibromoethane[1,2-]	0.0073	mg/kg	U
21-11070	MD21-99-0172	SLW	Dibromomethane	0.0073	mg/kg	U
21-11070	MD21-99-0172	SLW	Dichlorobenzene[1,2-]	0.97	mg/kg	UJ
21-11070	MD21-99-0172	SLW	Dichlorobenzene[1,2-]	0.0073	mg/kg	U
21-11070	MD21-99-0172	SLW	Dichlorobenzene[1,3-]	0.97	mg/kg	UJ
21-11070	MD21-99-0172	SLW	Dichlorobenzene[1,3-]	0.0073	mg/kg	U
21-11070	MD21-99-0172	SLW	Dichlorobenzene[1,4-]	0.97	mg/kg	UJ
21-11070	MD21-99-0172	SLW	Dichlorobenzene[1,4-]	0.0073	mg/kg	U
21-11070	MD21-99-0172	SLW	Dichlorobenzidine[3,3'-]	1.9	mg/kg	UJ
21-11070	MD21-99-0172	SLW	Dichlorodifluoromethane	0.015	mg/kg	U
21-11070	MD21-99-0172	SLW	Dichloroethane[1,1-]	0.0073	mg/kg	U
21-11070	MD21-99-0172	SLW	Dichloroethane[1,2-]	0.0073	mg/kg	U
21-11070	MD21-99-0172	SLW	Dichloroethene[1,1-]	0.0073	mg/kg	U
21-11070	MD21-99-0172	SLW	Dichloroethene[cis-1,2-]	0.0073	mg/kg	U
21-11070	MD21-99-0172	SLW	Dichloroethene[trans-1,2-]	0.0073	mg/kg	U
21-11070	MD21-99-0172	SLW	Dichlorophenol[2,4-]	0.97	mg/kg	UJ
21-11070	MD21-99-0172	SLW	Dichloropropane[1,2-]	0.0073	mg/kg	U
21-11070	MD21-99-0172	SLW	Dichloropropane[1,3-]	0.0073	mg/kg	U
21-11070	MD21-99-0172	SLW	Dichloropropane[2,2-]	0.0073	mg/kg	U
21-11070	MD21-99-0172	SLW	Dichloropropene[1,1-]	0.0073	mg/kg	U
21-11070	MD21-99-0172	SLW	Dichloropropene[cis-1,3-]	0.0073	mg/kg	U
21-11070	MD21-99-0172	SLW	Dichloropropene[trans-1,3-]	0.0073	mg/kg	U
21-11070	MD21-99-0172	SLW	Diethylphthalate	0.97	mg/kg	UJ
21-11070	MD21-99-0172	SLW	Dimethyl Phthalate	0.97	mg/kg	UJ
21-11070	MD21-99-0172	SLW	Dimethylphenol[2,4-]	0.97	mg/kg	UJ
21-11070	MD21-99-0172	SLW	Di-n-butylphthalate	0.97	mg/kg	UJ
21-11070	MD21-99-0172	SLW	Dinitro-2-methylphenol[4,6-]	4.9	mg/kg	UJ
21-11070	MD21-99-0172	SLW	Dinitrophenol[2,4-]	4.9	mg/kg	UJ
21-11070	MD21-99-0172	SLW	Dinitrotoluene[2,4-]	0.97	mg/kg	UJ
21-11070	MD21-99-0172	SLW	Dinitrotoluene[2,6-]	0.97	mg/kg	UJ
21-11070	MD21-99-0172	SLW	Di-n-octylphthalate	0.97	mg/kg	UJ
21-11070	MD21-99-0172	SLW	Ethylbenzene	0.0073	mg/kg	U
21-11070	MD21-99-0172	SLW	Europium-152	-0.01	pCi/g	U
21-11070	MD21-99-0172	SLW	Fluoranthene	0.97	mg/kg	UJ
21-11070	MD21-99-0172	SLW	Fluorene	0.97	mg/kg	UJ
21-11070	MD21-99-0172	SLW	Hexachlorobenzene	0.97	mg/kg	UJ
21-11070	MD21-99-0172	SLW	Hexachlorobutadiene	0.0073	mg/kg	U
21-11070	MD21-99-0172	SLW	Hexachlorobutadiene	0.97	mg/kg	UJ
21-11070	MD21-99-0172	SLW	Hexachlorocyclopentadiene	0.97	mg/kg	UJ
21-11070	MD21-99-0172	SLW	Hexachloroethane	0.97	mg/kg	UJ
21-11070	MD21-99-0172	SLW	Hexanone[2-]	0.029	mg/kg	U
21-11070	MD21-99-0172	SLW	Indeno(1,2,3-cd)pyrene	0.97	mg/kg	UJ
21-11070	MD21-99-0172	SLW	Iodomethane	0.0073	mg/kg	U
21-11070	MD21-99-0172	SLW	Iron	109000	mg/kg	None

Table D-2.0-3 (continued)

Location ID	Sample ID	Waste Matrix	Analyte	Result	Units	Report Qualifier
21-11070	MD21-99-0172	SLW	Isophorone	0.97	mg/kg	UJ
21-11070	MD21-99-0172	SLW	Isopropylbenzene	0.0073	mg/kg	U
21-11070	MD21-99-0172	SLW	Isopropyltoluene[4-]	0.0012	mg/kg	J
21-11070	MD21-99-0172	SLW	Lanthanum-140	15	pCi/g	U
21-11070	MD21-99-0172	SLW	Lead	22.5	mg/kg	None
21-11070	MD21-99-0172	SLW	Lead	10	µg/L	U
21-11070	MD21-99-0172	SLW	Lead-211	-0.3	pCi/g	U
21-11070	MD21-99-0172	SLW	Lead-212	0.96	pCi/g	None
21-11070	MD21-99-0172	SLW	Lead-214	0.57	pCi/g	None
21-11070	MD21-99-0172	SLW	Magnesium	907	mg/kg	J
21-11070	MD21-99-0172	SLW	Manganese	454	mg/kg	J+
21-11070	MD21-99-0172	SLW	Manganese-54	0.023	pCi/g	U
21-11070	MD21-99-0172	SLW	Mercury	201	mg/kg	None
21-11070	MD21-99-0172	SLW	Mercury	0.2	µg/L	U
21-11070	MD21-99-0172	SLW	Mercury-203	-0.024	pCi/g	U
21-11070	MD21-99-0172	SLW	Methyl-2-pentanone[4-]	0.029	mg/kg	U
21-11070	MD21-99-0172	SLW	Methylene Chloride	0.044	mg/kg	None
21-11070	MD21-99-0172	SLW	Methylnaphthalene[2-]	0.97	mg/kg	UJ
21-11070	MD21-99-0172	SLW	Methylphenol[2-]	0.97	mg/kg	UJ
21-11070	MD21-99-0172	SLW	Methylphenol[4-]	0.97	mg/kg	UJ
21-11070	MD21-99-0172	SLW	Naphthalene	0.97	mg/kg	UJ
21-11070	MD21-99-0172	SLW	Naphthalene	0.0014	mg/kg	U
21-11070	MD21-99-0172	SLW	Neptunium-237	-0.22	pCi/g	U
21-11070	MD21-99-0172	SLW	Nickel	13.9	mg/kg	None
21-11070	MD21-99-0172	SLW	Nitrate-Nitrite as N	11	mg/kg	U
21-11070	MD21-99-0172	SLW	Nitroaniline[2-]	4.9	mg/kg	UJ
21-11070	MD21-99-0172	SLW	Nitroaniline[3-]	4.9	mg/kg	UJ
21-11070	MD21-99-0172	SLW	Nitroaniline[4-]	1.9	mg/kg	UJ
21-11070	MD21-99-0172	SLW	Nitrobenzene	0.97	mg/kg	UJ
21-11070	MD21-99-0172	SLW	Nitrophenol[2-]	0.97	mg/kg	UJ
21-11070	MD21-99-0172	SLW	Nitrophenol[4-]	4.9	mg/kg	UJ
21-11070	MD21-99-0172	SLW	Nitrosodimethylamine[N-]	0.97	mg/kg	UJ
21-11070	MD21-99-0172	SLW	Nitroso-di-n-propylamine[N-]	0.97	mg/kg	UJ
21-11070	MD21-99-0172	SLW	Nitrosodiphenylamine[N-]	0.97	mg/kg	UJ
21-11070	MD21-99-0172	SLW	Oxybis(1-chloropropane)[2,2'-]	0.97	mg/kg	UJ
21-11070	MD21-99-0172	SLW	Pentachlorophenol	4.9	mg/kg	UJ
21-11070	MD21-99-0172	SLW	pH	6.9	SU	None
21-11070	MD21-99-0172	SLW	Phenanthrene	0.97	mg/kg	UJ
21-11070	MD21-99-0172	SLW	Phenol	0.97	mg/kg	UJ
21-11070	MD21-99-0172	SLW	Plutonium-238	0.122	pCi/g	None
21-11070	MD21-99-0172	SLW	Plutonium-239	15.55	pCi/g	None
21-11070	MD21-99-0172	SLW	Potassium	747	mg/kg	J
21-11070	MD21-99-0172	SLW	Potassium-40	15.6	pCi/g	None
21-11070	MD21-99-0172	SLW	Propylbenzene[1-]	0.0073	mg/kg	U

Table D-2.0-3 (continued)

Location ID	Sample ID	Waste Matrix	Analyte	Result	Units	Report Qualifier
21-11070	MD21-99-0172	SLW	Protactinium-231	1.2	pCi/g	U
21-11070	MD21-99-0172	SLW	Protactinium-233	0.02	pCi/g	U
21-11070	MD21-99-0172	SLW	Protactinium-234M	3	pCi/g	U
21-11070	MD21-99-0172	SLW	Pyrene	0.97	mg/kg	UJ
21-11070	MD21-99-0172	SLW	Pyridine	0.97	mg/kg	UJ
21-11070	MD21-99-0172	SLW	Radium-223	1.5	pCi/g	U
21-11070	MD21-99-0172	SLW	Radium-224	-6.8	pCi/g	U
21-11070	MD21-99-0172	SLW	Radium-226	1.1	pCi/g	U
21-11070	MD21-99-0172	SLW	Radon-219	-0.58	pCi/g	U
21-11070	MD21-99-0172	SLW	Ruthenium-106	-0.12	pCi/g	U
21-11070	MD21-99-0172	SLW	Selenium	36.7	µg/L	J
21-11070	MD21-99-0172	SLW	Selenium	4.1	mg/kg	J
21-11070	MD21-99-0172	SLW	Selenium-75	0.063	pCi/g	U
21-11070	MD21-99-0172	SLW	Silver	0.23	mg/kg	U
21-11070	MD21-99-0172	SLW	Silver	3	µg/L	U
21-11070	MD21-99-0172	SLW	Sodium	70.5	mg/kg	J
21-11070	MD21-99-0172	SLW	Sodium-22	-0.025	pCi/g	U
21-11070	MD21-99-0172	SLW	Strontium-85	-0.1	pCi/g	U
21-11070	MD21-99-0172	SLW	Strontium-90	0.29	pCi/g	U
21-11070	MD21-99-0172	SLW	Styrene	0.0073	mg/kg	U
21-11070	MD21-99-0172	SLW	Tetrachloroethane[1,1,1,2-]	0.0073	mg/kg	U
21-11070	MD21-99-0172	SLW	Tetrachloroethane[1,1,2,2-]	0.0073	mg/kg	U
21-11070	MD21-99-0172	SLW	Tetrachloroethene	0.0073	mg/kg	U
21-11070	MD21-99-0172	SLW	Thallium	4.5	mg/kg	U
21-11070	MD21-99-0172	SLW	Thallium-208	0.35	pCi/g	None
21-11070	MD21-99-0172	SLW	Thorium-227	-0.19	pCi/g	U
21-11070	MD21-99-0172	SLW	Thorium-228	0.711	pCi/g	None
21-11070	MD21-99-0172	SLW	Thorium-230	0.439	pCi/g	None
21-11070	MD21-99-0172	SLW	Thorium-232	0.613	pCi/g	None
21-11070	MD21-99-0172	SLW	Thorium-234	-1.5	pCi/g	U
21-11070	MD21-99-0172	SLW	Tin-113	-0.036	pCi/g	U
21-11070	MD21-99-0172	SLW	Toluene	0.0073	mg/kg	U
21-11070	MD21-99-0172	SLW	Trichloro-1,2,2-trifluoroethane[1,1,2-]	0.0073	mg/kg	U
21-11070	MD21-99-0172	SLW	Trichlorobenzene[1,2,3-]	0.0073	mg/kg	U
21-11070	MD21-99-0172	SLW	Trichlorobenzene[1,2,4-]	0.0073	mg/kg	U
21-11070	MD21-99-0172	SLW	Trichlorobenzene[1,2,4-]	0.97	mg/kg	UJ
21-11070	MD21-99-0172	SLW	Trichloroethane[1,1,1-]	0.0073	mg/kg	U
21-11070	MD21-99-0172	SLW	Trichloroethane[1,1,2-]	0.0073	mg/kg	U
21-11070	MD21-99-0172	SLW	Trichloroethene	0.0073	mg/kg	U
21-11070	MD21-99-0172	SLW	Trichlorofluoromethane	0.0073	mg/kg	U
21-11070	MD21-99-0172	SLW	Trichlorophenol[2,4,5-]	4.9	mg/kg	UJ
21-11070	MD21-99-0172	SLW	Trichlorophenol[2,4,6-]	0.97	mg/kg	UJ
21-11070	MD21-99-0172	SLW	Trichloropropane[1,2,3-]	0.0073	mg/kg	U
21-11070	MD21-99-0172	SLW	Trimethylbenzene[1,2,4-]	0.0073	mg/kg	U

Table D-2.0-3 (continued)

Location ID	Sample ID	Waste Matrix	Analyte	Result	Units	Report Qualifier
21-11070	MD21-99-0172	SLW	Trimethylbenzene[1,3,5-]	0.0073	mg/kg	U
21-11070	MD21-99-0172	SLW	Tritium	0.15	pCi/g	U
21-11070	MD21-99-0172	SLW	Uranium-234	0.947	pCi/g	None
21-11070	MD21-99-0172	SLW	Uranium-235	0.046	pCi/g	None
21-11070	MD21-99-0172	SLW	Uranium-235	0.045	pCi/g	U
21-11070	MD21-99-0172	SLW	Uranium-238	0.734	pCi/g	None
21-11070	MD21-99-0172	SLW	Vanadium	18.9	mg/kg	None
21-11070	MD21-99-0172	SLW	Vinyl Chloride	0.015	mg/kg	U
21-11070	MD21-99-0172	SLW	Xylene (Total)	0.0073	mg/kg	U
21-11070	MD21-99-0172	SLW	Xylene[1,2-]	0.0073	mg/kg	U
21-11070	MD21-99-0172	SLW	Yttrium-88	-0.02	pCi/g	U
21-11070	MD21-99-0172	SLW	Zinc	221	mg/kg	None
21-11070	MD21-99-0172	SLW	Zinc-65	-0.01	pCi/g	U

[a] NA = Not applicable.
[b] SLW = Sludge, wet.
[c].W = Water.

REFERENCES

LANL (Los Alamos National Laboratory), July 1995. "Statement of Work–Analytical Support," Revision 2, RFP No. 9-XS1-Q4257, Los Alamos, New Mexico. (LANL 1995, 49738)

LANL (Los Alamos National Laboratory), March 1996. "Quality Assurance Project Plan Requirements for Sampling and Analysis," Los Alamos National Laboratory report LA-UR-96-441, Los Alamos, New Mexico. (LANL 1996, 54609)

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 report LA-UR-98-4847, Los Alamos, New Mexico. (LANL 1998, 59730)

Appendix E

Statistical Analyses

APPENDIX E STATISTICAL ANALYSES

E-1.0 INTRODUCTION

This section details the statistical analyses performed on the data for Solid Waste Management Unit (SWMU) 21-024(f) and Areas of Concern (AOC)s C-21-015 and 21-030 primarily for radionuclide, inorganic, and organic chemicals. The analysis included the calculation of 95% UCLs. Ninety-five percent upper confidence limits (UCLs) were calculated using three different methods including Bootstrapping (nonparametric distribution), Student *t* (normal distribution assumption), and Land's *H* (lognormal distribution).

The UCL calculation is the third step in a multi-level process for screening COPCs. The screening process consists of the following steps:

- Step #1: The maximum concentration observed at the site for each analyte in a specific medium is compared to the background upper threshold limit (UTL). Those analytes having a maximum concentration below the UTL are eliminated as COPCs. Other analytes proceed to step #2.
- Step #2: The remaining analytes are compared to background data sets using statistical tests, and/or graphic displays of the data. If an analyte proves to be below background, then it is eliminated. Other analytes proceed to step #3.
- Step #3: Assuming sufficient data are available to calculate a valid statistical confidence interval, 95% UCLs are calculated for the 0- to 5-ft and 0- to 12-ft depth intervals. The 95% UCLs are used in site assessments to evaluate potential effects on ecological and human receptors.

E-2.0 STATISTICAL TESTING FOR COPC DETERMINATION

Sample concentrations for 11 COPCs were compared to the sample data in the background database. The COPCs compared to background were arsenic, beryllium, cadmium, lead, uranium, zinc, cobalt, chromium, nickel, thorium-228 and uranium-235. Table E-2.0-1 shows the analytes and the media for which comparisons were made.

Table E-2.0-1
Results of Statistical Test on COPCs at SWMU 21-024(f) and AOCs C-21-015 and 21-030

COPC	Matrix	Gehan	Quantile	Slippage
Arsenic	Qbt 3	**COPC**	Not a COPC	Not a COPC
Beryllium	Qbt 3	**COPC**	Not a COPC	Not a COPC
Cadmium	Soil-Fill	**COPC**	Not a COPC	Not a COPC
Lead	Soil-Fill	**COPC**	Not a COPC	n/a*
Uranium	Soil-Fill	**COPC**	n/a	n/a
Zinc	Soil-Fill	**COPC**	n/a	n/a
Thorium-228	Soil-Fill	Not a COPC	Not a COPC	Not a COPC
Cobalt	Qbt 3	**COPC**	Not a COPC	Not a COPC
Chromium	Qbt 3	**COPC**	**COPC**	**COPC**
Lead	Qbt 3	**COPC**	**COPC**	**COPC**
Nickel	Qbt 3	**COPC**	**COPC**	**COPC**
Zinc	Qbt 3	**COPC**	Not a COPC	Not a COPC
Uranium-235	Qbt 3	**COPC**	Not a COPC	Not a COPC

*n/a = Not applicable.

Three tests were performed for the background comparisons: (1) Gehan's test, (2) a Quantile test, and (3) a Slippage test. The Gehan test is a modification of the Shapiro-Wilk test that accounts for multiple detection limits. The Gehan test examines the shape of the distribution. The Quantile and Slippage tests examine the upper tail of the distributions and focus on "hot measurements". These tests are used in combination to determine if a chemical is retained as a COPC. Results of the three tests and the decisions made regarding COPC status for each chemicals are provided in Table E-2.0-1.

E-3.0 STATISTICAL ANALYSIS

E-3.1 Inorganic Chemicals

The 95% UCLs were calculated for 17 inorganic chemicals: aluminum, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, lithium, magnesium, mercury, nickel, perchlorate, selenium, strontium, uranium, and zinc. The 95% UCLs were calculated for two vertical intervals: (1) from 0 to 5 ft; and, (2) from 0 to 12 ft. Nondetected results were included in these datasets at one-half the detection limit. The 95% UCLs represent three different approaches to calculation depending upon the statistical distribution. These include the Bootstrap method, which assumes a nonparametric distribution, the Student *t* statistic, which assumes a normal distribution of the data, and the Land's *H* statistic, which assumes a lognormal distribution.

EPA's DataQuest statistical software was used to test distributional assumptions for normality and for lognormality. Five different tests were run on the inorganic sample data: (1) the coefficient of variation test (CV); (2) Filliben's test (Fill); (3) Geary's test (Geary); (4) the Shapiro-Wilk (S-W) test (≤50 samples) or the Skewness/Kurtosis (S-W) test (>50 samples); and, (5) the Studentized Range test (SR).

Results of the statistical analyses are summarized in Tables E-3.1-1 and E-3.1-2. An n/a (not applicable) in the Land *H* 95% UCL column means that statistical test was less than the Student *t* test or, the statistical test value exceeded the maximum detected value for that specific analyte. Table E-3.1-1 contains the results for sample data in the 0- to 5-ft interval; Table E-3.1-2 contains the results for data in the 0- to 12-ft interval. The tables contain each of the calculated 95% UCL values. The UCL value used in site assessments is shown in bold. The recommended UCL value is determined in the following way:

- If the Shapiro-Wilk test for normality does not reject the assumption of normality for the data set, the data set remains a candidate for parametric UCL calculation. If the Shapiro-Wilk test for lognormality rejects assumption of lognormality for the data set, then the UCL is calculated using the Student *t* statistic.
- If the Shapiro-Wilk test fails to reject either the normal or lognormal assumption, the distribution that passes the greatest number of the five tests applied in DataQuest is used. In case of a tie (equal numbers of acceptances), the UCL is calculated using the Land *H* statistic unless all tests confirm normality, in which case the Student *t* statistic will be used. If the Land *H* UCL is later disallowed, then the Student t statistic is used to calculate the UCL.
- If the Shapiro-Wilk test rejects the normal assumption but does not reject the lognormal assumption, the UCL is calculated using the Land *H* statistic.
- The Land *H* UCL is compared to the Student *t* UCL. If the Land *H* UCL is less than the Student *t* UCL, the Land *H* UCL is declared invalid and eliminated from further consideration
- The Land *H* UCL is compared to the maximum concentration in the sample data set. If the Land *H* UCL is greater than the maximum concentration in the sample data set, the Land *H* UCL is declared invalid and eliminated from further consideration
- If the Shapiro-Wilk test rejects both parametric assumptions (normality and lognormality), then the UCL will be calculated using the nonparametric Bootstrap approach.

Table E-3.1-1
Results of Statistical Tests on Inorganic Samples 0–5 ft bgs

Analyte	UCLs			Distribution Tests										% NDs[a]
				Normal					Lognormal					
	t	Land *H*	Boot	CV	Fill	Geary	S-W	SR	CV	Fill	Geary	S-W	SR	
Aluminum	6443	**9100**	5624	Pass	Fail	Fail	Fail	Pass	Pass	Fail	Pass	Pass	Fail	0.0
Arsenic	**2.19**	2.29	2.04	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	2.9
Barium	65.2	**73.6**	56.8	Pass	Fail	Fail	Fail	Pass	Pass	Pass	Pass	Pass	Pass	1.4
Beryllium	0.488	**0.495**	0.431	Pass	Fail	Fail	Fail	Fail	Pass	Pass	Fail	Pass	Pass	4.3
Cadmium	0.194	n/a[b]	0.153	Fail	Fail	Fail	Fail	Fail	Pass	Fail	Pass	Pass	Pass	49
Chromium	5.52	**6.42**	4.93	Pass	Fail	Pass	Fail	Pass	Pass	Fail	Pass	Pass	Pass	12
Cobalt	2.07	**2.39**	1.82	Pass	Fail	Fail	Pass	Fail	Fail	Fail	Fail	Pass	Fail	14
Copper	3.85	**4.28**	3.48	Pass	Fail	Pass	Fail	Pass	Pass	Fail	Pass	Pass	Pass	2.9
Lead	10.7	**11.4**	9.39	Pass	Fail	Fail	Fail	Pass	Pass	Pass	Fail	Pass	Fail	0.0
Lithium	6.79	**7.46**	5.85	Pass	Fail	Fail	Fail	Pass	Pass	Pass	Pass	Pass	Pass	25
Magnesium	1141	**1410**	1015	Pass	Fail	Fail	Pass	Fail	Pass	Fail	Pass	Pass	Fail	1.4
Mercury	0.0985	n/a	0.0718	Fail	Fail	Fail	Fail	Fail	Pass	Fail	Pass	Fail	Pass	22
Nickel	4.26	**4.43**	3.89	Pass	Fail	Pass	Fail	Pass	Pass	Pass	Pass	Pass	Pass	5.7
Perchlorate	0.0378	n/a	0.0302	Fail	Fail	Fail	Fail	Pass	Pass	Fail	Fail	Fail	Pass	89
Selenium	0.232	**0.237**	0.210	Pass	Fail	Fail	Fail	Pass	Pass	Fail	Fail	Pass	Pass	80
Strontium	13.7	20.3	**12.0**	Pass	Fail	Pass	Fail	Fail	Pass	Fail	Pass	Fail	Fail	2.1
Uranium	4.47	**4.78**	n/a	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	0.0
Zinc	38.1	n/a	**33.9**	Pass	Fail	Fail	Fail	Fail	Pass	Fail	Fail	Fail	Fail	0.0

Note: Recommended UCLs are shown in bold.

[a] ND = Nondetect.

[b] n/a = Not applicable.

Table E-3.1-2
Results of Statistical Test on Inorganic Samples 0–12 ft bgs

Analyte	UCLs			Distribution Tests										% NDs[a]
				Normal					Lognormal					
	t	Land H	Boot	CV	Fill	Geary	S-W	SR	CV	Fill	Geary	S-W	SR	
Aluminum	6443	**9100**	5624	Pass	Fail	Fail	Fail	Pass	Pass	Fail	Pass	Pass	Fail	0.0
Arsenic	**2.18**	2.30	2.04	Pass	Pass	Pass	Pass	Pass	Pass	Fail	Pass	Pass	Pass	3.7
Barium	65.2	**73.6**	56.8	Pass	Fail	Fail	Fail	Pass	Pass	Pass	Pass	Pass	Pass	1.4
Beryllium	0.492	**0.495**	0.434	Pass	Fail	Fail	Fail	Pass	Pass	Pass	Pass	Pass	Pass	6.2
Cadmium	0.194	n/a[b]	**0.153**	Fail	Fail	Fail	Fail	Fail	Pass	Fail	Fail	Fail	Pass	56
Chromium	5.44	**6.24**	4.90	Pass	Fail	Pass	Fail	Pass	Pass	Fail	Pass	Pass	Pass	10
Cobalt	1.93	**2.30**	1.70	Pass	Fail	Fail	Fail	Fail	Fail	Fail	Pass	Pass	Pass	18
Copper	3.85	**4.28**	3.48	Pass	Fail	Pass	Fail	Pass	Pass	Fail	Pass	Pass	Pass	2.9
Lead	10.2	**11.2**	8.97	Pass	Fail	Fail	Fail	Pass	Pass	Pass	Pass	Pass	Pass	0.0
Lithium	6.79	**7.46**	5.85	Pass	Fail	Fail	Fail	Pass	Pass	Pass	Pass	Pass	Pass	25
Magnesium	1141	**1410**	1015	Pass	Fail	Fail	Pass	Fail	Pass	Fail	Pass	Pass	Fail	1.4
Mercury	0.0985	n/a	0.0718	Fail	Fail	Fail	Fail	Fail	Pass	Fail	Pass	Fail	Pass	22
Nickel	4.26	**4.43**	3.89	Pass	Fail	Pass	Fail	Pass	Pass	Pass	Pass	Pass	Pass	5.7
Perchlorate	0.0378	n/a	**0.0302**	Fail	Fail	Fail	Fail	Pass	Pass	Fail	Fail	Fail	Pass	89
Selenium	0.232	**0.237**	0.210	Pass	Fail	Fail	Fail	Pass	Pass	Fail	Fail	Pass	Pass	80
Strontium	13.7	20.3	**12.0**	Pass	Fail	Pass	Fail	Fail	Pass	Fail	Pass	Fail	Fail	2.1
Uranium	**4.47**	4.78	n/a	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	0.0
Zinc	37.1	n/a	**33.4**	Pass	Fail	Fail	Fail	Fail	Pass	Fail	Fail	Fail	Fail	0.0

Note: Recommended UCLs are shown in bold.

[a] ND = Nondetect.

[b] n/a = Not applicable.

The only deviations from this decision process occurred for uranium in both depth intervals. Because of the limited number of data, the bootstrapping program would not calculate a mean or standard deviation. As such, no UCL could be calculated for the bootstrap approach. However, all tests of normality for both parametric distributions passed. The selection of the UCL was conducted using the algorithm described above.

E-3.2 Radionuclides

The 95% UCLs were calculated for seven radionuclides: americium-241, cesium-137, plutonium-238, plutonium-239, thorium-228, and uranium-235. The statistical analysis for radionuclides followed the same process as for inorganic chemicals. The 95% UCLs were calculated for sample data falling in the 0- to 5-ft and 0- to 12-ft intervals using the Bootstrap method, the Student t statistic, and the Land *H* statistic. EPA's DataQuest statistical software was used to test distributional assumptions for normality and for lognormality using the coefficient of variation test (CV), Filliben's test, Geary's test, the Shapiro-Wilk (S-W) test (≤50 samples) or the Skewness/Kurtosis (S-W) test (>50 samples) and the Studentized Range test (SR).

Results of the statistical analyses are summarized in Tables E-3.2-1 and E-3.2-2. Table E-3.2-1 contains the results for sample data in the 0- to 5-ft interval; Table E-3.2-2 contains the results for data in the 0- to 12-ft interval. The tables contain each of the calculated 95% UCLs. The UCL value used in site assessments is shown in bold. The Laboratory determined the recommended UCL value using the same method as for inorganics.

The tables contain n/a in many cells to describe results of distribution tests summarizing the results of the normality and lognormality tests. This is due to the presence of negative values in the sample data set. When negative sample data are present, EPA's DataQuest program will not perform a distribution analysis. The Laboratory considered alteration of data to produce non-negative sample values inappropriate. Thus, only thorium-228 data, which did not contain negative data, were available for distributional analysis.

E-3.3 Organic Chemicals

The 95% UCLs were calculated for 32 organic chemicals: acetone, anthracene, Aroclor-1016, Aroclor-1242, benzene, benz(a)anthracene, benzo(b)fluoranthene, bis(2-chloroethyl)ether, bis(2-ethylhexyl)phthalate, 2-butanone, butylbenzylphthalate, chloromethane, chlorophenol[2-], chrysene, dibenzofuran, dichlorobenzene[1,3-], dichlorobenzene[1,4-], dichlorofluoromethane, di-n-butylphthalate, ethylbenzene, fluoranthene, fluorene, hexanone[2-], isopropyltoluene[4-], methyl-2-pentanone[4-], methylene chloride, phenanthrene, pyrene, styrene, toluene, trichlorofluoromethane, and xylene.

The statistical analysis followed the same process as for inorganic chemicals and radionuclides. Nondetected results were included in these datasets at one-half the detection limit. The 95% UCLs were calculated for sample data falling in the 0- to 5-ft and 0- to 12-ft intervals using the Bootstrap method, the Student t statistic, and the Land's *H* statistic. Similarly, EPA's DataQuest statistical software was used to test distributional assumptions for normality and for lognormality using the coefficient of variation test (CV), Filliben's test, Geary's test, the Shapiro-Wilk (S-W) test (≤50 samples) or the Skewness/Kurtosis (S-W) test (>50 samples) and the Studentized Range test (SR).

Results of the statistical analyses are summarized in Tables E-3.3-1 and E-3.3-2. An n/a (not applicable) in the UCL column means that statistical test was less than the Student T test or, the statistical test value exceeded the maximum detected value for that specific analyte. Table E-3.3-1 contains the results for sample data in the 0- to 5-ft interval; Table E-3.3-2 contains the results for data in the 0- to 12-ft interval. The tables contain each of the calculated UCL values. The UCL value used in site assessments is shown in bold. The Laboratory determined the recommended UCL value using the same method as for inorganics and radionuclides.

Table E-3.2-1
Results of Statistical Tests on Radionuclide Samples 0–5 ft bgs

Analyte	UCLs			Distribution Tests										% NDs[a]
				Normal					Lognormal					
	t	Land *H*	Boot	CV	Fill	Geary	S-W	SR	CV	Fill	Geary	S-W	SR	
Americium-241	0.0358	n/a[b]	**0.0259**	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	93
Cesium-137	0.0134	n/a	**0.00701**	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	90
Plutonium-238	0.0207	n/a	**0.0145**	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	93
Plutonium-239	0.295	1.55[c]	**0.2140**	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	62
Thorium-228	1.58	n/a	**1.46**	Pass	Fail	Fail	Fail	Pass	Pass	Fail	Fail	Fail	Pass	0.0
Tritium	0.0848	n/a	**0.0526**	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	50
Uranium-235	0.147	n/a	**0.129**	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	90

Note: Recommended UCLs are shown in bold.

[a] ND = Nondetect.

[b] n/a = Not applicable.

[c] UCL virtually equal to the maximum value.

Table E-3.2-2
Results of Statistical Tests on Radionuclide Samples 0–12 ft bgs

Analyte	UCLs			Distribution Tests										% NDs[a]
				Normal					Lognormal					
	t	Land *H*	Boot	CV	Fill	Geary	S-W	SR	CV	Fill	Geary	S-W	SR	
Americium-241	0.0358	n/a[b]	**0.0258**	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	92
Cesium-137	0.0134	n/a	**0.00771**	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	91
Plutonium-238	0.0200	n/a	**0.0142**	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	93
Plutonium-239	0.289	1.53[c]	**0.213**	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	61
Thorium-228	1.58	n/a	**1.46**	Pass	Fail	Fail	Fail	Pass	Pass	Fail	Fail	Fail	Pass	0.0
Tritium	0.0805	n/a	**0.0511**	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	52
Uranium-235	0.143	n/a	**0.125**	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	91

Note: Recommended UCLs are shown in bold.

[a] ND = Nondetect.

[b] n/a = Not applicable.

[c] UCL virtually equal to the maximum value.

Table E-3.3-1
Results of Statistical Tests on Organic Samples 0–5 ft bgs

Analyte	UCLs			Distribution Tests										% NDs[a]
				Normal					Lognormal					
	t	Land *H*	Boot	CV	Fill	Geary	S-W	SR	CV	Fill	Geary	S-W	SR	
Acetone	0.0353	**0.0432**	0.0279	Fail	Fail	Fail	Fail	Fail	Pass	Pass	Pass	Pass	Pass	48
Anthracene	0.144	0.266	**0.117**	Pass	Fail	Fail	Fail	Fail	Pass	Fail	Fail	Fail	Fail	94
Aroclor-1016	0.00176	0.00178	**0.00174**	Pass	Fail	Fail	Fail	Fail	Pass	Fail	Fail	Fail	Fail	89
Aroclor-1242	n/a[b]	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	100
Benzene	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	100
Benz(a)anthracene	0.151	0.265	**0.125**	Pass	Fail	Fail	Fail	Fail	Pass	Fail	Fail	Fail	Fail	91
Benzo(b)fluoranthene	0.148	0.242	**0.122**	Pass	Fail	Fail	Fail	Fail	Pass	Fail	Fail	Fail	Fail	94
Bis(2-chloroethyl)ether	0.268	0.274	**0.239**	Pass	Fail	Pass	Fail	Pass	Pass	Fail	Pass	Fail	Pass	97
Bis(2-ethylhexyl)phthalate	0.282	0.286	**0.251**	Pass	Fail	Pass	Fail	Fail	Pass	Fail	Pass	Fail	Pass	71
2-Butanone	0.00612	**0.00636**	0.00538	Pass	Fail	Fail	Fail	Pass	Pass	Pass	Pass	Pass	Pass	74
Butylbenzylphthalate	0.281	0.325	**0.249**	Pass	Fail	Pass	Fail	Pass	Pass	Fail	Fail	Fail	Fail	97
Chloromethane	0.00322	0.00470	**0.00262**	Pass	Fail	Fail	Fail	Fail	Pass	Fail	Fail	Fail	Fail	70
Chlorophenol[2-]	0.269	0.307	**0.239**	Pass	Fail	Pass	Fail	Pass	Pass	Fail	Fail	Fail	Fail	97
Chrysene	0.145	0.245	**0.119**	Pass	Fail	Fail	Fail	Fail	Pass	Fail	Fail	Fail	Fail	91
Dibenzofuran	0.281	0.422	**0.248**	Pass	Fail	Fail	Fail	Pass	Pass	Fail	Fail	Fail	Fail	97
Dichlorobenzene[1,3-]	0.162	n/a	**0.134**	Fail	Fail	Pass	Fail	Fail	n/a	n/a	n/a	n/a	n/a	93
Dichlorobenzene[1,4-]	0.172	n/a	**0.143**	Fail	Fail	Pass	Fail	Fail	n/a	n/a	n/a	n/a	n/a	95
Dichlorofluoromethane	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	100
Di-n-butylphthalate	0.281	0.313	**0.250**	Pass	Fail	Pass	Fail	Pass	Pass	Fail	Fail	Fail	Fail	97
Ethylbenzene	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	100
Fluoranthene	0.168	0.298	**0.138**	Pass	Fail	Pass	Fail	Pass	Pass	Fail	Fail	Fail	Fail	79
Fluorene	0.144	0.259	**0.127**	Pass	Fail	Fail	Fail	Fail	Pass	Fail	Fail	Fail	Fail	97

Table E-3.3-1 (continued)

Analyte	UCLs			Distribution Tests										% NDs[a]
				Normal					Lognormal					
	t	Land *H*	Boot	CV	Fill	Geary	S-W	SR	CV	Fill	Geary	S-W	SR	
Hexanone[2-]	0.00566	0.00578	**0.00490**	Pass	Fail	Fail	Fail	Pass	Pass	Fail	Pass	Fail	Pass	96
Isopropyltoluene[4-]	0.00224	0.00274	**0.00187**	Pass	Fail	Pass	Fail	Pass	Pass	Fail	Fail	Fail	Fail	81
Methyl-2-pentanone[4-]	0.00675	n/a	**0.00565**	Pass	Fail	Fail	Fail	Pass	n/a	n/a	n/a	n/a	n/a	96
Methylene Chloride	0.00268	0.00447	**0.00228**	Pass	Fail	Pass	Fail	Pass	Pass	Fail	Fail	Fail	Fail	96
Phenanthrene	0.145	0.248	**0.118**	Pass	Fail	Fail	Fail	Fail	Pass	Fail	Fail	Fail	Fail	88
Pyrene	0.153	0.257	**0.122**	Pass	Fail	Fail	Fail	Fail	Pass	Fail	Fail	Fail	Fail	85
Styrene	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	100
Toluene	0.00246	0.00291	**0.00193**	Pass	Fail	Pass	Fail	Pass	Pass	Fail	Fail	Fail	Fail	78
Trichlorofluoromethane	0.00314	0.00450	**0.00244**	Pass	Fail	Fail	Fail	Fail	Pass	Fail	Fail	Fail	Fail	70
Xylene	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	100

Note: Recommended UCLs are shown in bold.

[a] ND = Nondetect.

[b] n/a = Not applicable.

Table E-3.3-2
Results of Statistical Tests on Organic Samples 0–12 ft bgs

Analyte	UCLs			Distribution Tests										% NDs[a]
				Normal					Lognormal					
	t	Land *H*	Boot	CV	Fill	Geary	S-W	SR	CV	Fill	Geary	S-W	SR	
Acetone	0.0321	**0.0381**	0.0258	Fail	Fail	Fail	Fail	Fail	Pass	Pass	Fail	Pass	Pass	53
Anthracene	0.163	0.299	**0.137**	Pass	Fail	Fail	Fail	Fail	Pass	Fail	Fail	Fail	Fail	95
Aroclor-1016	0.00175	0.00177	**0.00173**	Pass	Fail	Fail	Fail	Fail	Pass	Fail	Fail	Fail	Fail	90
Aroclor-1242	0.00247	n/a[b]	**0.00211**	Pass	Fail	Fail	Fail	Fail	Pass	Fail	Fail	Fail	Fail	90
Benzene	0.00173	0.00211	**0.00147**	Pass	Fail	Fail	Fail	Fail	Pass	Fail	Fail	Fail	Fail	97
Benz(a)anthracene	0.169	0.292	**0.142**	Pass	Fail	Fail	Fail	Fail	Pass	Fail	Fail	Fail	Fail	93
Benzo(b)fluoranthene	0.167	0.269	**0.140**	Pass	Fail	Fail	Fail	Fail	Pass	Fail	Fail	Fail	Fail	95
Bis(2-chloroethyl)ether	0.290	0.300	**0.261**	Pass	Fail	Pass	Fail	Fail	Pass	Fail	Fail	Fail	Pass	98
Bis(2-ethylhexyl)phthalate	0.301	0.310	**0.272**	Pass	Fail	Fail	Fail	Fail	Pass	Fail	Fail	Fail	Fail	75
2-Butanone	0.00669	0.00687	**0.00586**	Pass	Fail	Fail	Fail	Pass	Pass	Fail	Pass	Fail	Pass	74
Butylbenzylphthalate	0.300	0.345	**0.269**	Pass	Fail	Pass	Fail	Pass	Pass	Fail	Fail	Fail	Fail	98
Chloromethane	0.00308	0.00412	**0.00253**	Pass	Fail	Fail	Fail	Fail	Pass	Fail	Fail	Fail	Fail	74
Chlorophenol[2-]	0.291	0.330	**0.261**	Pass	Fail	Pass	Fail	Pass	Pass	Fail	Fail	Fail	Fail	98
Chrysene	0.164	0.276	**0.132**	Pass	Fail	Fail	Fail	Fail	Pass	Fail	Fail	Fail	Fail	93
Dibenzofuran	0.300	0.428	**0.269**	Pass	Fail	Pass	Fail	Pass	Pass	Fail	Fail	Fail	Fail	98
Dichlorobenzene[1,3-]	0.170	n/a	**0.143**	Fail	Fail	Pass	Fail	Fail	Pass	Fail	Fail	Pass	Fail	95
Dichlorobenzene[1,4-]	0.177	n/a	**0.149**	Fail	Fail	Pass	Fail	Fail	Pass	Fail	Fail	Pass	Fail	96
Dichlorofluoromethane	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	100
Di-n-butylphthalate	0.301	0.334	**0.268**	Pass	Fail	Fail	Fail	Pass	Pass	Fail	Pass	Fail	Fail	98
Ethylbenzene	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	100
Fluoranthene	0.183	0.314	**0.153**	Pass	Fail	Pass	Fail	Fail	Pass	Fail	Fail	Fail	Fail	83
Fluorene	0.163	0.291	**0.136**	Pass	Fail	Fail	Fail	Fail	Pass	Fail	Fail	Fail	Fail	98

Table E-3.3-2 (continued)

Analyte	UCLs			Distribution Tests										% NDs[a]
				Normal					Lognormal					
	t	Land *H*	Boot	CV	Fill	Geary	S-W	SR	CV	Fill	Geary	S-W	SR	
Hexanone[2-]	0.00629	0.00637	**0.00542**	Pass	Fail	Fail	Fail	Pass	Pass	Fail	Pass	Fail	Pass	97
Isopropyltoluene[4-]	0.00214	0.00249	**0.00240**	Pass	Fail	Pass	Fail	Pass	Pass	Fail	Fail	Fail	Fail	82
Methyl-2-pentanone[4-]	0.00705	0.00708	**0.00598**	Pass	Fail	Fail	Fail	Pass	Pass	Fail	Pass	Fail	Fail	97
Methylene Chloride	0.00270	0.00416	**0.00234**	Pass	Fail	Pass	Fail	Pass	Pass	Fail	Fail	Fail	Fail	97
Phenanthrene	0.164	0.279	**0.132**	Pass	Fail	Fail	Fail	Fail	Pass	Fail	Fail	Fail	Fail	90
Pyrene	0.171	0.282	**0.139**	Pass	Fail	Fail	Fail	Fail	Pass	Fail	Fail	Fail	Fail	88
Styrene	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	100
Toluene	0.00231	0.00261	**0.00184**	Pass	Fail	Pass	Fail	Pass	Pass	Fail	Fail	Fail	Fail	79
Trichlorofluoromethane	0.00350	0.00441	**0.00267**	Fail	Fail	Fail	Fail	Fail	Pass	Fail	Fail	Fail	Fail	71
Xylene	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	100

Note: Recommended UCLs are shown in bold.

[a] ND = Nondetect.

[b] n/a = Not applicable.

The tables contain occasional blank columns (denoted by n/a) in the summary results for the normality and lognormality tests. These columns correspond to chemicals where the sample data are composed entirely of nondetect values (100% nondetects), i.e., there were no detections in the depth interval of interest. Testing the distributions of random detection limits was considered inappropriate. Thus, these COPCs were not subjected to distributional analysis.

E-3.4 Calculation of the Student *t* Statistic

The Student *t* statistic is a parametric approach to calculating confidence intervals around the population. Because the true mean is not known, a confidence interval can be constructed that is designed to capture the true mean a specified percentage of the time (i.e., 95 percent of the time). An upper confidence limit denotes the concentration value below which the true mean is expected to fall 95 percent of the time. The calculation uses the mean and standard deviation of the sample data, a statistical *t* value (derived from standard tables), and the number of samples in the data set. The equation to calculate the UCL of a population at a 100(1-α)% level of confidence using the Student t statistic appears below.

$$UCL_{1-\alpha} = \left(\bar{x} + t_{1-\alpha,df=n-1}\right)\left(s_x / \sqrt{n}\right)$$

where $t_{1-\alpha,df=n-1}$ is the 100(1-α)th percentile of the *t* distribution with n-1 degrees of freedom. The value $t_{1-\alpha,df=n-1}$ is obtained from Table 6-2, p. 146 of Myers (1997, 59388).

For a set of *n* sample values, $x_1, x_2, \ldots x_n$, the mean estimate is

$$\bar{x} = \frac{1}{n}\sum_{i=1}^{n} x_i$$

which represents the summation of all the samples divided by the number of samples.

Calculation of the 95% UCL uses the standard deviation of the sample data, calculated by

$$s_x = \left(\sum_{i=1}^{n} \frac{(x_i - \bar{x})^2}{n-1}\right)^{1/2}$$

The use of the Student *t* assumes that the data are normally distributed.

E-3.5 Calculation of the Land *H* Statistic

The Land *H* statistic is a parametric approach that can be used to calculate a UCL if the data are lognormally distributed. The equation to calculate the UCL of a lognormal population is using the Land *H* statistic (Gilbert 1987, 55619, p. 169–171):

$$UCL_{1-\alpha} = \exp\left(\bar{y} + \frac{1}{2}s_y^2 + \frac{s_y H_{1-\alpha}}{\sqrt{n-1}}\right)$$

where *y* and s_y are the mean and standard deviation of the log-transformed data, respectively. The significance level, α, is set at 0.05. The *H* value is a function of the standard deviation s_y and is obtained from Table A-12, p. 285 of Gilbert, for $H_{1-\alpha}$.

Use of the Land *H* statistic is predicated that the data are truly lognormal, not just skewed. If data are not lognormal, then the Land H statistic is not used. In other cases, the Land *H* UCL results in a value greater than any observed sample, sometimes more than an order of magnitude more. Either of these results indicates a problem in the use of the Land *H* statistic. Due to these problems, EPA recommends highly that alternative methods be used to calculate the UCL of skewed data.

E-3.6 Calculation of the Bootstrap Statistic

The bootstrap procedure is a nonparametric method to calculate UCLs. Starting with a sample data set of size *n*, the method randomly selects a value. This value is kept as a realization, but is also put back into the data set for potential selection again. The process continues (sampling "with replacement") until *n* samples have been selected. Selection of *n* samples is called a *trial*. The arithmetic average of the trial (*n* samples) is then calculated. A large number of trials, e.g., 2000, is run, which produces a mean value and a variability of the mean. Using these values, a UCL can be calculated.

Because it is a nonparametric technique, the bootstrap approach does not assume any particular distribution. This eliminates the questionable distribution assumption required for the Student *t* and the Land *H* statistics. However, the bootstrap approach consistently produces the lowest UCL value of the three methods used, making it the least conservative. This characteristic also makes it the least protective of human health and the environment, but it does not violate seriously any theoretical statistical distributional assumptions, which makes it defensible, if not protective. However, it still produces a biased estimate of the mean due to its inability to decluster unevenly spaced sample data, nor does it account for the spatial correlation between nearby samples.

E-4.0 REFERENCES

Gilbert, R. O., 1987. *Statistical Methods for Environmental Pollution Monitoring*, ISBN 0-442-23050-8, Van Nostrand Reinhold, New York. (Gilbert 1987, 55619)

Myers, J. C. 1997. *Geostatistical Error Management: Quantifying Uncertainty for Environmental Sampling and Mapping,* Van Nostrand Reinhold, New York. (Myers 1997, 59388)

Appendix F

Risk Assessment Calculations

APPENDIX F RISK ASSESSMENT CALCULATIONS

F-1.0 ECOLOGICAL SCOPING CHECKLISTS

Ecological scoping checklists are presented separately for Solid Waste Management Unit (SWMU) 21-024(f) and Areas of Concern (AOCs) C-21-015 and 21-030. The checklist for SWMU 21-024(f) is presented first, followed by the checklist for the AOCs.

F-1.1 Checklist for SWMU 21-024(f)

F-1.1.1 Part A—Scoping Meeting Documentation

Site ID	**SWMU 21-024(f)**
Form of site releases (solid, liquid, vapor). Describe all relevant known or suspected mechanisms of release (spills, dumping, material disposal, outfall, explosive testing, etc.) and describe potential areas of release. Reference locations on a map as appropriate.	The release from this site is liquid waste from the septic tank. The release would have been from the pipe at the outfall into a pit. The pit may have overflowed in which case the release would have been into the drainage that flows into DP Canyon. A secondary release may have been to the subsurface via cracks or leaks in the septic tank and pipe. This would also have been liquid waste.
List of Primary Impacted Media **(Indicate all that apply.)**	Surface soil – XX - primary impacted media from discharge at outfall pit and potentially into canyon. Surface water/sediment – Subsurface – X – May be impacted if septic tank or piping leaked or from leaching of the discharge in the outfall pit. Groundwater – Other, explain –
FIMAD vegetation class based on Arcview vegetation coverage **(Indicate all that apply.)**	Water – Bare Ground/Unvegetated – Some areas of bare ground between vegetated areas. These areas are often covered with pine needles and other plant litter. Spruce/fir/aspen/mixed conifer – Ponderosa pine – XX- primary vegetation community; also ground cover of grasses and shrubs Piñon juniper/juniper savannah – Grassland/shrubland – Developed –
Is T&E Habitat Present? **If applicable, list species known or suspected to use the site for breeding or foraging.**	The site is on the border of the core habitat for the Mexican spotted owl. This site is within an area that the owl may be assumed to forage with a moderate to low frequency. This site is within an area where the potential for foraging for the peregrine falcon is moderate to low.
Provide list, of Neighboring/ Contiguous/ Upgradient sites, includes 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.)**	AOC C-21-015 is in the vicinity of SWMU 21-024(f). This AOC is a sump from Building TA-21-45 that pumped waste from the building to the laundry facility across DP Road to the southwest. It is located approximately 100 ft southwest of the septic tank and 400 ft from the outfall. It is not anticipated that this AOC would influence the septic tank and outfall. SWMU 21-013(d)-99 is contiguous to this SWMU. SWMU 21-013(d)-99 has been remediated and should have no impact on SWMU 21-024(f).

Surface Water Erosion Potential Information **Summarize information from SOP 2.01, including the run-off subscore (maximum of 46); terminal point of surface water transport; slope; and surface water runon sources.**	An erosion matrix score of 30.9 was applied to SWMU 21-024(f). The runoff subscore was 6.9 and the subscore for run-on was 7.0. Terminal point of surface water transport is DP Canyon.

F-1.1.2 Part B—Site Visit Documentation

Site ID	SWMU 21-024(f)
Date of Site Visit	5/10/99
Site Visit Conducted by	Richard Mirenda, Linda Causey, Gordon McWilliams, Gary McMath, Jayne Jones

Receptor Information:

Estimate cover	Relative vegetative cover (high, medium, low, none) = medium Relative wetland cover (high, medium, low, none) = none Relative structures/asphalt, etc. cover (high, medium, low, none) = none
Field notes on the FIMAD vegetation class to assist in ground-truthing the Arcview information	The area is a combination of open areas and ponderosa pine. In some places the tuff is exposed, in others it is several inches below the surface. Ground cover consists of grasses, shrubs, and young trees. As one goes from DP Road to the mesa top edge of DP Canyon, the vegetation increases and older ponderosa pine predominates. The ground is also covered with pine needles and litter from other plants.
Field notes on T&E Habitat, if applicable. Consider the need for a site visit by a T&E subject matter expert to support the use of the site by T&E receptors.	Site provides minimal habitat for foraging and no habitat for nesting for T&E species. No T&E species are present in and around this area.
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.**	Yes. Terrestrial receptors are present in and around the SWMU. Various songbirds were observed in the trees and it is assumed that some small mammals are present. No evidence of burrowing was observed in this area, probably because of the shallow depth of the surface soil. Plant life is abundant and healthy. No aquatic receptors are present in the area or in the canyon below the SWMU.

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).**	There is no evidence of erosion into the canyon. Any runoff probably occurs via sheet flow. There are no distinct drainage areas that flow into DP Canyon.
Are there any off-site transport pathways (surface water, air, or groundwater)? **(yes/no/uncertain)** **Provide explanation**	Yes. Air is a very minor but plausible transport pathway.

Interim action needed to limit off-site transport? **(yes/no/uncertain)** **Provide explanation/ recommendation to project lead for IA SMDP.**	No. Current data does not support the implementation of an interim action at this SWMU.

Ecological Effects Information:

Physical Disturbance **(Provide list of major types of disturbances, including erosion and construction activities, review historical aerial photos where appropriate.)**	The only physical disturbances are the areas of excavation where the pipe and outfall pit were removed. There are no other visible disturbances in the area.
Are there obvious ecological effects? **(yes/no/uncertain)** **Provide explanation and apparent cause (e.g., contamination, physical disturbance, other).**	No. The area of the site appears to be no different from the surrounding area.
Interim action needed to limit apparent ecological effects? **(yes/no/uncertain)** **Provide explanation and recommendations to mitigate apparent exposure pathways to project lead for IA SMDP.**	No. Current data does not support the implementation of an interim action at this SWMU.

No Exposure/Transport Pathways:

If there are no complete exposure pathways to ecological receptors onsite and no transport pathways to offsite 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 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, rate and extent of contamination? **(yes/no/uncertain)** **Provide explanation** **(Consider if the maximum value was captured by existing sample data.)**	The existing data do not provide adequate information on the nature, rate, and extent of contamination. The additional sampling proposed for this VCA around the septic tank, into the pit, and down the drainage is designed to define these aspects of the site.

Do existing or proposed data for the site address potential transport pathways of site contamination? **(yes/no/uncertain)** **Provide explanation** **(Consider if other sites should aggregated to characterize potential ecological risk.)**	Yes. The sampling proposed in the VCA will address the major potential transport pathway, i.e., surface water runoff down the drainage and into DP Canyon.

Additional Field Notes:

Provide additional field notes on the site setting and potential ecological receptors. Existing data are adequate to define nature and extent.

F-1.1.3 Part C—Ecological Pathways Conceptual Exposure Model

Question A:

Could soil contaminants reach receptors via vapors?

- **Volatility of the hazardous substance (volatile chemicals generally have Henry's Law constant >10-5 atm-me/mol and molecular weight <200 g/mol).**

Answer (likely/unlikely/uncertain): Unlikely

Provide explanation: Trace levels of volatile organic compounds were detected in soil samples , but at these levels the volatile organic compounds would disperse in ambient air.

Question B:

Could the soil contaminants reach receptors through fugitive dust carried in air?

- **Soil contamination would have to be adhered on soil particles to become mobile as 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: The contamination around the septic tank is subsurface. (The area at the outfall pit and drainage is surface in nature.)

The ground is covered with pine needles and litter from the overstory so fugitive dust is only a minor pathway. There is no evidence of burrowing animals probably because the depth of the soil is only a few inches.

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 PRS 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 if aquatic receptors could be affected by contamination from this site.**

Answer (likely/unlikely/uncertain): Unlikely

Provide explanation: The major off-site transport pathway is surface water runoff into DP Canyon. However, there are no aquatic ecosystems in this portion of the canyon that would receive this runoff.

Question D:

Is contaminated groundwater potentially available to biological receptors through seeps or springs or shallow groundwater?

- **Known or suspected presence of contaminants in groundwater.**
- **The potential for contaminants to migrate via 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 (~1 m depth).**
- **Terrestrial wildlife receptors generally will not contact groundwater unless it is discharged to the surface.**

Answer (likely/unlikely/uncertain): Unlikely

Provide explanation: There are no seeps or springs within the confines of this SWMU. Terrestrial plants are not near the groundwater and there are no aquatic plants in the vicinity of the SWMU.

Question E:

Is infiltration/percolation from contaminated subsurface material a viable transport and exposure pathway?

- **Suspected ability of contaminants to migrate to groundwater.**
- **The potential for contaminants to migrate via 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 (~1 m depth).**

- **Terrestrial wildlife receptors generally will not contact groundwater unless it is discharged to the surface.**

Answer (likely/unlikely/uncertain): Unlikely

Provide explanation: There is no hydraulic driver for the surface or potential subsurface contamination to reach groundwater. Terrestrial plants are not near the groundwater and there are no aquatic plants in the vicinity.

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: The slope into the canyon is stable and well vegetated. There is minor evidence of erosion in this area.

Question G:

Could airborne contaminants interact with receptors through respiration of vapors?

- **Contaminants must be present as volatiles in the air.**
- **Consider the importance of inhalation of vapors for burrowing animals.**
- **Foliar uptake of organic 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: 0

Terrestrial Animals: 0

Provide explanation: Volatile organics are present at trace levels and will disperse in ambient air.

Question H:

Could airborne contaminants interact with plants through deposition of particulates or with animals through inhalation of fugitive dust?

- **Contaminants must be present as particulates in the air or as dust for this exposure pathway to be complete.**

- **Exposure via 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: 2

Terrestrial Animals: 2

Provide explanation: The ground is well covered with pine needles and litter from the established vegetation. In addition, there is no evidence of burrowing animals probably because of the shallow soil covering of only a few inches.

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 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: 2

Provide explanation: This is a complete pathway. Because of the shallow nature of the soils and the low levels of COPECs, potential for root uptake by plants is considered to be low. The area around the outfall pit and downslope has significant leaf litter, and potential for uptake due to rainsplash is also considered low.

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: There are some bioaccumulators present at this site.

Question K:

Could contaminants interact with receptors via 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 while grooming 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: This is a major pathway because contamination is present on surface soils and sediments.

Question L:

Could contaminants interact with receptors through dermal contact with surficial soils?

- **Significant exposure via 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: Most suspected COPCs are not lipophilic. However, the dermal pathway is a complete pathway for some receptors.

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: 1

Terrestrial Animals: 1

Provide explanation: Radionuclide COPECs include both alpha- and gamma-emitting radionuclides. Alpha-emitting radionuclides are not taken up through the skin. All of the radionuclide COPECs except tritium have a low gamma potential. This is an unlikely pathway.

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.**

Provide quantification of exposure pathway (0=no pathway, 1=unlikely pathway, 2=minor pathway, 3=major pathway):

Terrestrial Plants: 0

Provide explanation: There are no seeps or springs within the confines of this SWMU..

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: Although there may be some bioaccumulators present at this site, there are no seeps or springs within the confines of this SWMU.

Question P:

Could contaminants interact with receptors via 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 are no seeps or springs within the confines of this SWMU.

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 are no seeps or springs within the confines of this SWMU. Contaminants are not lipophilic.

Question R:

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: 0

Terrestrial Animals: 0

Provide explanation: Only alpha-emitting radionuclides are suspected of being present in the soils. These types of radionuclides are not taken up through the skin.

Question S:

Could contaminants bioconcentrate in free floating aquatic, 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 are no aquatic communities present on site or in the canyon below the SWMU.

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 are no aquatic communities present on site or in the canyon below the SWMU.

Question U:

Could contaminants bioaccumulate in sedimentary or water column organisms?

- **Lipophillic 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 are no aquatic communities present on site or in the canyon below the SWMU.

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, thus 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):

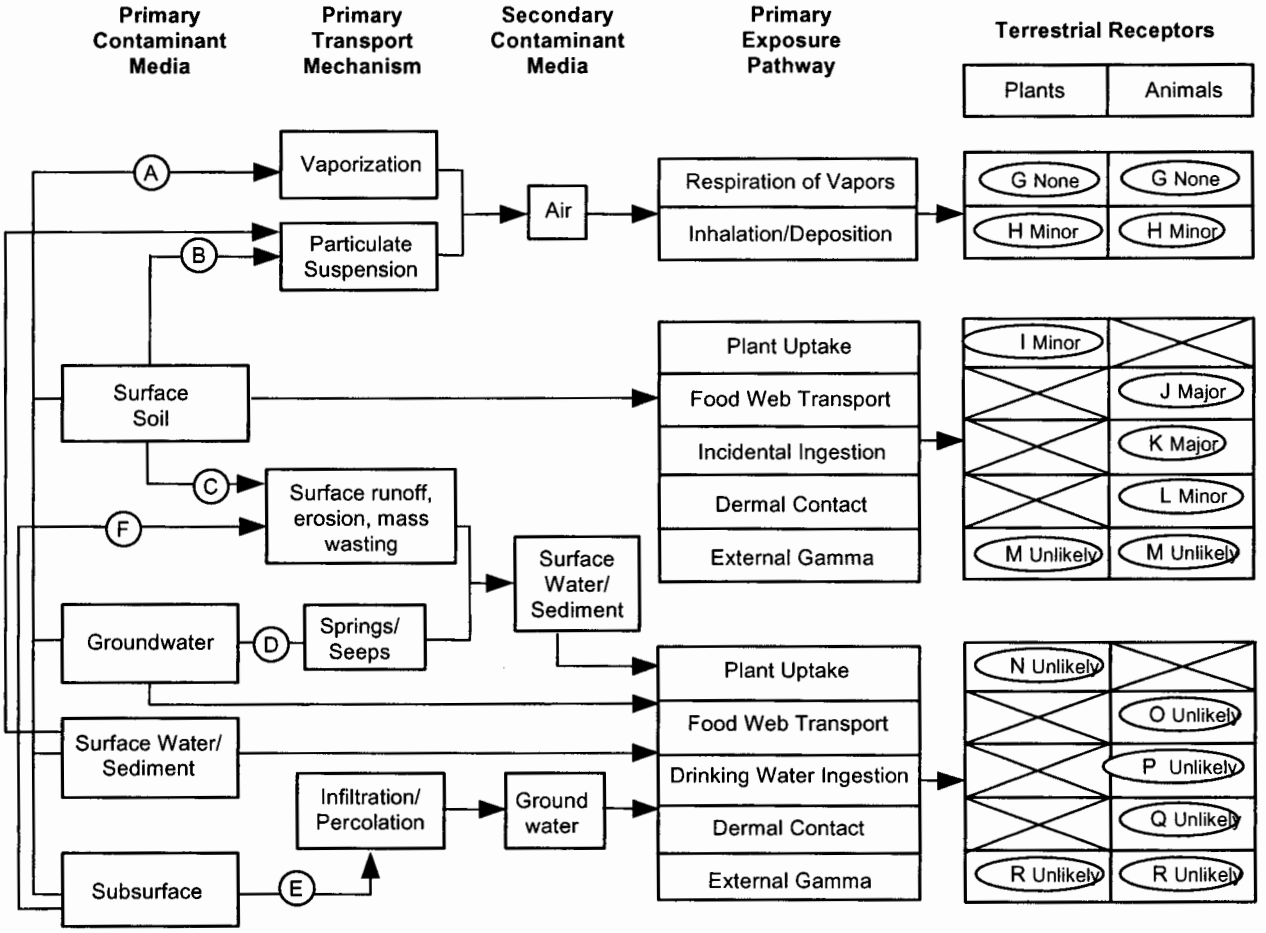
Aquatic Plants: 0

Aquatic Animals: 0

Provide explanation: There are no aquatic communities present on site or in the canyon below the SWMU. In addition, only alpha-emitting radionuclides are suspected of being present in the soils. These types of radionuclides are not taken up through the skin.

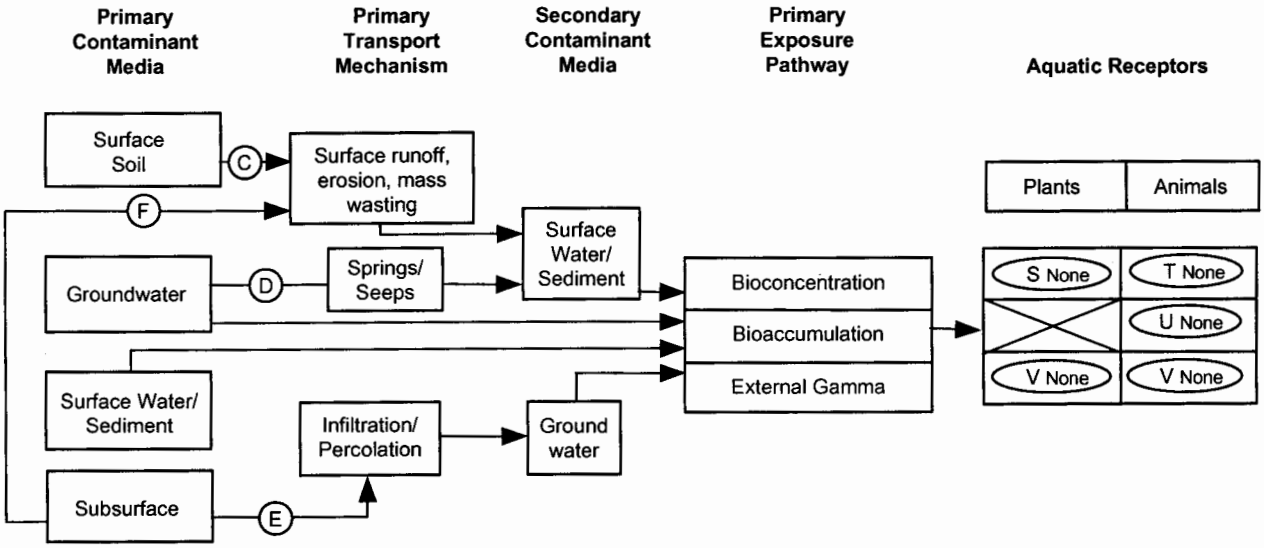
Ecological Scoping Checklist
Terrestrial Receptors
Ecological Pathways Conceptual Exposure Model

NOTE:
Letters in circles refer to questions on the Scoping Checklist



Ecological Scoping Checklist
Aquatic Receptors
Ecological Pathways Conceptual Exposure Model

NOTE:
Letters in circles refer to questions on the Scoping Checklist



Signatures and certifications:

Checklist completed by (provide name, organization and phone number):

Name (printed): Linda Causey

Name (signature): Linda Causey

Organization: Program Management Company

Phone number: (505) 662-1365

Date Completed: **02/28/2003**

Verification by a member of RRES-RS Program Ecological Risk Task Team (provide name, organization and phone number):

Name (printed): Rich Mirenda

Name (signature): Richard Mirenda

Organization: RRES-RS

Phone number: (505) 665-6953

F-1.2 Checklist for AOCs C-21-015 and 21-030

F-1.2-1 Part A—Scoping Meeting Documentation

Site ID	AOCs C-21-015 and 21-030
Form of site releases (solid, liquid, vapor). Describe all relevant known or suspected mechanisms of release (spills, dumping, material disposal, outfall, explosive testing, etc.) and describe potential areas of release. Reference locations on a map as appropriate.	The potential release from these AOCs is liquid waste that was pumped from the sump to the laundry facility across DP Road to the southwest of the site. The potential mechanisms of release include spillage or leaks from the sump as well as leaks from the outlet line to the laundry facility.
List of Primary Impacted Media **(Indicate all that apply.)**	Surface soil – X- potentially impacted but not primary media of concern. Surface water/sediment – Subsurface – XX- potentially impacted from leaks from sump and associated outlet line. Groundwater – Other, explain –
FIMAD vegetation class based on Arcview vegetation coverage **(Indicate all that apply.)**	Water – Bare Ground/Unvegetated – much of the area is barren with tuff near or at the surface. Spruce/fir/aspen/mixed conifer – Ponderosa pine – the surrounding area is primarily ponderosa pine with a mixture of grass and small shrubs interspersed throughout. Piñon juniper/juniper savannah – Grassland/shrubland – Developed –
Is T&E Habitat Present? **If applicable, list species known or suspected to use the site for breeding or foraging.**	The site is on the border of the core habitat for the Mexican spotted owl. This site is within an area that the owl may be assumed to forage with a moderate to low frequency. This site is within an area where the potential for foraging for the peregrine falcon is moderate to low.
Provide list, of Neighboring/ Contiguous/ Up-gradient sites, includes 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.)**	SWMU 21-024(f) is the only site in the vicinity of AOCs C-21-015 and 21-030. This SWMU is a septic tank from Building TA-21-45 that received waste from the building and discharged it at an outfall approximately 400 ft from the sump. The septic tank is located approximately 100 ft southeast of the sump and it is not anticipated that these AOCs would be influenced by the septic tank and outfall. SWMU 21-013(d)-99 is contiguous to the area of the AOCs. This SWMU should have no impact on the area.
Surface Water Erosion Potential Information **Summarize information from SOP 2.01, including the run-off subscore (maximum of 46); terminal point of surface water transport; slope; and surface water runon sources.**	Overall score is 22.7 with a runoff score of 6.9 (due to visible runoff from the area) and a run-on score of 7.0 (due to natural drainage onto site). The terminal point of surface water transport is the mesa top. The slope is approximately 25-75% but is not near the mesa edge.
Other Scoping Meeting Notes	

F-1.2.2 Part B—Site Visit Documentation

Site ID	AOCs C-21-015 and 21-030
Date of Site Visit	5/10/99
Site Visit Conducted by	Richard Mirenda, Linda Causey, Gordon McWilliams, Gary McMath, Jayne Jones

Receptor Information:

Estimate cover	Relative vegetative cover (high, medium, low, none) = low. Area is largely bare ground with some ponderosa pine trees nearby as well as small shrubs and patches of grass. Relative wetland cover (high, medium, low, none) = none Relative structures/asphalt, etc. cover (high, medium, low, none) = none
Field notes on the FIMAD vegetation class to assist in ground-truthing the Arcview information	The area is a combination of open areas and ponderosa pine. In some places the tuff is on the surface in others it is several inches below the surface. Mostly bare ground with minimal cover consisting of grasses, shrubs and young trees.
Field notes on T&E Habitat, if applicable. Consider the need for a site visit by a T&E subject matter expert to support the use of the site by T&E receptors.	Site provides minimal habitat for foraging and no habitat for nesting for T&E species. No T&E species are present in or around this area.
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.**	Yes. Terrestrial receptors are present in and around the AOCs. Various songbirds were observed in the trees and it is assumed that some small mammals are present. No evidence of burrowing was observed in this area, probably due to the shallow surface soil or lack of surface soil in many areas. Plant life is present but sparse. No aquatic receptors are present in the area.

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).**	The area is relatively flat and there is no evidence of erosion. Any runoff would occur via sheet flow. The nearest drainage area is DP Canyon to the north approximately 400 ft. The terminal point of surface water transport is the intermittent stream channel in the bottom of DP Canyon.
Are there any off-site transport pathways (surface water, air, or groundwater)? **(yes/no/uncertain)** **Provide explanation**	No other off-site transport pathways are present. The release of materials to the subsurface either from the sump or the outlet line would not result in the migration of material to groundwater.
Interim action needed to limit off-site transport? **(yes/no/uncertain)** **Provide explanation/ recommendation to project lead for IA SMDP.**	No. Sample data showed minor elevation of some COPCs in the subsurface at very low concentrations.

Ecological Effects Information:

Physical Disturbance **(Provide list of major types of disturbances, including erosion and construction activities, review historical aerial photos where appropriate.)**	The area immediately surrounding the AOC 21-030 sump and outlet line were disturbed during removal of these structures. The disturbed areas were backfilled and revegetated prior to demobilization. Sparse grasses have become established as in the surrounding undisturbed areas.
Are there obvious ecological effects? **(yes/no/uncertain)** **Provide explanation and apparent cause (e.g., contamination, physical disturbance, other).**	No. The immediate area around the former sump appears to be no different from the surrounding area.
Interim action needed to limit apparent ecological effects? **(yes/no/uncertain)** **Provide explanation and recommendations to mitigate apparent exposure pathways to project lead for IA SMDP.**	There are no visible disturbances in the area. The concrete outline of the former sump remains onsite.

No Exposure/Transport Pathways:

If there are no complete exposure pathways to ecological receptors onsite and no transport pathways to offsite 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 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, rate and extent of contamination? **(yes/no/uncertain)** **Provide explanation** **(Consider if the maximum value was captured by existing sample data.)**	Yes. Existing data are adequate to define nature and extent. Additional sampling completed for the VCA around the former sump and under the former outline defined these aspects of the site.
Do existing or proposed data for the site address potential transport pathways of site contamination? **(yes/no/uncertain)** **Provide explanation** **(Consider if other sites should aggregated to characterize potential ecological risk.)**	Yes. The sampling performed addresses the major potential transport pathway, i.e., surface water runoff. Ecological risk is characterized using data collected from AOCs 21-030 and C-21-015 and SWMU 21-024(f).

Additional Field Notes:

Provide additional field notes on the site setting and potential ecological receptors.

F-1.2.3 Part C—Ecological Pathways Conceptual Exposure Model

Question A:

Could soil contaminants reach receptors via 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: Trace levels of volatile organic compounds were detected in soil samples, but at these levels the volatile organics would disperse in ambient air.

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): Unlikely

Provide explanation: Any releases of contamination at this site were to the subsurface. No evidence of burrowing animals was observed probably because of the shallow nature of the soils in this area.

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 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 if aquatic receptors could be affected by contamination from this site.**

Answer (likely/unlikely/uncertain): Unlikely

Provide explanation: There is only limited evidence of erosion at the site. The area is relatively flat and runoff probably would not reach DP canyon before being absorbed into the soil.

Question D:

Is contaminated groundwater potentially available to biological receptors through seeps or springs or shallow groundwater?

- **Known or suspected presence of contaminants in groundwater.**
- **The potential for contaminants to migrate via 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 (~1 m depth).**
- **Terrestrial wildlife receptors generally will not contact groundwater unless it is discharged to the surface.**

Answer (likely/unlikely/uncertain): Unlikely

Provide explanation: There are no seeps or springs within the confines of this SWMU. Terrestrial plants are not near the groundwater and there are no aquatic plants in the vicinity.

Question E:

Is infiltration/percolation from contaminated subsurface material a viable transport and exposure pathway?

- **Suspected ability of contaminants to migrate to groundwater.**
- **The potential for contaminants to migrate via 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 (~1 m depth).**
- **Terrestrial wildlife receptors generally will not contact groundwater unless it is discharged to the surface.**

Answer (likely/unlikely/uncertain): Unlikely

Provide explanation: There is no hydraulic driver for the surface or potential subsurface contamination that would cause contamination to reach the groundwater. Terrestrial plants are not near the groundwater and there are no aquatic plants in the vicinity.

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: AOCs are not on or near the mesa edge. No erosion beyond limited, discontinuous rilling is evident.

Question G:

Could airborne contaminants interact with receptors through respiration of vapors?

- **Contaminants must be present as volatiles in the air.**
- **Consider the importance of inhalation of vapors for burrowing animals.**
- **Foliar uptake of organic 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: 0

Terrestrial Animals: 0

Provide explanation: Volatile organic compounds are present in trace amounts.

Question H:

Could airborne contaminants interact with plants through deposition of particulates or with animals through inhalation of fugitive dust?

- **Contaminants must be present as particulates in the air or as dust for this exposure pathway to be complete.**
- **Exposure via 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: 0

Terrestrial Animals: 0

Provide explanation: The former sump and line were mainly subsurface. No evidence of burrowing animals was observed in the area probably because of the shallow depth of the soils. Therefore, any possibly released contaminants could not become airborne.

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 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: 2

Provide explanation: Vegetation is sparse in this area. Most or all of the contamination is subsurface.

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: 2

Provide explanation: Most or all of the contamination is subsurface. No evidence exists of burrowing animals in the area. No bioaccumulating chemicals are present in the 0 to 5 ft depth interval.

Question K:

Could contaminants interact with receptors via 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 while grooming themselves clean of soil.**

Provide quantification of exposure pathway (0=no pathway, 1=unlikely pathway, 2=minor pathway, 3=major pathway):

Terrestrial Animals: 2

Provide explanation: Most or all of the contamination is subsurface. No evidence exists of burrowing animals in the area. Vegetation is sparse in this area. Any potential exposure via this route would be minor.

Question L:

Could contaminants interact with receptors through dermal contact with surficial soils?

- **Significant exposure via 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: Potential contaminants are not lipophilic.

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: 1

Terrestrial Animals: 1

Provide explanation: Gamma-emitting radionuclides are present only at low levels.

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 are no surface water systems present on or near the site.

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 are no surface water systems present on or near the site.

Question P:

Could contaminants interact with receptors via 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 are no surface water systems present on or near the site.

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 are no surface water systems present on or near the site.

Question R:

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: 0

Terrestrial Animals: 0

Provide explanation: There are no surface water systems present on or near the site.

Question S:

Could contaminants bioconcentrate in free floating aquatic, 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 are no aquatic communities present on or near the site.

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 are no aquatic communities present on or near the site

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 are no aquatic communities present on or near the site

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, thus 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):

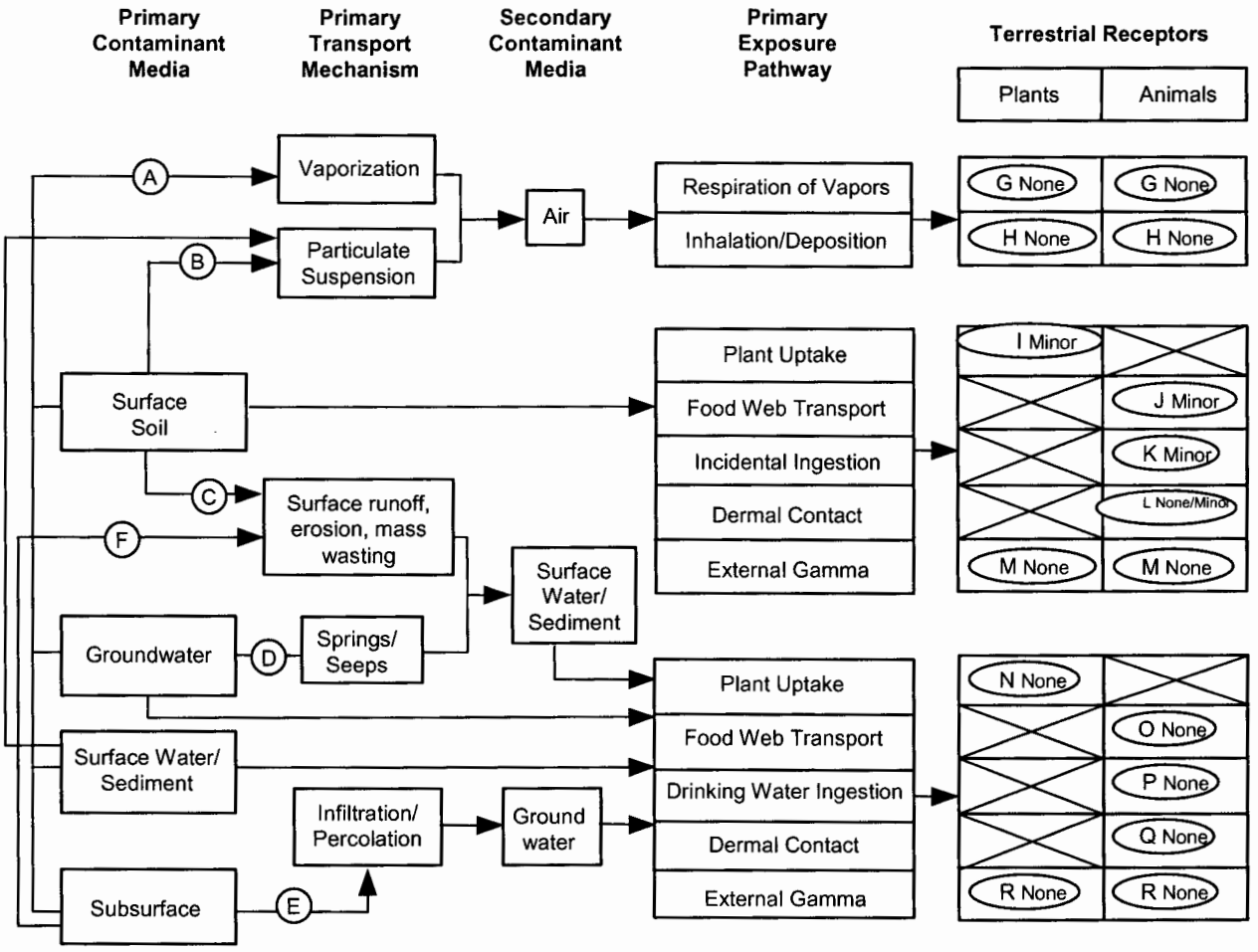
Aquatic Plants: 0

Aquatic Animals: 0

Provide explanation: There are no aquatic communities present on or near the site

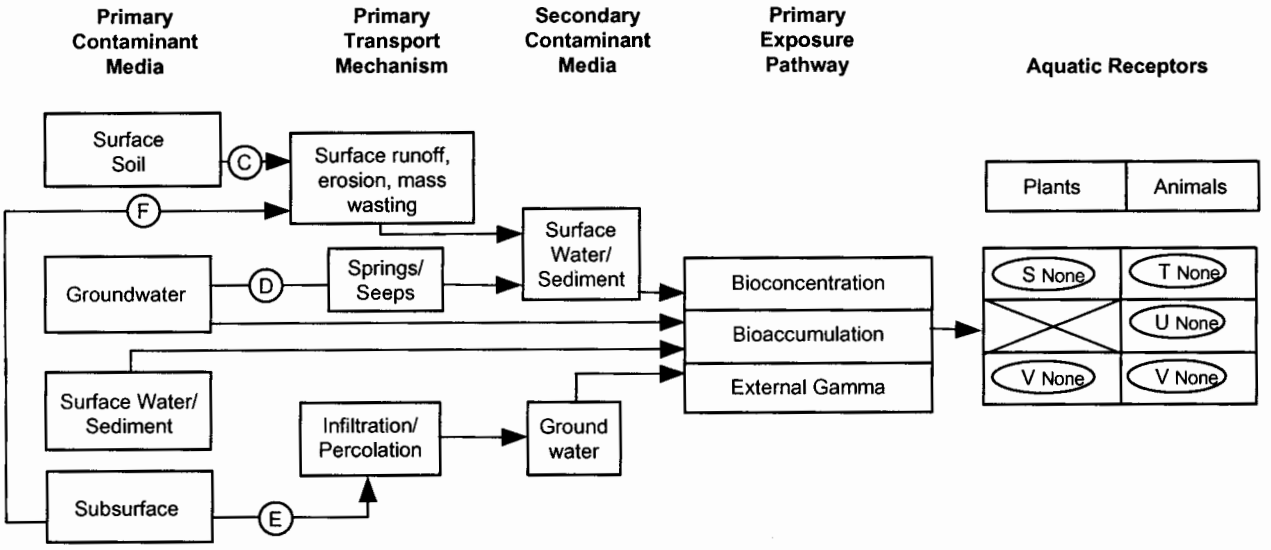
Ecological Scoping Checklist
Terrestrial Receptors
Ecological Pathways Conceptual Exposure Model

NOTE:
Letters in circles refer to questions on the Scoping Checklist



Ecological Scoping Checklist
Aquatic Receptors
Ecological Pathways Conceptual Exposure Model

NOTE:
Letters in circles refer to questions on the Scoping Checklist



Signatures and certifications:

Checklist completed by (provide name, organization and phone number):

Name (printed): Linda Causey

Name (signature): Linda Causey

Organization: Program Management Company

Phone number: (505) 662-1365

Date Completed: **02/28/2003**

Verification by a member of RRES-RS Program Ecological Risk Task Team (provide name, organization and phone number):

Name (printed): Rich Mirenda

Name (signature): Richard Mirenda

Organization: RRES-RS

Phone number: (505) 665-6953

Appendix G

Comparison of Anticipated and Actual Costs

APPENDIX G COMPARISON OF ANTICIPATED AND ACTUAL COSTS

The baseline costs for the voluntary corrective action (VCA) activities at SWMU 21-024(f) and AOCs 21-030 and C-21-015 were initially estimated at a total of $389,377 for FY01 and $292,328 in FY02 (total cost-to-complete of $681,705). Late in 2002, additional data gaps were identified for SWMU 21-024(f) and the removal of the outfall pit was added to the scope of the project. This work was conducted in FY03, along with the production of the final VCA completion report for the SWMU and AOCs. Actual costs for the work conducted at these sites were approximately $300,000 in FY01, $373,000 in FY02, and $330,000 in FY03, for an approximate cost-to-complete of $1,003,000. The difference between the anticipated and actual costs is due to the additional sampling, removal action, and reporting efforts conducted in FY03.

Appendix H

VCA Plan For Potential Release Sites
21-024(f) and C-21-015

LA-UR-99-3407
July 1999

Voluntary Corrective Action Plan for Potential Release Sites

21-024(f)
C-21-015

Environmental Restoration Project
A Department of Energy Environmental Cleanup Program

Los Alamos
NATIONAL LABORATORY
Los Alamos, NM 87545

Los Alamos National Laboratory, an affirmative action/equal opportunity employer, is operated by the University of California for the United States Department of Energy under contract W-7405-ENG-36.

EXECUTIVE SUMMARY

This voluntary corrective action (VCA) plan describes activities that will be conducted at Potential Release Sites (PRSs) 21-024(f) and C-21-015 located in Technical Area (TA) 21. PRS 21-024(f) is an inactive septic system (inlet pipe, septic tank, outlet pipe, outfall pit, and outfall drainage area), and PRS C-21-015 is the location of the former Building TA-21-45 and includes an inactive concrete sump and associated piping.

Both the septic system and the sump served Building TA-21-45. This building was originally situated at 15th Street and Trinity Drive; in July 1947, the building was moved to the north side of DP Road across from the DP laundry building, TA-21-20, and set on piers. From 1947 to 1948, it was used as a safety training building. In 1949, alterations were made to the building for use by Los Alamos Scientific Laboratory's Industrial Waste Studies Group, a group that studied various waste streams in an attempt to recover more plutonium and uranium as well as other valuable and scarce materials. Waste streams from the building were discharged to the septic system and the sump. The septic system drained to a pit approximately 158 ft north and near the edge of DP Canyon; the pit drained to an outfall on the slope of the canyon. The sump was connected to the DP laundry building, and waste streams from there discharged to absorption beds, which are now designated as Material Disposal Area V. Building TA-21-45 was removed in 1954, and both PRSs 21-024(f) (the septic system) and C-21-015 (the concrete sump), were abandoned in place.

PRS 21-024(f). There have been three sampling events at PRS 21-024(f). In 1988, a reconnaissance sample was collected from the septic system outfall pit at a depth of 0–6 in. In 1992, three locations around the outfall pit were sampled at three depths (0–6 in., 6–12 in., and 12–18 in.). In 1993, two boreholes were drilled, and eight samples were collected. One borehole was drilled adjacent to the septic tank to a depth of 20 ft with samples collected every 5 ft. The other borehole was drilled in the outfall pit to a depth of 10 ft with samples collected every 2.5 ft.

The extent of contamination has not been defined; inorganics and the highest concentration of radionuclides were detected in the surface sample at the most distant point sampled in the outfall drainage slope. The contents of the abandoned septic tank have not been sampled, so the potential exists for additional contaminants to be identified, indicating that the full nature of contamination present at PRS 21-024(f) may not have been determined.

PRS C-21-015. No samples have been collected at PRS C-21-015. This PRS was proposed for no further action (NFA) in 1991 based on information available during the preparation of the Operable Unit 1106 (TA-21) RFI work plan. Until recently, it was not known that the Industrial Waste Studies Group had used Building TA-21-45. The site, therefore, has the potential for contaminants to be present. The presence of any contamination in the sump or any remaining pipes is unknown; therefore, the nature or extent of contamination is unknown. If any contaminants are present, they are expected to be similar to those found in PRS 21-024(f).

The purpose of this VCA is to characterize, excavate, remove, and dispose of all components of the abandoned septic system, sump, and drain lines. The planned sequence of events is as follows:

1. sample the contents of the septic tank and sump;
2. remove and dispose of the septic tank, sump, and their pipes;

3. perform confirmatory sampling of any excavated area;
4. sample the outfall slope; and
5. restore the site.

Samples will be collected from within the septic tank and the sump before they are removed. A full-suite analysis will be performed; the analysis will include polychlorinated biphenyls, inorganics, volatile and semivolatile organic chemicals, soil pH, and radionuclides (gamma-emitting radionuclides by gamma spectrometry, tritium, isotopic plutonium, isotopic uranium, isotopic thorium, and strontium-90). After the sump, septic tank, and pipes are excavated, confirmatory samples will be taken beneath the sump and from the bottom of the trench. To bound the extent of contamination for PRS 21-024(f), 16 locations will be identified and sampled in the outfall drainage. Analytical suites for these samples will be based on results of septic tank and sump analyses and data from previous investigations.

No soil remediation in the outfall drainage has been planned because no contamination that warrants soil removal has as yet been identified. The VCA sampling data will be compared to screening action levels and ecological screening levels after extent has been defined; the results will be used to determine whether soil removal will be necessary. If remediation of the soils is required, cleanup levels for human receptors, based on appropriate land use and/or ecological receptors, will be derived for the contaminants.

This VCA is not dependant on whether contaminants are present. The structures will be removed even if no significant contamination is found. Removal of the structures will facilitate the proposed transfer of the area to a new owner.

After VCA activities are complete, the site will be restored and stormwater controls will be installed as needed. The waste will be disposed of at the proper facility for each particular waste stream.

Sampling of the septic tank and sump will occur during July 1999, removal and disposal activities and confirmatory sampling will take place during August and September 1999, and the VCA report will be published during fiscal year 2000. A summary of the PRSs is located in Table ES-1.

Table ES-1
VCA Summary Table

PRS Number	PRS Description	HSWA[a]	Radionuclide Component[b]	Proposed Action	Rationale for Recommendation
21-024(f)	Inactive septic system	Yes	Yes	Septic tank and pipeline removal	NFA
C-21-015	Inactive sump	No	Unknown	Sump and pipelines removal	NFA

[a] Is this site listed in Module VIII of the Laboratory's Hazardous Waste Facility Permit?
[b] Are radionuclides associated with this PRS?

TABLE OF CONTENTS

1.0 INTRODUCTION **1**
- 1.1 Purpose and Scope 3
- 1.2 Regulatory History 3
- 1.3 Rationale for Proposed Corrective Action 3

2.0 PREVIOUS SITE CHARACTERIZATION **4**
- 2.1 PRS 21-024(f) 4
  - 2.1.1 Site Description and Operational History 4
  - 2.1.2 Previous Field Investigations 4
  - 2.1.3 Results from Previous Investigations 4
- 2.2 PRS C-21-015 13
  - 2.2.1 Site Description and Operational History 13
  - 2.2.2 Previous Field Investigations 14
  - 2.2.3 Results of Previous Investigations 14

3.0 BASIS FOR CLEANUP LEVELS **14**

4.0 PROPOSED CORRECTIVE ACTION **15**
- 4.1 Conceptual Model 15
- 4.2 Supplemental Sampling 18
  - 4.2.1 Septic Tank and Sump Supplemental Sampling 18
  - 4.2.2 Septic System Outfall Supplemental Sampling 18
- 4.3 Cleanup Activities 20
- 4.4 Site Restoration 22

5.0 CONFIRMATORY SAMPLING **22**
- 5.1 Confirmatory Sampling for PRS 21-024(f) 22
- 5.2 Confirmatory Sampling for PRS C-21-015 24

6.0 WASTE MANAGEMENT **25**
- 6.1 Estimated Types and Volumes of Waste 25
- 6.2 Method of Management and Disposal 26

7.0 PROPOSED SCHEDULE AND UNCERTAINTIES **27**

8.0 REFERENCES **28**

APPENDIX A LIST OF ACRONYMS AND GLOSSARY **A-1**

APPENDIX B VCA CHECKLIST AND FIELD WORK AUTHORIZATION FORM **B-1**

APPENDIX C STANDARD OPERATING PROCEDURE 2.01 ..... **C-1**

APPENDIX D ECOLOGICAL SCOPING CHECKLIST **D-1**

APPENDIX E ESTIMATED COSTS **E-1**

List of Figures

Figure 1.0-1 Location of TA-21 within the Laboratory 2
Figure 2.1-1 Locations of TA-21 and PRS 21-024(f) with respect to Laboratory TAs and surrounding land holdings 5
Figure 2.1-2 PRS 21-024(f) septic system and PRS C-21-015 sump 6
Figure 2.1-3 Previous sampling locations at PRS 21-024(f) 7
Figure 4.1-1 Conceptual model of contaminant transport at PRSs 21-024(f) and C-21-015 17
Figure 4.2-1 Proposed septic and sump supplemental sampling locations 19
Figure 4.2-2 Proposed septic outfall supplemental sampling locations 21
Figure 5.1-1 Proposed postexcavation confirmation sampling locations 23

List of Tables

Table ES-1 VCA Summary Table 2
Table 2.1-1 PRS 21-024(f) 1988 Outfall Reconnaissance Sampling 8
Table 2.1-2 Analytical Results Above BVs and Those With No BVs (1992 RFI Sampling) 9
Table 2.1-3 Analytical Results Above BVs and Those With No BVs (1993 RFI Sampling) 12
Table 4.2-1 Septic and Sump Samples 20
Table 5.1-1 Septic Tank, Inlet Pipe, and Outlet Pipe Sample Locations 24
Table 5.2-1 Sump and Outlet Pipe Samples 25
Table 6.1-1 PRSs 21-024(f) and C-21-015 Waste Streams, Types, and Volumes 25
Table 7.0-1 VCA Field Work Schedule 28

1.0 INTRODUCTION

Los Alamos National Laboratory (the Laboratory) is a multidisciplinary research facility owned by the Department of Energy (DOE) and managed by the University of California. The Laboratory is located in north-central New Mexico approximately 60 miles northeast of Albuquerque and 20 miles northwest of Santa Fe (Figure 1.0-1). The Laboratory site covers 43 square miles of the Pajarito Plateau, which consists of a series of finger-like mesas separated by deep canyons containing ephemeral and intermittent streams that run from west to east. Mesa tops range in elevation from approximately 6200 ft to 7800 ft. The eastern portion of the plateau stands 300 to 900 ft above the Rio Grande.

The Laboratory's Environmental Restoration (ER) Project is involved in a national effort by the DOE to clean up its facilities, including those that were formerly involved in weapons production. The goal of the ER Project is to ensure that DOE's past operations do not threaten human or environmental health and safety in and around Los Alamos County, New Mexico. To achieve that goal, the ER Project is currently investigating sites potentially contaminated by past Laboratory operations. This voluntary corrective action (VCA) plan addresses potential release sites in Technical Area (TA); these are PRS 21-024(f), an inactive septic system and outfall, and PRS C-21-015, the location of former Building TA-21-45, which now consists only of an abandoned sump and possible waste line(s). PRSs 21-024(f) and C-21-015 are located within TA-21, on DP Mesa, on the northern boundary of the Laboratory immediately east-southeast of the Los Alamos townsite. TA-21 was used primarily for plutonium research, metals production, and related activities from 1945 to 1978.

This corrective action, including sampling, analysis, and material removal and disposal, is conducted under the requirements of the Resource Conservation and Recovery Act (RCRA). The current installation work plan (LANL 1996, 55574) describes the methodologies used in the investigation and analysis. For PRSs 21-024(f) and C-21-015, the VCA will be consistent with the Hazardous and Solid Wastes Amendments of 1984 and meets the requirements in Module VIII of the Laboratory's Hazardous Waste Facility Permit (EPA 1990, 01585). Module VIII was issued to the Laboratory by the US Environmental Protection Agency (EPA) on May 23, 1990, and modified on May 19, 1994. Radionuclides are regulated under DOE Order 5400.5, "Radiation Protection of the Public and the Environment" (proposed rule 10 CFR 843.5 in 58 FR 16268). In this plan, PRS 21-024(f) and possibly PRS C-21-015 have a radionuclide component.

The purpose and scope, regulatory history, and rationale for proposed corrective action are presented in Section 1. Section 2 discusses the site description and operational history, previous field investigations, and results of previous investigations for the PRSs. The basis for cleanup levels is presented in Section 3. Section 4 includes the conceptual model, the supplemental sampling, the cleanup activities, and the site restoration activities. Confirmatory sampling is discussed in Section 5. Section 6 presents the estimated types and volumes of waste and the method of management and disposal. Section 7 discusses the proposed schedule and uncertainties. References are listed in Section 8. Appendix A includes acronyms and abbreviations, Appendix B includes the VCA checklists, Appendix C includes the ER standard operating procedure (SOP) 2.01 surface water assessments, Appendix D includes the ecological checklists, and Appendix E includes the estimated costs.

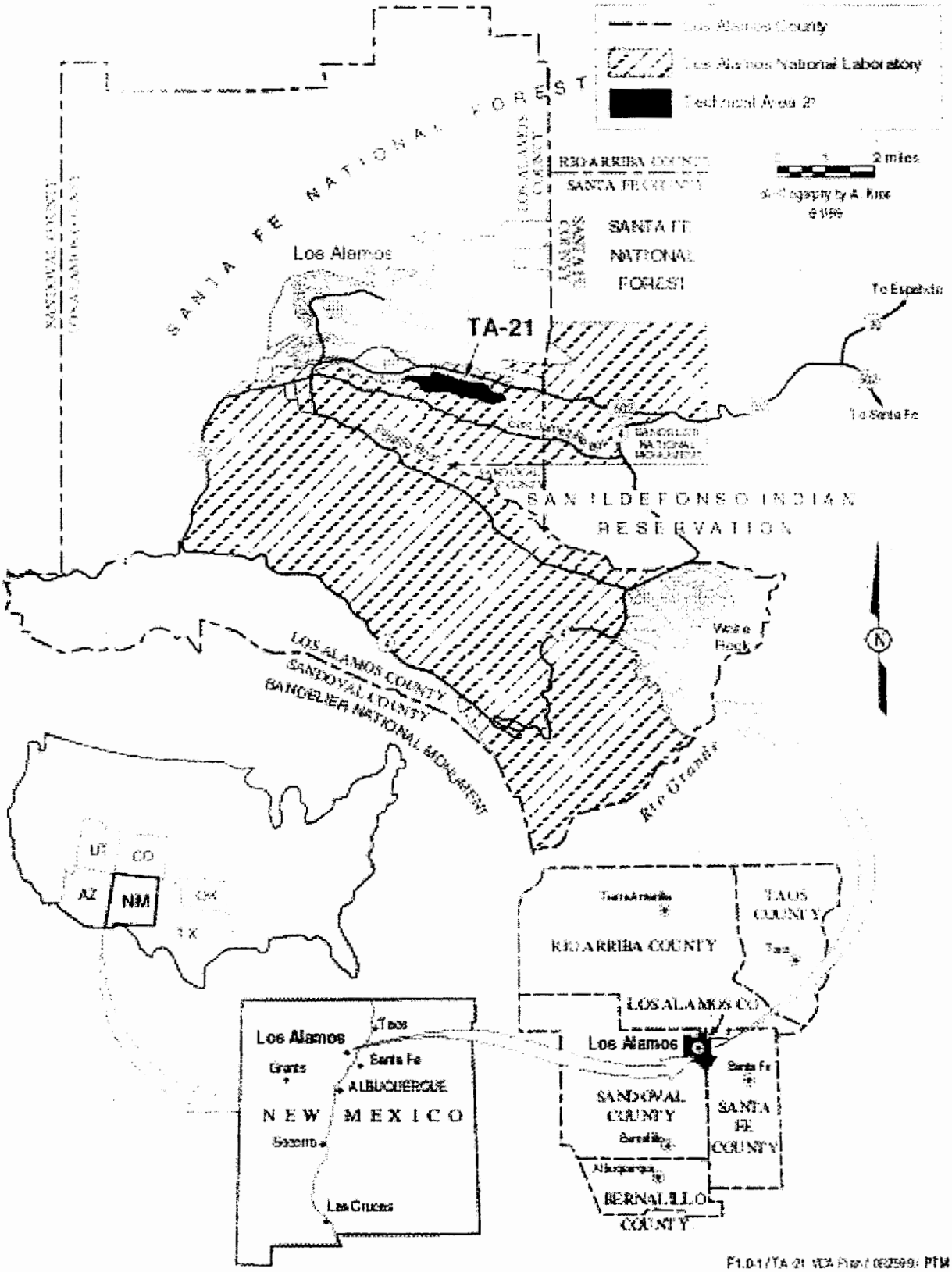


Figure 1.0-1. Location of TA-21 within the Laboratory

1.1 Purpose and Scope

The purpose of this VCA is to define nature and extent of any contamination at PRSs 21-024(f) (septic system) and C-21-015 (sump) and to remove all structures associated with these sites. The potential sources at each of these sites, the contents of the septic tank and the sump, have not been sampled; therefore, the nature of potential contamination is not fully known. Samples will be collected from these structures and analyzed by an off-site, fixed laboratory for inorganics, volatile and semivolatile organic chemicals, polychlorinated biphenyls (PCBs), radionuclides (gamma-emitting radionuclides by gamma spectrometry, tritium, isotopic plutonium, isotopic uranium, isotopic thorium, and strontium-90), and soil pH. When the nature of any contamination has been determined, the septic tank and sump will be excavated and removed. Confirmatory samples of the soil at the bottom of the excavation will be collected and analyzed.

The extent of contamination downgradient in the outfall drainage is also undefined; therefore, samples will be collected in the drainage. Drainage samples will be analyzed for the analytical suites identified by the septic tank sample results. These data will also be used to identify any areas that may require remediation and further sampling.

1.2 Regulatory History

PRS 21-024(f) was identified during the Comprehensive Environmental Assessment and Response Program investigation (LANL 1987, 39998). The 1991 TA-21 operable unit RCRA facility investigation (RFI) work plan discussed the results of a 1988 sample collected in the septic system outfall pit and proposed that radiological surveys be conducted and three additional samples be collected (LANL 1991, 7680). The 1994 RFI Phase Report 1C discussed sampling results from 1988, 1992, and 1993 and deferred making a recommendation until outstanding data were received and evaluated (LANL 1994, 59051). The 1995 addendum to Phase Reports 1B and 1C discussed sampling results from 1988, 1992, and 1993 and recommended no further action (NFA) (LANL 1995, 52350). The 1991 TA-21 RFI work plan described C-21-015 and concluded that this site did not qualify as a PRS (LANL 1991, 7680).

1.3 Rationale for Proposed Corrective Action

PRS 21-024(f). An analytical result of a surface soil sample collected in 1992 approximately 10 ft downgradient from the outlet pit indicated the presence of plutonium-239/240 (13.9 pCi/g). This result exceeds the Laboratory-wide background level of plutonium-239/240 (0.054 pCi/g) in surface soil and indicates that the downward trend has not been demonstrated. Therefore, a series of soil samples will be collected downgradient from the septic system outfall pit. In addition, all structures associated with this site will be removed, regardless of their contamination level, to alleviate concerns that may be raised in the future concerning their contents and the possibility of contamination. The removal of all structures will facilitate the proposed land transfer of this area.

PRS C-21-015. The driver for the VCA of PRS C-21-015 is the need to investigate the area based on new archival information indicating the previously unknown use of this facility as a waste treatment laboratory. The potential exists that the sump could be contaminated with inorganics and radionuclides used in the laboratory. All remaining structures associated with this site will be removed, regardless of their contamination level, to alleviate questions that may be raised in the future concerning their contents and the possibility of contamination. The removal of all structures will facilitate the proposed land transfer of this area.

2.0 PREVIOUS SITE CHARACTERIZATION

2.1 PRS 21-024(f)

2.1.1 Site Description and Operational History

PRS 21-024(f) (Figures 2.1-1 and 2.1-2) is a septic system (inlet pipe, septic tank, outlet pipe, outfall pit, and outfall drainage area) that received effluent from Building TA-21-45 from 1947 to 1954. This building was originally situated at 15th Street and Trinity Drive; in July 1947, it was moved to the north side of DP Road across from the DP laundry building, TA-21-20, and set on piers (Francis 1996, 63125). Effluent from the building was conveyed north approximately 84 ft through a 4-in.-diameter vitrified clay pipe (VCP) to a 1000-gal. steel septic tank (TA-21-124). In 1949, alterations were made to the building for Los Alamos Scientific Laboratory's Industrial Waste Studies Group, a group that studied various waste streams in an attempt to recover more plutonium and uranium as well as other valuable and scarce materials. The restroom in the northwest corner of the building was converted into a waste treatment laboratory, which included a stainless steel sink with a drain line that led to the building's septic tank. The clarified effluent from the septic tank was discharged through a 4-in.-diameter VCP to a shallow rock-lined pit approximately 158 ft further north and down gradient at the edge of DP Mesa (LANL 1995, 52350). The volume of liquid discharged to the pit is unknown. The pit is approximately 5 ft in diameter by 2 ft deep. From the pit, there is a broad, moderate slope to the north edge of the mesa, then a steep slope to the bottom of DP Canyon. At this point in DP canyon, the stream is intermittent. Building TA-21-45 was removed in 1954, and the septic system was abandoned in place (LANL 1991, 7680). There is no surface expression of the septic tank. It is expected that the inlet pipe from Building TA-21-45 remains abandoned in place. The 4-in. outlet pipe currently daylights into the pit, indicating that the pipe from the septic tank to the pit was also abandoned in place.

2.1.2 Previous Field Investigations

There have been three separate sampling events at PRS 21-024(f). In 1988, a single soil sample was collected in the pit below the outfall pipe discharge point at a depth of 0 to 6 in. In 1992, a radiation survey was conducted throughout a 50-ft radius around the pit. Soil samples were collected from areas south, west, and north of the pit (three locations). One surface (0 to 6 in.) and two near-surface (6 to 12 in. and 12 to 18 in.) samples were collected from each location. In 1993, two boreholes were drilled. One was placed adjacent to the septic tank location; four samples were collected at 5-ft intervals to a depth of 20 ft. The second borehole was placed at the center of the outfall pit; four samples were collected at 2.5-ft intervals to a depth of 10 ft. Figure 2.1-3 shows PRS 21-024(f) and the sample locations.

2.1.3 Results from Previous Investigations

1988 Reconnaissance Sampling

Analytical results from the single October 1988 reconnaissance sample collected from a depth of 0 to 6 in. in the center of the septic system outfall pit (Figure 2.1-3) are presented in Table 2.1-1. The sample was analyzed for inorganics, volatile and semivolatile organic chemicals, pesticides, PCBs, and radionuclides. Cesium-137, tritium, plutonium-239, and mercury were all identified above regional background levels that were in use at the time. A comparison of the 1988 results with the 1999 background values (BVs) is shown in Table 2.1-1. This comparison identifies lead, mercury, plutonium-239/240, and tritium as greater than BVs.

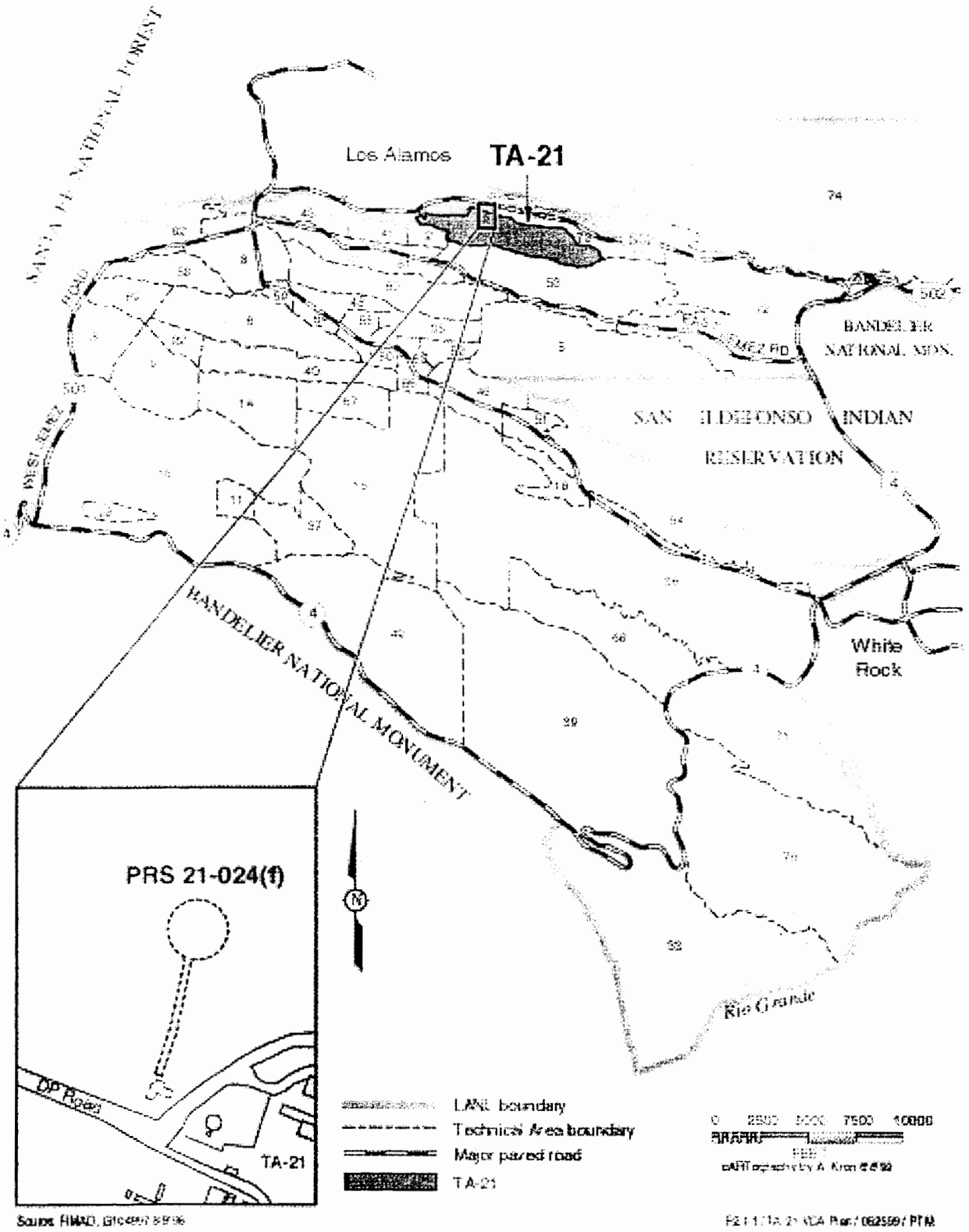
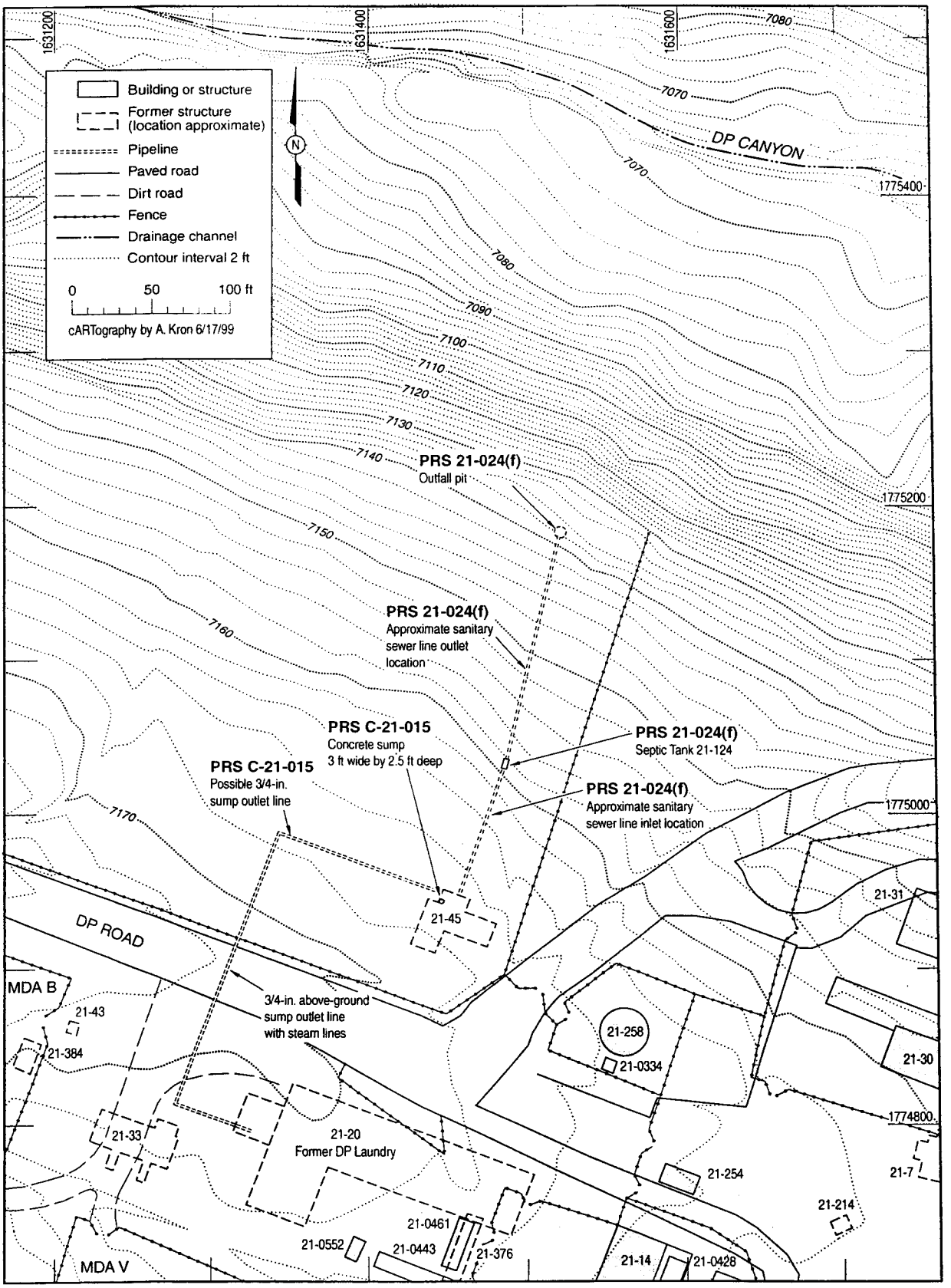


Figure 2.1-1. Locations of TA-21 and PRS 21-024(f) with respect to Laboratory TAs and surrounding land holdings



Sources: FIMAD G107662 5/14/99; LASL 1949, ENG4C-660 Sh. 1 of 2

F2.1-2 / TA-21 VCA Plan / 071399 / PTM

Figure 2.1-2. PRS 21-024(f) septic system and PRS C-21-015 sump

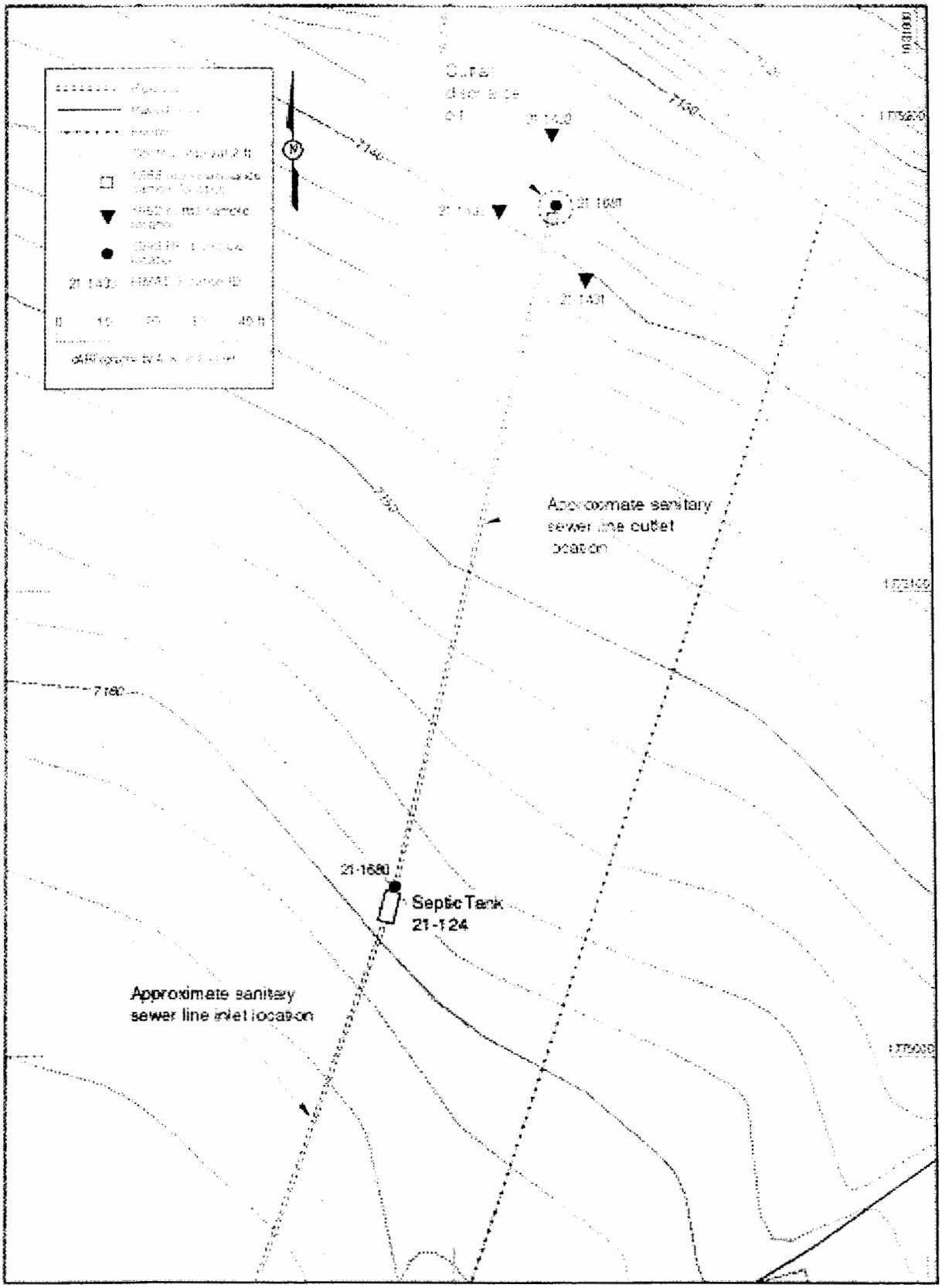


Figure 2.1-3. Previous sampling locations at PRS 21-024(f)

Table 2.1-1
PRS 21-024(f) 1988 Outfall Reconnaissance Sampling

Analyte	Concentration (mg/kg)	Detection Limit (mg/kg)	1999 BVs (mg/kg)
Inorganics			
Aluminum	9750	37	29200
Arsenic	2.2	2.0	8.17
Barium	131	37	295
Calcium	2130	914	6120
Chromium	8.9	2.0	19.3
Copper	9.0	6.0	14.7
Iron	9920	18	21500
Lead	**34.5***	10	22.3
Magnesium	2150	914	4610
Mercury	**0.22**	0	0.1
Nickel	12.4	8.0	15.4
Potassium	1330	914	3460
Vanadium	23.5	10	39.6
Zinc	44.2	4.0	48.8
Organic Chemicals			
Oil and grease	257	56	Not applicable
Radionuclides			
Cesium-137	1.0	0.1	1.65
Plutonium-239/240	**1.6**	0.2	0.023
Radium-226	1.8	0.2	2.59
Thorium-232	1.0	0.4	2.33
Tritium	**15** (pCi/ml)	2.0 (pCi/ml)	0.76 (pCi/ml)
Uranium-234	1.7	0.4	2.59
Uranium-238	1.3	0.3	2.29

*Bolded, enlarged concentrations are above BVs.

1992 RFI Sampling

In 1992, three locations (Figure 2.1-3) were sampled around the pit at depths of 0–6 in., 6–12 in., and 12–18 in. (9 samples total). The analytical results above BVs and analytical results for chemicals that have no BVs are presented in Table 2.1-2. These samples were analyzed for gross alpha, beta, and gamma radiation; inorganics; volatile and semivolatile organic chemicals; and radionuclides (gamma-emitting radionuclides by gamma spectrometry, tritium, isotopic plutonium, total uranium, isotopic thorium, and americium-241). No analysis was conducted for mercury because the laboratory analytical suite at this time did not include mercury.

Table 2.1-2
Analytical Results Above BVs and Those With No BVs (1992 RFI Sampling)

Sample ID and Depth[a]	Analyte	Result	RFI Class	BV	SAL[b]	Units
Location 21-1431						
AAA1095 (0–6 in.)	Acetone	0.028	Organic	n/a[c]	1400	mg/kg
	Cadmium	1.6	Inorganic	0.4	37	mg/kg
	Lithium	10.2	Inorganic	n/a	1500	mg/kg
	Plutonium-239	1.06	Radionuclide	0.054	24	pCi/g
	Strontium	25.5	Inorganic	N.A.[d]	45000	mg/kg
	Tritium	220	Radionuclide	0.08	260	pCi/g
AAA1096 (6–12 in.)	Lithium	3.1	Inorganic	N.A.	1500	mg/kg
	Strontium	4.2	Inorganic	N.A.	45000	mg/kg
	Tritium	66	Radionuclide	0.03	260	pCi/g
AAA1097 (12–18 in.)	Lithium	1.9	Inorganic	N.A.	1500	mg/kg
	Strontium	1.7	Inorganic	N.A.	45000	mg/kg
	Tritium	110	Radionuclide	0.03	260	pCi/g
Location 21-1432						
AAA1098 (0–6 in.)	Americium-241	0.677	Radionuclide	0.013	22	pCi/g
	Cadmium	0.74	Inorganic	0.4	37	mg/kg
	Lead	32.3	Inorganic	22.3	400	mg/kg
	Lithium	3.3	Inorganic	N.A.	1500	mg/kg
	Molybdenum	10.6	Inorganic	N.A.	370	mg/kg
	Plutonium-239	13.9	Radionuclide	0.054	24	pCi/g
	Strontium	8.6	Inorganic	N.A.	45000	mg/kg
	Tritium	253	Radionuclide	0.08	260	pCi/g
AAA1099 (0–6 in.)	Americium-241	0.699	Radionuclide	0.013	22	pCi/g
	Americium-241	0.598	Radionuclide	0.013	22	pCi/g
	Cadmium	0.78	Inorganic	0.4	37	mg/kg
	Lead	22.7	Inorganic	22.3	400	mg/kg
	Lithium	3.9	Inorganic	N.A.	1500	mg/kg
	Molybdenum	9.4	Inorganic	N.A.	370	mg/kg
	Plutonium-239	11.8	Radionuclide	0.054	24	pCi/g
	Strontium	8.8	Inorganic	N.A.	45000	mg/kg
	Tritium	209	Radionuclide	0.08	260	pCi/g

Table 2.1-2 (continued)

Sample ID and Depth[a]	Analyte	Result	RFI Class	BV	SAL[b]	Units
Location 21-1432 (continued)						
AAA1100 (6–12 in.)	Acetone	0.055	Organic	n/a	1400	mg/kg
	Chromium	15	Inorganic	7.14	210	mg/kg
	Lithium	4.9	Inorganic	N.A.	1500	mg/kg
	Plutonium-239	0.571	Radionuclide	n/a	24	pCi/g
	Strontium	3.8	Inorganic	N.A.	45000	mg/kg
	Toluene	0.008	Organic	n/a	520	mg/kg
	Tritium	77	Radionuclide	0.03	260	pCi/g
AAA1101 (12–18 in.)	Acetone	0.02	Organic	n/a	1400	mg/kg
	Lithium	2.5	Inorganic	N.A.	1500	mg/kg
	Strontium	1.7	Inorganic	N.A.	45000	mg/kg
	Tritium	66	Radionuclide	0.03	260	pCi/g
Location 21-1433						
AAA1102 (0–6 in.)	Cadmium	0.88	Inorganic	0.4	37	mg/kg
	Lithium	5.6	Inorganic	N.A.	1500	mg/kg
	Plutonium-239	1.04	Radionuclide	0.054	24	pCi/g
	Strontium	12.6	Inorganic	N.A.	45000	mg/kg
	Tritium	242	Radionuclide	0.08	260	pCi/g
AAA1103 (6–12 in.)	Acetone	0.036	Organic	n/a	1400	mg/kg
	Lithium	2.8	Inorganic	N.A.	1500	mg/kg
	Strontium	5.4	Inorganic	N.A.	45000	mg/kg
	Tritium	110	Radionuclide	0.03	260	pCi/g
AAA1104 (12–18 in.)	Acetone	0.042	Organic	n/a	1400	mg/kg
	Lithium	3	Inorganic	N.A.	1500	mg/kg
	Methylene Chloride	0.007	Organic	n/a	8.5	mg/kg
	Strontium	4	Inorganic	N.A.	45000	mg/kg
	Tritium	77	Radionuclide	0.03	260	pCi/g

[a] The 0- to 6-in. depth is in soil. The 6- to 12-in. and 12- to 18-in. depths are in tuff.

[b] SAL = screening action level.

[c] n/a = not applicable.

[d] N.A. = not available.

Inorganic Results. Inorganic chemical results were compared to 1999 BVs. Three chemicals, cadmium, chromium, and lead, were detected above their respective BVs for soil. In the tuff, two inorganic chemicals, arsenic and chromium, were detected above their respective BVs (Qbt 2, 3, and 4). The inorganic chemicals, lithium, strontium, and molybdenum were also detected; however, there are no established BVs for these chemicals. A comparison of the inorganics detected above their BVs to the

range of concentrations in the background data sets found that arsenic (3.3 mg/kg) was within the range of tuff background concentrations (0.25 mg/kg to 5 mg/kg), and chromium concentrations (20.4 mg/kg and 21 mg/kg) were within the range of soil background concentrations (1.9 mg/kg to 36.5 mg/kg). Therefore, arsenic in tuff and chromium in soil are not considered to be different from background.

Comparison of the analytical results for cadmium, chromium, and lead, and the inorganic chemicals without BVs, lithium, molybdenum, and strontium, to SALs is relevant to a depth of 12 ft because no receptors are present below that depth. This comparison found that none of the inorganic chemicals exceeded 0.1 of their SALs.

Radionuclide Results. The radionuclide results were compared to 1999 BVs (Table 2.1-2). Three radionuclides, americium-241, plutonium-239, and tritium, were detected above their respective background/fallout values for soil. Comparison of the analytical results to SALs found that none of the radionuclides exceeded SALs.

Volatile Organic Results. In one or more samples, three volatile organic compounds, acetone, methylene chloride, and toluene, were detected in the soil and tuff (Table 2.1-2). These chemicals were detected at concentrations of 0.055 mg/kg (acetone), 0.007 mg/kg (methylene chloride), and 0.008 mg/kg (toluene). These concentrations are less than 0.1 SALs.

Semivolatile Organic Results. No semivolatile organic compounds were detected in any of the samples collected at this PRS.

1993 RFI Sampling

In 1993, a borehole was drilled at the septic tank location (21-1681), and four samples were collected at 5-ft intervals to a depth of 20 ft. Another borehole was drilled in the center of the outfall pit (21-1680), and four samples were collected at 2.5-ft intervals to a depth of 10 ft. These samples were analyzed for inorganics, volatile and semivolatile organic chemicals, radionuclides (gamma-emitting radionuclides by gamma spectrometry, tritium, isotopic plutonium, isotopic uranium, isotopic thorium, strontium-90, and americium-241). There was no analysis conducted for mercury in these two boreholes because the laboratory analytical suite at that time did not include mercury. Sample results of analytes with concentrations above BVs and those with no BVs are presented in Table 2.1-3.

Inorganic Results. The inorganic chemical results were compared to 1999 BVs. Eight inorganics, aluminum, arsenic, barium, beryllium, calcium, chromium, copper, and magnesium, were detected above their respective BVs for tuff (Qbt 2, 3, and 4) in the borehole drilled in the outfall pit. No inorganic chemicals were detected above their respective BVs for tuff (Qbt 2, 3, and 4) in the borehole drilled adjacent to the septic tank. Lithium and stable strontium do not have Laboratory BVs. When compared to the background data set, all eight inorganics, except arsenic, were detected at concentrations greater than the range of background concentrations. The detected concentrations of arsenic (3.4 mg/kg and 3.7 mg/kg) were within the range of background concentrations (0.25 mg/kg to 5 mg/kg). Therefore, arsenic is not considered to be different from background.

Comparison of the analytical results for aluminum, barium, beryllium, chromium, and copper, as well as lithium and stable strontium to human health SALs, is relevant to a depth of 12 ft. (Calcium and magnesium are essential nutrients and not considered a risk to human health or the environment and do

not have SALs.) At depths greater than 12 ft, human receptors and pathways are not present. This comparison found that none of the inorganic chemicals exceeded 0.1 of their SALs.

Table 2.1-3
Analytical Results Above BVs and Those With No BVs (1993 RFI Sampling)

Sample ID and Depth[a]	Analyte	Result	Lab Qualifier	RFI Class	BV	SAL	Units
Location 21-1681 (septic tank)							
AAA4179 (0–60 in.)	Lithium	8.4		Inorganic	N.A.[b]	1500	mg/kg
	Strontium	1.3		Inorganic	N.A.	45000	mg/kg
AAA4180 (0–60 in.)	Lithium	3.9		Inorganic	N.A.	1500	mg/kg
	Strontium	1.5		Inorganic	N.A.	45000	mg/kg
AAA4181 (60–120 in.)	Lithium	10.9		Inorganic	N.A.	1500	mg/kg
	Plutonium-239	0.02		Radionuclide	n/a[c]	24	pCi/g
	Strontium	1		Inorganic	N.A.	45000	mg/kg
	Tritium	0.07404	J[c]	Radionuclide	0.03	260	pCi/g
AAA4182 (120–180 in.)	Americium-241	0.014		Radionuclide	n/a	22	pCi/g
	Lithium	5.5		Inorganic	N.A.	1500	mg/kg
	Strontium	1.3		Inorganic	N.A.	45000	mg/kg
	Tritium	0.18746	J	Radionuclide	0.03	260	pCi/g
AAA4183 (180–240 in.)	Lithium	1.3		Inorganic	N.A.	1500	mg/kg
	Tritium	0.10176	J	Radionuclide	0.03	260	pCi/g
Location 21-1680 (pit)							
AAA4173 (0–30 in.)	Americium-241	0.025		Radionuclide	0.013	22	pCi/g
	Plutonium-239	0.373		Radionuclide	0.054	24	pCi/g
AAA4176 (30–60 in.)	Aluminum	7750		Inorganic	7340	75000	mg/kg
	Barium	62.7		Inorganic	46	5200	mg/kg
	Beryllium	1.9		Inorganic	1.21	150	mg/kg
	Chromium	14.5		Inorganic	7.14	30	mg/kg
	Copper	9.8		Inorganic	4.66	2800	mg/kg
	Magnesium	1910		Inorganic	1690	n/a	mg/kg
	Strontium	32.3		Inorganic	N.A.	45000	mg/kg
	Tritium	0.06633	J	Radionuclide	0.03	260	pCi/g
AAA4177 (60–90 in.)	Aluminum	11400		Inorganic	7340	75000	mg/kg
	Barium	280		Inorganic	46	5200	mg/kg
	Beryllium	1.9		Inorganic	1.21	150	mg/kg
	Calcium	10600		Inorganic	2200	n/a	mg/kg
	Chromium	7.6		Inorganic	7.14	30	mg/kg
	Copper	12		Inorganic	4.66	2800	mg/kg
	Magnesium	3350		Inorganic	1690	n/a	mg/kg
	Strontium	62		Inorganic	N.A.	45000	mg/kg

	Tritium	0.22388	J	Radionuclide	0.03	260	pCi/g

Table 2.1-3 (continued)

Sample ID and Depth[a]	Analyte	Result	Lab Qualifier	RFI Class	BV	SAL	Units
Location 21-1680 (pit) (continued)							
AAA4178 (90–120 in.)	Aluminum	8390		Inorganic	7340	75000	mg/kg
	Barium	188		Inorganic	46	5200	mg/kg
	Calcium	12600		Inorganic	2200	n/a	mg/kg
	Copper	7.3		Inorganic	4.66	2800	mg/kg
	Magnesium	2770		Inorganic	1690	n/a	mg/kg
	Strontium	58.5		Inorganic	N.A.	45000	mg/kg
	Tritium	0.27567	J	Radionuclide	0.03	260	pCi/g

[a] The 0- to 60-in. depth is in soil/tuff. The 60- to 120-in. and 120- to 240-in. depths are in tuff.
[b] N.A. = not available.
[c] n/a = not applicable.
[d] J = estimated value.

Radionuclide Results. Three radionuclides, americium-241, plutonium-239, and tritium, were detected above their respective 1999 background/fallout values for soil or tuff (Qbt 2, 3, and 4) in the boreholes drilled in the outlet pit and adjacent to the septic tank. Comparison of the analytical results to SALs found that none of the radionuclides exceeded SALs.

Organic Results. No volatile or semivolatile organic compounds were detected.

Summary of Results of Previous Investigations

The available data for PRS 21-024(f) indicate that a release has occurred to the environment from the septic tank system. None of the inorganic and radionuclide chemicals detected above background or the organic chemicals detected in the soil were above human health SALs. No contamination that warrants removal of soil has been identified. However, the farthest samples collected down gradient had the highest concentration; therefore, the extent of the contamination has not been adequately defined.

2.2 PRS C-21-015

2.2.1 Site Description and Operational History

PRS C-21-015 (Figure 2.1-2) is described as the former Building TA-21-45. This site was proposed for NFA in the TA-21 RFI work plan (LANL 1991, 7680). Subsequent archival research and field observation indicate that a concrete sump and possible underground pipes were left in place after the building was removed in 1954 (Francis 1996, 63125) and that operational history is different than what was known at the date NFA was proposed.

This building, originally situated at 15th Street and Trinity Drive, was moved and set on piers on the north side of DP Road across from the DP laundry building, TA-21-20, in July 1947 (Francis 1996, 63125).

Initially, the building was used for safety training. In 1949, alterations were made to Building TA-21-45 for the Industrial Wastes Studies Group. The northwest restroom of the building was converted to transfer waste to and from the DP laundry building by way of steel pipes (Blackwell 1953, 63127). The conversion included an 8 ft x 6 ft x 4 ft pit that drained to a 3 ft x 3.5 ft x 2.5 ft concrete sump within the former restrooms, with the liquid waste-handling equipment positioned over these features (Francis 1999, 63126). The steel pipe that came up and out of the sump was routed underground to a depth of approximately 3 ft and ran 110 ft to the west where it was routed aboveground and attached to an overhead steam line. The steam line and the pipe passed over DP Road and continued above ground into the laundry building and laundry sump (Francis 1999, 63126). The aboveground section of the steel pipe is no longer in place; this VCA is concerned only with the sump and the underground section of the pipe. The laundry sump discharged to the MDA V seepage pits (Francis 1999, 63126). The DP laundry [PRS 21-018(b)] was used to launder personal protective clothing and other cloth materials that had been contaminated with radionuclides.

Building TA-21-45 was declared free of contamination and removed in August 1954 by the Conwell Electric Company (Francis 1999, 63125). The concrete sump and pipes were reportedly abandoned in place in 1954 (Blackwell 1953, 63127).

2.2.2 Previous Field Investigations

There have been no previous field investigations of PRS C-21-015.

2.2.3 Results of Previous Investigations

There have been no previous field investigations of PRS C-21-015.

3.0 BASIS FOR CLEANUP LEVELS

The primary objectives of this VCA are to collect additional samples to define the nature and extent of contamination at these two PRSs and to remove the septic tank and sump along with the associated drain lines. Because nature and extent of contamination have not yet been adequately defined, it is not clear if soil removal will be required as part of this VCA. Cleanup levels for human health and ecological concerns have not been developed at this time. If required, proposed cleanup levels will be submitted to NMED HRMB for review as an addendum to this plan.

Following the proposed sampling, the data collected at these PRSs (previous and proposed data) will be evaluated using SALs and ecological screening levels (ESLs) to determine if an unacceptable risk remains at this site. If an unacceptable risk to human health and/or the environment is identified and remediation is warranted, cleanup levels that will be protective of human health and the environment will be developed. For human health, the cleanup levels for nonradionuclides will be based upon probable future land use and will be calculated using the most current guidance from EPA. Both the TA-21 work plan and land transfer proposals assume future land use of TA-21 to be industrial. Cleanup levels for radionuclides will be derived for the probable land use using the RESRAD computer code. For ecological purposes, cleanup levels may be derived from the ESLs. Cleanup levels used in any remediation conducted at these PRSs will be presented along with the rationale and equations in the VCA completion report for these PRSs.

4.0 PROPOSED CORRECTIVE ACTION

4.1 Conceptual Model

The conceptual model for PRSs 21-024(f) (septic tank and outfall) and C-21-015 (sump) describes two primary contaminated media. Contaminated media from both PRSs may be subsurface soil/tuff; other contaminated media from PRS 21-024(f) would be surface soil at the outfall. Potential pathways from subsurface releases to potential receptors would be complete only if the soil or tuff was excavated and brought to the surface. In such a case, the potential pathways would be similar to those of a surface soil release, i.e., dermal contact, inhalation of fugitive dust, and incidental ingestion of soil. Downward migration in the vadose zone of contaminants would be limited by a lack of hydrostatic pressure, and the lack of saturated conditions in the area would restrict both horizontal and vertical migration. Therefore, a complete pathway to the regional aquifer, which is located approximately 1000 ft below the PRS structures, is unlikely. In addition, there are no seeps or springs nearby that would indicate the presence of perched alluvial aquifers. In DP canyon, approximately 1500 ft east of PRS 21-024(f), the deep well LADP-4 was drilled in 1993 to a depth of 800 ft. No perched groundwater was found. Approximately 100 ft and 350 ft further east in the canyon bottom alluvium, wells LAUZ-1 and LAUZ-2, respectively, encountered alluvial water at approximately 4.5 ft below the surface. Approximately 4000 ft further east is DP Spring, which flows from the south-facing slope to DP Canyon.

In the area of the septic system outfall, the primary transport mechanism may be surface water runoff. In addition, migration of contaminants as particulates or fugitive dust may have occurred as a result of the air pathway (i.e., wind). Erosion and mass wasting are not considered viable migration pathways because the area is well vegetated with stable slopes, and no evidence of erosion is present. Potential pathways from releases to the surface soil are primarily dermal contact, inhalation of fugitive dust, and incidental ingestion of soil. Potential receptors would be hikers and trail users in the vicinity of the outfall and DP Canyon. Additionally, this land may be transferred from DOE control to new owners in the future. A result of this new ownership may be changes in land uses, such as commercial or light industrial. In such cases, individuals associated with the businesses would be potential receptors by way of the same or additional pathways. Figure 4.1-1 presents the conceptual model for human receptors for PRSs 21-024(f) and C-21-015.

The ecological conceptual site model (ECSM) identifies which exposure pathways represent major, minor, unlikely, or no pathway to ecological receptors (terrestrial and aquatic). In general, exposure pathways to terrestrial receptors can occur through air (inhalation or deposition of vapors or particulates), surface soil (root uptake, rain splash on plants, food web transport by way of plants and/or animals, incidental ingestion of soil, dermal contact with soil, and external radiation), and surface water or active channel sediments (root uptake, rain splash on plants, food web transport to plants and animals, incidental ingestion of sediment, dermal contact with sediment, and external radiation from sediment). Exposure pathways to aquatic receptors include bioconcentration of contaminants from uptake by aquatic organisms from water or sediment, bioaccumulation from uptake by aquatic organisms from water or sediment, and external irradiation from sediment.

For PRS 21-024(f), the major soil-related exposure pathways include food web transport because some chemicals of potential ecological concern are potential bioaccumulators and incidental ingestion of soil for terrestrial animals. Minor soil-related exposure pathways include inhalation/deposition of particulates or fugitive dust for plants and animals and root uptake/rain splash for terrestrial plants. Pathways related to respiration of vapors and dermal contact are considered unlikely for exposure to surface soils. There is no pathway for external irradiation because no gamma-emitting radionuclides are present. No potential

pathways from water and/or sediment are present because there are no surface water systems on the mesa top, and the stream channel in DP Canyon is ephemeral. No pathways exist for aquatic receptors because there are no permanent aquatic communities present near the outfall, in the drainage, or in the canyon below and for a distance of at least 100 yards upstream or downstream from the drainage. The ECSM for the outfall portion of PRS 21-024(f) and the associated rationale are presented in Part C of the ecological scoping checklist (Appendix D).

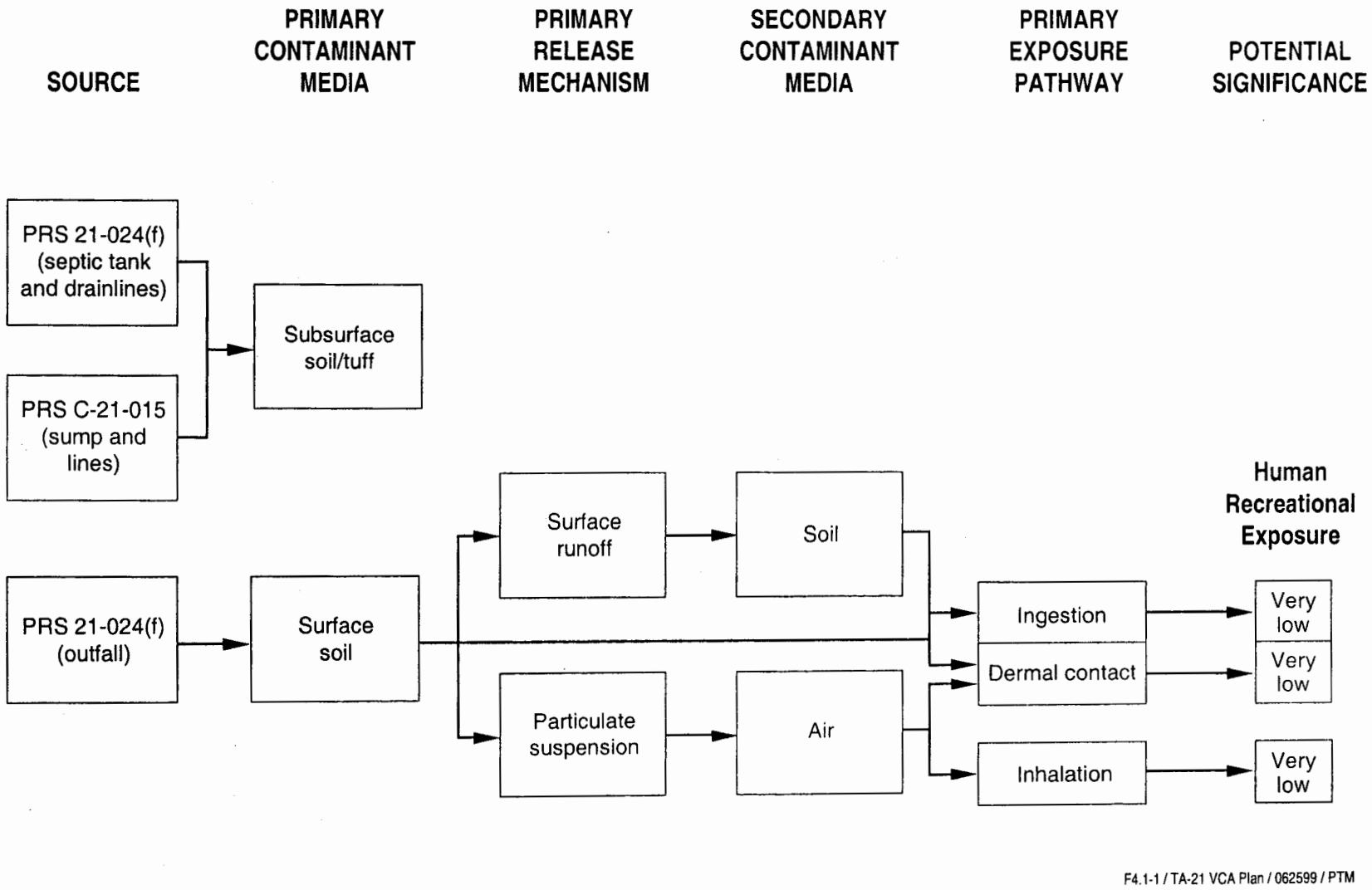


Figure 4.1-1. Conceptual model of contaminant transport at PRSs 21-024(f) and C-21-015

For PRS C-21-015, the sump is located below the surface, making surface releases unlikely. Minor soil-related exposure pathways may include root uptake/rain splash for terrestrial plants, food web transport, and incidental ingestion of soil. The pathways related to inhalation/deposition of particulates or fugitive dust and external irradiation are considered unlikely for exposure to surface soils. There is no pathway for respiration of vapors. There are also no potential pathways from water and/or sediment because there are no surface water systems on the mesa top and surface releases are unlikely. No pathways exist for aquatic receptors because there are no aquatic communities present in the vicinity of the sump. The ephemeral stream channel in DP Canyon is approximately 250 ft north of the PRS location. The ECSM for the sump at PRS C-21-015 and the associated rationale are presented in Part C of the ecological scoping checklist (Appendix D).

4.2 Supplemental Sampling

Two sampling events will be conducted before excavation takes place. First, sampling will be conducted to determine the nature of the contamination within the septic tank and the concrete sump. Second, sampling will be conducted to determine the extent of the contamination within the septic system's outfall area. Field screening will be performed to ensure worker health and safety, to comply with Laboratory waste minimization policies, and to guide selection of possible soil-sampling locations. Soil will be screened using an organic vapor monitor for volatile organic vapors, and soil and possible waste will be screened for ionizing radiation using an alpha probe and a beta/gamma probe. The excavation area and septic tank will be screened for flammable gases using a combustible gas indicator. All field-screening instruments will be calibrated and checked by the site safety officer, as required.

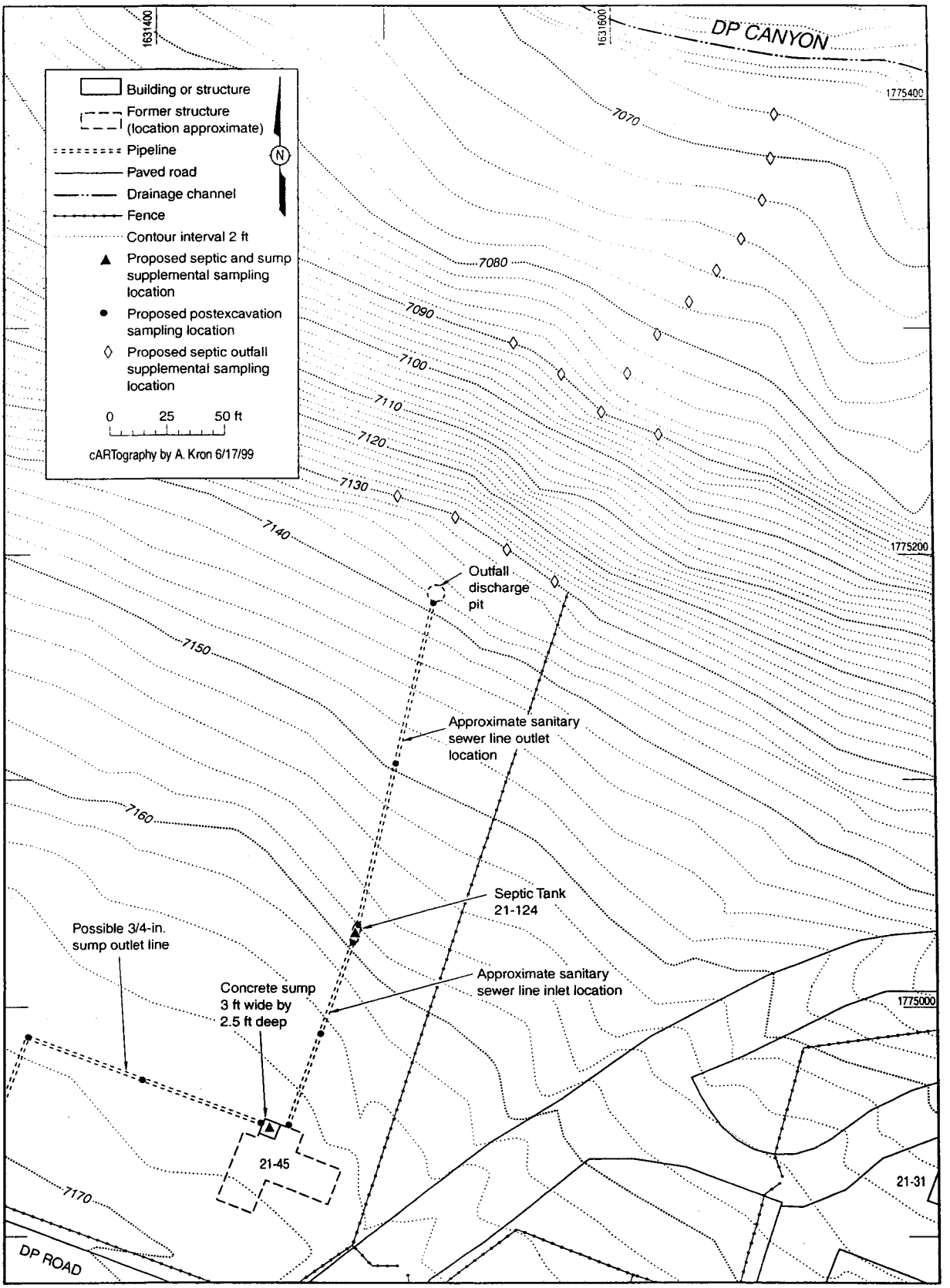
4.2.1 Septic Tank and Sump Supplemental Sampling

After the overlying soil is removed, samples will be taken from the septic tank. The types of samples is dependant on the tank contents. If the septic tank contains fill material, a hand auger will be used to sample at three levels (0–2 ft, 2–4 ft, 4–6 ft). If sludge (semisolid) or liquid is found at the bottom of the septic tank, the bottom of the tank will be scraped with an implement to gather a representative sample. A hand auger will be used to collect two samples from the sump; one from the 1.5-ft to 2-ft interval and one from the bottom of the sump at approximately 2 ft to 2.5 ft. Hand-auger samples will be collected according to ER-SOP-6.10 (current version), "Hand Auger and Thin-Wall Tube Sampler." Figure 4.2-1 presents the proposed locations where the samples will be collected, and Table 4.2-1 lists these proposed samples.

All samples collected from the sump and the septic tank will be sent to an off-site, fixed laboratory; a full suite analysis will be performed including PCBs, inorganics (including mercury), volatile and semivolatile chemicals, soil pH, and radionuclides (gamma-emitting radionuclides by gamma spectrometry, tritium, isotopic plutonium, isotopic uranium, isotopic thorium, and strontium-90). The septic tank data will be used to identify analytes for the septic system outfall soil samples.

4.2.2 Septic System Outfall Supplemental Sampling

Approximately 16 sample locations will be identified on the outfall slope from the septic system and will be sampled (Figure 4.2-2). As the figure illustrates, there are two identifiable topographic areas on this slope. The upper slope is steep, with two drainage areas. This high-gradient area has thin soil with forest litter overlying Unit 3 of the Tshirege Member of the Bandelier tuff. The lower slope is a low-gradient fan deposit with a shallow gully. The fan deposits locally bury young ponderosa pines (post-Laboratory age).



Sources: FIMAD G107662 5/14/99; LASL 1949, ENG4C-660 Sh. 1 of 2

F4.2-1 / TA-21 VCA Plan / 071099 / PTM

Figure 4.2-1. Proposed septic and sump supplemental sampling locations

Table 4.2-1
Septic and Sump Samples

Sample Location	Sample Depth	Sample Description
Septic tank (semisolid material)	Bottom of septic tank	Material scraped off bottom of septic tank
Sump	1.5–2 ft	Sample collected the bottom 1.5–2 ft of the sump
Sump	2–2.5 ft	Sample collected the bottom six inches of the sump
Septic tank (fill material)	0–2 ft	Top of septic tank
Septic tank (fill material)	2–4 ft	Middle of septic tank
Septic tank (fill material)	4–6 ft	Bottom of septic tank

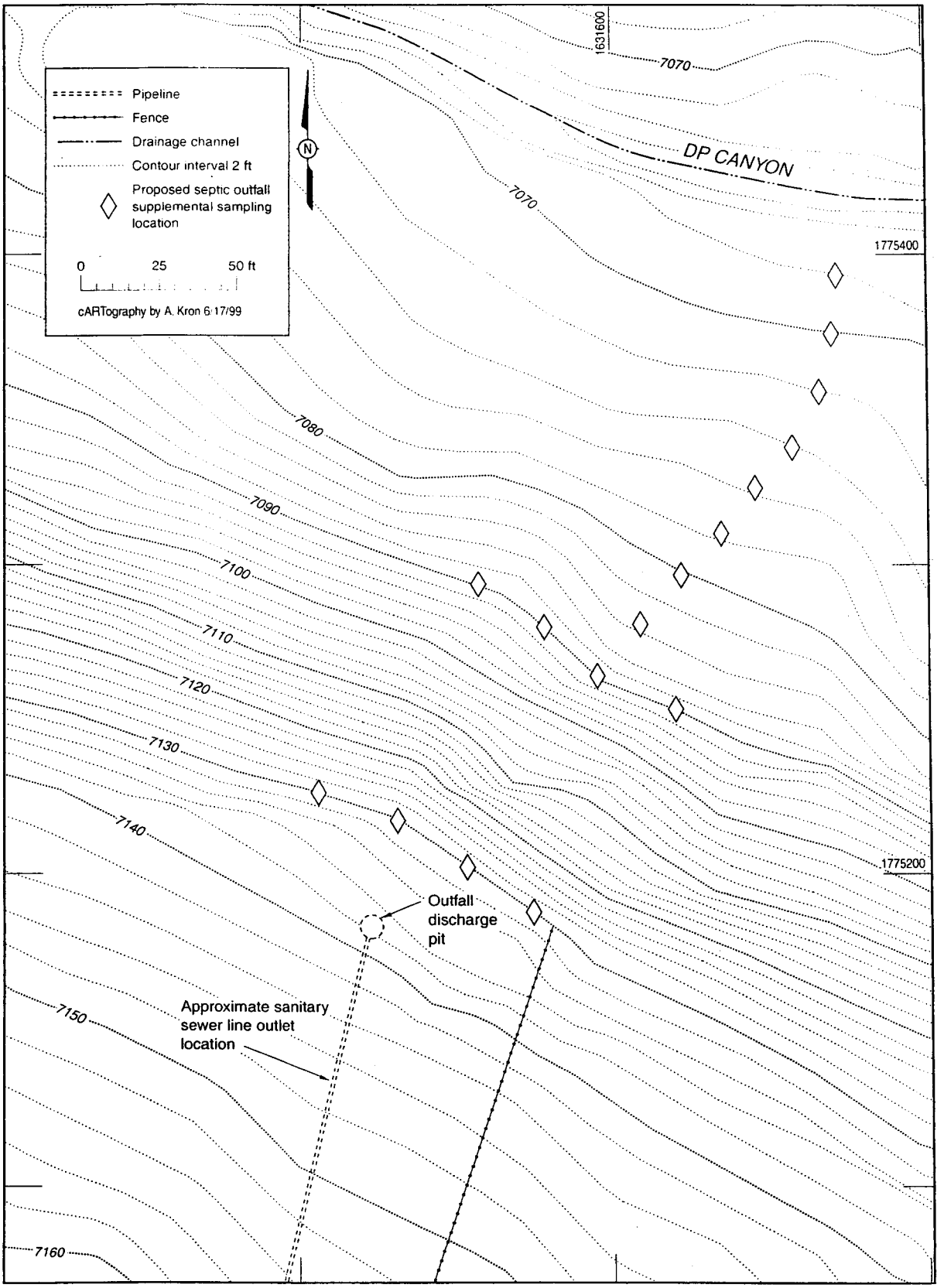
The upper slope will be sampled to bedrock in areas of greatest soil deposition. This depth is expected to be 6 in. or less. Sample locations on the lower slope will all be located within the gully and will be hand dug to a 2- to 3-ft depth. Samples will be collected based on the observed stratigraphy. If complex stratigraphy is encountered, each distinct stratigraphic layer will be sampled. Several ponderosa pines will be cored to determine their age to confirm that sediments younger than the age of potential release are sampled. DP Canyon reach data will be used in combination with the outfall sampling to assess nature and extent of contamination.

These samples will be collected using the spade and scoop method according to ER-SOP-6.09 (current version), "Spade and Scoop Method for Collection of Soil Samples." All samples collected from these locations will be sent to an off-site, fixed laboratory and analyzed. The types of analyses to be performed on these samples will be based on the analytical results from the supplemental samples.

4.3 Cleanup Activities

The cleanup activities proposed in this VCA plan are limited to the removal of the septic tank, sump, and associated drain lines because available characterization data have not identified any contamination that warrants soil remediation. The extent of the cleanup activities at these PRSs will depend on the extent and levels of contamination found in the supplemental sampling of the outlet pipe, septic tank, the sump, and the septic tank outfall. If supplemental sampling data identify contamination that poses an unacceptable risk to human health and the environment, cleanup levels will be derived and remediation of the contaminated soil will be conducted. The final cleanup activities and the derivation of the cleanup levels will be described in detail in the VCA completion report for these PRSs.

Soil overlying the outlet and inlet pipes for the septic tank and sump will be removed and field screened during excavation. It is thought that these pipes are at a depth of 4 ft. Soil overlying the septic tank and pipes is not expected to be contaminated because this system was gravity driven and not under pressure. Any liquid from leaks in the system would have seeped below these structures. However, soil overlying the outlet pipe from the concrete sump may be contaminated because this pipe was probably pressure driven. All soil overlying the sump outlet pipe will be temporarily placed on plastic sheeting and covered while representative soil samples are analyzed. Depending on the results of the analyses, the soil will be transported off site and disposed of at a proper facility or placed back in the trench when the excavation has been completed. Waste management is discussed in detail in Section 6.



Sources: FIMAD G107662 5/14/99; LASL 1949, ENG4C-660 Sh. 1 of 2

F4.2-2 / TA-21 VCA Plan / 071099 / PTM

Figure 4.2-2. Proposed septic outfall supplemental sampling locations

The sump, septic tank, and their outlet and inlet pipes will be excavated, and placed in roll off bins. These items will be transported off site and disposed of at a proper waste facility, based on the analytical results.

The trench floors will be examined during excavation of the sump, tank, and pipes. Field instrument readings and field observations of pre-existing breaks in the pipes, septic tank, or sump walls and areas of soil discoloration will be used to identify areas of possible contamination. Identified areas of possible contamination will be sampled at two depths for analysis. If no areas of possible contamination are noted, soil samples will be collected at the beginning, middle, and end of the inlet and outlet pipes and immediately beneath the septic tank where the inlet and outlet pipes join this structure. If possible, sample locations will be biased toward any nearby fractures in the tuff. All samples will be sent to an off-site, fixed laboratory for analysis. The types of analyses to be performed on these samples will be based on the analytical results from the supplemental samples. Contaminated soil will be excavated and loaded directly into the appropriate waste container.

All activities will be conducted according to the site-specific plans prepared for the site. These plans include this VCA plan, the Storm Water Pollution Prevention plan, the site-specific health and safety plan, and the Waste Characterization Strategy form.

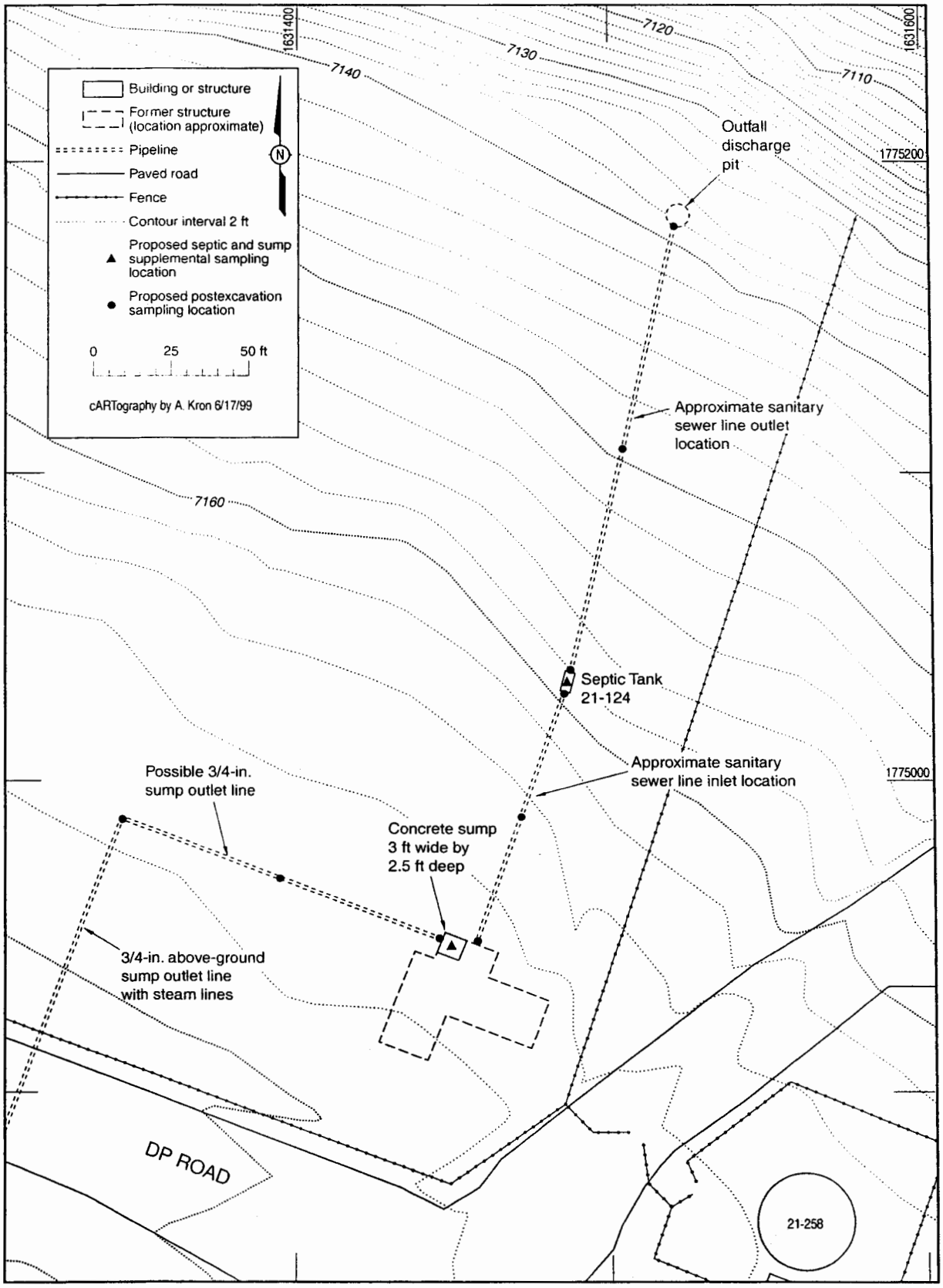
4.4 Site Restoration

Before activities begin, photographs, field sketches, and/or video documentation will be prepared to record the conditions of the site. Upon completion of VCA activities, the site will be restored to its preinvestigation contours and seeded with a mix of short-rooted grasses. Stormwater best management practices will be installed as needed during and after completion of remedial activities and inspected and maintained in accordance with ER requirements.

5.0 CONFIRMATORY SAMPLING

5.1 Confirmatory Sampling for PRS 21-024(f)

Figure 5.1-1 presents proposed postexcavation confirmatory sampling locations. This figure does not identify possible postexcavation confirmatory sampling locations within the septic outfall because the available data do not indicate excavation is warranted, and the supplemental sampling in the outfall area has not yet occurred. If the supplemental sampling in the outfall indicates excavation is required, confirmation samples will be collected after the excavation is completed. All trench floors will be field examined during excavation. Field instrument readings and field observations of pre-existing breaks in the pipes, septic tank or sump walls, fractured areas in the underlying tuff, and areas of soil discoloration will be used to identify areas of possible contamination. Identified areas of possible contamination will be sampled at two depths from the bottom of the excavation (0–12 in. and 12–24 in.). These two depths have been chosen to confirm if contamination is present on the trench floor or to ascertain the extent of any contamination. If no areas of possible contamination are noted, soil samples will be collected at each end and in the middle of the inlet and outlet pipes. The sampling locations will be moved to a nearby fracture within the tuff if one is evident. Table 5.1-1 identifies the type, depth, and description of samples proposed to be collected beneath the septic system inlet and outlet pipes.



Sources: FIMAD G107662 5/14/99; LASL 1949, ENG4C-660 Sh. 1 of 2

F5.1-1 / TA-21 VCA Plan / 071099 / PTM

Figure 5.1-1. Proposed postexcavation confirmation sampling locations

Table 5.1-1
Septic Tank, Inlet Pipe, and Outlet Pipe Sample Locations

Sample Type	Sample Depth	Sample Description
Subsurface	Immediately below inlet to tank (0–12 in.)	Collected from the south end of the imprint of the excavated tank beneath the connection to the inlet pipe, media may be fill or tuff
Subsurface	Immediately below inlet to tank (12–24 in.)	Collected from the south end of the imprint of the excavated tank beneath the connection to the inlet pipe, media may be fill or tuff
Subsurface	Approximately 40 ft. south of tank immediately below excavated inlet pipe (0–12 in.)	Collected from media immediately below excavated inlet pipe, approximately half way between septic tank location and former building location
Subsurface	Approximately 40 ft. south of tank immediately below excavated inlet pipe (12–24 in.)	Collected from media immediately below excavated inlet pipe, approximately half way between septic tank location and former building location
Subsurface	Approximately 80 ft. south of tank, immediately below end of excavated inlet pipe (0–12 in.)	Collected from media immediately below excavated inlet pipe, at the end of the pipe
Subsurface	Approximately 80 ft. south of tank, immediately below end of excavated inlet pipe (12–24 in.)	Collected from media immediately below excavated inlet pipe, at the junction of the septic tank inlet pipe and the former building (the end of the inlet pipe)
Subsurface	Immediately below septic tank (0–12 in.)	Collected from the center of the imprint of the excavated tank. media may be fill or tuff
Subsurface	Immediately below septic tank (12–24 in.)	Collected from the center of the imprint of the excavated tank, media may be fill or tuff
Subsurface	Immediately below outlet to tank (0–12 in.)	Collected from the north end of the imprint of the excavated tank beneath the connection to the outlet pipe, media may be fill or tuff
Subsurface	Immediately below outlet to tank (12–24 in.)	Collected from the north end of the imprint of the excavated tank beneath the connection to the outlet pipe, media may be fill or tuff
Subsurface	Approximately 80 ft. north of tank immediately below excavated outlet pipe (0–12 in.)	Collected from media immediately below excavated outlet pipe, approximately halfway between septic tank location, and septic tank outfall pit
Subsurface	Approximately 80 ft. north of tank immediately below excavated outlet pipe (12–24 in.)	Collected from media immediately below excavated outlet pipe, approximately halfway between septic tank location, and septic tank outfall pit
Subsurface	Approximately 160 ft. north of tank, immediately below end of excavated outlet pipe (0–12 in.)	Collected from media immediately below excavated outlet pipe, approximately 160 ft north of septic tank location (the end of the outlet pipe)
Subsurface	Approximately 160 ft. north of tank, immediately below end of excavated outlet pipe (12–24 in.)	Collected from media immediately below excavated outlet pipe, approximately 160 ft north of septic tank location (the end of the outlet pipe)

5.2 Confirmatory Sampling for PRS C-21-015

Figure 5.1-1 presents proposed postexcavation confirmatory sampling locations for this PRS. The trench floor from the excavation of the steel pipes will be field examined. Field instrument readings and field observations of pre-existing breaks in the pipe, fractured areas in the underlying tuff, and areas of soil discoloration will be used to identify areas of possible contamination. Identified areas of possible contamination will be sampled at two depths from the bottom of the excavation, (0–12 in. and 12–24 in.).

These two depths have been chosen to ascertain if contamination is present on the trench floor and to determine extent of any contamination that is present. If no areas of possible contamination are noted, soil samples will be collected at each end and in the middle of the underground portion of the sump line trench. If obvious fractures in the tuff are noted near these locations, the samples will be collected so as to include these fractures. Table 5.2-1 identifies the type, depth, and description of samples proposed to be collected beneath the sump line.

Table 5.2-1
Sump and Outlet Pipe Samples

Sample Type	Sample Depth	Sample Description
Subsurface	Immediately below sump outlet pipe (0–12 in.)	Approximately 0 ft west of the sump and 6 ft north of the sump
Subsurface	Immediately below sump outlet pipe (12–24 in.)	Approximately 0 ft west of the sump and 6 ft north of the sump
Subsurface	Immediately below sump outlet pipe (0–12 in.)	Approximately 35 ft west of the sump
Subsurface	Immediately below sump outlet pipe (12–24 in.)	Approximately 35 ft west of the sump
Subsurface	Immediately below sump outlet pipe (0–12 in.)	Approximately 70 ft west of the sump
Subsurface	Immediately below sump outlet pipe (12–24 in.)	Approximately 70 ft west of the sump
Subsurface	0–12 in.	Beneath the sump
Subsurface	12–24 in.	Beneath the sump

6.0 WASTE MANAGEMENT

6.1 Estimated Types and Volumes of Waste

Five separate waste streams are anticipated from this VCA. The waste streams, expected waste types, and volumes are summarized in Table 6.1-1. Waste stream descriptions, including the principal components of the waste and any uncertainties in volume calculations, are described in the paragraphs that follow.

Table 6.1-1
PRSs 21-024(f) and C-21-015 Waste Streams, Types, and Volumes

Waste Stream	Waste Type	Anticipated Volume
Metal and concrete debris	Solid, potentially low-level waste	6 yd^3
Tank contents	Solid/sludge (semisolid) potentially low-level waste	10 yd^3
Contaminated soil	Solid potentially low-level waste	100 yd^3
Decontamination water	Liquid, potentially low-level waste	<25 gal.
Plastics, personal protective equipment (PPE), sampling waste	Solid, potentially low-level waste	10 yd^3

Metal and Concrete Debris. This waste stream includes the septic tank and its VCP inlet and outlet pipes and the concrete sump and its associated pipes. The volume calculation assumes that some of the items will remain essentially intact but others (i.e., concrete sump or clay pipe) will be broken into sections or rubble to facilitate removal.

Characterization will be based on results of sampling residual materials in the debris (e.g., tank contents). Because of the lack of prior characterization knowledge, this waste stream could range from nonradioactive/nonhazardous to either low-level waste or mixed low-level waste depending on the outcome of sampling and analysis results.

Tank Contents (Solid/Sludge). This waste stream includes tank contents such as fill material or sludge. If the tank contents are semisolids (sludge) or liquid, absorbent will be added to eliminate any free liquids in the waste stream. Characterization of the waste will be determined by direct sampling of the tank contents. The volume estimate assumes the tank has been backfilled.

Contaminated Soil. This waste stream could include radioactively contaminated soils that are excavated both above and below the inlet and outlet pipes of the septic tank and soils below and above the outlet pipe for the concrete sump, as well as any soils requiring removal from the pit outfall area. Because of the lack of prior characterization knowledge, this waste stream could range from nonradioactive/nonhazardous to either low-level waste or mixed low-level waste depending on the sampling and analysis results. The quantity estimates for this waste stream are based on the volume of the soil above the steel sump pipe (2 ft wide x 3 ft deep x 110 ft). An additional 12 cubic yards is estimated as originating beneath the inlet/discharge pipes given an average excavation of 2 ft wide x 0.5 ft deep along the entire length of the pipes. Resulting soil volumes were increased by 20% to account for volume expansion. There is considerable uncertainty in these quantity estimates because of the potential for encountering unexpected conditions in the field.

Decontamination Water. This waste stream consists of solutions generated from the on-site decontamination of tools, excavation equipment, sampling equipment, and personnel. The anticipated volume of decontamination water is based on a minimum amount of wet decontamination. It is expected that the majority of decontamination will be performed with dry techniques. Decontamination solutions will be characterized to demonstrate compliance with waste acceptance criteria at the TA-50 Radioactive Liquid Waste Treatment Facility.

Plastics, PPE, and Sampling Wastes. This waste stream will include various types of plastic sheeting (e.g., tarps, and contamination control covers), disposable gloves, and sampling supplies such as plastic scoops, plastic bags, jars, and dry decontamination waste. Plastics, PPE, and sampling-related wastes have the potential to become contaminated through direct contact with contaminated environmental media and debris. Characterization of this waste will be determined from the contamination levels found in the soil and debris waste streams.

6.2 Method of Management and Disposal

This section describes the planned methods of managing the waste from the time of generation to final disposal.

Metal and Concrete Debris. Metal and concrete debris will be loaded into an appropriate roll-off container, based on the list of analytes identified during the supplemental sampling. Disposal site requirements will be determined once sample results from the metal and concrete debris have been evaluated. It is anticipated that the debris will be characterized as a solid low-level waste and transported for disposal at TA-54 Area G disposal facility. If the debris is characterized as hazardous waste (i.e., mixed low-level waste), then the option of off-site shipment to a licensed mixed-waste disposal facility will be evaluated.

Tank Contents (Solid/Sludge). The fill material or sludge will be placed into an appropriate roll-off container, based on the analytes identified during the waste characterization sampling. It is anticipated that the waste will be characterized as solid low-level waste and transported for disposal at TA-54, Area G. If the debris is characterized as hazardous waste, i.e., mixed low-level waste, then the option of off-site shipment to a licensed mixed-waste disposal facility will be evaluated.

Contaminated Soil. Potentially contaminated soils will be placed on plastic sheeting and covered until analytical results are received. Soil with contaminant concentrations that are below the sites' cleanup levels will be returned to the excavation. Contaminated soils will be packaged in 55-gal. drums or roll-off containers depending on the final volume of the waste stream. Final disposal of contaminated soils is expected to be at TA-54 Area G, provided it is low-level waste.

Decontamination Water. Decontamination solutions will be collected daily in 55-gal. steel or poly (bung-type) drums approved by the US Department of Transportation. Dry decontamination processes will be used to clean the equipment when it is removed from the site. It is possible that one 55-gal. drum for decontamination solutions will be sufficient to complete this VCA. Wet decontamination will only be used if it is determined that the dry decontamination is insufficient to clean the equipment fully. Drums containing liquids will be stored in secondary containment. Liquid waste samples will be collected for characterization. Radioactively contaminated liquids will be transported to the TA-50 Radioactive Liquid Waste Treatment Facility for disposal.

Plastics, PPE, and Sampling Wastes. Plastics, PPE, and miscellaneous sampling wastes will be collected in lined, 55-gal. drums and stored in a segregated low-level waste storage area. If feasible, the large plastic liners and tarps may be surveyed for release as nonradioactive material. Otherwise the drums will be transported to TA-54 Area G for disposal.

7.0 PROPOSED SCHEDULE AND UNCERTAINTIES

The field work portion of this VCA is expected to begin on June 18, 1999, and end November 24, 1999 (Table 7.0-1). Seven days are allotted to hold a site readiness review, train, mobilize, sample, and demobilize during the pre-excavation sampling field session. Laboratory analysis for the pre-excavation sampling of the septic tank and sump is 15 days.

Fifteen days are allotted for excavations and confirmatory sampling of the site, 30 days are allotted for the laboratory to analyze the confirmation samples. This time line should be achievable assuming that all laboratory analysis can be completed within this time period and that the confirmation samples provide evidence that contamination is not present or is present at acceptable risk levels. In addition, it is not known what type or amount of contamination will be found within the septic tank. If a large quantity of solid or liquid waste is found within the septic tank, a longer period of time may be necessary to remove this material and to remove the tank.

Table 7.0-1
VCA Field Work Schedule

Activity	Workday Duration	Start	Finish
Readiness review/preparation and characterization sampling	1 day	6/18/99	7/12/99
Preparation and precharacterization sampling	5 days	7/19/99	7/23/99
Laboratory analysis	15 days	7/23/99	8/13/99
Excavation and confirmatory sampling	15 days	8/23/99	9/13/99
Laboratory analysis	40 days	8/30/99	10/20/99
Waste management/disposal	64 days	8/23/99	11/24/99
Site restoration	5 days	11/3/99	11/10/99
Overall	**145 days**	**6/18/99**	**11/24/99**

Sixty-four days have been allotted for all waste sampling, analysis, disposition, and disposal. This schedule should be achievable if laboratory analysis and waste disposition decisions can be completed in a timely fashion and if a proper waste disposal facility can be confirmed.

Five days have been allotted for site restoration activities. If excavation is needed to clean up the outfall portion of the septic system, more restoration may be needed. In addition, if site restoration is more extensive than straw bale erosion controls, backfilling, grading and reseeding of the site, a longer period of time may be needed. The VCA completion report will be prepared in Fiscal Year 2000

8.0 REFERENCES

The following list includes all references cited in this document. Parenthetical information following each reference provides the author, publication date, and the environmental restoration record identification (ER ID) number. This information also is included in the citations in the text. ER ID numbers are assigned by the Laboratory's ER Project to track records associated with the Project. These numbers can be used to locate copies of the actual documents at the ER Project's Records Processing Facility and in the ER Project reference library titled "Reference Set for Material Disposal Areas, Technical Area 21."

Copies of the reference library are maintained at the New Mexico Environment Department Hazardous and Radioactive Materials Bureau; the Department of Energy Los Alamos Area Office; United States Environmental Protection Agency, Region VI; and the ER Project Material Disposal Areas Focus Area. This library is a living document that was developed to ensure that the administrative authority (AA) has all the necessary material to review the decisions and actions proposed in this document. However, documents previously submitted to the AA are not included in the reference library.

Blackwell, C., October 12, 1953. "Old Safety Training Building on DP Road," Los Alamos Scientific Laboratory letter to J. Bolton, Los Alamos, New Mexico. (Blackwell 1953, ER ID 63127)

EPA (US Environmental Protection Agency), April 10, 1990. Module VIII of RCRA Permit No. NM0890010515, EPA Region VI, issued to Los Alamos National Laboratory, Los Alamos, New Mexico, effective May 23, 1990, EPA Region VI, Hazardous Waste Management Division, Dallas, Texas. (EPA 1990, ER ID 01585)

EPA (US Environmental Protection Agency), undated. "Region 9 Preliminary Remediation Goals (PRGs)," memorandum from S. J. Smucker, Regional Toxicologist, Technical Support Team, San Francisco, California. (EPA 1998, ER ID 58751.1)

Francis, W., April 6, 1999. "A History of the 1949 Alterations to Building TA-21-45," Los Alamos National Laboratory memorandum EM/ER-RAFA:99-025 to G. McMath, Los Alamos, New Mexico. (Francis 1999, ER ID 63126)

Francis, W., July 1, 1996. "TA-21 Building 45," ERM Program Management Company telephone log from Linnea Wahl, Los Alamos, New Mexico. (Francis 1996, ER ID 63125)

LANL (Los Alamos National Laboratory), October 1987. "TA-23-Nu Site," Los Alamos CEARP Phase I draft report," Los Alamos, New Mexico. (LANL 1987, ER ID 39998.63)

LANL (Los Alamos National Laboratory), May 1991. "TA-21 Operable Unit RFI Work Plan for Environmental Restoration," Volumes III, Los Alamos National Laboratory report LA-UR-91-962, Los Alamos, New Mexico. (LANL 1991, ER ID 7680)

LANL (Los Alamos National Laboratory), February 28, 1994. "Phase Report 1C, TA-21 Operable Unit RCRA Facility Investigation, Outfalls Investigation," Los Alamos National Laboratory report LA-UR-94-228, Los Alamos, New Mexico. (LANL 1994, ER ID 59051)

LANL (Los Alamos National Laboratory), January 1995. "Phase Report Addendum 1B and 1C Operable Unit 1106 RCRA Facility Investigation," Los Alamos National Laboratory report LA-UR-94-4360, Los Alamos, New Mexico. (LANL 1995, ER ID 52350)

LANL (Los Alamos National Laboratory), September 22, 1995. "Voluntary Corrective Action Completion Report for Potential Release Sites, Group 2," Los Alamos National Laboratory report, Job #93069-043-00, Los Alamos, New Mexico. (LANL 1995, ER ID 49964.47).

Appendix A

List of Acronyms

APPENDIX A LIST OF ACRONYMS

BV	background value
COPC	chemical of potential concern
DOE	US Department of Energy
ECSM	ecological conceptual site model
EPA	US Environmental Protection Agency
ER	environmental restoration
ESL	ecological screening level
HSWA	Hazardous and Solid Waste Amendments of 1984
Laboratory	Los Alamos National Laboratory
n/a	not applicable
N.A.	not available
NFA	no further action
PCB	polychlorinated biphenyl
PPE	personal protective equipment
PRS	potential release site
RCRA	Resource Conservation and Recovery Act
RFI	RCRA facility investigation
SAL	screening action level
SOP	standard operating procedure
TA	technical area
VCA	voluntary corrective action
VCP	vitrified clay pipe

Appendix B

VCA Checklist and Field Work Authorization Form

APPENDIX B VCA CHECKLIST AND FIELD WORK AUTHORIZATION FORM

Voluntary Corrective Action (VCA)

Checklist and Field Work Authorization Form

PRS No. 21-24(f) HSWA

	COPC(s) defined.
	Nature and extent defined or field screening method available to guide were not defined.
√	Remedy is obvious.
√	Time for removal is less than 6 months.
√	Remedy is final.
√	Land use assumptions straightforward.
√	Treatment, storage, disposal facilities are available for waste type and volume.
√	Cleanup cost is reasonable for the planned action, and meets accelerated decision logic criterion for decision to proceed with VCA.

Explain criteria not checked above: This VCA plan describes sampling to define nature and extent

Through reviewing the above criteria associated with this site, I believe that a VCA is the appropriate accelerated cleanup approach.

FPL		Date	
FPC		Date	

The undersigned have reviewed the final plan and believe that it fully satisfies the appropriate accelerated cleanup approach.

FPL		Date	
FPC		Date	

Through reviewing the VCA plan for site(s) _____ and believing that the above criteria have been met, I authorize the fieldwork to proceed.

DOE ER Program Manager _____ Date _____

INFORMATION COPY ONLY

Voluntary Corrective Action (VCA)

Checklist and Field Work Authorization Form

PRS No. 21-015 AOC

	COPC(s) defined.
	Nature and extent defined or field screening method available to guide were not defined.
√	Remedy is obvious.
√	Time for removal is less than 6 months.
√	Remedy is final.
√	Land use assumptions straightforward.
√	Treatment, storage, disposal facilities are available for waste type and volume.
√	Cleanup cost is reasonable for the planned action, and meets accelerated decision logic criterion for decision to proceed with VCA.

Explain criteria not checked above: This VCA plan describes sampling to define nature and extent

Through reviewing the above criteria associated with this site, I believe that a VCA is the appropriate accelerated cleanup approach.

FPL		Date	
FPC		Date	

The undersigned have reviewed the final plan and believe that it fully satisfies the appropriate accelerated cleanup approach.

FPL		Date	
FPC		Date	

Through reviewing the VCA Plan for site(s) _____ and believing that the above criteria have been met, I authorize the fieldwork to proceed.

DOE ER Program Manager _____ Date_____

INFORMATION COPY ONLY

Appendix C

Standard Operating Procedure 2.01

Los Alamos National Laboratory

Environment, Safety & Health Division
ESH-18 Water Quality & Hydrology Group

Surface Water Assessment
Erosion Matrix for PRS 21-024(f)

CRITERIA EVALUATED	Value	Erosion/Sediment Transport Potential Low 0.1	Medium 0.5	High 1.0	Calculated Score
Site Setting (43)					
On mesa top	1	Defined based on topographic setting			
Within bench of canyon	4				4.0
Within the canyon floodplain but not watercourse	13				
Within bottom of canyon channel in watercourse	17				
Estimated % ground and canopy cover	13	>75%	25-75%	<25%	6.5
Slope	13	0-10%	10-30%	>30%	6.5
Surface Water Factors-Run-off (46)					
Visible evidence of runoff discharging? (Yes/No)	5	If no, score of 0 for runoff section.			5.0
		If yes, score 5 and proceed with section.			
Where does runoff terminate?	19	Other	Bench Setting	Drainage/Wetland	1.9
Has runoff caused visible erosion? (Yes/No)	22	Sheet	Rill	Gully	0.0
		If no, score as 0. If yes, calculate as appropriate.			
Surface Water Factors-Run-on (11)					
Structures adversely affecting run-on (Yes/No)	7*	If yes, score as 7. If no, score as 0.			0.0
Current operations adversely impacting (Yes/No)	4	If yes, score as 4. If no, score as 0.			0.0
Natural drainages onto site (Yes/No)	7*	If yes, score as 7. If no, score as 0.			7.0
**Select either structures or natural drainages.*					
MAX. POSSIBLE EROSION MATRIX SCORE:	**100**			**Total Score**	30.9

REVISED PART B

Report Printed 7/9/2003 11:10:48 AM.

Los Alamos National Laboratory
SURFACE WATER
SITE ASSESSMENT

Revised Part B. Please discard previous.

SITE INFORMATION

1a) PRS Number: 21-024(f) 1b) Structure Number: 1c) FMU Number: 80

2. Date/Time (M/D/Y H:M am/pm): 5/18/1999

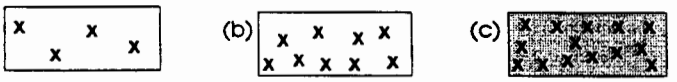
SITE SETTING (check all that apply)

3. ◉ On mesa top (a). ○ In the canyon floor, but not in an established channel (c)
   ◉ Within a bench of a canyon (b). ○ Within established channel in the canyon floor (d).

Explanation: Outfall pipe terminates at edge of bench into seepage pit on south side of DP Canyon, northwest of blue water storage tank - 150 yards.

4. Estimated ground and/or canopy cover at site: (deciduous leaves, pine needles, rocks, vegetation, trees,

(illustration) (a) (b) (c)

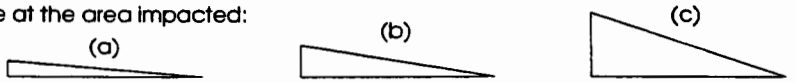


Estimated % of ground/canopy cov ○ 0% to 25% ◉ 25% to 75% ○ 75% to 100%

Explanation: Moderate cover of pine needles and rocks; no grass; some pine trees surrounding the area.

5. Steepest slope at the area impacted:

(a) (b) (c)



○ Less than 10% ◉ 10% to 30% ○ 30% and greater

Explanation: Gradual slope to canyon edge or rim.

RUNOFF FACTORS

Y / N

☑ ☐ **6. Is there visible evidence of runoff discharging from site? If yes, answer a) - c) below:**

☐ ☑ 6a) Is runoff channelized? If yes, describ ○ Man-made channel. ○ Natural channel.

Explanation: Mostly sheetflow with a drainage swale in the vicinity.

RUNOFF FACTORS, CONT'D

6b) Where does evidence of runoff terminate?

- ○ **Drainage or wetland (name)** DP Canyon
- ○ **Within bench of canyon setting (name)**
- ◉ **Other (i.e., retention pond, meadow, mesa top)** mesa top and seepage pit at end of pipe

Explanation: Sheet flow from area appears to rarely reach the mesa edge if ever.

Y / N

☐ ☑ 6c) Has runoff caused visible erosion at the site? If yes, explain below: ○ Sheet ○ Rill ○ Gully

Explanation: None observed.

RUN-ON FACTORS

Please rate the potential for storm water to run on to this site: (Check EITHER #7 or #9)

☐ ☑ **7.** Are structures (i.e., buildings, roof drains, parking lots, storm drains) creating run-on to the site?

Explanation: None

☐ ☑ **8.** Are current operations (i.e., fire hydrants, NPDES outfalls) adversely impacting run-on to the site?

Explanation: None

☑ ☐ **9.** Are natural drainage patterns directing stormwater onto site?

Explanation: Minimal upslope sheetflow.

ASSESSMENT FINDING:

☐ ☑ **10. Based on the above criteria and the assessment of this site, does soil erosion potential exist? (REFER TO EROSION POTENTIAL MATRIX.)**

Veenis, Steve

11. Signature of Water Quality/Hydrology Representative

SV Initials of independent reviewer.

Check here when information is entered in database: ☑

This page is for ESH-18 notes, recommendations, and photos.

	Y	N	
12. a)	○	◉	Is there visible trash/debris on the site?
b)	○	◉	Is there visible trash/debris in a watercourse?

Description of existing BMPs:

○	○	Are BMPs being properly maintained? If no, describe in "Other Internal Notes."
○	○	Are BMPs effectively keeping sediment in place and reducing erosion potential?

OTHER INTERNAL NOTES:

Site was re-evaluated to reflect the outfall, septic and drainline. The original assessment was completed on 09/30/1997 and had an erosion matrix score of (17.0).

Los Alamos National Laboratory

Environment, Safety & Health Division
ESH-18 Water Quality & Hydrology Group

Surface Water Assessment
Erosion Matrix for PRS C-21-015

CRITERIA EVALUATED	Value	Erosion/Sediment Transport Potential Low 0.1	Medium 0.5	High 1.0	Calculated Score
Site Setting (43)					
On mesa top	1	Defined based on topographic setting			1.0
Within bench of canyon	4				
Within the canyon floodplain but not watercourse	13				
Within bottom of canyon channel in watercourse	17				
Estimated % ground and canopy cover	13	>75%	25-75%	<25%	6.5
Slope	13	0-10%	10-30%	>30%	1.3
Surface Water Factors-Run-off (46)					
Visible evidence of runoff discharging? (Yes/No)	5	If no, score of 0 for runoff section.			5.0
		If yes, score 5 and proceed with section.			
Where does runoff terminate?	19	Other	Bench Setting	Drainage/Wetland	1.9
Has runoff caused visible erosion? (Yes/No)	22	Sheet	Rill	Gully	0.0
		If no, score as 0. If yes, calculate as appropriate.			
Surface Water Factors-Run-on (11)					
Structures adversely affecting run-on (Yes/No)	7*	If yes, score as 7. If no, score as 0.			0.0
Current operations adversely impacting (Yes/No)	4	If yes, score as 4. If no, score as 0.			0.0
Natural drainages onto site (Yes/No)	7*	If yes, score as 7. If no, score as 0.			7.0
**Select either structures or natural drainages.*					
MAX. POSSIBLE EROSION MATRIX SCORE:	**100**			**Total Score**	22.7

Report Printed 7/9/2003 11:11:07 AM.

Los Alamos National Laboratory
SURFACE WATER
SITE ASSESSMENT

SITE INFORMATION

1a) PRS Number: C-21-015 | 1b) Structure Number: | 1c) FMU Number: 80

2. Date/Time (M/D/Y H:M am/pm): 5/18/1999

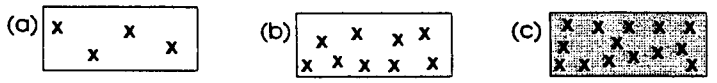
SITE SETTING (check all that apply)

3.
- (●) On mesa top (a).
- ( ) In the canyon floor, but not in an established channel (c)
- ( ) Within a bench of a canyon (b).
- ( ) Within established channel in the canyon floor (d).

Explanation: Generally north trending towards DP Canyon. Former sump location.

4. Estimated ground and/or canopy cover at site: (deciduous leaves, pine needles, rocks, vegetation, trees,

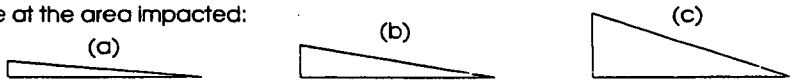
(illustration)



Estimated % of ground/canopy cov
- ( ) 0% to 25%
- (●) 25% to 75%
- ( ) 75% to 100%

Explanation: Mixed vegetation with some local bare spots.

5. Steepest slope at the area impacted:



- (●) Less than 10%
- ( ) 10% to 30%
- ( ) 30% and greater

Explanation: Mostly flat near sump location.

RUNOFF FACTORS

Y / N

- [x] [ ] 6. Is there visible evidence of runoff discharging from site? If yes, answer a) - c) below:
- [ ] [x] 6a) Is runoff channelized? If yes, describ ( ) Man-made channel. ( ) Natural channel.

Explanation: Minimal evidence of sheetflow run off from site.

RUNOFF FACTORS, CONT'D

6b) Where does evidence of runoff terminate?

- ○ **Drainage or wetland (name)** DP Canyon
- ○ **Within bench of canyon setting (name)**
- ◉ **Other (i.e., retention pond, meadow, mesa top)** Mesa top

Explanation: Infiltration mostly to mesa top.

Y / N

☐ ☑ 6c) Has runoff caused visible erosion at the site? If yes, explain below: ○ Sheet ○ Rill ○ Gully

Explanation: None observed

RUN-ON FACTORS

Please rate the potential for storm water to run on to this site: (Check EITHER #7 or #9)

☐ ☑ 7. Are structures (i.e., buildings, roof drains, parking lots, storm drains) creating run-on to the site?

Explanation:

☐ ☑ 8. Are current operations (i.e., fire hydrants, NPDES outfalls) adversely impacting run-on to the site?

Explanation:

☑ ☐ 9. Are natural drainage patterns directing stormwater onto site?

Explanation: Natural upslope sheetflow run-on.

ASSESSMENT FINDING:

☐ ☑ 10. **Based on the above criteria and the assessment of this site, does soil erosion potential exist? (REFER TO EROSION POTENTIAL MATRIX.)**

Veenis, Steve

11. Signature of Water Quality/Hydrology Representative

SV Initials of independent reviewer.

Check here when information is entered in database: ☑

This page is for ESH-18 notes, recommendations, and photos.

	Y	N	
12. a)	○	◉	Is there visible trash/debris on the site?
b)	○	◉	Is there visible trash/debris in a watercourse?

Description of existing BMPs:

○	○	Are BMPs being properly maintained? If no, describe in "Other Internal Notes."
○	○	Are BMPs effectively keeping sediment in place and reducing erosion potential?

OTHER INTERNAL NOTES:

Appendix D

Ecological Scoping Checklist

APPENDIX D ECOLOGICAL SCOPING CHECKLIST

PART A—SCOPING MEETING DOCUMENTATION

Site ID	PRS 21-024(f)
Form of Site Releases (solid, liquid, vapor) **Describe all relevant known or suspected mechanisms of release (spills, dumping, material disposal, outfall, explosive testing) and describe potential areas of release. Reference locations on a map, as appropriate.**	The release from this site is liquid waste from the septic tank. The release would have been into a pit from the pipe at the outfall. The pit may have overflowed in which case the release would have been into the drainage that flows into DP Canyon. A secondary release may have been to the subsurface by way of cracks or leaks in the septic tank and pipe. This would also have been liquid waste.
List of Primary Impacted Media **(Indicate all that apply.)**	Surface soil – Primary impacted media from discharge at outfall pit and potentially into canyon Surface water/sediment – Not applicable Subsurface – May be impacted if septic tank or piping leaked or from leaching of the discharge in the outfall pit. Groundwater – Not applicable Other, explain – Not applicable
FIMAD Vegetation Class Based on Arcview Vegetation Coverage **(Indicate all that apply.)**	Water – Not applicable Bare Ground/Unvegetated – There are some areas of bare ground between vegetated areas. These areas are often covered with pine needles and other plant litter. Spruce/fir/aspen/mixed conifer – Not applicable Ponderosa pine – Primary vegetation community, also ground cover of grasses and shrubs Piñon juniper/juniper savannah – Not applicable Grassland/shrubland – Not applicable Developed – Not applicable
Is T&E habitat present? **If applicable, list species known or suspected to use the site for breeding or foraging.**	The site is on the border of the core habitat for the Mexican spotted owl. This site is within an area where the owl may be assumed to forage with a moderate to low frequency. This site is within an area where the potential for foraging for the peregrine falcon is moderate to low.
Provide List of Neighboring/ Contiguous/ Up-Gradient Sites **Includes 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.)**	PRS C-21-015 is the only site in the vicinity of PRS 21-024(f). This PRS is a sump from Building TA-21-45 that pumped waste from the building to the laundry facility across DP Road to the southwest. It is located approximately 100 ft southwest of the septic tank and 400 ft from the outfall. It is not anticipated that this PRS would influence the septic tank and outfall.
Surface Water Erosion Potential Information **Summarize information from SOP 2.01, including the runoff subscore (maximum of 46); terminal point of surface water transport; slope; and surface water run-on sources.**	The overall score is 30.9 with a runoff score of 6.9 (because of visible runoff from the area) and a run-on score of 7.0 (because of natural drainage onto site). The terminal point of surface water transport is DP Canyon. The slope is approximately 25-75%, with the steeper slope near the outlet pipe.

PART B—SITE VISIT DOCUMENTATION

Site ID	PRS 21-024(f)
Date of Site Visit	5/10/99
Site Visit Conducted by	Richard Mirenda, Linda Causey, Gordon McWilliams, Gary McMath, Jayne Jones

Receptor Information:

Estimate Cover	Relative vegetative cover (high, medium, low, none) = medium Relative wetland cover (high, medium, low, none) = none Relative structures/asphalt, etc. cover (high, medium, low, none) = none
Field Notes on the FIMAD Vegetation Class to Assist in Ground-Truthing the Arcview Information	The area is a combination of open areas and ponderosa pine. In some places the tuff is on the surface, in others it is several inches below the surface. Ground cover consists of grasses, shrubs, and young trees. As one goes from DP Road to the mesa top edge of DP Canyon, the vegetation increases and older ponderosa pine predominates. The ground is also covered with pine needles and litter from other plants.
Field Notes on T&E Habitat (if applicable) **Consider the need for a site visit by a T&E subject matter expert to support the use of the site by T&E receptors.**	Site provides minimal habitat for foraging and no habitat for nesting for T&E species.
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.**	Yes. Terrestrial receptors are present in and around the PRS. Various songbirds were observed in the trees, and it is assumed that some small mammals are present. No evidence of burrowing was observed in this area, probably because of the shallow depth of the surface soil. Plant life is abundant and healthy. No aquatic receptors are present in the area or in the canyon below the PRS.

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)**	There is no evidence of erosion into the canyon. Any runoff probably occurs by way of sheet flow. There are several distinct drainage areas that flow into DP Canyon. The terminal point of surface water transport is the intermittent stream channel in the bottom of DP Canyon.
Are there any off-site transport pathways (surface water, air, or groundwater)? **(yes/no/uncertain)** **Provide explanation**	No other off-site transport pathways are present. The release of materials to the subsurface either from the septic tank or from the pit would not result in the migration of material to the groundwater.
Interim action needed to limit off-site transport? **(yes/no/uncertain)** **Provide explanation/ recommendation to project lead for IA SMDP.**	No. Current data do not support the implementation of an interim action at this PRS.

Ecological Effects Information:

Physical Disturbance **(Provide list of major types of disturbances, including erosion and construction activities, review historical aerial photos where appropriate.)**	The only physical disturbance is the pipe and outfall pit from the septic tank. There are no other visible disturbances in the area.
Are there obvious ecological effects? **(yes/no/uncertain)** **Provide explanation and apparent cause (e.g., contamination, physical disturbance, other).**	No. The area around the septic tank, pipe, and outfall pit appear to be no different from the surrounding area.
Interim action needed to limit apparent ecological effects? **(yes/no/uncertain)** **Provide explanation and recommendations to mitigate apparent exposure pathways to project lead for IA SMDP.**	No. Current data do not support the implementation of an interim action at this PRS.

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 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, rate, and extent of contamination? **(yes/no/uncertain)** **Provide explanation** **(Consider if the maximum value was captured by existing sample data.)**	The existing data do not provide adequate information on the nature, rate, and extent of contamination. The additional sampling proposed for this VCA around the septic tank, into the pit, and down the drainage is designed to define these aspects of the site.
Do existing or proposed data for the site address potential transport pathways of site contamination? **(yes/no/uncertain)** **Provide explanation** **(Consider if other sites should aggregated to characterize potential ecological risk.)**	Yes. The sampling proposed in the VCA will address the major potential transport pathway, i.e., surface water runoff down the drainage and into DP Canyon.

Additional Field Notes:

Provide additional field notes on the site setting and potential ecological receptors. None

PART C—ECOLOGICAL PATHWAYS CONCEPTUAL EXPOSURE MODEL

Question A

Could soil contaminants reach receptors by way of vapors?

- **Volatility of the hazardous substance (volatile chemicals generally have Henry's Law constant >10^{-5} atm-me/mol and molecular weight <200 g/mol).**

Answer (likely/unlikely/uncertain): Unlikely

Provide explanation: No volatile organics were detected in the samples previously collected. Additional samples will be collected to confirm these results.

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: The contamination around the septic tank would be subsurface. The area at the outfall pit and drainage would be surface in nature. The ground is covered with pine needles and litter from the overstory so fugitive dust would be a minor pathway. There is no evidence of burrowing animals probably because the depth of the soil is only a few inches before tuff is encountered.

Question C

Can contaminated soil be transported to aquatic ecological communities (use SOP 2.01 runoff score and terminal point of surface water runoff to help answer this question)?

- **If the SOP 2.01 runoff score* for each PRS 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 if aquatic receptors could be affected by contamination from this site.**

Answer (likely/unlikely/uncertain): Unlikely

Provide explanation: The major off-site transport pathway is surface water runoff into DP Canyon. However, there are no aquatic ecosystems in this portion of the canyon that would receive this runoff.

Question D

Is contaminated groundwater potentially available to biological receptors through seeps or springs or shallow groundwater?

- **Known or suspected presence of contaminants in groundwater.**
- **The potential for contaminants to migrate by way of 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 (~1 m depth).**
- **Terrestrial wildlife receptors generally will not contact groundwater unless it is discharged to the surface.**

Answer (likely/unlikely/uncertain): Unlikely

Provide explanation: There is no hydraulic driver for the surface or potential subsurface contamination to reach alluvial, perched, or the main aquifer. Terrestrial plants are not near the groundwater and there are no aquatic plants in the vicinity.

Question E

Is infiltration/percolation from contaminated subsurface material a viable transport and exposure pathway?

- **Suspected ability of contaminants to migrate to groundwater.**
- **The potential for contaminants to migrate by way of 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 (~1 m depth).**
- **Terrestrial wildlife receptors generally will not contact groundwater unless it is discharged to the surface.**

Answer (likely/unlikely/uncertain): Unlikely

Provide explanation: There is no hydraulic driver for the surface or potential subsurface contamination to reach alluvial, perched, or the main aquifer. Terrestrial plants are not near the groundwater and there are no aquatic plants in the vicinity.

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: The slope into the canyon is stable and well vegetated. There is also no evidence of erosion in this area.

Question G

Could airborne contaminants interact with receptors through respiration of vapors?

- **Contaminants must be present as volatiles in the air.**
- **Consider the importance of inhalation of vapors for burrowing animals.**
- **Foliar uptake of organic 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: 0

Terrestrial Animals: 0

Provide explanation: No volatile organics are expected to be present.

Question H

Could airborne contaminants interact with plants through deposition of particulates or with animals through inhalation of fugitive dust?

- **Contaminants must be present as particulates in the air or as dust for this exposure pathway to be complete.**
- **Exposure by way of 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: 2

Terrestrial Animals: 2

Provide explanation: Although the contamination is expected to be primarily surficial in nature, the ground is well covered with pine needles and litter from the established vegetation. In addition, there is no evidence of burrowing animals probably because of the shallow soil covering of only a few inches.

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 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: 2

Provide explanation: This is a complete pathway, but because of the shallow nature of the soils and the ground cover, it is not a major pathway.

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: There were bioaccumulators detected at this site.

Question K

Could contaminants interact with receptors by way of 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 while grooming 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: This could be a major pathway because of the surficial nature of the contamination in the drainage area.

Question L

Could contaminants interact with receptors through dermal contact with surficial soils?

- **Significant exposure by way of 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: 1

Provide explanation: Suspected COPCs are not lipophilic.

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: 0

Terrestrial Animals: 0

Provide explanation: Mainly alpha-emitting radionuclides are suspected of being present in the soils. These types of radionuclides are not taken up through the skin.

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 are no surface water systems present on site or in the canyon below the PRS.

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: Although there may be some bioaccumulators present at this site, there are no surface water systems present on site or in the canyon below the PRS.

Question P

Could contaminants interact with receptors by way of 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 are no surface water systems present on site or in the canyon below the PRS.

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 are no surface water systems present on site or in the canyon below the PRS. Contaminants are not lipophilic.

Question R

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: 0

Terrestrial Animals: 0

Provide explanation: Only alpha-emitting radionuclides are suspected of being present in the soils. These types of radionuclides are not taken up through the skin.

Question S

Could contaminants bioconcentrate in free floating aquatic, 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 are no aquatic communities present on site or in the canyon below the PRS.

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 are no aquatic communities present on site or in the canyon below the PRS.

Question U

Could contaminants bioaccumulate in sedimentary or water column organisms?

- **Lipophillic 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 are no aquatic communities present on site or in the canyon below the PRS.

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, thus 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):

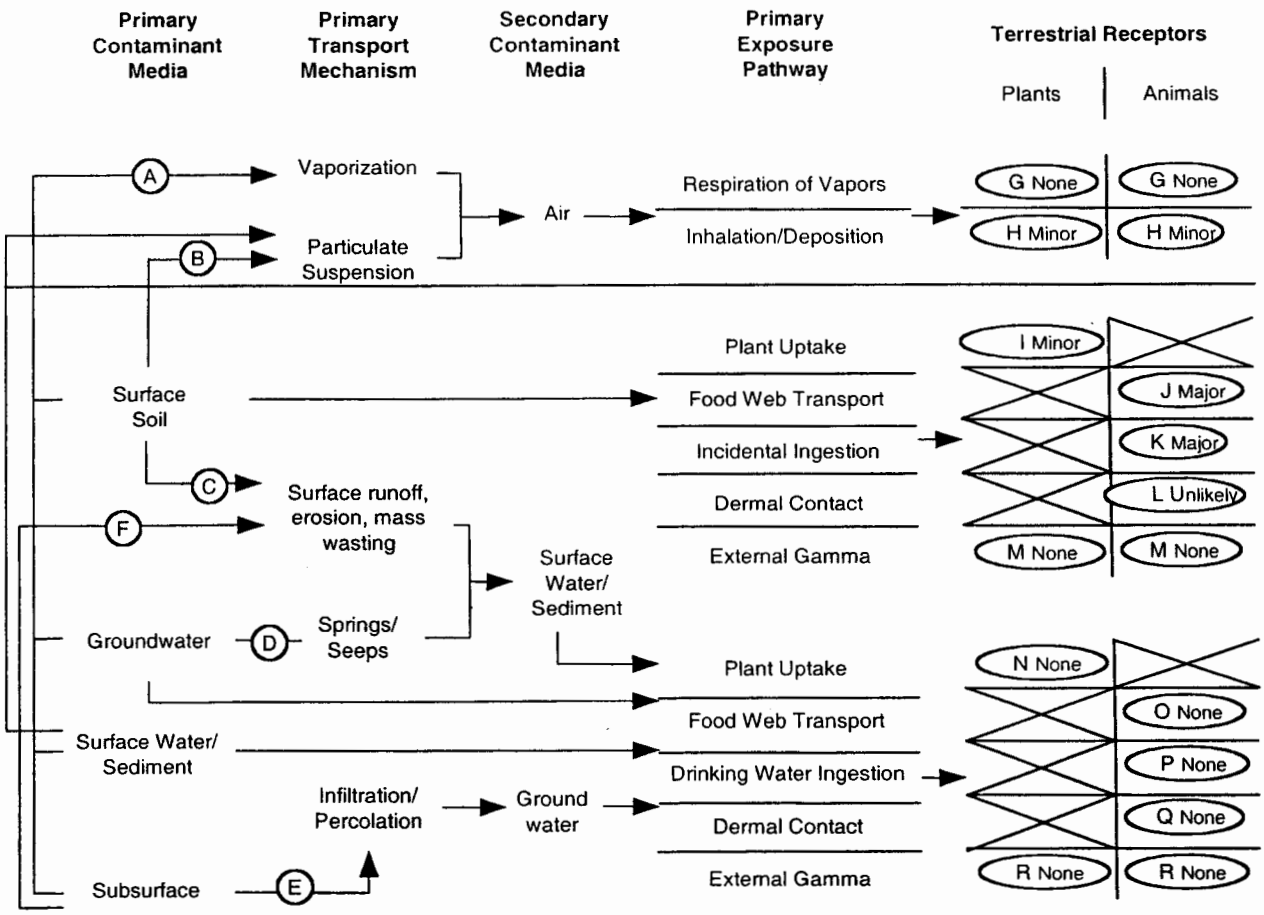
Aquatic Plants: 0

Aquatic Animals: 0

Provide explanation: There are no aquatic communities present on site or in the canyon below the PRS. In addition, only alpha-emitting radionuclides are suspected of being present in the soils. These types of radionuclides are not taken up through the skin.

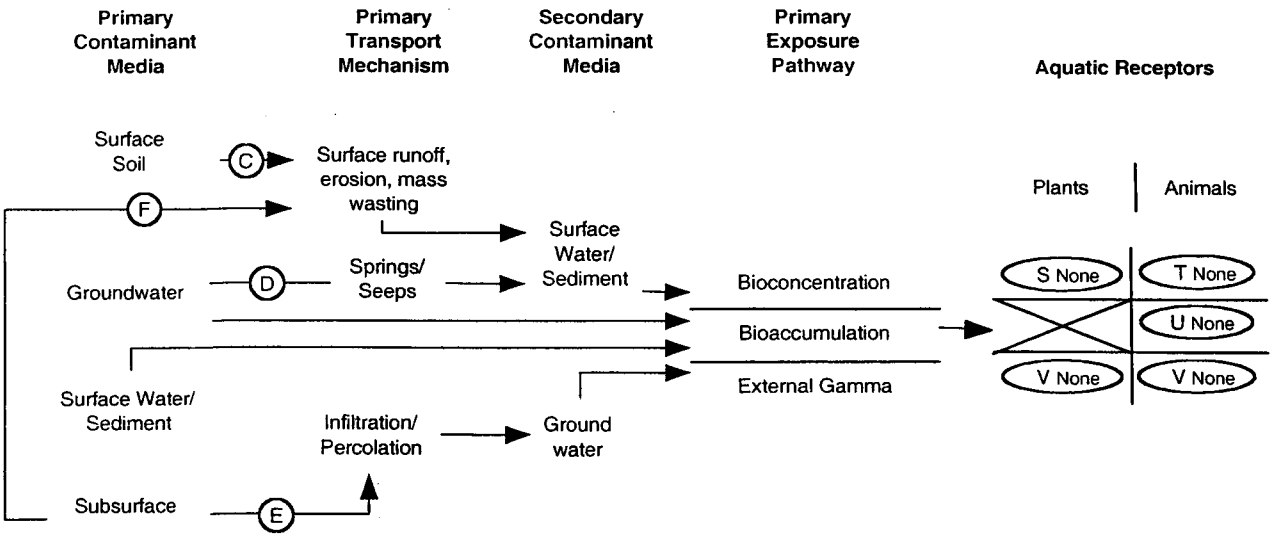
Ecological Scoping Checklist
Terrestrial Receptors
Ecological Pathways Conceptual Exposure Model

NOTE:
Letters in circles refer to questions on the Scoping Checklist



Ecological Scoping Checklist
Aquatic Receptors
Ecological Pathways Conceptual Exposure Model

NOTE:
Letters in circles refer to questions on the Scoping Checklist



PART A—SCOPING MEETING DOCUMENTATION

Site ID	PRS C-21-015
Form of Site Releases (solid, liquid, vapor). **Describe all relevant known or suspected mechanisms of release (spills, dumping, material disposal, outfall, explosive testing, etc.) and describe potential areas of release. Reference locations on a map as appropriate.**	The potential release from this PRS would be liquid waste that was pumped from the sump to the laundry facility across DP Road to the southwest of the site. The potential mechanisms of release would include spillage or leaks from the sump as well as leaks from the outlet line to the laundry facility.
List of Primary Impacted Media **(Indicate all that apply.)**	Surface soil – Potentially impacted but not primary media of concern Surface water/sediment – Not applicable Subsurface – Impacted from leaks from sump and associated outlet line Groundwater – Not applicable Other, explain – Not applicable
FIMAD Vegetation Class Based on Arcview Vegetation Coverage **(Indicate all that apply.)**	Water – Not applicable Bare Ground/Unvegetated – Much of the area is bare ground with tuff being near or at the surface. Spruce/fir/aspen/mixed conifer – Not applicable Ponderosa pine – The surrounding area is primarily ponderosa pine with a mixture of grass and small shrubs interspersed throughout. Piñon juniper/juniper savannah – Not applicable Grassland/shrubland – Not applicable Developed – Not applicable
Is T&E Habitat Present? **If applicable, list species known or suspected to use the site for breeding or foraging.**	The site is on the border of the core habitat for the Mexican spotted owl. This site is within an area where the owl may be assumed to forage with a moderate to low frequency. This site is within an area where the potential for foraging for the peregrine falcon is moderate to low.
Provide List, of Neighboring/ Contiguous/ Up-Gradient Sites **Includes 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.)**	PRS 21-024(f) is the only site in the vicinity of PRS C-21-015. This PRS is a septic tank from Building TA-21-45 that received waste from the building and discharged it at an outfall approximately 400 ft from the sump. The septic tank is located approximately 100 ft southeast of the sump, and it is not anticipated that this PRS would be influenced by the septic tank and outfall.
Surface Water Erosion Potential Information **Summarize information from SOP 2.01, including the runoff subscore (maximum of 46); terminal point of surface water transport; slope; and surface water run-on sources.**	Overall score is 22.7 with a runoff score of 6.9 (because of visible runoff from the area) and a run-on score of 7.0 (because of natural drainage onto site). The terminal point of surface water transport is the mesa top. The slope is approximately 25-75% but is not near the mesa edge.
Other Scoping Meeting Notes	

PART B—SITE VISIT DOCUMENTATION

Site ID	PRS C-21-015
Date of Site Visit	5/10/99
Site Visit Conducted by	Richard Mirenda, Linda Causey, Gordon McWilliams, Gary McMath, Jayne Jones

Receptor Information:

Estimate Cover	Relative vegetative cover (high, medium, low, none) = Low. Area is largely bare ground with some ponderosa pine trees nearby as well as small shrubs and patches of grass. Relative wetland cover (high, medium, low, none) = None Relative structures/asphalt, etc. cover (high, medium, low, none) = None
Field Notes on the FIMAD Vegetation Class to Assist in Ground-Truthing the Arcview Information	The area is a combination of open areas and ponderosa pine. In some places, the tuff is on the surface; in others, it is several inches below the surface. Mostly bare ground but ground cover consists of grasses, shrubs, and young trees.
Field Notes on T&E Habitat (if applicable) **Consider the need for a site visit by a T&E subject matter expert to support the use of the site by T&E receptors.**	Site provides minimal habitat for foraging and no habitat for nesting for T&E species.
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.**	Yes. Terrestrial receptors are present in and around the PRS. Various songbirds were observed in the trees, and it is assumed that some small mammals are present. No evidence of burrowing was observed in this area, probably because of the shallow surface soil or lack of surface soil in many areas. Plant life is present but sparse. No aquatic receptors are present in the area.

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).**	The area is relatively flat, and there is no evidence of erosion. Any runoff probably occurs by way of sheet flow. The nearest drainage area is DP Canyon approximately 400 ft to the north. The terminal point of surface water transport is the intermittent stream channel in the bottom of DP Canyon.
Are there any off-site transport pathways (surface water, air, or groundwater)? **(yes/no/uncertain)** **Provide explanation**	No other off-site transport pathways are present. The release of materials to the subsurface either from the sump or the outlet line would not result in the migration of material to the groundwater.
Interim action needed to limit off-site transport? **(yes/no/uncertain)** **Provide explanation/ recommendation to project lead for IA SMDP.**	No. Information is not available to determine if a release has occurred.

Ecological Effects Information:

Physical Disturbance **(Provide list of major types of disturbances, including erosion and construction activities; review historical aerial photos where appropriate.)**	There are no visible disturbances in the area except for the concrete outline of the former sump.
Are there obvious ecological effects? **(yes/no/uncertain)** **Provide explanation and apparent cause (e.g., contamination, physical disturbance, other).**	No. The area around the sump appears to be no different from the surrounding area.
Interim action needed to limit apparent ecological effects? **(yes/no/uncertain)** **Provide explanation and recommendations to mitigate apparent exposure pathways to project lead for IA SMDP.**	There are no visible disturbances in the area except for the concrete outline of the former sump.

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 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, rate and extent of contamination? **(yes/no/uncertain)** **Provide explanation** **(Consider if the maximum value was captured by existing sample data.)**	There are no data to provide information on the nature, rate, and extent of contamination. The sampling proposed by this VCA around the sump and under the outlet line is designed to define these aspects of the site.
Do existing or proposed data for the site address potential transport pathways of site contamination? **(yes/no/uncertain)** **Provide explanation** **(Consider if other sites should aggregated to characterize potential ecological risk.)**	Yes. The sampling proposed in the VCA will address the major potential transport pathway, i.e., surface water runoff.

Additional Field Notes:

Provide additional field notes on the site setting and potential ecological receptors. None

PART C—ECOLOGICAL PATHWAYS CONCEPTUAL EXPOSURE MODEL

Question A

Could soil contaminants reach receptors by way of vapors?

- **Volatility of the hazardous substance (volatile chemicals generally have Henry's Law constant >10^{-5} atm-me/mol and molecular weight <200 g/mol).**

Answer (likely/unlikely/uncertain): Unlikely

Provide explanation: Suspected contaminants are not volatile organics.

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): Unlikely

Provide explanation: Any potential releases and contamination at this site is to the subsurface. No evidence of burrowing animals was observed probably because of the shallow nature of the soils in this area.

Question C

Can contaminated soil be transported to aquatic ecological communities (use SOP 2.01 runoff score and terminal point of surface water runoff to help answer this question)?

- **If the SOP 2.01 runoff score* for each PRS 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 if aquatic receptors could be affected by contamination from this site.**

Answer (likely/unlikely/uncertain): Unlikely

Provide explanation: There is no evidence of erosion from the site. The area is relatively flat and probably would not reach DP canyon before being absorbed into the soil.

Question D

Is contaminated groundwater potentially available to biological receptors through seeps or springs or shallow groundwater?

- **Known or suspected presence of contaminants in groundwater.**
- **The potential for contaminants to migrate by way of 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 (~1 m depth).**
- **Terrestrial wildlife receptors generally will not contact groundwater unless it is discharged to the surface.**

Answer (likely/unlikely/uncertain): Unlikely

Provide explanation: There is no hydraulic driver for the surface or potential subsurface contamination to reach alluvial, perched, or the main aquifer. Terrestrial plants are not near the groundwater, and there are no aquatic plants in the vicinity.

Question E

Is infiltration/percolation from contaminated subsurface material a viable transport and exposure pathway?

- **Suspected ability of contaminants to migrate to groundwater.**
- **The potential for contaminants to migrate by way of 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 (~1 m depth).**
- **Terrestrial wildlife receptors generally will not contact groundwater unless it is discharged to the surface.**

Answer (likely/unlikely/uncertain): Unlikely

Provide explanation: There is no hydraulic driver for the surface or potential subsurface contamination to reach alluvial, perched, or the main aquifer. Terrestrial plants are not near the groundwater, and there are no aquatic plants in the vicinity.

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: Releases are not on or near the mesa edge, and no erosion is evident.

Question G

Could airborne contaminants interact with receptors through respiration of vapors?

- **Contaminants must be present as volatiles in the air.**
- **Consider the importance of inhalation of vapors for burrowing animals.**
- **Foliar uptake of organic 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: 0

Terrestrial Animals: 0

Provide explanation: No volatile organics expected to be present.

Question H

Could airborne contaminants interact with plants through deposition of particulates or with animals through inhalation of fugitive dust?

- **Contaminants must be present as particulates in the air or as dust for this exposure pathway to be complete.**
- **Exposure via 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: 1

Terrestrial Animals: 1

Provide explanation: Sump and line are mainly subsurface, so exposure by way of dust/particulates is unlikely. No evidence of burrowing animals observed in the area probably because of the shallow depth of the soils.

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 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: 2

Provide explanation: Vegetation is sparse in this area. Most or all of the contamination is expected to be subsurface.

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: 1

Provide explanation: Most or all of the contamination is expected to be subsurface. No evidence of burrowing animals in the area.

Question K

Could contaminants interact with receptors by way of 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 while grooming themselves clean of soil.**

Provide quantification of exposure pathway (0 = no pathway, 1 = unlikely pathway, 2 = minor pathway, 3 = major pathway)

Terrestrial Animals: 2

Provide explanation: Most or all of the contamination is expected to be subsurface. No evidence of burrowing animals in the area. Vegetation is sparse in this area.

Question L

Could contaminants interact with receptors through dermal contact with surficial soils?

- **Significant exposure by way of 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: 1

Provide explanation: Potential contaminants are not expected to be lipophilic.

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: 1

Terrestrial Animals: 1

Provide explanation: Potential contaminants are expected to be alpha-emitters. These radionuclides are not taken up through the skin. Gamma-emitting radionuclides may be present at low levels.

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 are no surface water systems present on or near the site.

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 are no surface water systems present on or near the site.

Question P

Could contaminants interact with receptors by way of 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 are no surface water systems present on or near the site.

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 are no surface water systems present on or near the site.

Question R

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: 0

Terrestrial Animals: 0

Provide explanation: There are no surface water systems present on or near the site.

Question S

Could contaminants bioconcentrate in free floating aquatic, 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 are no aquatic communities present on or near the site.

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 are no aquatic communities present on or near the site

Question U

Could contaminants bioaccumulate in sedimentary or water column organisms?

- **Lipophillic 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 are no aquatic communities present on or near the site

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, thus 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)

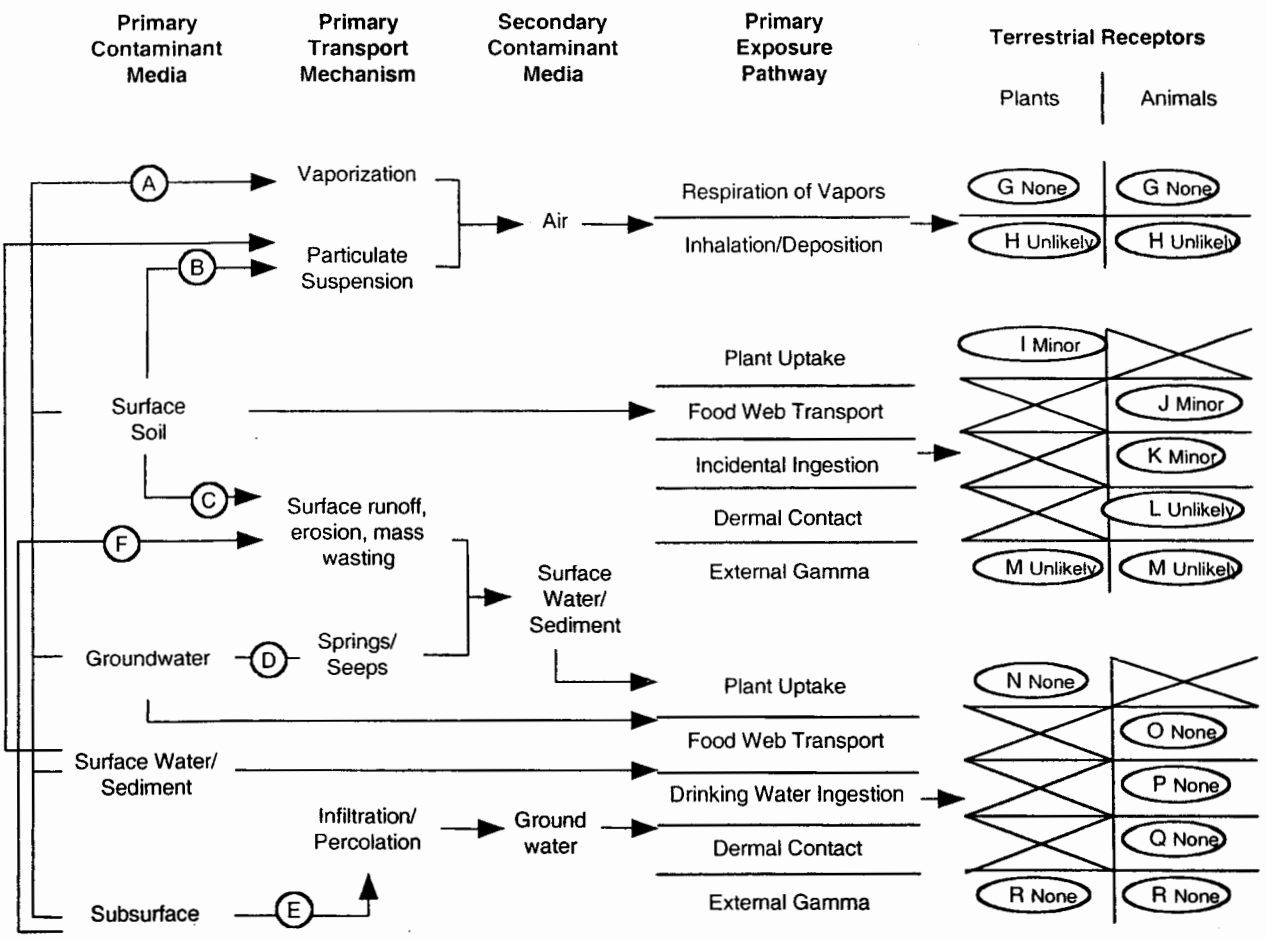
Aquatic Plants: 0

Aquatic Animals: 0

Provide explanation: There are no aquatic communities present on or near the site

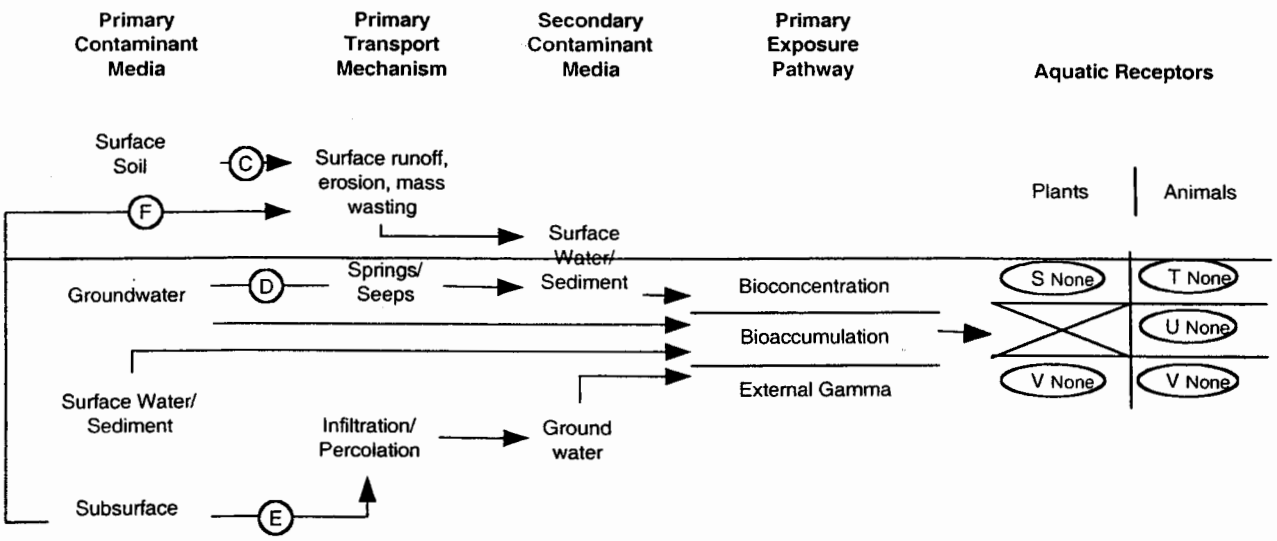
Ecological Scoping Checklist
Terrestrial Receptors
Ecological Pathways Conceptual Exposure Model

NOTE:
Letters in circles refer to questions on the Scoping Checklist



Ecological Scoping Checklist
Aquatic Receptors
Ecological Pathways Conceptual Exposure Model

NOTE:
Letters in circles refer to questions on the Scoping Checklist



Appendix E

Estimated Costs

APPENDIX E ESTIMATED COSTS

Activity	Septic Tanks Discharge Area	Inlet and Outlet Pipes	Septic Tank	Concrete Sump	Subtotals
Prefield activities	$13,227.00	$13,227.00	$13,227.00	$13,227.00	$52,908.00
Field activities	25,681.00	25,681.00	25,681.00	25,681.00	102,724.00
Waste management and disposal	5,408.75	5,408.75	5,408.75	5,408.75	21,635.00
Sampling and analyses	5,429.50	5,429.50	5,429.50	5,429.50	21,718.00
Postfield activities	14,168.00	14,168.00	14,168.00	14,168.00	56,672.00
Total	**$63,914.25**	**$63,914.25**	**$63,914.25**	**$63,914.25**	**$255,657.00**

Appendix I

Photographs

Photograph 1. View south from approximately 60 ft south of outlet where VCP will be removed

Photograph 2. View north of outfall pit

Photograph 3. View east—Joint #4 from north end, close up of joint

Photograph 4. Approximately 20 ft south of outlet end, detail of exposed joint in VCP

Photograph 5. View east—I1 connection to tank

Photograph 6. View from east of connection to tank—Joint #78

Photograph 7. View east—connection between I3 and I4

Photograph 8. View east—last joint I36 disconnect point from building

Photograph 9. View of excavation around tank

Photograph 10. View of exposed tank in its original location

Photograph 11. View of tank removal

Photograph 12. View under tank in its original location

Photograph 13. View of tank removed from its original location

Photograph 14. View of removed tank placed at temporary site

Photograph 15. View of tank

Photograph 16. View of rust and holes on tank

Photograph 17. Restoration view south from former pit location

Photograph 18. Restoration view south from former tank location

Appendix J

Correspondence

#55013

Environmental Restoration
University of California
Environmental Restoration Project, MS M992
Los Alamos, New Mexico 87545
505-667-0808/FAX 505-665-4747

U. S. Department of Energy
Los Alamos Area Office, MS A316
Environmental Restoration Program
Los Alamos, New Mexico 87544
505-667-7203/FAX 505-665-4504

√ PRS DB

Date: August 14, 1996
Refer to: EM/ER:96-440

Mr. Benito Garcia
NMED-HRMB
P.O. Box 26110
Santa Fe, NM 87502

SUBJECT: NOTIFICATION OF A SWMU

Dear Mr. Garcia:

The Los Alamos National Laboratory has identified a new solid waste management unit (SWMU). The unit is a Former Sump Pit located at Technical Area (TA) 21. The SWMU was identified as a result of the discovery of additional archival information which identified this previously unknown sump. The unit has been given the unique SWMU number 21-030.

The unit was located within Building TA-21-45, which was removed by a contractor in 1954. The sump, constructed of concrete, was installed in early 1950 and operated through late 1953. It is approximately 3.5 by 4.0 and 2.8 feet deep. The unit is thought to have received waste water generated from waste stream recovery studies which were conducted in the building. The specific constituents present in the waste water are unknown but most likely included various metals and radiological constituents. Waste waster from the unit discharged to the leach pits which comprise Material Disposal Area V (SWMU 21-018).

It is currently unknown if the piping associated with the unit remains in place. If so, it will be investigated as part of this unit. This unit will be added to the 1997 baseline. NOT DONE

If you have any questions regarding this unit or which to obtain additional information, please contact David McInroy at 667-0819.

Sincerely,

Jorg Jansen, Program Manager
LANL ER Project

Sincerely,

Theodore J. Taylor, Program Manager
DOE/LAAO

JJ/TT/bp

21-030

Los Alamos National Laboratory
Environmental Restoration Site Report

Part I. Potential ER Site (Completed by OUPL) Date concern reported 7/1/96

Technical Area where potential release site located TA-21

Engineering structure number* Bldg. 45 Location of nearest structure

Description of structures and area (e.g., size of drums, surface area, depth) Sump is approx. 3' x 3' x 3'. Bldg. 45 removed by Conwell Electric in 1954, believed to be free of radioactive contamination. Sump and pipes used to transport waste to laundry absorption beds are believed to still be in place.

Other supporting information [e.g., indicate historical records referenced, including photographs, personnel to contact]. Identify where information exists. Site visit confirms sump is still in place. Bill Frances (Deputy Manager of TA Div. Zia Co. 1979-1983) confirms mod to Bldg. 45, addition of sump and pipes 2/13/1950. Bill confirms the sump was never removed and the pipes were probably never removed either. He also believes the Bldg was free from radioactive contamination or it would not have been sold to Conwell Electric.

Was the unit or area described above active prior to November 1988? Yes _x__ No ___ Uncertain ___

If yes, state period of operation: from 2/13/1950 to 7/1954

Does the site intersect on private property? Yes ____ No __x__ Uncertain____ Describe_____

1. What type of unit or area is the potential release site? (Circle one or more from list on back of this page.)

2. Are solid wastes known to exist at site? Yes _x___ No____ Unknown____

If yes, waste types: (circle one or more)

hazardous	high explosive	mixed	PCBs	petroleum product _____
radioactive	sanitary	solid	unknown	

3. Was there a routine or systematic release? Yes __x_ No ___ Unknown ___ One time? Yes___ No_x__

4. Is the unit or area used for product storage? Yes ___ No __x_ If yes, name the product(s):

_____ _____

Based on all information provided on this form, the ER potential release site is a:

SWMU ____x_____ Other Area of Concern _____

_____ _____

OUPL Signature Date

Forward to SWMU review coordinator to determine if site previously reported.

*Contact LANL Group, ENG-5, for Engineering structure number

Los Alamos National Laboratory
Environmental Restoration Site Report

Part II. (Completed by SWMU review coordinator)
Was the potential release site previously reported (i.e., listed in SWMU Report or PRS data base)?
Yes _____ No _____ Uncertain____ If yes: SWMU No. _____ ER Site No. _____

No action required** _____

_____ _____
Signature Date
Forward to compliance regulator for comfirmation.

Part III. Independent Verification (Completed by regulatory compliance team leader)

Date site visited_____

Visited by (print names) _____ _____

_____ _____

___ Site monitored? Yes ____ No____ If yes, attach signed screening documentation.

___ Non-concurrence, no further action required (state reason)_____

___ Confirmed discovery _____SWMU _____AOC

___ Confirmed with modifications to Part I _____

___ Action required (e.g., contact public relations) State reason for action _____

_____ 8/1/96
Signature Date
Forward to SWMU review coordinator

Part IV. Unique Identifier (completed by SWMU review coordinator)***

SWMU number assigned _____ OU number assigned _____

OU Work Plan start date (refer to ER Installation Work Plan for date) _____

**Send report to originator and ER Records Processing Facility (RPF).
SWMU review coordinator forwards to PM, compliance regulator, ER RPF, and OUPL.* (This completed form may be used as an attachment to DOE/EPA Notification letter.)

****OUPL ensures data entered into PRS data base - contact FIMAD for guidance/access.

Los Alamos National Laboratory
Environmental Restoration Site Report

aboveground tank	accumulation	bermed area	boneyard
burn site	calibration chamber	caisson	cement plant
chamber	containment area	compressed gas storage	decontamination facility
drop tower	dry well	evaporator	filter system
firing site	glass breaker	incinerator	injection well
lagoon	landfill	laundry	leach field
manhole	material disposal area	mortar impact area	off-gas system
open burning	open detonation area	other disposal area _____	
other disposal system_____		other structure _____	
outfall	pit	recycling unit	resin bed
satellite storage area	septic system	shaft	silver recovery unit
subsurface contamination	storage area _____	**sump**	surface disposal
surface impoundment	treatment facility	underground tank	
volume reduction facility	waste line system	waste water treatment facility	

8.0 ATTACHMENTS

Attachment A, Definition of Solid Waste
Attachment B, Environmental Restoration Site Report
Attachment C, Example of Mapped SWMU

#64849

Environmental Restoration
University of California
Environmental Science and Waste Technology (E)
Environmental Restoration, MS M992
Los Alamos, New Mexico 87545
505-667-0808/FAX 505-665-4747

U.S. Department of Energy
Los Alamos Area Office, MS A316
Environmental Restoration Program
Los Alamos, New Mexico 87544
505-667-7203/FAX 505-665-4504

Date: September 2, 1999
Refer to: E/ER:99-222

Mr. John Kieling
NMED-HRMB
P.O. Box 26110
Santa Fe, NM 87502

SUBJECT: NOTICE OF PROJECT SHUT DOWN FOR VOLUNTARY CORRECTIVE ACTION AT TECHNICAL AREA 21, POTENTIAL RELEASE SITE 21-024(f) AND AREA OF CONCERN C-21-015

Dear Mr. Kieling:

The Los Alamos National Laboratory (LANL) Environmental Restoration (ER) Project is notifying the New Mexico Environment Department Hazardous and Radioactive Materials Bureau (NMED-HRMB) that the Voluntary Corrective Action (VCA) and corresponding sampling scheduled for the week of August 23, 1999 at Potential Release Site (PRS 21-024(f) and Area of Concern (AOC) C-21-015 has been shut down. The ER Project submitted a 10-day notification letter to NMED-HRMB (E/ER:99-201) regarding the collection of samples from beneath the former sump, septic tank, and outfall area. However, based upon a recent review of the ER Project's baseline prioritization criteria, these sites are not considered mandatory, and as such all activities have been suspended. At this time, there are no VCA activities planned for either site during Fiscal Year 2000 (FY00) or FY01. LANL will notify NMED-HRMB when VCA activities are scheduled to re-start.

If you have any questions or concerns please call Deba Daymon at (505) 667-9021 or me at (505) 667-0819.

Sincerely,

T. Grieggs for

Dave McInroy
Environmental Restoration Project

#71213

Los Alamos National Laboratory

UNIVERSITY OF CALIFORNIA

Environmental Restoration

Environmental Science and Waste Technology (E)
Environmental Restoration, MS M992
Los Alamos, New Mexico 87545
505-667-0808/FAX 505-665-4747

Date: July 17, 2001
Refer to: ER2001-0588

Mr. John Young, Corrective Action Project Leader
Permits Management Program
NMED – Hazardous Waste Bureau
2905 Rodeo Park Drive East
Building 1
Santa Fe, NM 87505-6303

SUBJECT: SAMPLING NOTIFICATION

Dear Mr. Young:

The Los Alamos National Laboratory (LANL) Environmental Restoration (ER) Project is planning to conduct confirmation sampling associated with the preliminary Voluntary Corrective Action (VCA) field activities at Potential Release Sites (PRSs) 21-024(f) and C-21-015 during the week of July 30, 2001. Preliminary VCA activities will begin the week of July 23, 2001 and continue through approximately August 24, 2001, and will include removal of the concrete sump and remaining inlet and outlet lines at PRS C-21-015 and removal of the septic tank and remaining inlet and outlet lines at PRS 21-024(f). Confirmation samples will be collected from beneath the septic tank, sump and all associated inlet and outlet lines to those structures. In addition, samples will be collected beneath the outfall pit from the septic tank at PRS 21-024(f) and down the canyon side slope directly north of the outfall.

The ER Project will verbally confirm and/or notify New Mexico Environment Department Hazardous Waste Bureau (NMED-HWB) staff of any changes to the schedule. Subsequent to the excavation of each PRS location, confirmation samples will be collected as shown in the table below.

If you have any questions or concerns please feel free to give me a call at (505) 667-0819 or John Hopkins at (505) 667-9551.

Sincerely,

David McInroy
Environmental Restoration Project

DM/PB/ev

Cy: P. Bertino, E/ER, MS M992
R. Bohn, E/ER, MS M992
J. Canepa, E/ER, MS M992
M. Johansen, LAAO, MS A316
M. Kirsch, E/ER, MS M992
D. Holmquist, E/ER MS M992
D. McInroy, E/ER, MS M992
J. Hopkins, E/ER, MS M992
D. Neleigh, US EPA (2 copies)
L. Nonno, E/ER, MS M992
J. Pope, E/ER, MS M992
G. Turner, LAAO, MS A316
J. Bearzi, NMED-HWB
M. Coffman, NMED-AIP
J. Davis, NMED-SWQB
V. Marranville, NMED-HWB
J. Kieling, NMED-HWB
M. Leavitt, NMED-GWQB
J. Parker, NMED-DOE OB
S. Yanicak, NMED-DOE OB, MS J993
J. Young, NMED-HWB (2 copies)
E/ER File, MS M992
RPF, MS M707

70218

ENVIRONMENTAL RESTORATION PROJECT COMMUNICATION RECORD		
Date: 08/15/01	**Time:** 11:00 p.m.	**Recorded By:** P. Bertino
To: Vickie Maranville 8/15/01	**From:** P. Bertino	**Telephone No.:** 665-2198
Affiliation: NMED-HWB		
Other Parties: Dan Holmquist and John Hopkins (LANL ER), and Woody Woodworth (DOE-AL)		

scussion: This communication record (including all attachments) documents LANL's revised approach for the collection of confirmation samples during the VCA of PRSs 21-024(f) and C-21-015 (LA-UR-99-3407), and the newly identified PRS 21-030. During a recent records search, it was determined that the concrete sump located in former building TA-21-45 had been assigned a new PRS number 21-030 in 1996 (see attached notification letter). Therefore, PRS C-21-015 refers only to the footprint of former Building TA-21-015, consistent with the SWMU Report and PRS 21-030 is identified as the sump and its outlet line.

The confirmation sample analytical suite for PRS 21-024(f) is based on waste characterization results from the septic tank and analytical results from previous investigations at PRS 21-024(f). Sludge samples were collected from the second compartment of the septic tank on August 1, 2001. Analytical data will be provided to NMED-HWB and the confirmation sample analytical suite modified as necessary. The confirmation sample analytical suite for PRSs C-21-015 and 21-030 is based on waste characterization results from the sump and analytical results from previous investigations at PRS 21-024(f). At the request of NMED-HWB and because of the former plutonium processing operations conducted at TA-21 (each of these PRSs), perchlorates will be added to the confirmatory sampling analytical suite for the borehole samples collected beneath the septic tank, the bottom three borehole samples collected beneath the outfall pit, samples collected from a single location beneath the outlet line from the septic tank at PRS 21-024(f), and from the borehole samples collected beneath the sump. The waste characterization results for PRSs 21-024(f) and 21-030 are attached, and results from previous investigations are presented in the 1999 VCA Plan.

PRS 21-024(f): The only proposed change to the confirmation screening and sampling approach for the inlet and outlet lines of both PRSs is to establish more discrete sample intervals to ensure the determination of nature and extent, similar to the approach implemented for the inlet and outlet lines at PRS 21-024(i). At the request of NMED-HWB, two additional outlet sample locations will be added, one approximately one quarter of the way between the septic tank and the outfall pit (40 ft), and one approximately three quarters of the way between the septic tank and the outfall pit (120 ft). The 0- to 12-inch depth interval below the inlet and outlet lines has been changed to 0- to 6-inches and the 12- to 24-inch interval beneath the inlet and outlet lines has been changed to 18- to 24-inches.

e only proposed change to the confirmation sampling beneath the septic tank upon its removal is the installation of a single borehole to a total depth of approximately 30-feet below ground surface (bgs), equivalent to 20-feet below the bottom of the tank to define nature and extent. The 1999 VCA Plan proposed only a single confirmation sample location within the tank excavation with samples collected from two depth intervals, 0- to 12-inches and 12- to 24-inches. Continuous core will be collected from the single confirmation borehole and screened for VOCs with a photoionization detector, and alpha, beta and gamma radiation using hand held instruments. Samples will be collected from the following depth intervals: 0- to 6-inches, 4.5- to 5.0-feet, 9.5- to 10.0-feet and 19.5- to 20.0-feet below the bottom of the tank. To ensure the nature and extent of any residual contamination is defined, a single borehole will be advanced in the center of the outfall pit and continuous core collected to a total depth of 20-feet bgs. The core will be screened in the same manner describe above for the core samples to be collected from beneath the septic tank. Samples will be collected from the following depth intervals: 6- to 12-inches, 4.5- to 5.0-feet, 9.5- to 10.0-feet and 19.5- to 20.0-feet bgs. Sampling of the slope below the outfall will be performed with the assistance of the Canyons Focus Area. Approximately 13 sample locations were determined with input from members of the Canyons Focus Area using the same methodology currently used for characterization of the canyons reaches. The actual number and location of these samples will be based on the geomorphology observed at each proposed sample location. A map with proposed sampling locations will be provided to NMED prior to sample collection.

PRS 21-030: The only proposed change to the confirmation sampling beneath the sump upon its removal is the installation of a single borehole to a total depth of approximately 20-feet below the bottom of the sump to define nature and extent. A second borehole is also proposed approximately 5 feet north of the sump. The 1999 VCA Plan proposed only a single confirmation sample location within the sump excavation with samples collected from two depth intervals, 0- to 12-inches and 12- to 24-inches. Continuous core will be collected from the two confirmation boreholes and screened for VOCs with a photoionization detector, and alpha, beta and gamma radiation using hand held instruments. Samples will be collected from the following depth intervals: 0- to 6-inches, 4.5- to 5.0-feet, 9.5- to 10.0-feet and 19.5- to 20.0-feet from both boreholes. The outlet line from the sump will be sampled as shown in revised Figures 4.2-2 and 5.1-1 from the 1999 VCA Plan (attached). At the request of NMED-HWB, one additional outlet sample location has been added along the north edge of DP road, approximately 85 ft southwest of the sump. Samples will be collected from the 0- to 6-in. and 18- to 24 in. depth intervals similar to the inlet and tlet lines associated with the septic tank.

PRS C-21-015: is the former location of Building TA-21-25 that was used as a safety training building in 1947 and 1948. The building was altered in 1949 and subsequently housed the Laboratory's Industrial Waste Studies group until the building was removed in 1954. Waste streams from the building discharged to the septic system (PRS 21-024(f) and a concrete sump (PRS 21-030). During the VCA, the building footprint will be surveyed and six confirmation samples will be collected from three locations within the building footprint from two depth intervals (0-in. to 6-in. and 18-in. to 24-in.). The analytical suite for these samples will be the same suite used for samples from the sump (PRS 21-030).

Action Items: Deliver communication record for Vickie Maranville to initial and distribute the record. Upon receipt of analytical results from the sludge samples collected from the second compartment of the septic tank at PRS 21-024(f), provide data to NMED-HWB and modify the confirmation sample analytical suite as necessary. Replace revised Figures 4.2-1 and 4.2-2 with new map(s) showing topography of the hillside below the outfall pit and proposed confirmation sample locations, and that show the footprint of former Building TA-21-45 (PRS C-21-015) and associated confirmation sample locations. Thoroughly document all deviations from the approved VCA Plan and implementation of decisions agreed to in this Record of Communication in the VCA completion report. All revised and new figures and maps will be provided in the VCA completion report in addition to the revised descriptions and supporting documentation for PRS C-21-015 and 21-030.

Distribution:
V. Maranville/J. Young, NMED-HWB
J. Hopkins & D. Holmquist, MDAFA
L. Woodworth, DOE-AL
P. Bertino, RCFA/MDAFA
J. Crocker, Washington Group
RPF

DI-4.3, R0	**LOS ALAMOS** **Environmental Restoration** **Project**

This document presents the proposed confirmation analytical suite and changes to the confirmation sampling approach originally described in the Voluntary Corrective Action (VCA) Plan for Potential Release Sites 21-024(f) and C-21-015 (LA-UR-99-3407, July 1999). The section headings below correspond to the specific sections in the plan where changes are proposed, or are headings that should be added because of the suggested changes.

4.2 Supplemental Sampling

4.2.1 Septic Tank and Sump Supplemental Sampling

The 1999 VCA Plan stated that waste characterization data from the septic tank and sump contents would be used to determine the confirmation sampling analytical suite. The contents of the septic tank and sump were sampled in August 1999 and submitted to an offsite fixed laboratory for a full suite of analyses including: pesticides/PCBs, TAL/TCLP metals (liquids/sludge), VOCs, SVOCs, soil pH, and radionuclides (gamma-emitting radionuclides by gamma spectrometry, tritium, isotopic plutonium, and isotopic uranium). The analytical results are provided in the attached tables. Analytical results for the sludge and liquid samples from the septic tank at PRS 21-024(f) detected extremely low concentrations (< 1.0 ppm and J – or estimated values) of the VOCs 2-butanone, bromochloromethane and 4-isopropyltoluene, numerous inorganic metals, and low levels of a variety of radionuclides including Pu-239/240, U-234, and Th-230. Upon uncovering the septic tank, a second compartment was discovered with in the tank. The sludge in the second compartment was sampled on August 1, 2001, and submitted to an offsite fixed laboratory for a full suite of analyses for waste characterization and identification of COPCs.

Analytical results for the soil samples from the sump (PRS C-21-015) show extremely low concentrations of PCBs (0.02 ppm PCBs), low concentrations of numerous SVOCs, inorganic metals, and radionucludes including Th-230, Pu-239, and Sr-90. The proposed confirmation sampling analytical suites presented below for each PRS address these COPCs and includes inorganic lithium and strontium to supplement TA-21 contaminant baseline data, gross screening for alpha, beta and gamma radioactivity, Am-241, and tritium all of which were detected during the previous field investigations at PRS 21-024(f). At the request of NMED-HWB and because of the former plutonium processing operations conducted at TA-21, perchlorates will be added to the confirmatory sampling analytical suite for the borehole samples collected beneath the septic tank, the bottom three borehole samples collected beneath the outfall pit, samples collected from a single location beneath the septic tank outlet line at PRS 21-024(f), and from the borehole samples collected beneath the sump at PRS C-21-015.

5.1 Confirmatory Sampling for PRS 21-024(f)

5.1.1 Proposed Changes to Confirmation Sampling of the Septic Tank and Associated Inlet and Outlet Lines

The only proposed change to the confirmation screening and sampling approach is to establish more discrete sample intervals to ensure the determination of nature and extent, similar to the approach implemented for the inlet and outlet lines at PRS 21-024(i). At the request of NMED-HWB, two additional outlet sample locations have been added, one approximately one quarter of the way between the septic tank and the outfall pit (40 ft), and one approximately three quarters of the way between the septic tank and the outfall pit (120 ft). The 0- to 12-inch depth interval below the inlet and outlet lines has been changed to 0- to 6-inches and the 12- to 24-inch interval beneath the inlet and outlet lines has been changed to 18- to 24-inches. The sample locations may be relocated slightly, or additional samples collected, to ensure sample collection from locations with elevated field screening, breaks in the lines or observed staining within the trench excavations from removal of the inlet and outlet lines to the septic tank. These confirmation sample locations include the locations beneath the inlet and outlet line junctions with the septic tank as described in Table 5.1-1 in the 1999 VCA Plan.

The only proposed change to the confirmation sampling beneath the septic tank upon its removal is the installation of a single borehole to a total depth of approximately 30-feet below ground surface (bgs), equivalent to 20-feet below the bottom of the tank to define nature and extent. The 1999 VCA Plan proposed only a single confirmation sample location within the tank excavation with samples collected from two depth intervals, 0- to 12-inches and 12- to 24-inches. LANL is proposing to collect continuous core from the single confirmation borehole that will be screened for VOCs with a photoionization detector, and alpha, beta and gamma radiation using hand held instruments. Samples will be collected from the following depth intervals: 0- to 6-inches, 4.5- to 5.0-feet, 9.5- to 10.0-feet and 19.5- to 20.0-feet below the bottom of the tank. Based on field screening and core examination while compiling the geologic log, sample collection intervals may be moved up or down or additional sampling intervals may be collected at the discretion of the geologist and field team leader to characterize elevated screening levels or observed fractures and/or staining.

The proposed analytical suite for the confirmation samples collected from beneath the septic tank and lines includes: VOCs; TAL metals (including mercury) with lithium and strontium added; gamma spectroscopy for cesium-134, cesium-137, sodium-22, cobalt-60, ruthenium-106, americium-241, europium-152 and uranium-235; americium-241, and tritium. Note: upon receipt of analytical results from the sludge samples collected from the second compartment of the septic tank on August 1, 2001, the data will be provided to NMED-HWB and the confirmation sample analytical suite modified as necessary. At the request of NMED-HWB, perchlorates will be added to the analytical suite for all confirmation samples collected from the borehole beneath the septic tank and to the confirmation samples collected from a single location in the outlet line trench.

Figures 4.2-1 and 5.1-1 have been modified to reflect the changes described below.

Table 5.1-1 has been modified to reflect the changes described below.

REVISED TABLE 5.1-1. SEPTIC TANK, INLET AND OUTLINE SAMPLE LOCATIONS

mple Type	Sample Depth	Sample Description
Subsurface	Immediately below inlet to tank (0-in. – 6-in.)	Collected from the south end of the imprint of the excavated tank beneath the connection to the inlet pipe. Media may be fill or tuff.
Subsurface	Immediately below inlet to tank (18-in. – 24-in.)	Collected from the south end of the imprint of the excavated tank beneath the connection to the inlet pipe. Media may be fill or tuff.
Subsurface	Approximately 40 ft. south of tank immediately below excavated inlet line (0-in. –6-in.)	Collected from media immediately below excavated inlet line, approximately half way between septic tank location and former building location.
Subsurface	Approximately 40 ft. south of tank immediately below excavated inlet line (18-in. –24-in.)	Collected from media immediately below excavated inlet line, approximately half way between septic tank location and former building location.
Subsurface	Approximately 80 ft. south of tank, immediately below end of excavated inlet line (0-in. –6-in.)	Collected from media immediately below excavated inlet line, at the end of the line.
Subsurface	Approximately 80 ft. south of tank, immediately below end of excavated inlet line (18-in. –24-in.)	Collected from media immediately below excavated inlet line, at the end of the line.
Subsurface	Immediately below septic tank (0-in. – 6-in. below the bottom of the tank)	Collected from core recovered from the center of the imprint of the excavated tank. Media may be fill or tuff.
Subsurface	Immediately below septic tank (4.5-ft. – 5.0-ft. below the bottom of the tank)	Collected from core recovered from the center of the imprint of the excavated tank. Media may be fill or tuff.
Subsurface	Immediately below septic tank (9.5-ft. – 10.0-ft. below the bottom of the tank)	Collected from core recovered from the center of the imprint of the excavated tank. Media may be fill or tuff.
Subsurface	Immediately below septic tank (19.5-ft. – 20.0-ft. below the bottom of the tank)	Collected from core recovered from the center of the imprint of the excavated tank. Media may be fill or tuff.
Subsurface	Immediately below outlet to tank (0-in. – 6-in.)	Collected from the north end of the imprint of the excavated tank beneath the connection to the outlet pipe. Media may be fill or tuff.
Subsurface	Immediately below outlet to tank (18-in. – 24-in.)	Collected from the north end of the imprint of the excavated tank beneath the connection to the outlet pipe. Media may be fill or tuff.
Subsurface	Approximately 40 ft. north of tank immediately below excavated outlet line (0-in. – 6-in.)	Collected from media immediately below excavated outlet line, approximately one quarter of the way between septic tank location, and septic tank outfall pit.
Subsurface	Approximately 40 ft. north of tank immediately below excavated outlet line (18-in. – 24-in.)	Collected from media immediately below excavated outlet line, approximately one quarter of the way between septic tank location, and septic tank outfall pit.
Subsurface	Approximately 80 ft. north of tank immediately below excavated outlet line (0-in. – 6-in.)	Collected from media immediately below excavated outlet line, approximately halfway between septic tank location, and septic tank outfall pit.
Subsurface	Approximately 80 ft. north of tank immediately below excavated outlet line (18-in. – 24-in.)	Collected from media immediately below excavated outlet line, approximately halfway between septic tank location, and septic tank outfall pit.
Subsurface	Approximately 120 ft. north of tank, immediately below end of excavated outlet line (0-in. – 6-in.)	Collected from media immediately below excavated outlet line, approximately 120 ft north of septic tank location.
Subsurface	Approximately 120 ft. north of tank, immediately below end of excavated outlet line (18-in. – 24-in.)	Collected from media immediately below excavated outlet line, approximately 120 ft north of septic tank location.
Subsurface	Approximately 160 ft. north of tank, immediately below end of excavated outlet line (0-in. – 6-in.)	Collected from media immediately below excavated outlet line, approximately 160 ft north of septic tank location. (The end of the outlet line.)
Subsurface	Approximately 160 ft. north of tank, immediately below end of excavated outlet line (18-in. – 24-in.)	Collected from media immediately below excavated outlet line, approximately 160 ft north of septic tank location. (The end of the outlet line.)

5.1.2 Proposed Changes to Confirmation Sampling of the Outfall Pit

No supplemental sampling of the outfall pit was proposed in the 1999 VCA Plan. To ensure the nature and extent of any residual contamination is defined, a single borehole will be advanced in the center of the outfall pit and continuous core collected to a total depth of 20-feet bgs. The core will be screened in the same manner describe above for the core samples to be collected from beneath the septic tank. Samples will be collected from the following depth intervals: 6- to 12-inches, 4.5- to 5.0-feet, 9.5- to 10.0-feet and 19.5- to 20.0-feet bgs. Based on field screening and core examination while compiling the geologic log, sample points may be moved to another depth interval additional sampling intervals may be collected at the discretion of the geologist and field team leader to characterize elevated screening levels or observed fractures and/or staining.

The proposed analytical suite for the confirmation samples collected from beneath the outfall pit includes: VOCs (samples collected from the bottom three intervals only); TAL metals (including mercury) with lithium and strontium added; isotopic uranium, isotopic thorium and isotopic plutonium by alpha spectroscopy; americium-241, and tritium. Note: additional COPCs identified in the August 1, 2001 sludge sample may be added to the confirmation analytical suite as necessary. At the request of NMED-HWB, perchlorates will be added to the analytical suite for the confirmation samples collected from the borehole beneath the outfall pit.

Figure 4.2-1 has been revised to show the confirmation sample location within the outfall pit.

5.1.3 Proposed Changes to Confirmation Sampling of the Canyon Slope Below the Outfall Pit

Section 4.2.2 Septic System Outfall Supplemental Sampling

Sampling of the slope below the outfall will be performed with the assistance of the Canyons Focus Area. Members of the Canyons Focus Area will select sample locations and geomorphological units to be sampled using the same methodology currently used for characterization of the canyons reaches. During a site visit with staff from NMED-HWB, the Canyons Focus Area, the Regulatory Compliance Focus Area, and the VCA contractors on August 1, 2001 approximately 13 sample locations were identified on the slope to be sampled. The two rows of four sample locations each on the steep upper slope proposed in the 1999 VCA Plan will be retained (depending on local geomorphology) along with approximately three sample locations in a drainage channel at the bottom of the slope and three sample locations within the toe of the lower slope of the hillside just above the DP Canyon drainage channel. Based on geomorphologic assessment results, samples will be collected from one or two depth intervals at each location.

The proposed analytical suite for the confirmation samples collected from the canyon slope below the outfall pit includes: TAL metals (including mercury) with lithium and strontium added; isotopic uranium, isotopic thorium and isotopic plutonium by alpha spectroscopy; americium-241, and tritium. Perchlorates will not be added to the analytical suite for the confirmation samples collected from the canyon slope beneath the outfall pit. Note: additional COPCs identified in the August 1, 2001 sludge sample may be added to the confirmation analytical suite as necessary.

During the August 1, 2001 site visit, it was determined that sediment samples from the DP Canyon stream channel would not provide information relevant to the nature and extent of any potential release from PRS 21-024(f). Additionally, the stream channel north of the outfall pit consists primarily of tuff with few if any sediment catchments for sample collection. Therefore, sediment samples from the stream channel will not be collected at this time.

Figures 4.2-1 and 4.2-2 have been revised to show the proposed confirmation sample locations on the canyon slope below the outfall pit.

5.2 C-21-015 (Sump) Sampling

The only proposed change to the confirmation sampling beneath the sump upon its removal is the installation of a single borehole to a total depth of approximately 20-feet below the bottom of the sump to define nature and extent. A second borehole is also proposed approximately 5 feet north of the sump. The 1999 VCA Plan proposed only a single confirmation sample location within the sump excavation with samples collected from two depth intervals, 0- to 12-inches and 12- to 24-inches. Continuous core will be collected from the two confirmation boreholes and screened for VOCs with a photoionization detector, and alpha, beta and gamma radiation using hand held instruments. Samples will be collected from the following depth intervals: 0- to 6-inches, 4.5- to 5.0-feet, 9.5- to 10.0-feet and 19.5- to 20.0-feet from both boreholes. Based on field screening and core examination while compiling the geologic log, sample collection intervals may be moved up or down or additional sampling intervals may be collected at the discretion of the geologist and field team leader to characterize elevated screening levels or observed fractures and/or staining.

The outlet line from the sump will be sampled as shown in revised Figures 4.2-2 and 5.1-1 from the 1999 VCA Plan (see Attached Figures). At the request of NMED-HWB, one additional outlet sample location has been added along the north edge of DP road, approximately 85 ft southwest of the sump. Samples will be collected from the 0- to 6-in. and 18- to 24 in. depth intervals similar to the inlet and outlet lines associated with the septic tank. Table 5.2-1 has been modified to reflect the borehole samples and new, discrete, sample intervals from beneath the outlet line. Sample locations may be relocated slightly, or additional samples collected, based on observations of elevated field screening, breaks in the line or staining within the excavation made while removing the outlet line.

The proposed analytical suite for the confirmation samples collected from beneath the sump, north of the sump and beneath the outlet line includes: SVOCs; TAL metals (including mercury); gamma spectroscopy for cesium-134, cesium-137, sodium-22, cobalt-60, ruthenium-106, americium-241, europium-152 and uranium-235; americium-241, and tritium. At the request of NMED-HWB, perchlorates will be added to the analytical suite for the confirmation samples collected from the borehole beneath the sump.

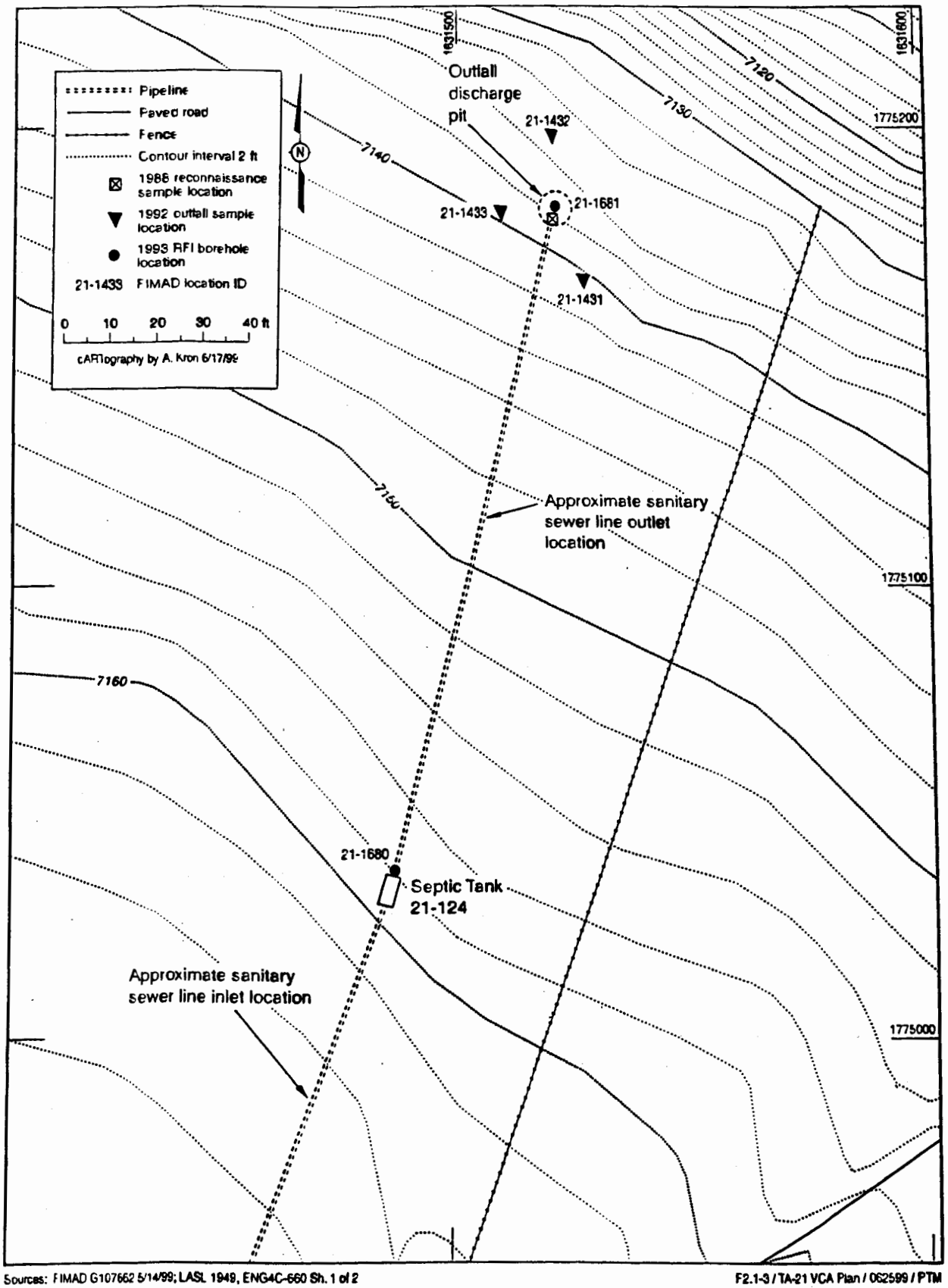
Table 5.2-1 has been modified to reflect the changes below.

Figures 4.2-2 and 5.1-1 have been revised to show the borehole locations in the center of the sump and north of the sump and the additional outlet line sample location adjacent to the north edge of DP Road.

REVISED TABLE 5.2-1. SUMP OUTLET LINE SAMPLES

Sample Type	Sample Depth	Sample Description
Subsurface	Immediately below sump outlet line (0-in.-6-in.)	Approximately 0 ft west of the sump and 6 ft north of the sump
Subsurface	Immediately below sump outlet line (18-in.-24 -in.)	Approximately 0 ft west of the sump and 6 ft north of the sump
Subsurface	Immediately below sump outlet line (0-in.-6-in.)	Approximately 35 ft west of the sump and 6 ft north of the sump
Subsurface	Immediately below sump outlet line (18-in.-2-in.)	Approximately 35 ft west of the sump and 6 ft north of the sump
Subsurface	Immediately below sump outlet line (0-in.-6-in.)	Approximately 70 ft west of the sump and 6 ft north of the sump
Subsurface	Immediately below sump outlet line (18-in.-2-in.)	Approximately 70 ft west of the sump and 6 ft north of the sump
Subsurface	Immediately below sump outlet line (18-in.-2-in.)	At north edge of DP road, approximately 85 ft southwest of the sump
Subsurface	Immediately below sump outlet line (18-in.-2-in.)	At north edge of DP road, approximately 85 ft southwest of the sump

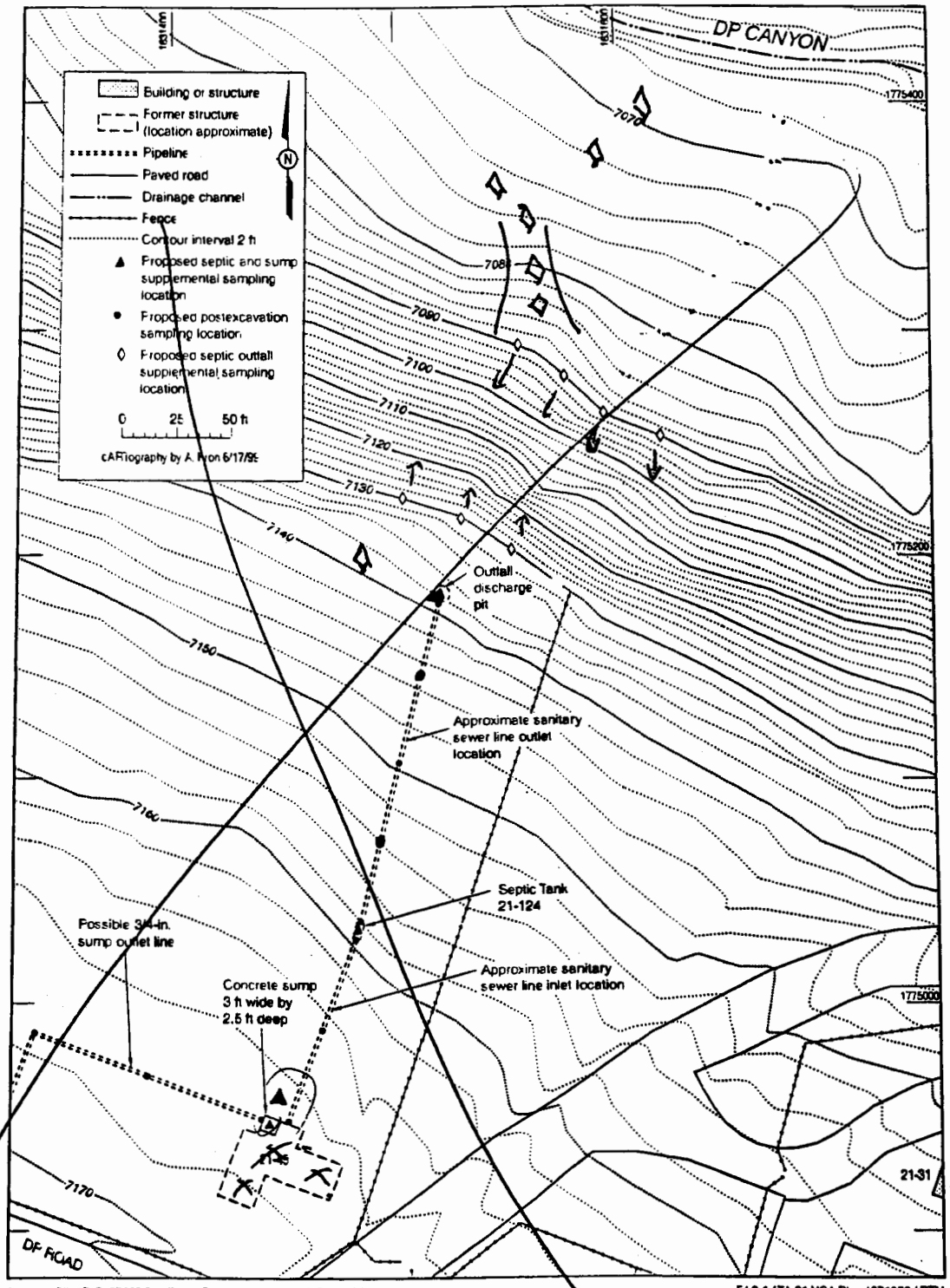
VCA Plan



Sources: FIMAD G107662 5/14/99; LASL 1949, ENG4C-660 Sh. 1 of 2

F2.1-3 / TA-21 VCA Plan / 062599 / PTM

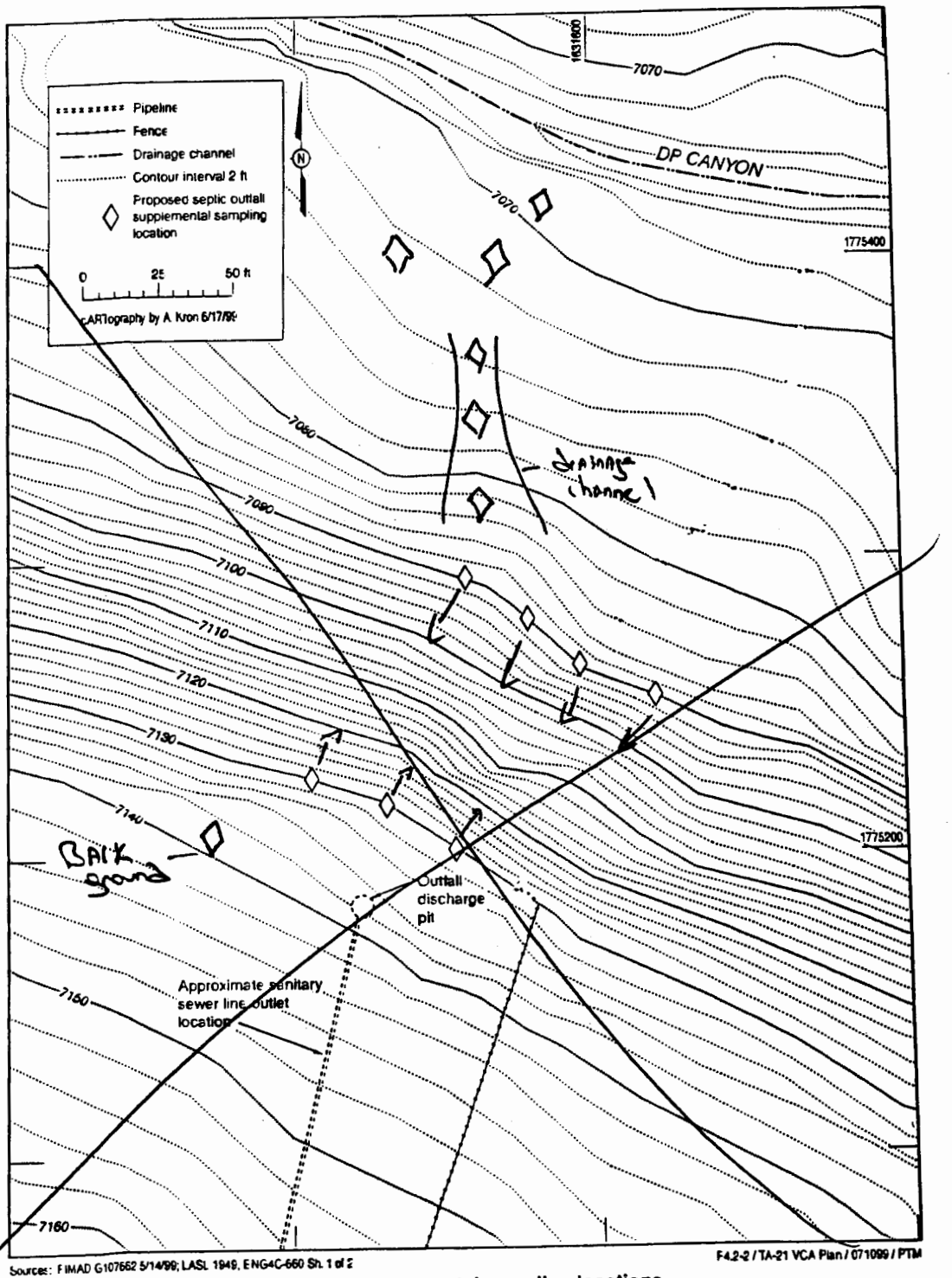
Figure 2.1-3. Previous sampling locations at PRS 21-024(f)



Sources: FIMAD G107662 5/14/99; LASL 1949, ENG4C-660 Sh. 1 of 2

F4.2-1 / TA-21 VCA Plan / 071099 / PTM

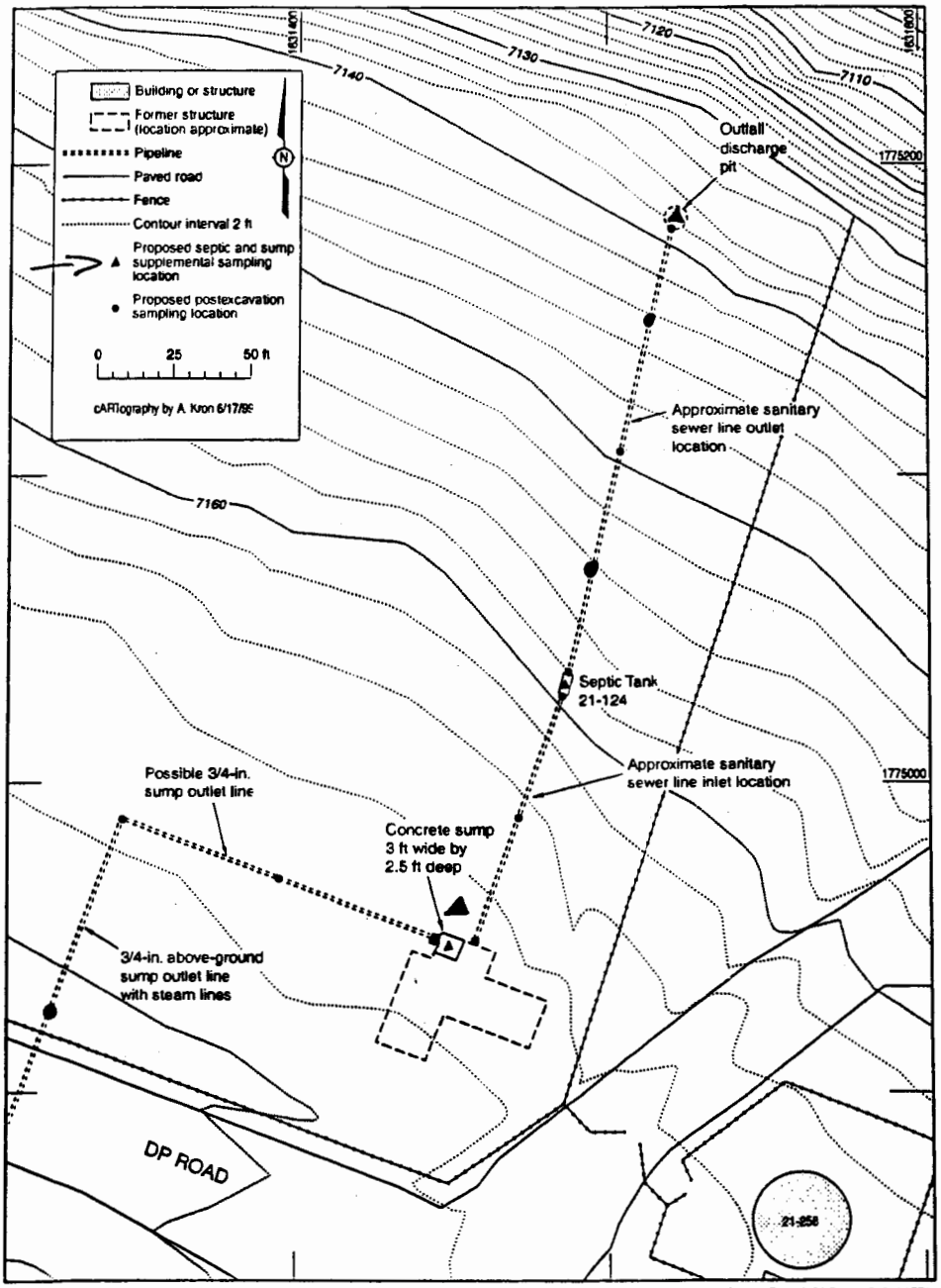
Revised Figure 4.2-1. Proposed septic and sump supplemental sampling locations



Sources: FIMAD G107662 5/14/99; LASL 1949, ENG4C-660 Sh. 1 of 2

Figure 4.2-2. Proposed septic outfall supplemental sampling locations

boreholes



Sources: FIMAD G107662 5/14/99; LASL 1949, ENG4C-660 Sh. 1 of 2

F5.1-1 / TA-21 VCA Plan / 071099 / PTM

Revised

Figure 5.1-1. Proposed postexcavation confirmation sampling locations

Table 1. PRS 21-024(f) Septic Tank Liquids Characterization
Maximum/Minimum Values
MD21-99-0171

	Result	Reference Values
CONSTITUENT [1]		TA-50 RLWTF WAC (ug/L)
ORGANIC (ug/L):		
VOC	ND	[2]
SVOC	ND	[2]
PCBs	ND	No PCBs
RCRA METALS (ug/L):		TCLP (ug/L)
ARSENIC	ND	5,000
BARIUM	123	100,000
CADMIUM	0.36	1,000
CHROMIUM	1.9	5,000
LEAD	ND	5,000
MERCURY	5.4	200
SELENIUM	ND	1,000
SILVER	ND	5,000
OTHER METALS (ug/L):		RLWTF (LOC) (ug/L)
ALUMINUM	328	5,000
BORON	Not analyzed	5,000
COBALT	0.96	1,000
COPPER	1.4	1,000
VANADIUM	1.1	100
ZINC	5.1	95,400
RADIONUCLIDES (pCi/L):		RLWTF (LOC) (Ci/L)
Am-241	ND	0.1 E-6
Co-60	ND	5.0 E-9
Cs-137	ND	3.0 E-9
Sr-90	ND	1.0 E-9
H-3	328	2.0 E-8
Th-230	0.141	NA
Th-232	ND	NA
U-234	0.103	5.0 E-8
U-235	ND	NA
U-238	ND	NA
Pu-238	ND	0.1 E-6
Pu-239	ND	0.1 E-6
Gross Alpha	4.63	
Gross Beta	8.31	
Gross Gamma	<105	
COD (mg/L):	20.8	
TSS (mg/L):	<20	
NO_3/NO_2 Nitrogen (mg/L)	<0.05	
pH	7.5	

[1] The organic and metal values are based on total analysis

[2] Listed or characteristically hazardous organic-bearing wastes are generally not accepted at the RLWTF

ND - not detected

NA - not applicable

Table 2. PRS 21-024(f) Septic Tank/Sump Debris
Maximum/Minimum Values
MD21-99-0172, MD21-99-0088, MD21-99-0089

CONSTITUENT	Analytical Results MIN	Analytical Results MAX	Reference Values	
ORGANICS, Total (ug/kg):			TCLP X 20 (ug/L)	
SVOCs:				
Phenanthrene	ND	76	NA	
Fluoranthene	ND	1200	NA	
Pyrene	ND	1100	NA	
Benzo (a) anthracene	ND	390	NA	
bis (2-Ethylhexyl) phthalate	ND	96	NA	
Chrysene	ND	700	NA	
Benzo (b) fluoranthene	ND	400	NA	
Benzo (k) fluoranthene	ND	330	NA	
Benzo (a) pyrene	ND	200	NA	
VOCs:				
Acetone	ND	32	NA	
2-Butanone	ND	9.1	NA	
Bromochloromethane	ND	1.6	NA	
P-Isopropyltolune	ND	1.2	NA	
PCBs (Aroclor - 1254) (ppb)	ND	20	NA	
INORGANIC Metals, TCLP (mg/L):			40 CFR 261.24, Table 1. (mg/L)	
ARSENIC	NA	0.03	5	
BARIUM	NA	1.32	100	
CADMIUM	NA	ND	1	
CHROMIUM	NA	0.07	5	
LEAD	NA	ND	5	
MERCURY	NA	ND	0.2	
SELENIUM	NA	0.04	1	
SILVER	NA	ND	5	
RADIOACTIVITY [1] (pCi/g):			Ryti et al. 1998[2]	% Total Activity
Pu-238	ND	0.122	0.023	0.21%
Pu-239/240	1.65	15.55	0.054	26.57%
U-234	0.947	4.38	2.59	7.48%
U-235	ND	0.046	0.2	0.08%
U-238	0.734	3.55	2.29	6.07%
Th-232	0.613	1.53	2.33	2.61%
Sr-90	ND	1.43	1.31	2.44%
H-3	ND	1.71		2.92%
K-40	15.6	26	36.8	44.42%
Cd-109	ND	4		6.83%
Cs-137	ND	0.21	1.65	0.36%
Total Activity Conc. (pCi/g)		58.528		100.00%
			Ryti et al 1998[3]	
Gross Alpha	14.09	30.89	31.3	
Gross Beta	45.6	51.41	48.5	
Gross Gamma	ND	ND	10.7	

NA - Not Applicable
ND - None Detected
[1] values reported for all reliably detected radionuclides.
[2] Reference background values for soil (from Ryti et al., 1998).
[3] Comparison values for gross alpha, beta, and gamma activity are from an unpublished technical paper by J. Smith. MK/PMC, using data from Ryti et al, 1998.