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Date: September 28, 2001
Refer to: ER2001-0800

Mr. Mat Johansen
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Los Alamos Area Office, MS A316
Los Alamos, NM 87545

SUBJECT: SUBMITTAL OF VOLUNTARY CORRECTIVE ACTION (VCA) COMPLETION REPORT FOR POTENTIAL RELEASE SITES (PRSs) 51-001 AND 54-007(d)

Dear Mat:

Enclosed please find the Certification and two copies of VCA Completion Report for PRSs 51-001 and 54-007(d). All analytical data for the VCA Completion Report is submitted in this document.

Submittal of this document partially satisfies the Los Alamos National Laboratory's management commitments for FY01. Please contact John Hopkins at (505) 667-9551, if you have any questions.

Sincerely,

Julie A. Canepa, Program Manager
Environmental Restoration Project

JC/JH/elm

Enclosure: Certification
VCA Completion Report for PRSs 51-001 and 54-007(d)

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Document Title: VCA Completion Report for PRSs 51-001 and 54-007(d)

Name: _____ Date: 9/28/01

Julie A. Canepa, Program Manager
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A Department of Energy
Environmental Cleanup Program

LA-UR-01-5223
September 2001
ER2001-0626

Voluntary Corrective Action Completion Report for Potential Release Sites 51-001 and 54-007(d)

Los Alamos
NATIONAL LABORATORY
Los Alamos, NM 87545

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Prepared by the Material Disposal Areas Focus Area

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EXECUTIVE SUMMARY

This voluntary corrective action (VCA) completion report addresses the characterization and remediation of potential release sites (PRSs) 51-001 and 54-007(d). These PRSs are not listed in Module VIII of Los Alamos National Laboratory's (Laboratory) Hazardous Waste Facility Permit (EPA 1990, 01585).

PRS 51-001 was an inactive/abandoned septic system located at Technical Area (TA) 51 that served the Experimental Engineering Test Facility support buildings (Buildings 51-11 and -51-12) and transportable offices for the Health Physics Policy and Programs Group: Buildings 51-25, 51-26, and 51-27. The septic system consisted of a 1000-gal. concrete septic tank and a 50-ft deep seepage pit.

PRS 54-007(d) was an inactive/abandoned septic system located at TA-54 that served the Radiation Exposure Facility located in Buildings 54-1001, 54-1002, 54-1003, and 54-1004. The septic system consisted of a 972-gal. concrete septic tank and drain field.

VCA activities at PRSs 51-001 and 54-007(d) involved the characterization and removal of the septic tank contents and cleaning and excavating the tanks. Drain lines associated with the septic tanks were plugged at the inlets and outlets. Confirmation samples were collected from both septic tank footprints, from within the PRS 54-007(d) drain field, and adjacent to the PRS 51-001 seepage pit. The drain field associated with PRS 54-007(d) and the seepage pit associated with PRS 51-001 were left in place.

The site and surrounding area have been used for industrial/Laboratory purposes since the 1950s. Only the chemicals detected in both the septic tanks and the drain field/seepage pit are related to a release from these PRSs. Contaminants not consistent with septic tank contents were detected at low concentrations at PRS 51-001 and PRS 54-007(d). However, these contaminants are consistent with an industrial site and most of the contaminants were present at concentrations below the estimated quantitation limit (NMED 1999, 70131). Additionally, there is no potential unacceptable human or ecological risk from the low levels of contaminants detected. Therefore, based on analytical results from samples collected at these locations, no further action (NFA) is recommended based on NFA Criterion 5 (Table ES-1). This criterion states that the PRS has been characterized or remediated in accordance with applicable state or federal regulations and that the available data indicate that chemicals of concern are either not present or are present at concentrations that would pose an acceptable human health or ecological risk under projected future land use (NMED 1998, 57897).

Table ES-1
Summary of Proposed Actions

PRS Number	PRS Description	HSWA[a,b]	Radionuclide Component	Proposed Action	Rationale for Recommendation	Section Number
51-001	Septic system	No	Yes	NFA, Criterion 5[c]	Acceptable risk to human and ecological receptors	2.0
54-007(d)	Septic system	No	Yes	NFA, Criterion 5[c]	Acceptable risk to human and ecological receptors	3.0

[a] Hazardous and Solid Waste Amendments.

[b] Is the site listed in Module VIII of the Laboratory's Hazardous Waste Facility Permit?

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

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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 43 mi^2 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 between approximately 6200 ft and 7800 ft. The eastern portion of the plateau stands 300 ft–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 facilities 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 investigating sites potentially contaminated by past Laboratory operations.

The sites under investigation are potential release sites (PRSs) and are not listed in Module VIII of the Laboratory's Hazardous Waste Facility Permit (EPA 1990, 01585; EPA 1994, 44146). However, radionuclides are regulated under DOE Order 5400.5, "Radiation Protection of the Public and the Environment." There is a radionuclide component for both PRSs. The current approved installation work plan (IWP) (LANL 1998, 62060.4) describes the methodologies used in this investigation.

This voluntary corrective action (VCA) completion report discusses activities conducted at two PRSs at Technical Areas (TAs) 51 and 54 at the Laboratory (Figure 1.0-1). Both PRSs 51-001 and 54-007(d) are inactive/abandoned septic systems. The similar environmental settings of the sites, uses of the septic systems, and geographic proximity support grouping the PRSs into one VCA report.

The objectives of these VCAs were to

- characterize, remove, and dispose of the waste remaining in each septic tank;
- remediate (by excavation), as necessary, the inactive/abandoned septic systems following Laboratory ER Project best management practices;
- collect confirmatory subsurface soil samples at each septic system;
- determine the nature and extent of soil contamination using sampling data; and
- assess the potential human health and ecological risks from each septic system.

Sections 2 and 3 of this report discuss the site description and operational history, remedial activities, analytical results for the soil samples, and human health and ecological assessments. Section 4 describes waste management activities. References are listed in Section 5. Appendix A contains a list of acronyms and a glossary of terms. Appendix B describes the 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 cost comparison for completion of the VCAs. Appendix H includes a copy of the approved VCA plan (LANL 2000, 70658) for these PRSs. Appendix I includes photographs of the VCA activities. Appendix J contains copies of the borehole logs for PRS 51-001.

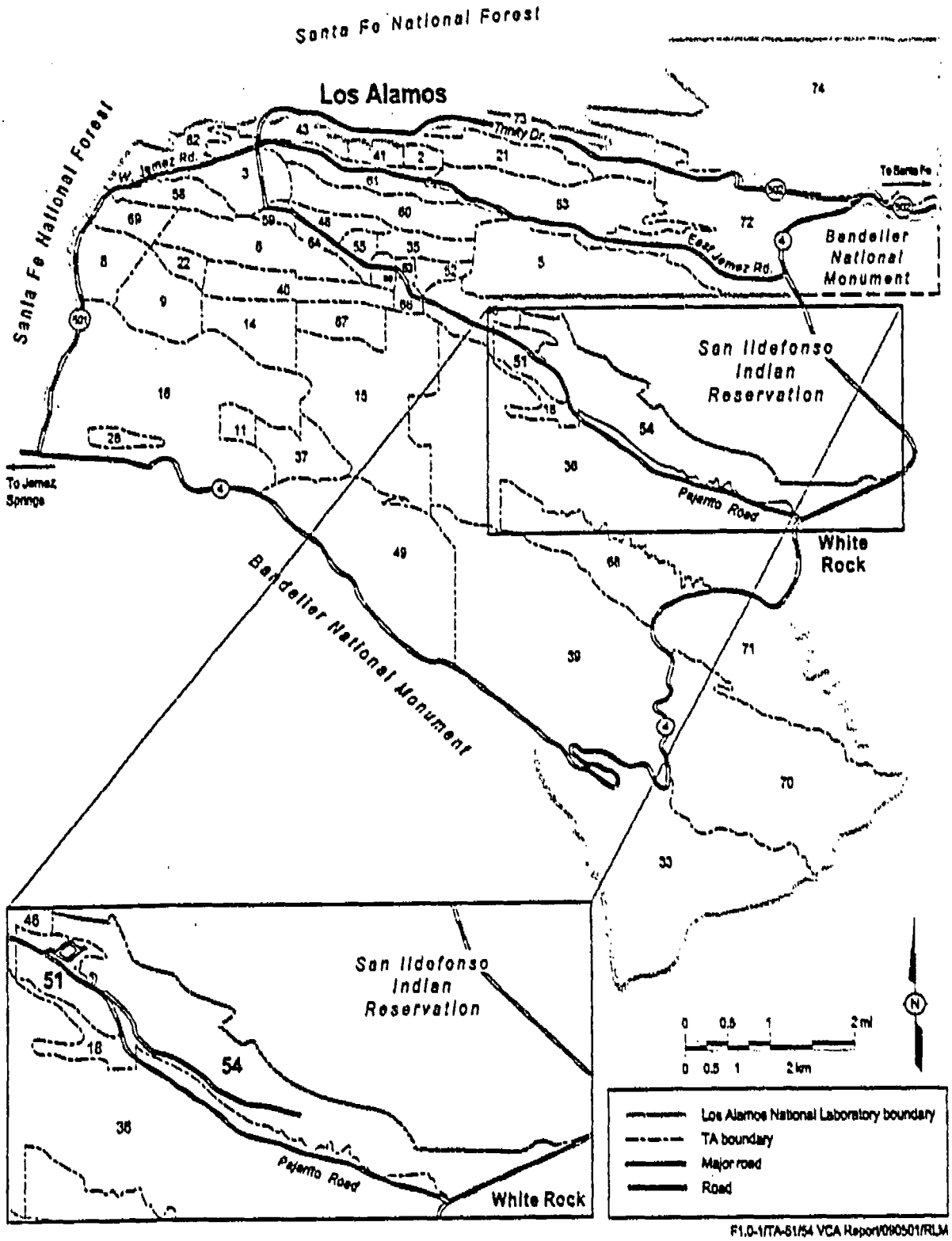


Figure 1.0-1. Locations of TA-51 and TA-54 with respect to other Laboratory technical areas and surrounding land holdings

2.0 PRS 51-001

2.1 Summary

This section presents the site description and operational history, investigation activities, remedial activities, site assessment, conclusions, and recommendations for PRS 51-001.

2.2 Site Description and Operational History

PRS 51-001 at TA-51 was an inactive/abandoned septic system that served the Experimental Engineering Test Facility (EETF) (Buildings 51-11 and 51-12) and the transportable offices for Buildings 51-25, 51-26, and 51-27 (Figure 2.2-1). The septic system consisted of a 1000-gal. concrete septic tank (structure 51-03), drain lines, and a 4-ft-wide x 50-ft-deep seepage pit (structure 51-31). The septic tank was connected to the seepage pit by a 4-in.-diameter vitrified clay pipe (VCP) buried in a 2-ft-wide x 6-in.-deep trench. The VCP was connected to a 4-in. perforated polyvinyl chloride (PVC) drop pipe that extended to within 2 ft of the bottom of the seepage pit. The pit was backfilled with gravel to 8 ft below ground surface (bgs) and covered with compacted fill to grade level.

TA-51 is the base of operations for the EETF, which supports research to develop effective isolation techniques for the burial of wastes in semiarid climates (LANL 1992, 07669). The EETF was built in 1980, and support offices for staff were built in 1986. The septic system was installed in 1988 and was decommissioned in 1993 when the sanitary sewer line was installed as part of the Laboratory's sanitary wastewater consolidation system (SWCS). The effluent now flows to a new manhole west of the septic tank. A greenhouse and laboratory previously occupied Building 12; the building was equipped with sinks and lavatories. Buildings 25, 26, and 27 have housed offices since their construction in 1986. Building 11 housed the Environmental Science Laboratory.

TA-51 is located on Mesita del Buey, a relatively narrow, gently sloping mesa that is bordered on the northeast by Cañada del Buey and on the southwest by Pajarito Canyon. No other PRSs are nearby.

2.3 Previous Activities

2.3.1 Previous Investigations

The septic system was investigated during the 1995 Phase I Resource Conservation and Recovery Act (RCRA) facility investigation (RFI) in accordance with the Operational Unit (OU) 1148 RFI work plan (LANL 1992, 07669).

As part of the RFI, the contents of the septic tank were sampled and analyzed. At that time, between 1 ft and 1.5 ft of liquid and sludge remained in the tank. A borehole then was advanced through the center of the seepage pit to collect tuff samples beneath the pit. However, the gravel layer at the base of the seepage pit prevented the collection of core samples and only a single tuff sample and a duplicate sample were collected from within and around the auger from between 55 ft and 60 ft bgs. Sample locations are shown in Figure 2.3-1. The analytical suite for the sludge and tuff samples included pesticides/polychlorinated biphenyls (PCBs), cyanide, volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), and target analyte list (TAL) metals. The samples were screened for gross alpha, beta, and gamma radiation.

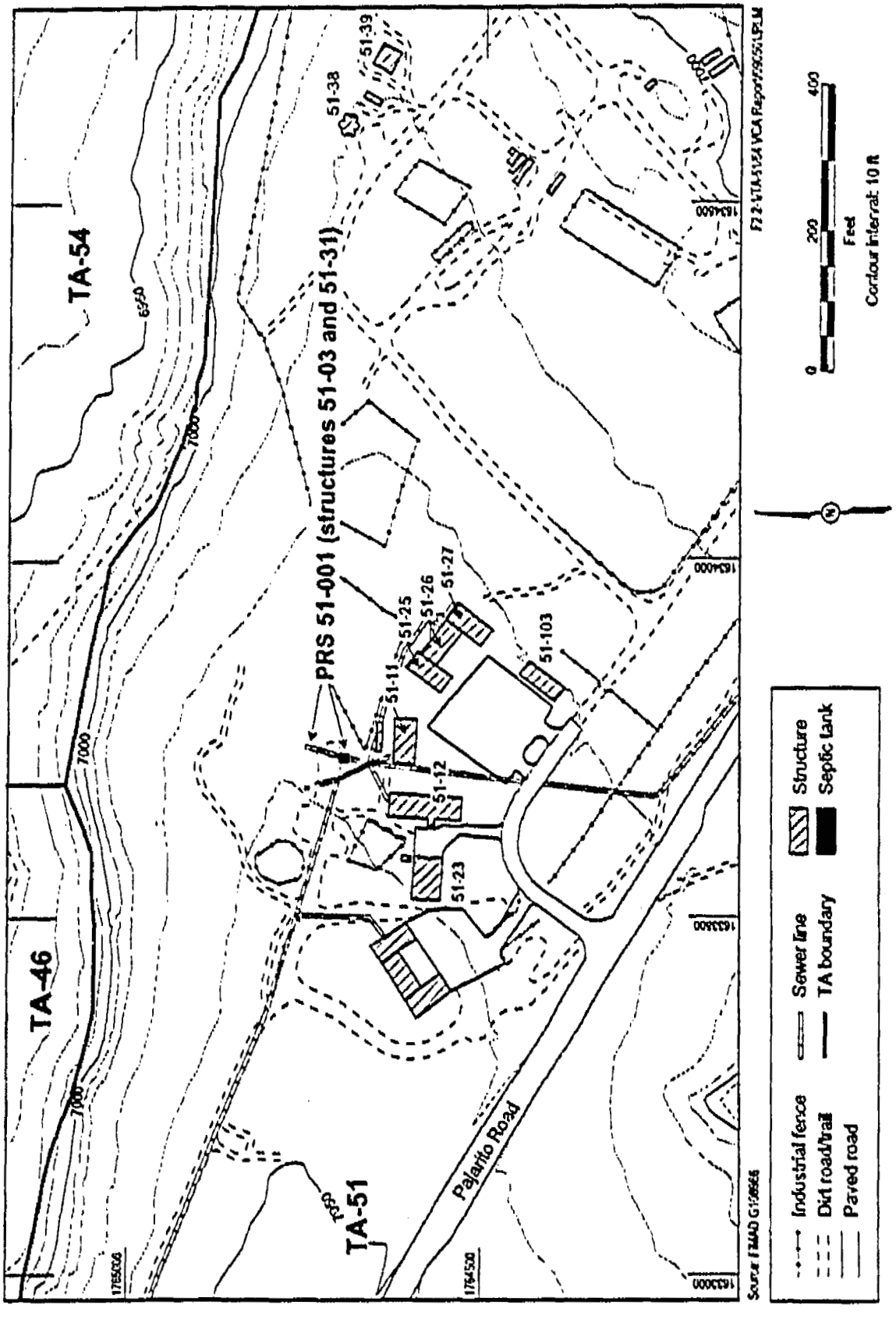


Figure 2.2-1. Location of PRS 51-001 septic system

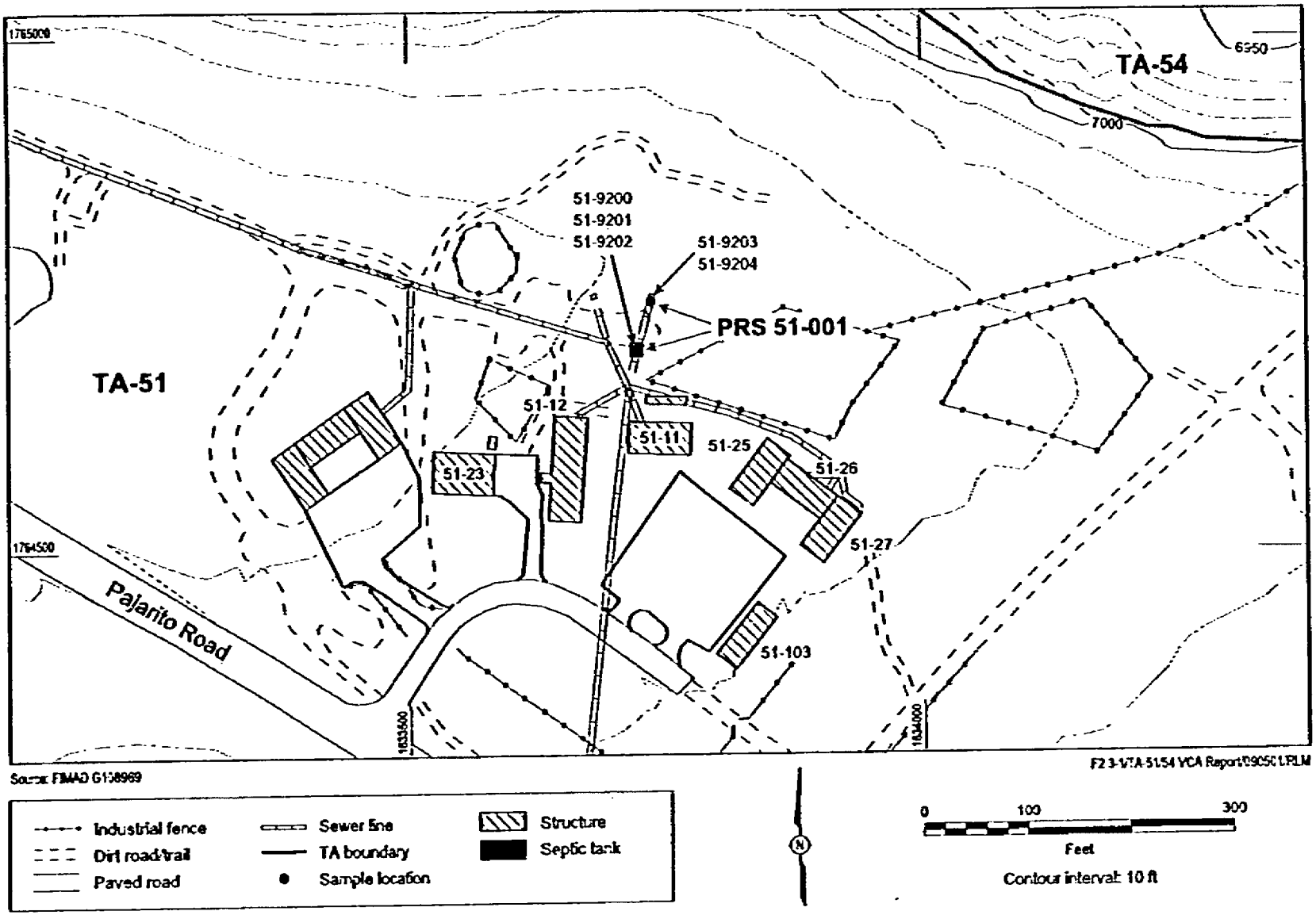


Figure 2.3-1. Sample locations for the 1995 RFI at PRS 51-001

Screening results showed slightly elevated gross beta and gamma radiation in the sludge samples. Analytical results indicated the presence of the organic chemicals chloroethane and dichloroethane in the sludge. However, these organic chemicals were also detected in the rinsate blank, which negates these chemicals as valid detects. No organic chemicals were detected in tuff. Inorganic chemicals were detected in the septic tank contents and tuff. Those in tuff were all below Laboratory background values (BVs) (LANL 1998, 59730). However, antimony, cyanide, mercury, selenium, and silver were retained as chemicals of potential concern (COPCs) for evaluation in Section 2.5, Site Assessment, because detection limits were greater than BVs in tuff (Table 2.3-1). All results for these COPCs were qualified "U" or "UJ," indicating that the chemical was analyzed for but not detected. The numerical values associated with each COPC are "U" (the detection limit) or "UJ" (estimated quantitation limit [EQL]). Data quality is discussed in Appendix C.

Table 2.3-1
Frequency of Detected Inorganic Chemicals During 1995 Phase I RFI, PRS 51-001

Analyte	Media	Number of Analyses	Number of Detects	Concentration Range (mg/kg)[a]	BV (mg/kg)	Frequency of Detects above BV	Frequency of Nondetects above BV
Aluminum	Qbt 3	2	2	1500	7340	0/2	0/2
Antimony	Qbt 3	2	0	11	0.5	0/2	2/2
Arsenic	Qbt 3	2	2	0.37–0.53	2.79	0/2	0/2
Barium	Qbt 3	2	2	14–16	46	0/2	0/2
Beryllium	Qbt 3	2	0	[0.53]	1.21	0/2	0/2
Cadmium	Qbt 3	2	2	[0.53]	1.63	0/2	0/2
Chromium, total	Qbt 3	2	2	2.1	7.14	0/2	0/2
Cobalt	Qbt 3	2	2	[1.1]	3.14	0/2	0/2
Copper	Qbt 3	2	2	1.1–2.1	4.66	0/2	0/2
Cyanide, total	Qbt 3	2	0	[0.53]	0.5	0/2	2/2
Iron	Qbt 3	2	2	2100	14,500	0/2	0/2
Lead	Qbt 3	2	2	12–13	11.1	0/2[b]	0/2
Magnesium	Qbt 3	2	2	210–240	1690	0/2	0/2
Manganese	Qbt 3	2	2	55	482	0/2	0/2
Mercury	Qbt 3	2	0	[0.27]	0.1	0/2	2/2
Nickel	Qbt 3	2	2	2.1	6.58	0.2	0/2
Selenium	Qbt 3	2	0	[1.1]	0.3	0/2	2/2
Silver	Qbt 3	2	0	[2.1]	1	0/2	2/2
Thallium	Qbt 3	2	2	[0.26–0.27]	1.1	0/2	0/2
Vanadium	Qbt 3	2	2	3.2	17	0/2	0/2
Zinc	Qbt 3	2	2	18–19	63.5	0/2	0/2

[a] Values in square brackets indicate nondetected results.

[b] Within range of background concentrations.

2.3.2 Preliminary Conceptual Model

This septic system was gravity-driven (not under pressure); therefore, soil overlying the septic system was not expected to be contaminated. The potential release mechanisms would be seepage through (1) porous joints in drain lines and (2) aggregate rock used to spread tank liquids at the bottom of the seepage pit. Therefore, subsurface soil and/or tuff are identified as the primary potentially contaminated media (Figure 2.3-2). The potential contaminants in the subsurface soil and/or tuff beneath the septic tank, drain lines, and seepage pit would be the same as those found during the characterization of the liquid and sludge remaining in the tank.

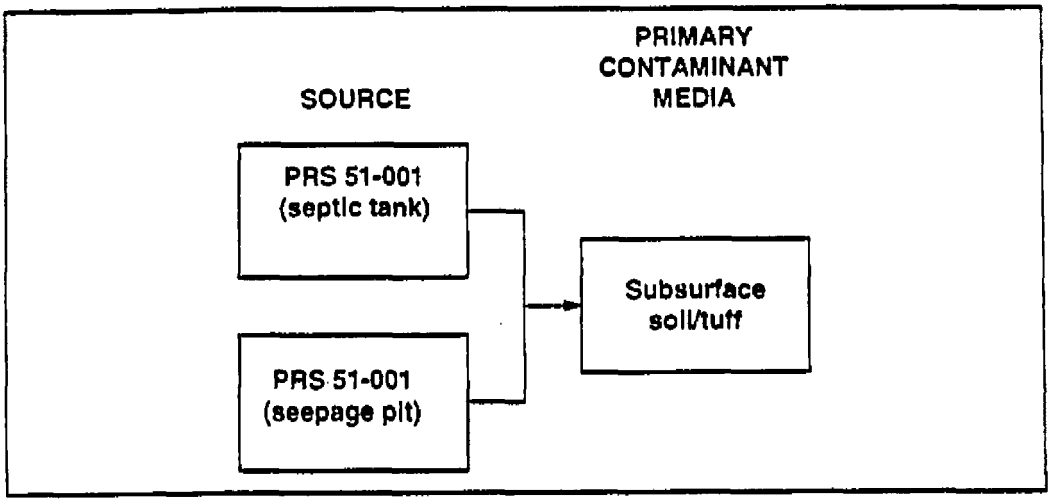


Figure 2.3-2. Preliminary conceptual model of contaminant transport at PRS 51-001

Pathways from subsurface releases to potential human receptors would be complete only if contaminated soil or tuff (Qbt 3) was excavated and brought to the surface. The potential pathways would be dermal contact, inhalation of fugitive dust, and incidental ingestion of soil. Downward migration of contaminants in the vadose zone 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. For PRS 51-001, there is no complete exposure pathway to human and ecological receptors as long as potentially contaminated subsurface media remain undisturbed.

2.4 Remedial Activities

2.4.1 Investigative and Remediation Activities During the VCA

During 2000, the liquid and sludge in the septic tank at PRS 51-001 were sampled and analyzed for pesticides/PCBs, toxicity characteristic leaching procedure (TCLP) metals, TAL metals, VOCs, SVOCs, gamma-emitting radionuclides, tritium, isotopic plutonium, and isotopic uranium. (The volume of liquid and sludge remaining in the tank was unchanged from that observed in 1995.) In accordance with the approved VCA plan (LANL 2000, 70658), the analytical results were used for waste characterization of the septic tank contents and to determine analytical suites for the post-VCA confirmation samples (Table 2.4-1). Seepage pit sample locations were selected to supplement the 1995 RFI data to ensure the determination of nature and extent of contamination.

Table 2.4-1
Analytical Results for the 2000 Sludge and
Liquid Samples Collected from the Septic Tank, PRS 51-001

Sample ID	Matrix	Analyte	Result[a]	Unit
MD51-00-0002	Water	Aluminum	3.01(J+)	mg/L
MD51-00-0002	Water	Antimony	0.0022(J)	mg/L
MD51-00-0002	Water	Arsenic	0.0072(J)	mg/L
MD51-00-0002	Water	Barium	0.185(J)	mg/L
MD51-00-0001	Sludge	Barium	0.0729	mg/L
MD51-00-0002	Water	Benzoic acid	0.002(J-)	mg/L
MD51-00-0002	Water	Beryllium	0.0004(J)	mg/L
MD51-00-0002	Water	Cadmium	0.00065(J)	mg/L
MD51-00-0002	Water	Calcium	125	mg/L
MD51-00-0002	Water	Chromium	0.0159	mg/L
MD51-00-0001	Sludge	Chromium	0.0059	mg/L
MD51-00-0002	Water	Cobalt	0.0121(J)	mg/L
MD51-00-0002	Water	Copper	0.08	mg/L
MD51-00-0002	Water	Di-n-butylphthalate	0.001(J-)	mg/L
MD51-00-0002	Water	Iron	5.11	mg/L
MD51-00-0002	Water	Lead	0.0141	mg/L
MD51-00-0003	Sludge	Lead-212	0.0134	pCi/g
MD51-00-0002	Water	Magnesium	11.6	mg/L
MD51-00-0002	Water	Manganese	0.109	mg/L
MD51-00-0002	Water	Mercury	0.00036	mg/L
MD51-00-0002	Water	Nickel	0.0265(J)	mg/L
MD51-00-0002	Water	Nitrate + nitrite	0.21	mg/L
MD51-00-0004	Water	Plutonium-239	0.0322	pCi/L
MD51-00-0002	Water	Potassium	114	mg/L
MD51-00-0002	Water	Silver	0.0011(J)	mg/L
MD51-00-0002	Water	Sodium	183	mg/L
MD51-00-0002	Water	Trichlorofluoromethane	0.001(J)	mg/L
MD51-00-0003	Sludge	Tritium	177	pCi/g
MD51-00-0004	Water	Tritium	241	pCi/L
MD51-00-0003	Sludge	Uranium-234	0.00472	pCi/g
MD51-00-0004	Water	Uranium-234	4.33(J)	pCi/L
MD51-00-0004	Water	Uranium-235	0.0869	pCi/L
MD51-00-0003	Sludge	Uranium-238	0.00298	pCi/g
MD51-00-0004	Water	Uranium-238	2.65	pCi/L
MD51-00-0002	Water	Vanadium	0.001	mg/L
MD51-00-0002	Water	Zinc	0.177	mg/L

[a] Qualifiers are defined in Appendix C.

Remedial activities for PRS 51-001 began on January 23, 2001, and continued through February 15, 2001. The soil above the septic tank was excavated to a depth of 6 ft bgs to expose the top of the tank. The soil above the tank consisted of engineered fill. The sides of the excavation were benched (sloped back) to prevent soil from sloughing into the excavated area. The concrete tank was 4 ft wide x 8 ft long by 5 ft deep and had two access ports on top. Each access port was approximately 20 in. x 20 in. and was equipped with a culvert access 2.5 ft in diameter and 6 ft long to provide access from the surface. The tank was divided into two compartments (Figure 2.4-1).

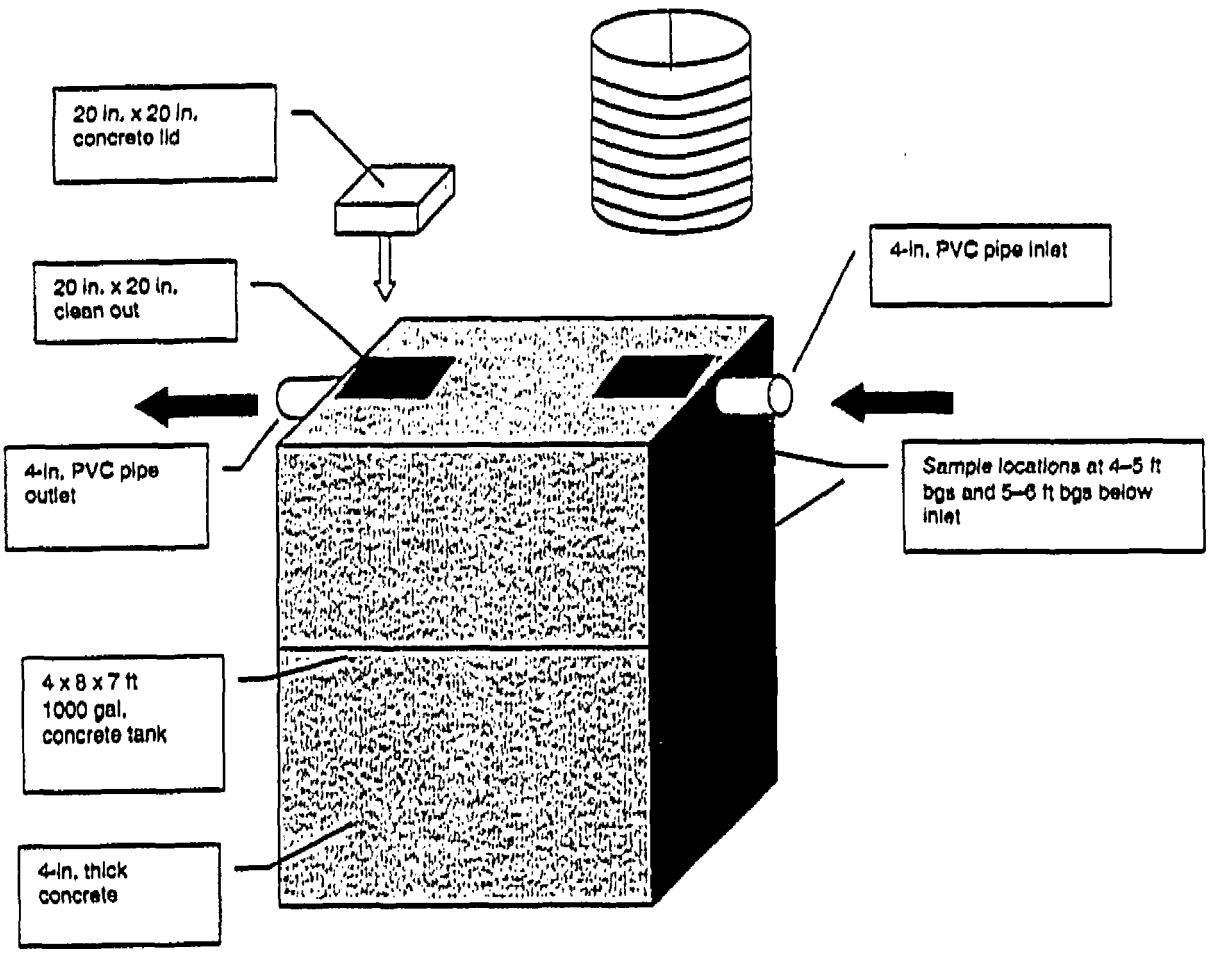


Figure 2.4-1. PRS 51-001 septic tank diagram

The contents of the tank were pumped into liquid-rated 55-gal. drums through a 1/32-in. sieve screen. Captured solids were placed in a 55-gal. drum. The interior of the tank was pressure-washed and wash water was pumped into 55-gal. drums. The interior of the tank was then examined and photographed from the cleanout port. Septic tank wastewater, sludge, and decontamination wash water were removed from the tank using a submersible pump.

The tank was in sound condition with no visible cracking. Both compartments of the tank contained liquid and sludge waste. Sections of the tank were removed from the excavation in the following order: top, sides, and bottom. The tank imprint was only partially visible after removal of the tank because parts of the walls of the excavation had collapsed. There was no staining or excessive moisture in the adjacent soils to indicate leakage from the tank. The PVC inlet and outlet lines were also in sound condition with no visible signs of leakage. The inlet line extended less than 5 ft from the tank.

The tank was collapsed in place and removed using a track excavator. The tank and associated debris (e.g., concrete guard posts and rebar from temporary fencing used during the VCA were placed into a roll-off bin. The tank inlet and outlet lines were plugged with an appropriately sized, permanent, gasket-type, expandable plug.

Seven samples (three soil and four tuff) were collected from two depth intervals at three locations in the tank imprint to determine if there was a release of contaminants from the septic tank (Figure 2.4-2). Two additional soil samples were collected from beneath the inlet pipe to determine if there was a release of contaminants from the pipe (Figure 2.4-2). The samples were submitted to an off-site, fixed analytical laboratory. Table 2.4-2 lists sample and location IDs and the analytical suites. A 6-in. layer of gravel was placed in the bottom of the tank excavation; the excavation was then back filled with excavated soil.

The top of the seepage pit was excavated with a backhoe to verify the pit's location. Two boreholes (51-10000 and 51-10001) were drilled 7.5 ft (one to the northeast and one to the northwest) from the center of the seepage pit and two tuff samples were collected from each borehole at depths of 49 ft–50 ft and 59 ft–60 ft (Figures 2.4-2 and 2.4-3). The tuff samples were submitted to an off-site, fixed analytical laboratory. Table 2.4-2 lists sample identifications (IDs) and locations and presents the analytical suites for these samples. Tuff samples were collected at the 49-ft to 50-ft depth instead of the 40-ft depth, as stated in the VCA plan, because the bottom of the seepage pit was at 50 ft. In addition, a sample at this depth and at the 59-ft to 60 ft sample were more likely to detect a potential release.

2.4.2 Data Review for VCA Samples

The 2000 waste characterization sample results (Table 2.4-1) were used to define the analytical suite for the VCA samples; the analytical suites for the VCA included isotopic plutonium, isotopic uranium, gamma-emitting radionuclides, tritium, strontium-90, pH, VOCs, and SVOCs. VCA sample results are discussed in the following sections and are presented in Appendix D. In accordance with the approved VCA plan (LANL 2000, 70658), confirmation samples were not analyzed for inorganic chemicals because they were not detected above BVs in the 1995 RFI samples (Table 2.3-1).

2.4.2.1 Inorganic Chemical Comparison with Background

As stated in Section 2.4.2, inorganic chemicals were not analyzed for in the 2001 VCA confirmation samples.

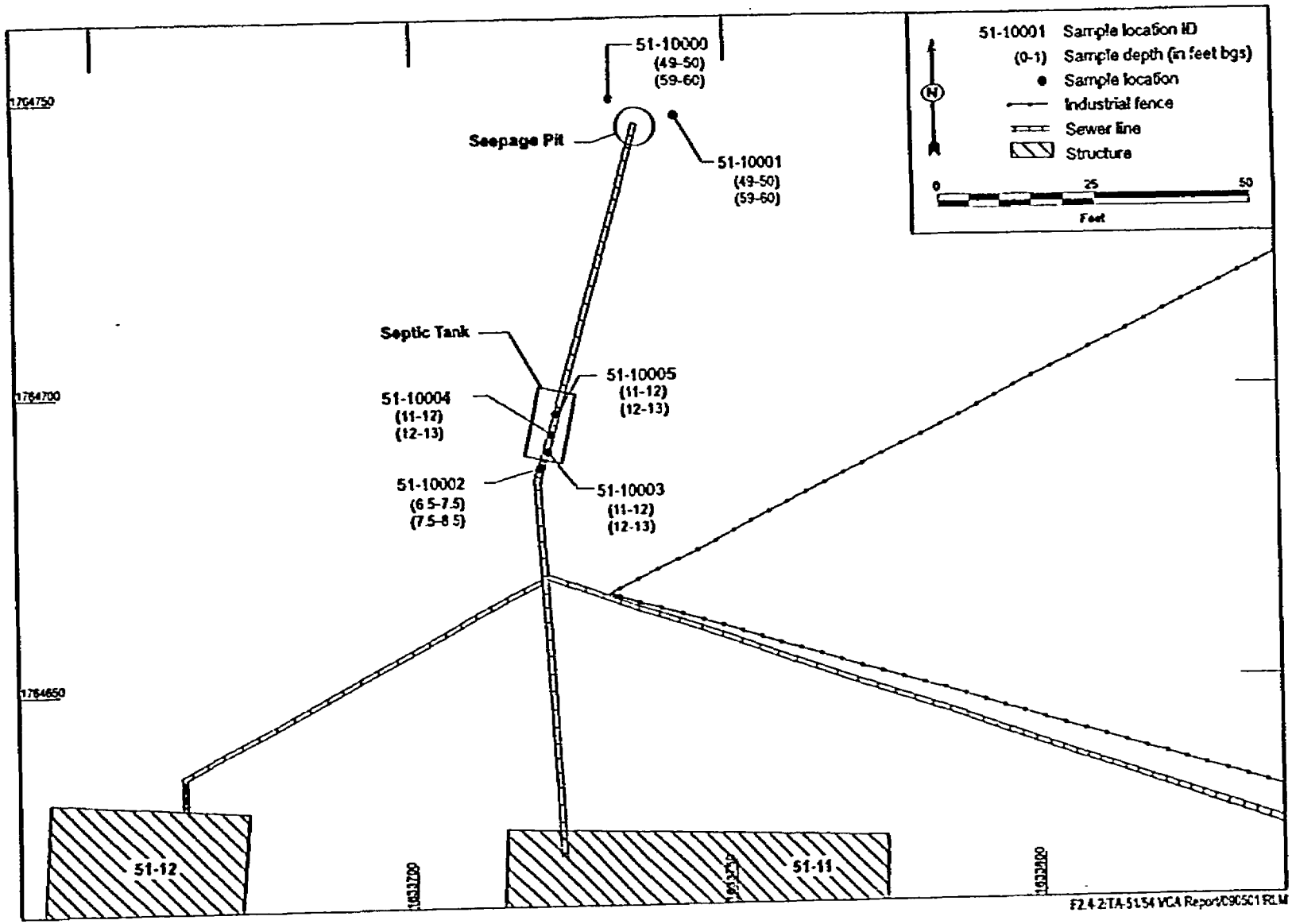


Figure 2.4-2. VCA sample locations at PRS 51-001

Table 2.4-2
Summary of Samples Collected for Fixed Laboratory Analysis During the VCA, PRS 51-001

Sample ID	Location ID	Sample Location	VOC	SVOC	ISOU[a], ISOPU[b], Gamma-Emitting Radionuclides, Tritium, Strontium-90	Collection Date
MD51-01-0001	51-10000	NW of borehole, 49–50 ft bgs	x[c]	x	x	2/13/01
MD51-01-0002	51-10000	NW of borehole, 59–60 ft bgs	x	x	x	2/13/01
MD51-01-0003	51-10001	NE of borehole, 49–50 ft bgs	x	x	x	2/13/01
MD51-01-0004	51-10001	NE of borehole, 59–60 ft bgs	x	x	x	2/13/01
MD51-01-0006	51-10002	Inlet pipe, 7.5–8.5 ft bgs	x	x	x	2/5/01
MD51-01-0007	51-10003	Tank imprint, 11–12 ft bgs, south end	x	x	x	2/5/01
MD51-01-0008	51-10003	Tank imprint, 12–13 ft bgs, south end	x	x	x	2/5/01
MD51-01-0009	51-10004	Tank imprint, 11–12 ft bgs, center	x	x	x	2/5/01
MD51-01-0010	51-10004	Tank imprint, 12–13 ft bgs, center	x	x	x	2/5/01
MD51-01-0011	51-10005	Tank imprint, 11–12 ft bgs, north end	x	x	x	2/5/01
MD51-01-0012	51-10005	Tank imprint, 12–13 ft bgs, north end	x	x	x	2/5/01
MD51-01-0015	51-10005	Tank imprint, 12–13 ft bgs, north end	x	x	x	2/5/01

[a] ISOU = Isotopic uranium.
[b] ISOPU = Isotopic plutonium.
[c] x=Samples were collected for this analyte.

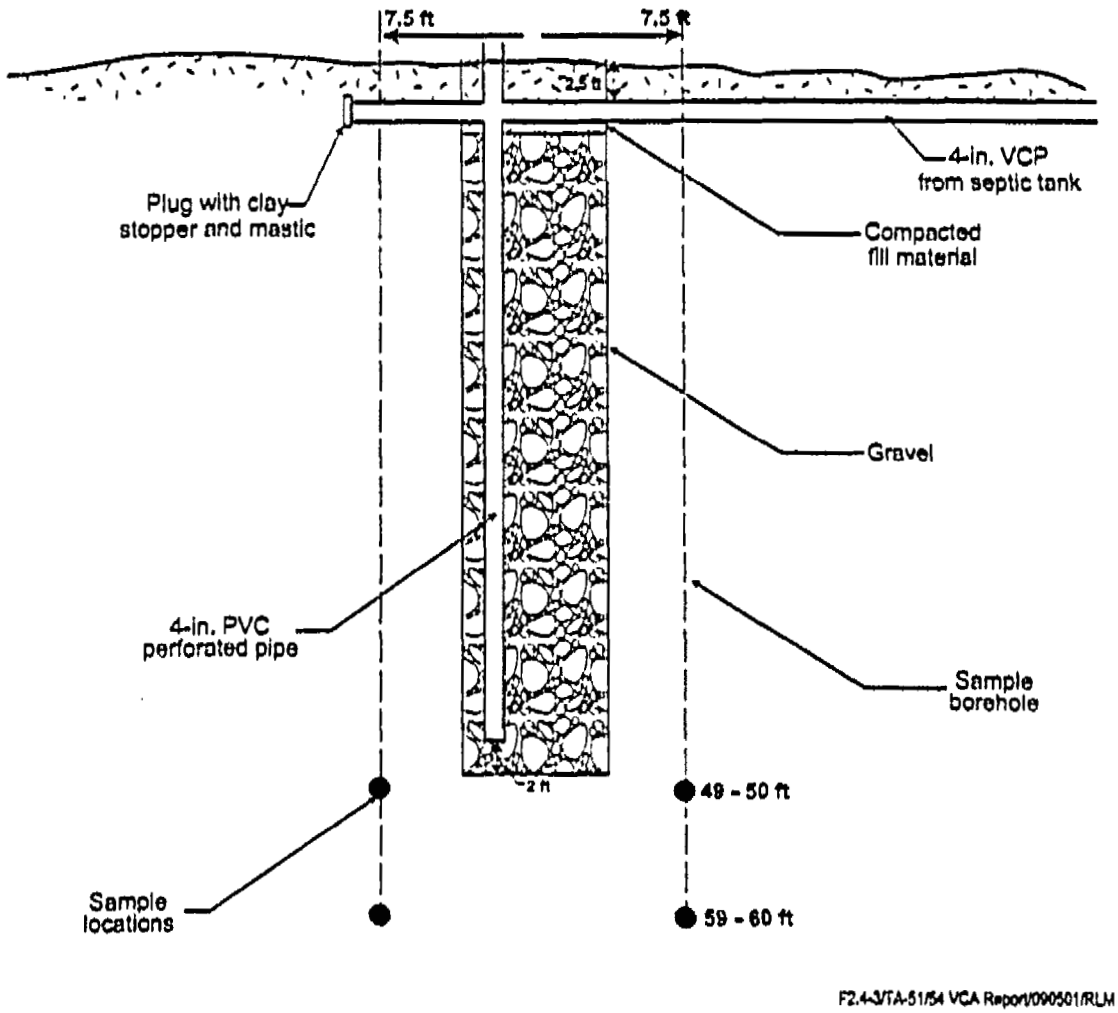


Figure 2.4-3. VCA sample locations at the PRS 51-001 seepage pit

2.4.2.2 Radionuclide Comparison with Background/Fallout Radionuclide Concentration

All detects for uranium-235 were qualified as estimated (J) because the reported values were less than reporting limits but above the method detection limits. There were no other radionuclide data quality issues. Data quality is discussed in Appendix C.

Uranium isotopes (uranium-234, uranium-235, and uranium-238) were detected below Laboratory background levels for soil and tuff in the septic tank imprint samples (locations 51-10003, 51-10004, and 51-10005) and beneath the inlet pipe.

Uranium-234 and uranium-238 were detected below Laboratory background levels for soil and tuff in samples collected beneath the inlet pipe (location 51-10002).

Tritium was detected at 594 pCi/L (sample MD51-01-0015, location 51-10005) in a soil sample in the tank imprint at depth (11 ft–12 ft). Cesium-137 was detected at 0.076 pCi/g (sample MD51-01-0006, location 51-10002) in a soil sample at a 1–2 ft depth below the inlet pipe (7.5–8.5 ft bgs). Tritium and cesium-137

do not have Laboratory fallout values for samples collected below 0–6 inches and, consequently, were retained as COPCs (Figure 2.4-4). All other detected activities were below Laboratory background/fallout values or not detected at depth. Table 2.4-3 presents the frequency of detected radionuclides.

2.4.2.3 Evaluation of Organic Chemicals

All detected organic chemicals were qualified as estimated (J) because the reported values were less than the reporting limits but above the method detection limits. The data quality is discussed in Appendix C.

Table 2.4-4 presents the frequency of detected organic chemicals. These detected organic chemicals are presented by sample ID in Table 2.4-5 and were retained as COPCs. Figure 2.4-4 shows sample locations of detected organic chemicals.

2.4.3 Revised Site Conceptual Model

The results of the VCA confirmed the preliminary conceptual model for PRS 51-001 so no revisions are necessary. The preliminary conceptual model identified potential release mechanisms as seepage through (1) porous joints in drain lines and (2) the intended release of the septic tank contents to the aggregate rock used to spread liquids at the bottom of the seepage pit. When the tank was excavated and inlet and outlet lines were inspected, they were intact, and no soil staining was observed. The only nonqualified contaminant detected in confirmatory sampling was tritium. Tritium was detected in the liquids and sludge in the tank and in the imprint below the tank, indicating that tritium bled from the tank. Cesium-137 was detected in 1 of 6 soil samples, but not in tank contents. It is likely that the source for this cesium, even at 7–8 ft bgs, was global fallout and was not related to any site activities.

2.4.3.1 Nature and Extent of Contamination

Acetone was detected adjacent to the seepage pit at locations 51-10000 and 51-10001, while bromomethane, 2-butanone, and trichlorofluoromethane were detected only at location 51-10001.These analytical results were all reported below the estimated quantitation limits (EQL). Uranium isotopes (uranium-234, uranium-235, and uranium-238) were detected below Laboratory background levels for tuff in the borehole samples adjacent to the seepage pit (locations 51-10000 and 51-10001).

Uranium isotopes (uranium-234, uranium-235, and uranium-238) were detected below Laboratory background levels in the septic tank imprint samples (locations 51-10003, 51-10004, and 51-10005). Acetone (0.01[J] mg/kg)], and trimethylbenzene[1,2,3-] (0.0015[J] mg/kg) were detected in the septic tank imprint at location 51-10005.

Uranium-234 and uranium-238 were detected below Laboratory background levels for soil in samples collected beneath the inlet pipe (location 51-10002).

Tritium was detected in sludge (177 pCi/gm) and liquid (241 pCi/L) during the waste characterization sampling in 2000. During the VCA, they also were detected in the tank footprint at 594 pCi/L at 11–12 ft bgs (sample ID MD51-01-0015) but were undetected at 12 ft–13 ft bgs (sample ID MD51-01-0010), which indicates a decreasing trend. Tritium can readily migrate through a concrete tank. Tritium is an isotope of hydrogen and readily incorporates into water; it will migrate either in the liquid or vapor phase and is highly mobile. Cesium-137 was not detected in the tank contents but was detected in one soil sample at 0.076 pCi/g (sample ID MD51-01-0006). No detections were reported in five other soil samples and eight tuff samples. It is likely that the cesium-137 was redistributed from the surface to the soil underlying the inlet pipe or that it reflects global fallout in engineered fill placed beneath the pipes.

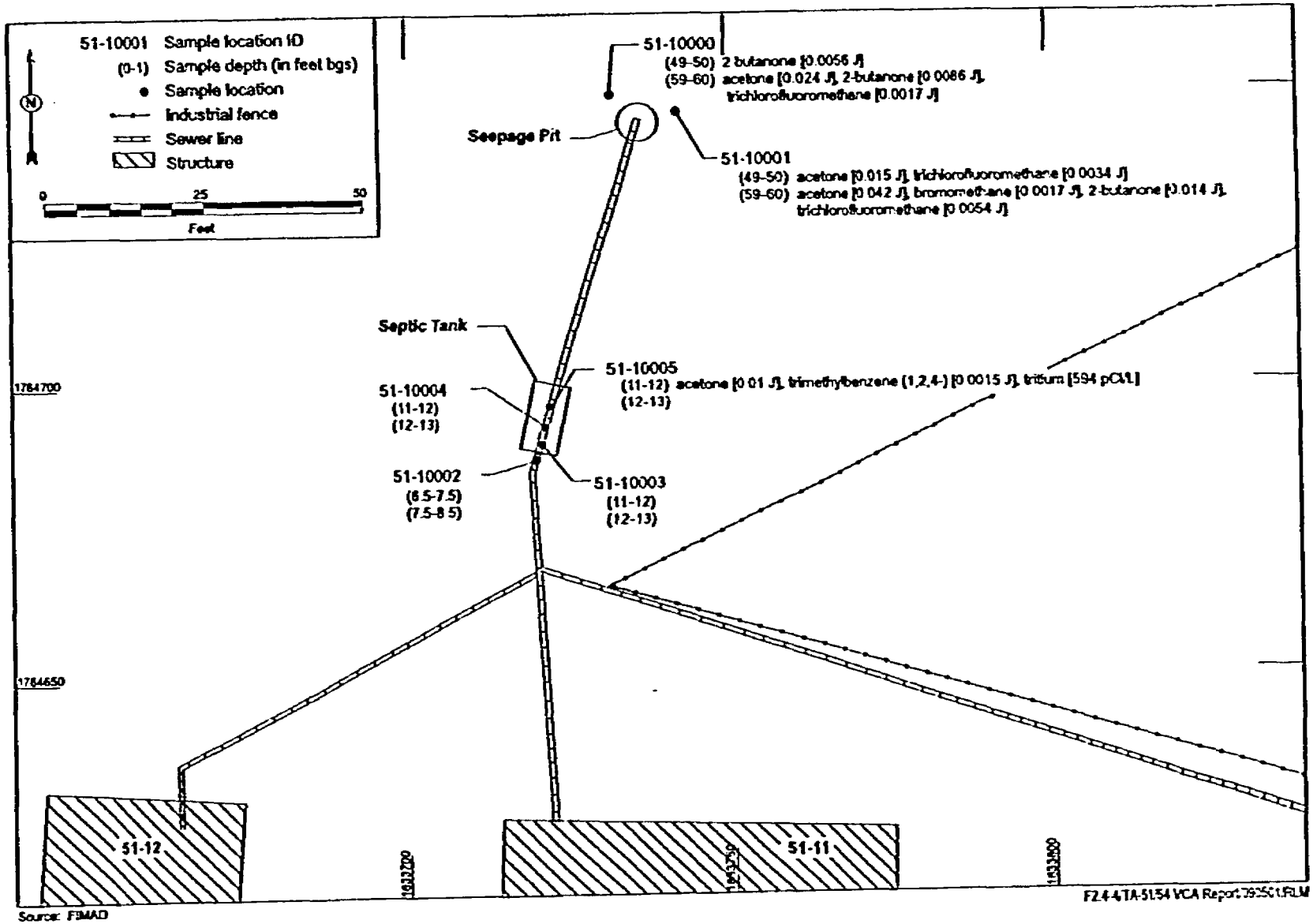


Figure 2.4-4. Sample locations, detected organic chemicals (mg/kg), and tritium at PRS 51-001

Table 2.4-3
Frequency of Detected Radionuclides in Samples Collected During the VCA, PRS 51-001

Analyte	Media	Number of Analyses	Number of Detects	Concentration Range (pCi/g)[a]	Background/ Fallout Value (pCi/g)
Americium-241	Soil	6	0	[-0.00968–0.0283]	n/a [b]
Americium-241	Qbt 3	8	0	[-0.0712–0.0808]	n/a
Cesium-134	Soil	6	0	[-0.00904–0.0107]	n/a
Cesium-134	Qbt 3	8	0	[-0.0303–0.0371]	n/a
Cesium-137	Soil	6	1	[-0.00374]–0.0761	n/a
Cesium-137	Qbt 3	8	0	[-0.0266–0.0132]	n/a
Cobalt-60	Soil	6	0	[-0.0142–0.00914]	n/a
Cobalt-60	Qbt 3	8	0	[-0.0146–0.00838]	n/a
Europium-152	Soil	6	0	[-0.0202–0.0089]	n/a
Europium-152	Qbt 3	8	0	[-0.0903–0.0406]	n/a
Plutonium-238	Soil	6	0	[0–0.012]	n/a
Plutonium-238	Qbt 3	8	0	[-0.00229–0.0136]	n/a
Plutonium-239	Soil	6	0	[-0.00239–0.0131]	n/a
Plutonium-239	Qbt 3	8	0	[-0.00344–0.00259]	n/a
Ruthenium-106	Soil	6	0	[-0.0841–0.0745]	n/a
Ruthenium-106	Qbt 3	8	0	[-0.149–0.0402]	n/a
Strontium-90	Soil	6	0	[-0.00367–0.198]	n/a
Strontium-90	Qbt 3	8	0	[-0.0122–0.345]	n/a
Tritium	Soil	6	1	[-273–765](pCi/L)	n/a
Tritium	Qbt 3	8	0	[-61.4–295](pCi/L)	n/a
Uranium-234	Soil	6	5	0.574–0.931	2.59
Uranium-234	Qbt 3	8	8	0.77–1.03	1.98
Uranium-235	Soil	6	2	[0.0172]–0.0394	0.2
Uranium-235	Qbt 3	8	8	0.0226–0.058	0.09
Uranium-238	Soil	6	5	0.587–0.864	2.29
Uranium-238	Qbt 3	8	8	0.815–1	1.93

[a] Values in square brackets indicate nondetected results.
[b] n/a=Fallout values are not available at depths below 0–6 in.

Table 2.4-4
Frequency of Detected Organic Chemicals in Samples Collected During the VCA, PRS 51-001

Analyte	Medium	Number of Analyses	Number of Detects	Concentration Range (mg/kg)[a]	EQL[b] (mg/kg)	Frequency of Detects
Acetone	Soil	6	1	0.01–[0.024]	0.02	1/6
Acetone	Qbt 3	8	4	0.015–0.042	0.02	4/8
Bromomethane	Qbt 3	8	1	0.0017–[0.015]	0.01	1/8
2-Butanone	Qbt 3	8	4	0.0056–[0.029]	0.02	4/8
Trichlorofluoromethane	Qbt 3	8	3	0.0017–[0.014]	0.005	3/8
Trimethylbenzene [1,2,4-]	Soil	6	1	0.0015–[0.0059]	0.005	1/6

[a] Values in square brackets indicate nondetected results.
[b] EQL=estimated quantitation limit.

Table 2.4-5
Detected Organic Chemicals During the VCA, PRS 51-001

Sample ID	Location ID	Depth (ft)	Media	Acetone (mg/kg)	Bromomethane (mg/kg)	Butanone[2-] (mg/kg)	Trichlorofluoromethane (mg/kg)	Trimethylbenzene[1,2,4-] (mg/kg)
MD51-01-0001	51-10000	49.0–50.0	Qbt 3	—[a]	—	0.0056(J)	—	—
MD51-01-0002	51-10000	59.0–60.0	Qbt 3	0.024(J)	—	0.0086(J)	—	—
MD51-01-0017	51-10000	59.0–60.0	Qbt 3	0.023(J)	—	0.0079(J)	0.0017(J)	—
MD51-01-0003	51-10001	49.0–50.0	Qbt 3	0.015(J)	—	—	0.0034(J)	—
MD51-01-0004	51-10001	59.0–60.0	Qbt 3	0.042(J)	0.0017(J)	0.014(J)	0.0054(J)	—
MD51-01-0015	51-10005	11.0–12.0	Soil	0.01(J)	—	—	—	0.0015(J)

[a] A dash indicates that the analyte was not detected.

Analytical results indicated very low concentrations of organic COPCs, all of which were detected below their EQLs. Except for trichlorofluoromethane, the organic chemicals detected could not have originated from the PRS 51-001 septic system because they were not detected in the septic tank contents. Trichlorofluoromethane concentrations were below EQLs; therefore, additional sampling for extent is not warranted at PRS 51-001.

2.4.3.2 Environmental Fate

The evaluation of environmental fate addresses the chemical processes that affect the persistence of a chemical in the environment. Table 2.4-6 presents data on the vapor pressure and solubility of the organic compounds. The evaluation of transport addresses the physical processes affecting mobility

along the migration pathway. Physicochemical properties such as vapor pressure and solubility in water are important in evaluating chemical mobility.

Table 2.4-6
Physicochemical Properties for Organic COPCs, PRS 51-001

Name	Vapor Pressure (mmHg)[a]	Solubility (g/100mL)[b]
Acetone	231	Miscible[c]
Bromomethane	1420[d]	1.522
2-Butanone	91	25.6
Trichlorofluoromethane	803	0.124
Trimethylbenzene [1,2,4]	2.1	Insoluble[e] <0.001

[a] HSDB (2001, 63385).
[b] Chemfinder.com 2001, 70072.
[c] Miscible=capable of being mixed evenly.
[d] Merck (1989, 34771).
[e] Lewis (1987, 34770).

Cesium-137 has a half-life of 30.2 yr and tritium has a half-life of 12.3 yr (Eisenbud and Gesell 1997, 70130). Cesium-137 is tightly bound by clay minerals in soil so the cesium-137 remains relatively immobile and unavailable to receptors (Eisenbud and Gesell 1997, 70130). However, cesium-137 can be transported by runoff and redeposited. Tritium exists in a liquid or gaseous form and is highly mobile by volatilization or movement with water. Both radionuclides were detected in only one sample and were not detected in the samples collected at deeper depths. Therefore, the extent of the radionuclide releases has been determined and the radionuclides detected at PRS 51-001 have not been transported beyond the initial site of deposition (Eisenbud and Gesell 1997, 70130).

The following information, summarized from Ney (1995, 58210), is presented to give an indication of the potential fate and transport tendencies of organic chemicals.

Water Solubility. Water solubility is perhaps the most important chemical characteristic used to assess chemical mobility. 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 solubility greater than 0.1 grams per 100 milliliters (g/100mL) are more prone to biodegradation and metabolism. Chemicals with low water solubilities, less than 0.001g/100mL, are more likely to be immobilized by way of adsorption.

Vapor Pressure. Chemicals with vapor pressure greater than 0.01 millimeters mercury (mmHg) are more likely to volatilize and diffuse through the soil pore gas with potential release to the atmosphere. Chemicals with vapor pressure less than 0.000001 mmHg are less likely to volatilize and, therefore, would tend to remain immobile.

Trimethylbenzene[1,2,4] has low water solubility, indicating that this chemical is not highly mobile in percolating water. Acetone, bromomethane, 2-butanone, and trichlorofluoromethane have high vapor pressures indicating that the dominant phase of these chemicals is gaseous, and they are present mainly

in soil pore gas. Most of the detected organic chemicals will biodegrade readily in soil, with half-lives ranging from one day to four weeks. Trichlorofluoromethane is the exception with a half-life in soil of 6–12 months (Howard et al. 1991, 57902).

Based on a review of literature data, the organic chemicals listed in Table 2.4-6 can be expected to biodegrade in soil as their estimated half-lives range between 1 day and 1 yr (Howard et al. 1991, 57902). In addition, the mass available for migration at these sites is extremely low, as demonstrated by detections less than EQLs and the amount of soil water percolating through the soil at the site is limited due to high evapotranspiration rates and the semiarid climate. Based on the physicochemical properties and site conditions, it is unlikely that these organic chemicals were transported off-site.

2.5 Site Assessments

2.5.1 Screening Assessments

The human health and ecological screening assessments are used in this VCA report to determine if COPC concentrations result in potential unacceptable risk to receptors. The human health screening assessment is conducted according to the approach outlined in Chapter 3 of approved IWP (LANL 1998, 62060.4). The ecological screening assessment is based on the methodology described in "Screening Level Ecological Risk Assessment Methods" (1999, 64783).

2.5.1.1 Human Health

A human health screening assessment is used in this VCA report to determine if COPC concentrations result in potential unacceptable risk to receptors. The human health screening assessment is conducted according to the approach outlined in Chapter 3 of the IWP (LANL 1998, 62060.4).

(a) Scoping

Land use at PRS 51-001 is currently industrial and will remain so in the future as the site is expected to remain under Laboratory control. Future land use of the site is described in the Laboratory site development plan (LANL 1995, 57224).

The potential at this site for human exposure to contaminants in the environment is very low because contamination is in the subsurface, and public access to this site is limited. As indicated by the preliminary conceptual model (Section 2.3.2), exposure pathways are complete only if contaminated media were excavated and brought to the surface. Potential exposure pathways included inhalation of particulates and vapors; incidental ingestion of soil; and dermal contact with the soil.

(b) Screening Evaluation

The maximum detected concentration for each COPC was compared with the appropriate screening action level (SAL). The SALs for nonradionuclides were calculated based on the methodology in Appendix C of the approved IWP (LANL 1998, 62060.4) or in New Mexico Environment Department (NMED) guidance (NMED 2000, 68554). The parameters used include the most current values available as presented in US Environmental Protection Agency (EPA) Region 6 and/or NMED guidance (EPA 2000, 68410; NMED 2000, 68554). The SALs for radionuclide COPCs used in this evaluation were calculated using the RESRAD computer code and based on the approach described in "Derivation and Use of Radionuclide Screening Levels" (LANL 2001, 69683). All SALs reflect a residential exposure scenario in which exposure is based on 24 hr/day for 350 days/yr. The comparison is done separately for

noncarcinogens, carcinogens, 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 a radiation dose of 15 mrem/yr. The maximum concentration of each COPC was compared with the SAL for carcinogens and for radionuclides and 0.1 SAL for noncarcinogens because more than two noncarcinogenic COPCs have been identified. The comparison with SALs is shown in Tables 2.5-1 and 2.5-2 for noncarcinogenic and radionuclide COPCs, respectively. No carcinogens were identified as COPCs at PRS 51-001.

Table 2.5-1
Comparison of Noncarcinogenic COPCs to SALs, PRS 51-001

Analyte	Location ID	Sample ID	Depth (ft bgs)	Maximum Sample Value (mg/kg)	SAL (mg/kg)	0.1 SAL (mg/kg)
Acetone	51-10001	MD51-01-0004	59–60	0.042(J)	1600	160
Bromomethane	51-10001	MD51-01-0004	59–60	0.0017(J)	7.3	0.73
2-Butanone	51-10001	MD51-01-0004	59–60	0.014(J)	37,000	3700
Trichlorofluoromethane	51-10001	MD51-01-0004	59–60	0.0054(J)	390	39
Trimethylbenzene[1,2,4-]	51-10005	MD51-01-0015	11–12	0.0015(J)	52	5.2
Antimony	51-09203	0551-95-2016	59-60	11(UJ)	30	3
Cyanide	51-09203	0551-95-2016	59–60	0.53 U)	1200	120
Mercury	51-09204	0551-95-2016	59–60	0.27(U)	23	2.3
Selenium	51-09203	0551-95-2016	59–60	1.1(U)	380	38
Silver	51-09204	0551-95-2016	59–60	2.1(U)	380	38

Table 2.5-2
Comparison of Radionuclide COPCs to SALs, PRS 51-001

Analyte	Location ID	Sample ID	Depth (ft bgs)	Maximum Sample Value (pCi/g)	SAL (pCi/g)
Cesium-137	51-10002	MD51-01-0006	7–8	0.076	5.3
Tritium	51-10005	MD51-01-0015	11–12	0.013[a]	880

[a] Reported sample value was 594 pCi/L (5.94×10^{1} pCi/ml). This is converted to picocuries per gram, to be consistent with the SAL, according to the following equation:

Concentration (pCi/g) = Concentration (pCi/mL) x m/(100 - m)
where m = percent moisture in sample (2.2% in tritium sample).

The concentrations of detected noncarcinogenic COPCs were less than 0.1 of their respective SALs (Table 2.5-1). Antimony was not detected, but had a detection limit of 11 mg/kg. This detection limit was above the soil BV of 0.83 mg/kg and 0.1 SAL (3 mg/kg), but less than the soil SAL of 30 mg/kg (Table 2.5-1). The other nondetected noncarcinogenic COPCs (cyanide, mercury, silver, and selenium) had detection limits less than 0.1 SAL (Table 2.5-1). The radionuclide COPCs, cesium-137 and tritium, were detected below their SALs (Table 2.5-2).

(c) Uncertainty Analysis

The analysis presented in this human health screening assessment is subject to varying degrees and kinds of uncertainty. The uncertainties associated with the data evaluation, exposure assessment, toxicity assessment, and the additive approach may affect the results.

Data Evaluation and COPC Identification Process. Uncertainties associated with the data can include sampling errors, laboratory analysis errors, and data analysis errors; however, for this PRS, these uncertainties are expected to have little effect on the results. All the detected concentrations of organic compounds were qualified J, indicating that the values were less than EQLs and could only be estimated. Several inorganic chemicals had elevated detection limits above their soil BVs, which probably overestimates the concentration of these COPCs in the soil. Except for antimony, the detection limits were less than 0.1 SAL. The antimony detection limit is greater than 0.1 SAL, but less than the SAL of 30 mg/kg. Therefore, although the analytical results for these inorganic COPCs are uncertain, they do not pose a potential unacceptable risk to human health and are eliminated from further evaluation.

Exposure Assessment. Uncertainties were identified in two areas of the exposure assessment process:

- Identification of Receptors. Land-use and activity patterns are not represented by those assumed in the residential land-use scenario; therefore, uncertainties are introduced. If the potentially exposed individual is an industrial worker, the screening assessment overestimates the exposure and subsequently overestimates the potential hazard and risk.

- Derivation of Exposure Point Concentrations. Maximum detected concentrations are used for comparison with SALs. This approach results in an overestimation of the concentration that represents exposure over the entire site. It also results in an overestimation of the potential risk to human health.

Toxicity Values. EPA toxicity values (reference doses [RfDs] and slope factors [SFs]) were used to derive the nonradiological SALs used in this risk screening assessment (EPA 1997, 58968.1). Uncertainties were identified in three areas:

- Extrapolation from Animals to Humans. The SFs and RfDs are often determined based on extrapolation from animal data to humans, which may result in uncertainties in toxicity values because differences can exist in chemical absorption, metabolism, excretion, and toxic response. The EPA takes into account differences in body weight, surface area, and pharmacokinetic relationships between animals and humans to minimize the potential to underestimate the dose-response relationship; however, more conservatism is usually incorporated into these steps.

- Extrapolation from One Route of Exposure to Another Route of Exposure. The SFs and RfDs can contain extrapolations from one route of exposure to another. An extrapolation from the oral route to the inhalation and/or the dermal routes is used, which is consistent with the NMED and EPA Region 6 guidance (NMED 2000, 68554; EPA 2000, 68410). A number of differences between these exposure pathways (e.g., chemical absorption) could result in an overestimation of the risk.

- Interindividual Variability in the Human Population. For noncarcinogenic effects, the amount of human variability in physical characteristics is important in determining the risks that can be expected at low exposures and in determining the no observed adverse effect level (NOAEL). The NOAEL/uncertainty factor approach incorporates a 10-fold factor to reflect the possible interindividual variability in the human population and is generally considered a conservative estimate.

Additive Approach. For noncarcinogens, the effects of a mixture of chemicals are generally unknown, and possible interactions could be synergistic or antagonistic, thereby overestimating or underestimating the risk. Additionally, the RfDs for different chemicals are based on different severity, effect, or target organ. Therefore, the potential for occurrence of noncarcinogenic effects can be overestimated for chemicals that act by different mechanisms and on different target organs but are addressed additively.

(d) Interpretation

At PRS 51-001, all detected concentrations of the organic noncarcinogenic COPCs were below 0.1 of their respective SALs. Except for antimony, the nondetected COPCs had detection limits less than 0.1 SAL. Antimony had a detection limit greater than 0.1 SAL, but less than its SAL. The potential noncarcinogenic hazard from these COPCs (detected and undetected) was less than a hazard index (HI) of 1.0. Radionuclides cesium-137 and tritium, were detected at concentrations less than their SALs. Therefore, there is no unacceptable risk to human health from COPCs at PRS 51-001.

2.5.1.2 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

An ecological scoping checklist (Appendix H) was completed early in the assessment process and was a useful tool for organizing existing ecological information. This information was used to determine whether or not ecological receptors at this site might be affected, identify the type of receptors that might be present (i.e., terrestrial and/or aquatic), determine whether PRS 51-001 should be aggregated with other PRSs, and develop the ecological site conceptual model for PRS 51-001.

The scoping evaluation establishes the breadth and focus of the screening assessment. One result of the scoping process is an ecological site conceptual model (ESCM) for PRS 51-001. An ESCM was not developed for this site because there are no complete exposure pathways.

PRS 51-001 is located in a highly disturbed area of the mesa top. The habitat quality is considered poor and the vegetation class is designated developed. Scattered grasses and shrubs characterize the undisturbed portions of the site, with mature piñon and juniper towards the northern perimeter. There are signs of some use by terrestrial receptors including elk and gophers; most probably the site is used as a movement corridor for terrestrial receptors. No surface water exists at the site; therefore, aquatic receptors have been removed from consideration. Little or no vegetation grows in the area of the seepage pit. Habitat considered suitable for threatened or endangered species was not identified at PRS 51-001.

All potential releases of contaminants were subsurface in nature (at a depth of 5 ft bgs or greater); therefore, surface transport is not considered a mechanism for exposure to receptors. Groundwater transport is not considered applicable because of the depth (approximately 700–1000 ft) of the regional aquifer. PRS 51-001 is well removed from the mesa edges and is not subject to mass wasting. No sites are contiguous to or upgradient from PRS 51-001.

(b) Screening Evaluation

Because all COPCs are at a depth of greater than 5 ft bgs, there are no complete exposure pathways. Therefore, a screening evaluation was not performed.

ROTC • FFACO • HB

(c) Uncertainty Analysis

No uncertainty analysis was performed because no screening evaluation was performed.

(d) Interpretation

No interpretation is required because no screening evaluation was performed.

2.5.2 Surface Water Assessment

A surface water assessment was performed for PRS 51-001 in accordance with LANL-ER-SOP 2.01, Surface Water and Site Assessments. A surface water runoff score of 8.8 was assigned, indicating low potential for erosion (Appendix B).

2.6 Conclusions and Recommendations

No documented operational spills or unintentional releases are associated with PRS 51-001. Tritium was detected in the tank contents and in the tank imprint at 11–12 ft bgs. Cesium-137 was detected beneath the inlet pipe but not in the tank contents. In addition, low concentrations of organic chemicals were detected beneath the tank and adjacent to the seepage pit. Only trichlorofluoromethane was detected in the septic tank water. In the human health screening assessment, COPCs were compared with SALs. The maximum detected concentrations of nonradiological COPCs were less than 0.1 of their respective SALs (for noncarcinogens). Antimony, cyanide, mercury, selenium, and silver were not detected but were retained as COPCs because of elevated detection limits. The detection limits were less than 0.1 SAL for cyanide, mercury, selenium, and silver. The detection limit for antimony was less than its SAL. Cesium-137 and tritium concentrations were less than SALs and represent a potential radiation dose of approximately 6.6 *mrem/yr*. None of the COPCs was evaluated for ecological effects because the COPCs were detected at a depth greater than 5 ft bgs, resulting in no complete exposure pathways to ecological receptors. PRS 51-001 is recommended for NFA, based on Criterion 5, which states that the PRS has been characterized or remediated in accordance with applicable state or federal regulations and that the available data indicate that chemicals of concern are either not present or are present at concentrations that would pose an acceptable risk under projected future land use (NMED 1998, 57897).

3.0 PRS 54-007(d)

3.1 Summary

This section presents the site description and operational history, investigative activities, remedial activities, site assessment, conclusion, and recommendations for PRS 54-007(d).

3.2 Site Description and Operational History

PRS 54-007(d) was an inactive/abandoned septic system that served the Radiation Exposure Facility located in Buildings 54-1001, 54-1002, 54-1003, and 54-1004 (Figure 3.2-1). The septic system consisted of a 1500-gal. concrete septic tank (TA 54-4), drain lines, a distribution box, and a split drain field. A 4-in. drain line from the septic tank connected to a reinforced concrete distribution box, which diverted the effluent east and west into the drain field. The drain field consists of two 60-ft-long, 4-in.-diameter tile drain lines running east and west from the distribution box.

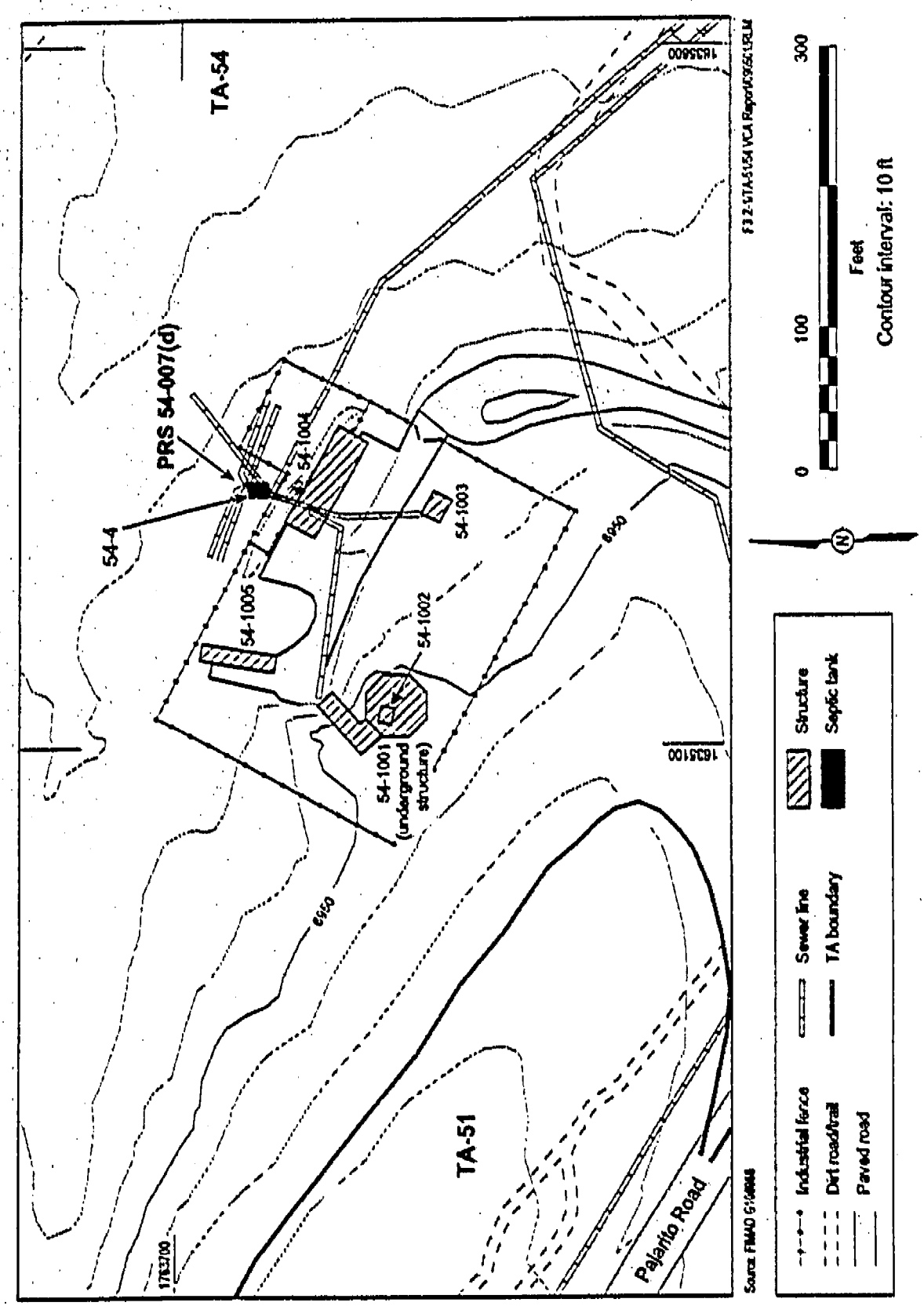


Figure 3.2-1. Location of PRS 54-007(d) septic system

The Radiation Exposure Facility was in operation from 1962 to the mid-1970s. The facility was used for biomedical research on the exposure of animals to gamma radiation from sealed cobalt-60 sources. The radiation sources were removed from the facility in the 1970s when research was terminated. The septic system was constructed in 1962. In 1992, when the OU 1148 work plan (LANL 1992, 7669) was being written, the facility was used for research on the exposure of animals to nitrogen oxides. The septic system was decommissioned in 1993 when the sanitary sewer line was installed as part of the Laboratory's SWCS. The effluent now flows to a new manhole, structure 54-151, constructed south of the former septic tank location.

TA-54 is located on Mesita del Buey, a relatively narrow, gently sloping mesa that is bordered on the northeast by Cañada del Buey and on the southwest by Pajarito Canyon. No other PRSs are nearby.

3.3 Previous Activities

3.3.1 Previous Investigations

The septic system was investigated during the 1995 Phase I RFI in accordance with the OU 1148 RFI work plan (LANL 1992, 7669). Phase I RFI data were summarized in the VCA plan (LANL 2000, 70658), which is included in Appendix H. Complete analytical results are included in Appendix D.

As part of the RFI, the contents of the septic tank were sampled and analyzed. At that time, between 3 ft and 3.5 ft of liquid and sludge remained in the tank. Subsurface soils adjacent to the discharge line and on the south side of the drain field at 5 ft bgs (1 ft below the line) were also collected and analyzed. Sample locations are shown in Figure 3.3-1. The analytical suites for the sludge and soil samples included pesticides/PCBs, VOCs, SVOCs, and TAL metals. Complete analytical results are included in Appendix D.

The samples were also screened for gross alpha, beta, and gamma radiation. Screening results showed that gross alpha, beta, and gamma radiation in the soil were an order of magnitude less than levels measured in the sludge samples and in the tuff. As a result, the soil samples were not analyzed for radionuclides in 1995. Analytical results showed low concentrations of chloroethane and 1,2-dichloroethane in the septic tank sludge and soils at one location in the vicinity of the drain field. However, these VOCs were also detected in the rinsate blank, which negates these chemicals as valid detects. Inorganic chemicals were also detected in the sludge.

Low concentrations of toluene, Aroclor-1254, DDE[4,4'-], and DDT[4,4'-] were detected in a single near-surface soil sample collected at the eastern edge of the drain field (Table 3.3-1). These organic chemicals were not present in septic tank contents, and detected concentrations are consistent with residual levels from historic application for pest control and/or dust suppression. These three organic chemicals are evaluated in Section 3.5, Site Assessments). Although inorganic chemicals were not detected above Laboratory BVs in the soil (LANL 1998, 59730), antimony was retained as a COPC because the detection limit in the 1995 sampling was elevated above the BV (Table 3.3-2). Therefore, the antimony analytical result was qualified U, indicating that the chemical was analyzed for but not detected. Data quality is discussed in Appendix C.

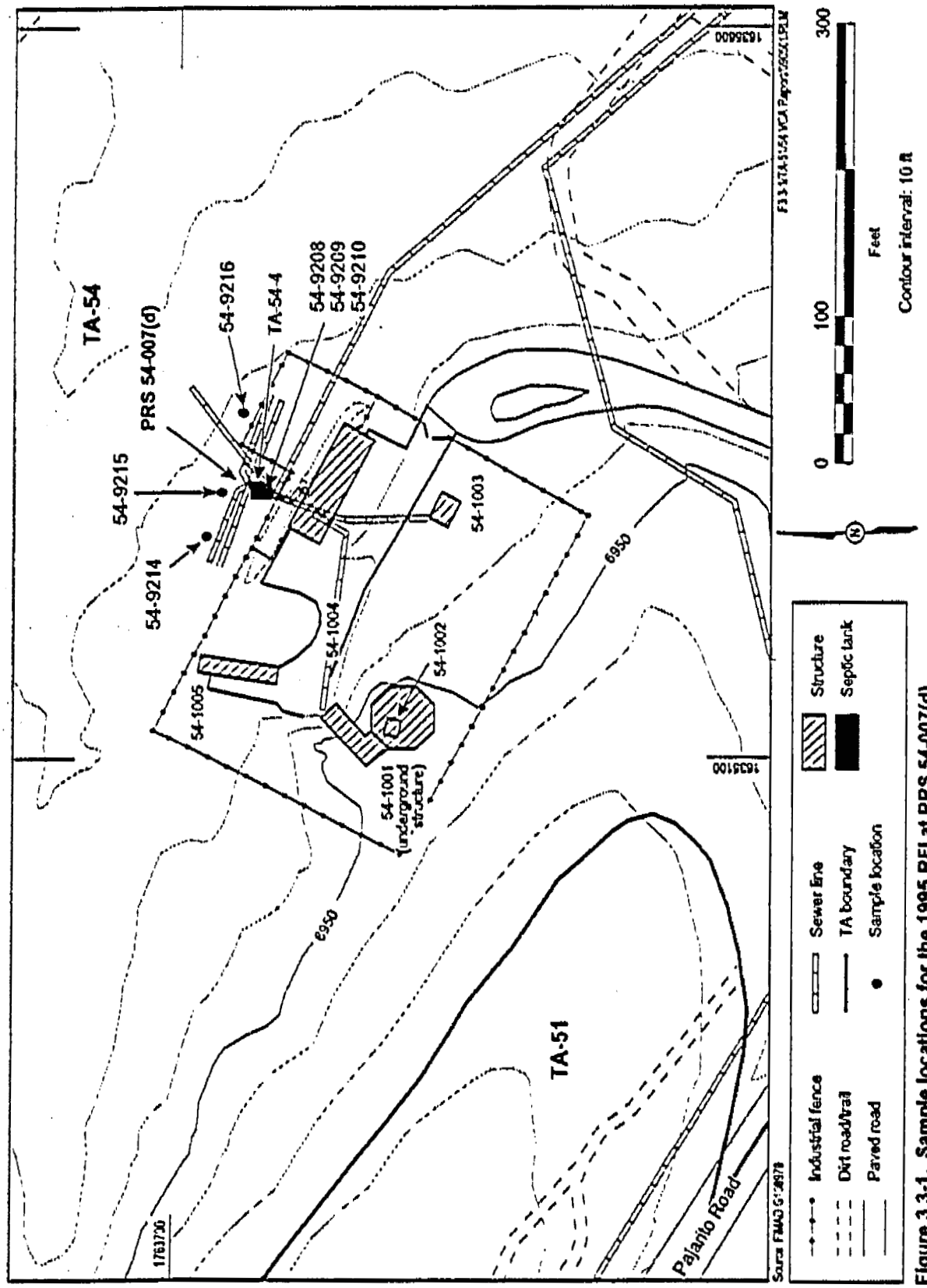


Figure 3.3-1. Sample locations for the 1995 RFI at PRS 54-007(d)

Table 3.3-1
Frequency of Detected Organic Chemicals During 1995 Phase I RFI, PRS 54-007(d)

Analyte	Medium	Number of Analyses	Number of Detects	Concentration Range (mg/kg)[a]	Frequency of Detects
Aroclor-1254	Soil	3	1	0.25–[0.35]	1/3
DDE(4,4'-)	Soil	3	1	[0.0035]–0.0053	1/3
DDT(4,4'-)	Soil	3	1	[0.0035]–0.0046	1/3
Toluene	Soil	3	1	0.004–[0.005]	1/3

[a] Values in brackets indicate nondetected values.

Table 3.3-2
Frequency of Detected Inorganic Chemicals During 1995 Phase I RFI, PRS 54-007(d)

Analyte	Medium	Number of Analyses	Number of Detects	Concentration Range (mg/kg)[a]	BV (mg/kg)	Frequency of Detects above BV	Frequency of Nondetects above BV
Aluminum	Soil	3	3	7260–8900	29200	0/3	0/3
Antimony	Soil	3	0	[9–9.2]	0.83	0/3	3/3
Arsenic	Soil	3	0	[0.38–1.4]	8.17	0/3	0/3
Barium	Soil	3	3	82.8–155	295	0/3	0/3
Beryllium	Soil	3	0	[1.1]	1.83	0/3	0/3
Cadmium	Soil	3	0	[0.71–0.72]	0.4	0/3	3/3[b]
Chromium, total	Soil	3	3	7.6–8	19.3	0/3	0/3
Cobalt	Soil	3	1	[3.5]–6.2	8.64	0/3	0/3
Copper	Soil	3	3	8–9.1	14.7	0/3	0/3
Cyanide,	Soil	3	0	[0.5]	0.5	0/3	0/3
Iron	Soil	3	3	9420–11500	21,500	0/3	0/3
Lead	Soil	3	3	10.2–14	22.3	0/3	0/03
Magnesium	Soil	3	3	1610–1940	4610	0/3	0/03
Manganese	Soil	3	3	64.7–342	671	0/3	0/03
Mercury	Soil	3	0	[0.5]	0.1	0/3	0/3
Nickel	Soil	3	3	3.3–7.5	15.4	0/3	0/3
Selenium	Soil	3	0	[0.33–0.34]	1.52	0/3	0/3
Silver	Soil	3	0	[0.92–0.94]	1	0/3	0/3
Thallium	Soil	3	1	[0.19–0.36]	0.73	0/3	0/3
Vanadium	Soil	3	3	16.8–21	39.6	0/3	0/3
Zinc	Soil	3	3	33.5–42.2	48.8	0/3	0/3

[a] Values in square brackets indicate nondetected results.

[b] Within range of background concentrations.

3.3.2 Preliminary Conceptual Model

This septic system was gravity-driven (not under pressure); therefore, soil overlying the septic tank and drain lines was not expected to be contaminated. The potential release mechanisms would be seepage through (1) porous joints in drain lines and (2) slotted PVC lines used to construct the drain field and spread tank liquids to the subsurface. Therefore, subsurface soil and/or tuff are identified as the primary potentially contaminated media (Figure 3.3-2). The potential contaminants in the subsurface soil beneath the septic tank, drain lines, and drain field would be the same as those found during the characterization of the liquid and sludge remaining in the tank.

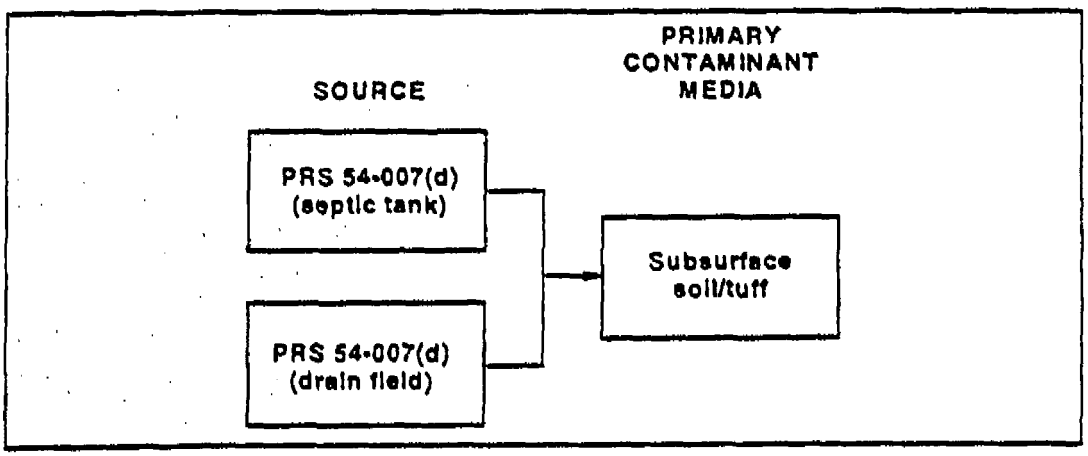


Figure 3.3-2. Preliminary conceptual model of contaminant transport, PRS 54-007(d)

Pathways from subsurface releases to potential human receptors would be complete only if contaminated soil or tuff was excavated and brought to the surface. The potential pathways would be dermal contact, inhalation of vapors or fugitive dust, and incidental ingestion of soil. Downward migration of contaminants in the vadose zone 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. For PRS 54-007(d), the only complete ecological exposure pathways are to plants and burrowing animals.

3.4 Remedial Activities

3.4.1 Investigative and Remediation Activities During the VCA

During 2000, the liquid and sludge in the septic tank at PRS 54-007(d) were sampled and analyzed for pesticides/PCBs, toxicity characteristic leaching procedure (TCLP) metals, TAL metals, VOCs, SVOCs, gamma-emitting radionuclides, tritium, isotopic plutonium, and isotopic uranium. (The volume of liquid and sludge remaining in the tank was unchanged from that observed in 1995.) In accordance with the approved VCA plan (LANL 2000, 70658), the analytical results (Table 3.4-1) were used for waste characterization of the septic tank contents and to determine the analytical suites for the post-VCA confirmation samples. Drain field sample locations were selected to supplement the 1995 RFI data to ensure determination of nature and extent of contamination.

Table 3.4-1
Analytical Results for the 2000 Sludge and
Liquid Samples Collected from the Septic Tank, PRS 54-007(d)

Sample ID	Matrix	Analyte	Result	Unit
MD54-00-0036	Water	Aluminum	0.113(J+)	mg/L
MD54-00-0036	Water	Barium	0.0479(J)	mg/L
MD54-00-0036	Water	Benzoic Acid	0.009(J)	mg/L
MD54-00-0036	Water	Beryllium	0.00047(J)	mg/L
MD54-00-0036	Water	Calcium	49.2	mg/L
MD54-00-0036	Water	Chromium	0.0014(J)	mg/L
MD54-00-0036	Water	Copper	0.0016(J)	mg/L
MD54-00-0035	Sludge	Dichloroethene[cis-1,2-]	0.001(J)	mg/L
MD54-00-0036	Water	Dichloroethene[cis-1,2-]	0.001(J)	mg/L
MD54-00-0036	Water	Diethylphthalate	0.003(J)	mg/L
MD54-00-0036	Water	Di-n-butylphthalate	0.008(J)	mg/L
MD54-00-0036	Water	Iron	0.509	mg/L
MD54-00-0036	Water	Magnesium	6.77	mg/L
MD54-00-0036	Water	Manganese	0.0409	mg/L
MD54-00-0036	Water	Nickel	0.0053(J)	mg/L
MD54-00-0036	Water	Nitrate + nitrite	0.22	mg/L
MD54-00-0036	Water	Phenol	0.003(J)	mg/L
MD54-00-0036	Water	Potassium	28.4	mg/L
MD54-00-0036	Water	Sodium	81.8	mg/L
MD54-00-0043	Sludge	Uranium-234	0.00129	pCi/g
MD54-00-0044	Water	Uranium-234	0.86	pCi/L
MD54-00-0043	Sludge	Uranium-238	0.000491	pCi/g
MD54-00-0044	Water	Uranium-238	0.5	pCi/L
MD54-00-0036	Water	Vanadium	0.003(J)	mg/L
MD54-00-0036	Water	Zinc	0.0338	mg/L

Remedial activities for PRS 54-007(d) began on December 15, 2000, and were completed on February 12, 2001. The soil above the septic tank was excavated to a depth of 3.5 ft bgs to expose the top of the tank. The sides of the excavation were benched (sloped back) to prevent soil from sloughing into the excavated area. The tank was of cast-in-place type of construction and was 4 ft wide x 8 ft long x 7 ft deep with two access ports on top. Each access port was approximately 20 $in.^2$. The tank was divided into two compartments. Both compartments contained liquid and sludge waste (Figure 3.4-1).

Approximately 800 gal. of liquid and sludge were pumped out of the tank using a vacuum truck. The interior of the tank was cleaned using a high-pressure washer, and an additional 500 gal. of wash water was pumped from the tank. The interior of the tank was examined and photographed from the cleanout port.

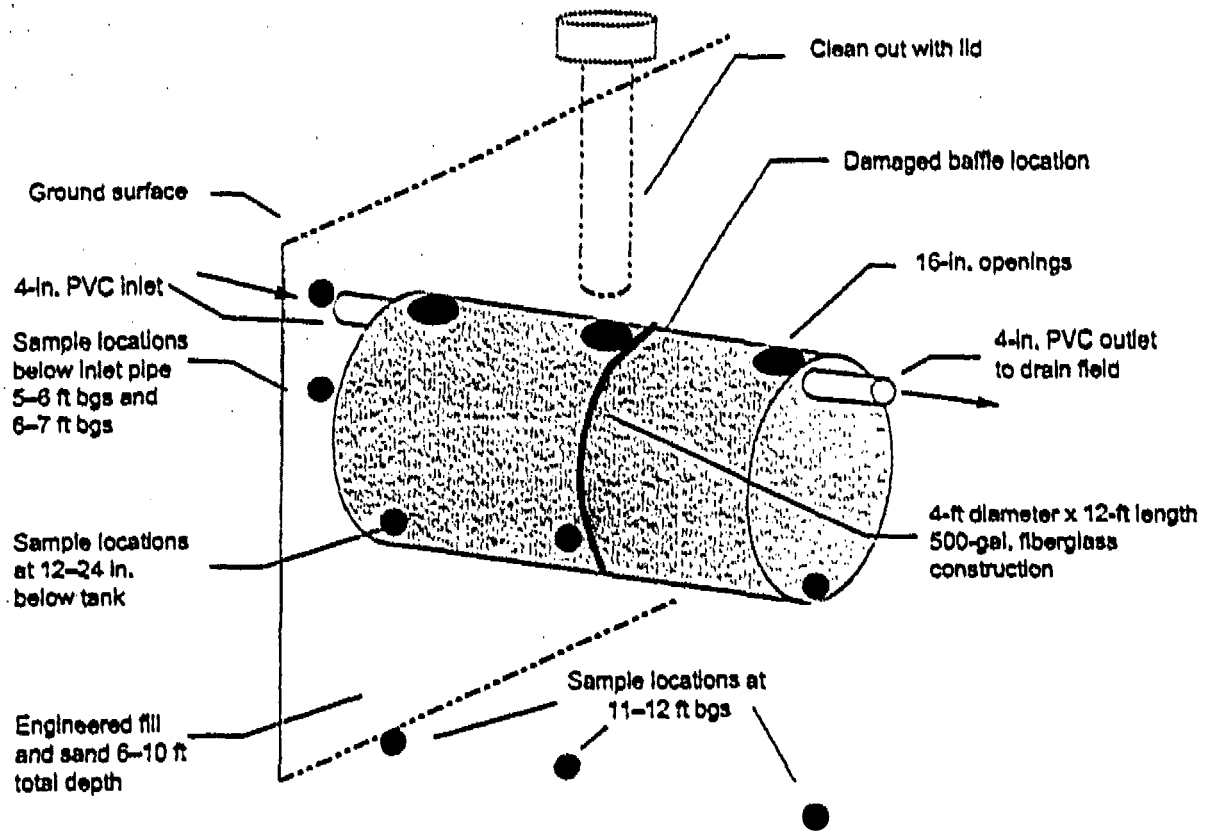


Figure 3.4-1. PRS 54-007(d) septic tank diagram

The tank was in sound condition with no visible cracking. Because of the large size and type of construction (cast-in-place concrete with rebar reinforcement), it was difficult to break up and remove the tank from the excavation; therefore, the tank imprint was not visible. There was no visible staining or excessive moisture in the adjacent soils to indicate leakage from the tank. The exposed inlet and outlet lines were also in sound condition with no visible signs of leakage.

The tank was collapsed in place, and the resulting tank fragments, concrete distribution box, and associated debris (e.g., pipe, concrete guard posts, and rebar from temporary fencing) were removed using the track excavator and were placed into a roll-off bin. The tank inlet and outlet lines were plugged with an appropriately sized, permanent, gasket-type, expandable plug.

Seven samples were collected from the tank imprint location at 10.5 ft bgs to 11.5 ft bgs and 11.5 ft and 12.5 ft bgs (Figure 3.4-2). Two soil samples were also collected from the area beneath the inlet pipe at 5.25 ft bgs and 6.25 ft bgs. The samples were submitted to an off-site, fixed analytical laboratory. Table 3.4-2 lists sample and site ID numbers, sample locations, and the analytical suite. A 6-in. layer of gravel was placed in the bottom of the tank excavation and then backfilled with excavated soil.

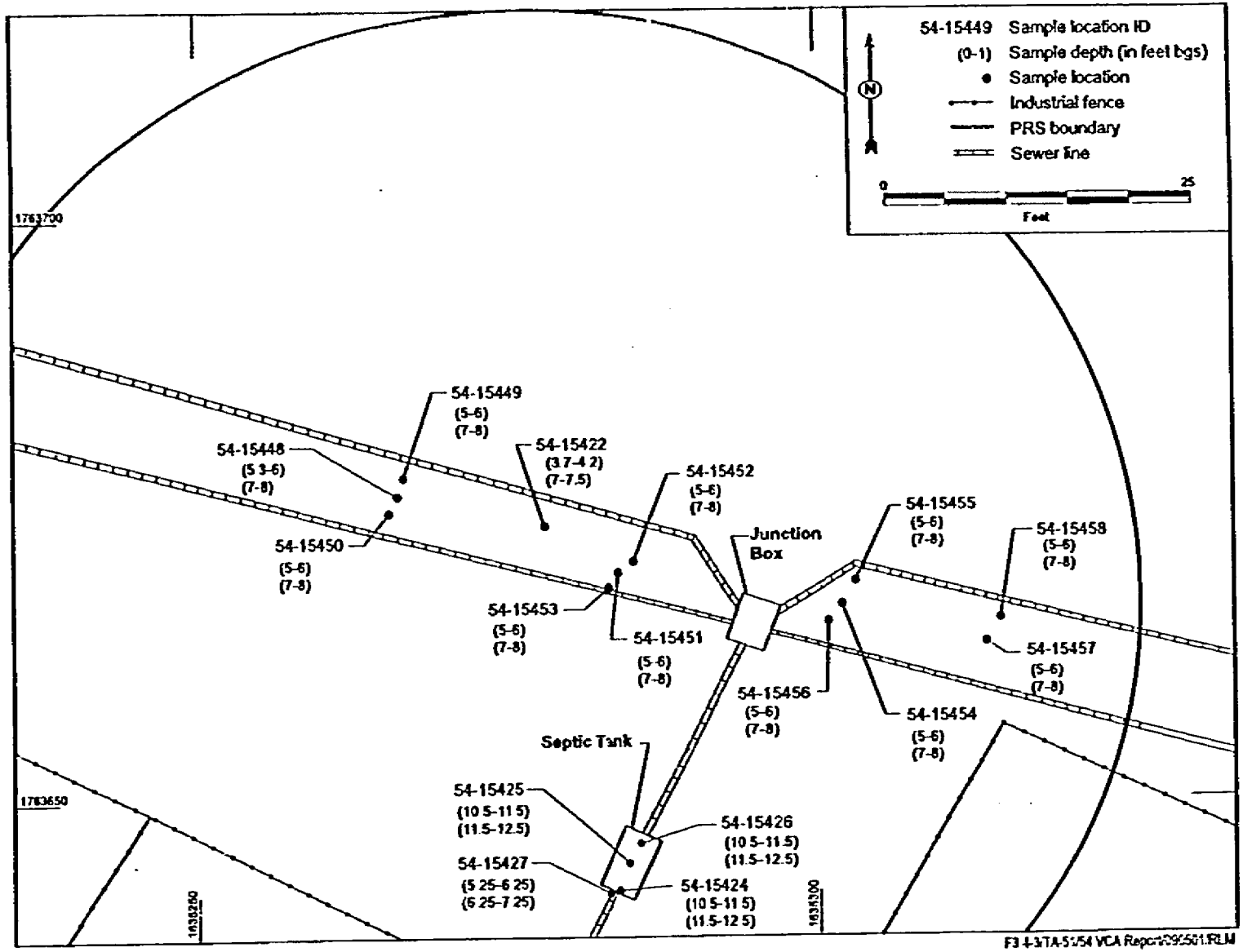


Figure 3.4-2. Sample locations at PRS 54-007(d)

Table 3.4-2
Summary of Samples Collected for Fixed Laboratory Analysis During the VCA, PRS 54-007(d)

Sample ID	Site ID	Sample Location	SVOC	VOC	Collection Date
MD54-01-0021	54-15422	Drain field, 3.7 ft–4.2 ft bgs	x[a]	x	1/3/01
MD54-01-0022	54-15422	Drain field, 7 ft–7.5 ft bgs	x	x	1/3/01
MD54-01-0025	54-15424	Tank imprint, 10.5 ft–11.5 ft bgs, south end	x	x	1/22/01
MD54-01-0026	54-15424	Tank imprint, 11.5 ft–12.5 ft bgs, south end	x	x	1/22/01
MD54-01-0027	54-15425	Tank imprint, 10.5 ft–11.5 ft bgs, center	x	x	1/22/01
MD54-01-0054	54-15425	Tank imprint, 10.5 ft–11.5 ft bgs, center	x	x	1/22/01
MD54-01-0028	54-15425	Tank imprint, 11.5 ft–12.5 ft bgs, center	x	x	1/22/01
MD54-01-0029	54-15426	Tank imprint, 10.5 ft–11.5 ft bgs, north end	x	x	1/22/01
MD54-01-0030	54-15426	Tank imprint, 11.5 ft–12.5 ft bgs, north end	x	x	1/22/01
MD54-01-0031	54-15427	Inlet pipe, 5.25 ft–6.25 ft bgs	x	x	1/22/01
MD54-01-0032	54-15427	Inlet pipe, 6.25 ft–7.25 ft bgs	x	x	1/22/01
MD54-01-0068	54-15448	Drain field center, 5.3 ft–6 ft bgs	x	x	2/12/01
MD54-01-0069	54-15448	Drain field center, 7 ft–8 ft bgs	x	x	2/12/01
MD54-01-0070	54-15449	Drain field., 5 ft–6 ft bgs	x	x	2/12/01
MD54-01-0071	54-15449	Drain field, 7 ft–8 ft bgs	x	x	2/12/01
MD54-01-0072	54-15450	Drain field, 5 ft–6 ft bgs	x	x	2/12/01
MD54-01-0073	54-15450	Drain field, 7 ft–8 ft bgs	x	x	2/12/01
MD54-01-0074	54-15451	Drain field, 5 ft–6 ft bgs	x	x	2/12/01
MD54-01-0075	54-15451	Drain field, 7 ft–8 ft bgs	x	x	2/12/01
MD54-01-0076	54-15452	Drain field, 5 ft–6 ft bgs	x	x	2/12/01
MD54-01-0077	54-15452	Drain field, 7 ft–8 ft bgs	x	x	2/12/01
MD54-01-0078	54-15453	Drain field, 5 ft–6 ft bgs	x	x	2/12/01
MD54-01-0079	54-15453	Drain field, 7 ft–8 ft bgs	x	x	2/12/01
MD54-01-0080	54-15454	Drain field, 5 ft–6 ft bgs	x	x	2/12/01
MD54-01-0081	54-15454	Drain field, 7 ft–8 ft bgs	x	x	2/12/01
MD54-01-0082	54-15455	Drain field, 5 ft–6 ft bgs	x	x	2/12/01
MD54-01-0083	54-15455	Drain field, 7 ft–8 ft bgs	x	x	2/12/01
MD54-01-0084	54-15456	Drain field, 5 ft–6 ft bgs	x	x	2/12/01
MD54-01-0085	54-15456	Drain field, 7 ft–8 ft bgs	x	x	2/12/01
MD54-01-0086	54-15457	Drain field, 5 ft–6 ft bgs	x	x	2/12/01
MD54-01-0087	54-15457	Drain field, 7 ft–8 ft bgs	x	x	2/12/01
MD54-01-0088	54-15458	Drain field, 5 ft–6 ft bgs	x	x	2/12/01
MD54-01-0089	54-15458	Drain field, 7 ft–8 ft bgs	x	x	2/12/01

[a] x = Samples were collected for this analyte.

After review of an as-built map (LASL 1968, 66870), it was determined that the septic tank outlet line leads north to a distribution box; PVC pipes then lead east and west away from the distribution box to the drain field. A hand auger was used to collect samples in the drain field; however, because a tile drain line had been placed in the subsurface layer of sand and gravel, the holes collapsed, and samples could not be collected. Therefore, a backhoe was used to trench across the drain lines at the targeted depths, samples were collected, and sample locations surveyed. A total of 24 subsurface samples (12 locations) were collected from the trenches within the drain field at depths ranging between 3.7 ft bgs and 8 ft bgs (Figure 3.4-2). The soil samples were submitted to an off-site, fixed analytical laboratory for analysis of VOCs and SVOCs. Table 3.4-2 lists sample and site ID numbers, sample locations, and the analytical suite.

3.4.2 Data Review for VCA Samples

The 2000 waste characterization sample results (Section 3.4.1) were used to define the analytical suite for the VCA samples; the analytical suite for the VCA includes, VOCs, and SVOCs. VCA sample results are discussed below and are presented in Appendix D. In accordance with the approved VCA plan (LANL 2000, 70658), confirmation samples were not analyzed for inorganic chemicals because they were not detected above BVs in the soil and tuff in the 1995 RFI samples (Table 3.3-2).

3.4.2.1 Inorganic Chemical Comparison with Background

As stated in Section 3.4.2, inorganic chemicals were not analyzed for in the 2001 confirmation samples.

3.4.2.2 Radionuclide Comparison with Background/Fallout Radionuclide Concentration

In accordance with the approved VCA plan (LANL 2000, 70658), samples were not analyzed for radionuclides because none were detected above soil BVs in the tank contents in 2000 samples. Although there are no BVs for sludge, the results were compared to soil BVs to determine if elevated levels of radionuclides were present in the tank and whether sampling of the soil and tuff was required. Uranium-234 and uranium-238 were detected in the sludge from the septic tank at concentrations below the soil BVs of 2.59 pCi/g and 2.29 pCi/g, respectively (Table 3.4-1). No other radionuclides were detected in the septic tank contents. Gross radiation screening also showed no elevated radiation above background.

3.4.2.3 Evaluation of Organic Chemicals

Most organic chemicals detected during the VCA confirmatory sampling were qualified as estimated (J) because the reported values were less than the reporting limits but above the method detection limits. Some organic chemical data were qualified as J+ because the surrogate recoveries were high. The qualified data (J and J+) are estimated and may be biased because of the QA/QC issues. The data quality is discussed in Appendix C.

Table 3.4-3 presents the frequency of organic chemicals detected in confirmatory samples; these detected organic chemicals were retained as COPCs for further evaluation (Table 3.4-4). Qualifiers associated with the data are defined in Appendix C. Figure 3.4-3 shows locations of detected organic chemicals.

Table 3.4-3
Frequency of Detected Organic Chemicals in Confirmatory Samples Collected During the VCA, PRS 54-007(d)

Analyte	Media	Number of Analyses	Number of Detects	Concentration Range (mg/kg)[a]	EQL (mg/kg)	Frequency of Detects
Acetone	Soil	33	29	0.012–0.069	0.02	29/33
Acetone	Qbt 3	1	1	0.065	0.02	1/1
Benzene	Soil	33	5	0.0016–[0.0078]	0.0078	5/33
Benzene	Qbt 3	1	1	0.0031	0.005	1/1
Bis(2-ethylhexyl)phthalate	Soil	33	1	0.31–[0.4]	0.4	1/33
Bromomethane	Soil	33	2	0.0023–[0.018]	0.018	2/33
Bromomethane	Qbt 3	1	1	0.002	0.005	1/1
Butanone[2-]	Soil	33	12	0.0039–[0.034]	0.034	12/33
Carbon disulfide	Soil	33	1	0.002–[0.0088]	0.0088	1/33
Carbon disulfide	Qbt 3	1	1	0.002	0.005	1/1
Isopropylbenzene	Soil	33	1	0.0017–[0.0088]	0.0088	1/33
Isopropyltoluene[4-]	Soil	33	3	0.0033–[0.0088]	0.0088	3/33
Methyl-2-pentanone[4-]	Soil	33	3	0.0038–[0.035]	0.035	3/33
Toluene	Soil	33	3	0.0018–[0.0088]	0.0088	3/33
Trichlorofluoromethane	Soil	33	3	0.0026–[0.018]	0.018	3/33
Trimethylbenzene[1,2,4-]	Soil	32	1	0.0032–[0.0088]	0.0088	1/32

[a] Values in square brackets indicate nondetected results.

Table 3.4-4
Organic Chemicals Detected During the VCA, PRS 54-007(d)

Sample ID	Location ID	Depth (bgs ft)	Medium	Acetone (mg/kg)	Benzene (mg/kg)	Bis(2-ethylhexyl)phthalate (mg/kg)	Bromomethane (mg/kg)	Butanone[2-] (mg/kg)	Carbon Disulfide (mg/kg)	Isopropylbenzene (mg/kg)	Isopropyltoluene[4-] (mg/kg)	Methyl-2-pentanone[4-] (mg/kg)	Toluene (mg/kg)	Trichlorofluoromethane (mg/kg)	Trimethylbenzene[1,2,4-] (mg/kg)
MD54-01-0021	54-15422	3.7-4.2	Soil	0.069 (J+)	0.0016 (J+)	—	0.0023 (J+)	0.0084 (J+)	0.002 (J+)	—	—	—	—	—	—
MD54-01-0022	54-15422	7.0-7.5	Dbl 3	0.065 (J+)	0.0031 (J+)	—	0.002 (J+)	—	0.002 (J+)	—	—	—	—	—	—
MD54-01-0025	54-15424	10.5-11.5	Soil	—	—	—	—	—	—	—	—	—	—	—	—
MD54-01-0026	54-15424	11.5-12.5	Soil	—	—	—	—	—	—	—	—	—	—	—	—
MD54-01-0027	54-15425	10.5-11.5	Soil	0.015 (J)	—	—	—	—	—	—	—	—	—	—	—
MD54-01-0064	54-15425	10.5-11.5	Soil	0.012 (J)	—	—	—	—	—	—	—	—	—	—	—
MD54-01-0028	54-15425	11.5-12.5	Soil	—	—	—	—	—	—	—	—	—	—	—	—
MD54-01-0029	54-15426	10.5-11.5	Soil	0.028 (J)	—	—	—	—	—	—	—	—	—	—	—
MD54-01-0030	54-15426	11.5-12.5	Soil	—	—	—	—	—	—	—	—	—	—	—	—
MD54-01-0031	54-15427	5.25-6.25	Soil	0.027 (J)	—	—	—	—	—	—	—	—	—	—	—
MD54-01-0032	54-15427	6.25-7.25	Soil	0.02 (J)	—	—	—	—	—	—	—	—	0.0032 (J)	—	—
MD54-01-0068	54-15448	5.3-6.0	Soil	0.014 (J)	—	—	—	—	—	—	—	—	—	—	—
MD54-01-0062	54-15448	7.0-8.0	Soil	0.028	—	—	—	—	—	—	—	—	0.0026 (J)	—	—
MD54-01-0069	54-15448	7.0-8.0	Soil	0.034	—	—	—	0.0066 (J)	—	—	—	—	0.0032 (J)	—	—
MD54-01-0070	54-15449	5.0-6.0	Soil	0.037	—	0.31 (J)	—	0.0095 (J)	—	0.0017 (J)	0.0046 (J)	0.0063 (J)	0.0025 (J)	—	0.0032 (J)
MD54-01-0071	54-15449	7.0-8.0	Soil	0.037	—	—	—	0.014 (J)	—	—	—	0.0046 (J)	—	—	—
MD54-01-0072	54-15450	5.0-6.0	Soil	0.045	—	—	—	—	—	—	0.0033 (J)	—	0.0073	—	—
MD54-01-0073	54-15450	7.0-8.0	Soil	0.03	—	—	—	—	—	—	—	—	—	—	—
MD54-01-0074	54-15451	5.0-6.0	Soil	0.031	—	—	—	—	—	—	—	—	—	—	—

Table 3.4-4 (continued)
Organic Chemicals Detected During the VCA, PRS 54-007(d)

Sample ID	Location ID	Depth (bgs ft)	Medium	Acetone (mg/kg)	Benzene (mg/kg)	Bis(2-ethylhexyl)phthalate	Bromomethane (mg/kg)	Butanone[2-] (mg/kg)	Carbon Disulfide (mg/kg)	Isopropylbenzene (mg/kg)	Isopropyltoluene[4-] (mg/kg)	Methyl-2-pentanone[4-] (mg/kg)	Toluene (mg/kg)	Trichlorofluoromethane (mg/kg)	Trimethylbenzene[1,2,4-] (mg/kg)
MD54-01-0075	54-15451	7.0-8.0	Soil	0.018 (J)	—	—	—	—	—	—	—	—	—	—	—
MD54-01-0076	54-15452	5.0-6.0	Soil	0.035	0.0023 (J)	—	—	—	—	—	—	—	—	—	—
MD54-01-0077	54-15452	7.0-8.0	Soil	0.027	—	—	0.0023 (J)	—	—	—	—	—	—	—	—
MD54-01-0078	54-15453	5.0-6.0	Soil	0.018 (J+)	—	—	—	0.006 (J+)	—	—	0.0065 (J+)	0.0038 (J+)	0.0018 (J+)	—	—
MD54-01-0079	54-15453	7.0-8.0	Soil	0.035	—	—	—	0.0091 (J)	—	—	—	—	—	—	—
MD54-01-0080	54-15454	5.0-6.0	Soil	0.031 (J+)	0.0026 (J+)	—	—	0.006 (J+)	—	—	—	—	—	—	—
MD54-01-0081	54-15454	7.0-8.0	Soil	0.034	—	—	—	0.0073 (J)	—	—	—	—	—	—	—
MD54-01-0082	54-15455	5.0-6.0	Soil	0.046	0.0023 (J)	—	—	0.01 (J)	—	—	—	—	—	—	—
MD54-01-0083	54-15455	7.0-8.0	Soil	0.032 (J+)	—	—	—	0.0063 (J+)	—	—	—	—	—	—	—
MD54-01-0084	54-15456	5.0-6.0	Soil	0.028 (J)	0.0027 (J)	—	—	0.0078 (J)	—	—	—	—	—	—	—
MD54-01-0085	54-15456	7.0-8.0	Soil	0.015 (J)	—	—	—	0.0033 (J)	—	—	—	—	—	—	—
MD54-01-0086	54-15457	5.0-6.0	Soil	0.022	—	—	—	—	—	—	—	—	—	—	—
MD54-01-0087	54-15457	7.0-8.0	Soil	0.027 (J+)	—	—	—	—	—	—	—	—	—	—	—
MD54-01-0068	54-15458	5.0-6.0	Soil	0.018 (J)	—	—	—	—	—	—	—	—	—	—	—
MD54-01-0069	54-15458	7.0-8.0	Soil	0.023	—	—	—	—	—	—	—	—	—	—	—

[a] A dash indicates that the analyte was not detected in that sample.

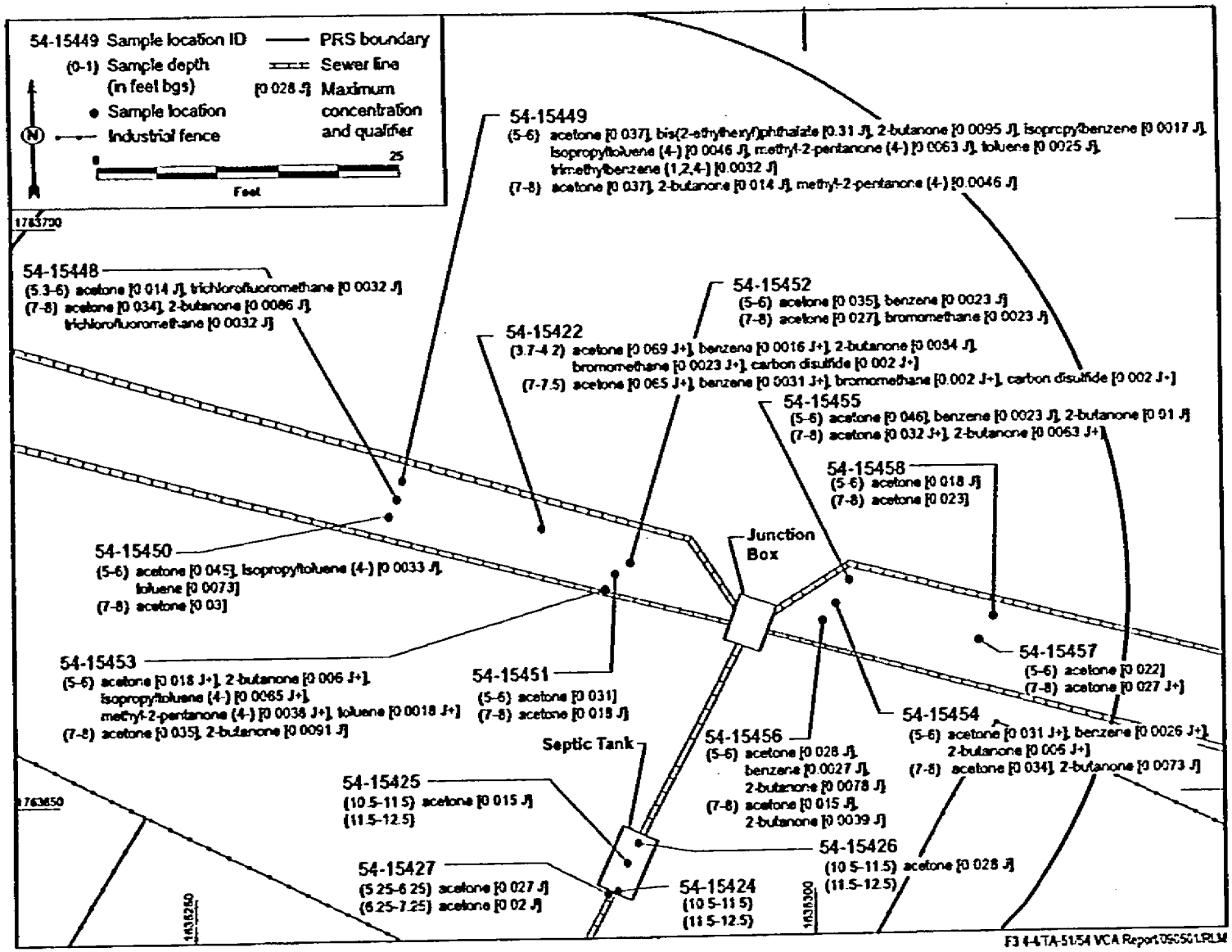


Figure 3.4-3. Detected organic chemicals (mg/kg) at PRS 54-007(d)

3.4.3 Revised Site Conceptual Model

The results of the VCA confirmed the preliminary conceptual model for PRS 54-007(d) so no revisions to the model are necessary. The preliminary conceptual model identified potential release mechanisms as seepage through (1) porous joints in drain lines and (2) slotted PVC lines used to construct the drain field and spread tank liquids to the subsurface. When the tank was excavated and the inlet and outlet lines were inspected, they were intact, and no soil staining was observed. Low levels of organic chemicals (J qualified) were detected in the liquid and sludge in the tank and in the drain field.

3.4.3.1 Nature and Extent of Contamination

Organic chemicals detected in drain field samples included acetone, benzene, bis(2-ethylhexyl) phthalate, bromomethane, 2-butanone, carbon disulfide, isopropylbenzene, isopropyltoluene, methyl-2-pentanone, toluene, trichlorofluoromethane, and trimethylbenzene[1,2,4-] (Table 3.4-4 and Figure 3.4-2). These organic chemicals were all detected at concentrations less than their respective EQLs in one or more samples. Acetone was the only organic chemical detected in the tank imprint that was also detected in a sample collected beneath the inlet line; all concentrations of acetone were less than the EQL. None of the organic COPCs were detected in the tank contents.

The results indicated low concentrations of COPCs, most of which were detected at concentrations less than EQLs. At most locations, the concentrations of organic chemicals decreased slightly with depth. Because the organic chemicals were detected at concentrations near or below the EQLs, were not detected in the tank contents, and generally decreased with depth, additional sampling for extent is not warranted at PRS 54-007(d).

3.4.3.2 Environmental Fate

The evaluation of environmental fate addresses the chemical processes that affect the persistence of a chemical in the environment. Table 3.4-5 presents data on the vapor pressure and solubility of the organic compounds. The evaluation of transport addresses the physical processes affecting mobility along the migration pathway. Physicochemical properties such as vapor pressure and solubility in water are important in evaluating chemical mobility.

The following information, summarized from Ney (1995, 58210), is presented to give the reader an indication of the potential fate and transport tendencies of organic chemicals.

Water Solubility. Water solubility is perhaps the most important chemical characteristic used to assess chemical mobility. 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 solubilities greater than 0.1 gram per 100 milliliters (g/100mL) are more prone to biodegradation and metabolism. Chemicals with water solubility less than 0.001g/100mL are more likely be immobilized by way of adsorption.

Vapor Pressure. Chemicals with vapor pressure greater than 0.01 millimeter mercury (mmHg) are more likely to volatilize and diffuse through the soil pore-gas with potential release to the atmosphere. Chemicals with vapor pressure less than 0.000001 mmHg are less likely to volatilize and, therefore, more likely to remain immobile.

Bis(2-ethylhexyl)phthalate, isopropylbenzene, isopropyltoluene, and trimethylbenzene[1,2,4] have low water solubilities, which indicate that these chemicals will not be highly mobile in percolating water. This group of contaminants will biodegrade in several days to weeks (Howard et al. 1991, 57902).

Table 3.4-5
Physicochemical Properties for COPCs, PRS 54-007(d)

Name	Vapor Pressure (mmHg)[a]	Water Solubility (g/100mL)[b]
Acetone	231	Miscible[c]
Benzene	94.8	0.18
Bis(2-ethylhexyl)phthalate	7.23×10^{-8}	3.4×10^{-5}
Bromomethane	1420[d]	1.522
2-Butanone	91	25.6
Carbon disulfide	359	0.1185
Isopropylbenzene	4.5	0.00499
Isopropyltoluene	1.72	Insoluble[e] <0.001
Methyl-2-pentanone[4-]	19.9	1.9
Toluene	28.4	0.526
Trichlorofluoromethane	803	0.124
Trimethylbenzene[1,2,4]	2.1	Insoluble[e] <0.001

[a] HSDB (2001, 63385).
[b] ChemFinder.com (2001, 70072).
[c] Miscible=capable of being evenly mixed.
[d] Merck (1989, 34771).
[e] Lewis (1987, 34770).

Acetone, benzene, bromomethane, 2-butanone, carbon disulfide, methyl-2-pentanone(4-), toluene, and trichlorofluoromethane have high vapor pressures, which indicate that the dominant phase of these chemicals is gaseous, and they will be present mainly in soil gas. These chemicals will biodegrade readily in soil, with half-lives ranging between one day and four weeks. Trichlorofluoromethane is the exception with a half-life of 6 to 12 months (Howard et al. 1991, 57902).

Based on a review of literature data, the organic chemicals listed in Table 3.4-5 can be expected to biodegrade in soil as their estimated half-lives range between 1 day and 6 months (Howard et al. 1991, 57902). In addition, the mass available for migration is extremely low, as demonstrated by detections less than EQLs, and the amount of water percolating through the soil at the site is limited due to high evapotranspiration rates and a semiarid climate. Based on the physicochemical properties and site conditions, it is unlikely that these organic chemicals were transported off-site.

3.5 Site Assessments

3.5.1 Screening Assessments

3.5.1.1 Human Health

A human health screening assessment is used in this VCA report to determine if COPC concentrations result in potential unacceptable risk to receptors. The human health screening assessment is conducted according to the approach outlined in Chapter 3 of the approved installation work plan (IWP) (LANL 1998,

62060.4). The ecological screening assessment is based on the methodology described in "Screening Level Ecological Risk Assessment Methods" (LANL 1999, 64783).

(a) Scoping

Land use at PRS 54-007(d) is currently industrial and will remain so in the future as the site is expected to remain under Laboratory control. Future land use of the site is described in the Laboratory site development plan (LANL 1995, 57224).

The potential for human exposure to contaminants in the environment at this site is very low because contamination is in the subsurface, and public access is limited. As indicated by the preliminary conceptual model (Section 3.3.2), exposure pathways are complete only if contaminated media are excavated and brought to the surface. Potential exposure pathways included inhalation of particulates and vapors, incidental ingestion of soil, and dermal contact with the soil.

(b) Screening Evaluation

The maximum detected concentration for each COPC was compared with the appropriate SAL. The SALs for nonradionuclides were calculated based on the methodology in Appendix C of the approved IWP (LANL 1998, 62060.4) or provided in NMED guidance (NMED 2000, 68554). The parameters used include the most current values available as presented in EPA Region 6 and/or NMED guidance (EPA 2000, 68410; NMED 2000, 68554). The SALs reflect a residential exposure scenario in which exposure is based on 24 hr/day and 350 days/yr. The comparison is done separately for noncarcinogens and carcinogens. The SALs for noncarcinogens are based on a HQ of 1.0 and SALs for carcinogens are based on a target cancer risk of 10^{-6}. The maximum concentration of each COPC was compared with the SAL for carcinogens and 0.1 SAL for noncarcinogens because more than two noncarcinogenic COPCs have been identified. The comparison with SALs is shown in Tables 3.5-1 and 3.5-2 for noncarcinogenic and carcinogenic COPCs, respectively.

Table 3.5-1
Comparison of Noncarcinogenic COPCs to SALs, PRS 54-007(d)

Analyte	Location ID	Sample ID	Depth (ft bgs)	Maximum Sample Value (mg/kg)	SAL (mg/kg)	0.1 SAL (mg/kg)
Acetone	54-15422	MD54-01-0021	3.7–4.6	0.069(J)	1600	160
Bromomethane	54-15422	MD54-01-0021	3.7–4.6	0.0023(J)	3.7	0.37
2-Butanone	54-15449	MD54-01-0071	7–8	0.014(J)	37000	3700
Carbon disulfide	54-15422	MD54-01-0021	3.7–4.6	0.002(J+)	360	36
Isopropylbenzene	54-15449	MD54-01-0070	5.6	0.0017(J)	160	16
4-Isopropyltoluene	54-15453	MD54-01-0078	5–6	0.0065(J+)	160	16
4-Methyl-2-pentanone	54-15449	MD54-01-0070	5–6	0.0063(J)	790	79
Toluene	54-15449	MD54-01-0072	5–6	0.0073	180	18
Trichlorofluoromethane	54-15448	MD54-01-0068	5.3–8	0.0032(J)	390	39
[1,2,4-]Trimethylbenzene	54-15449	MD54-01-0070	5–6	0.0032(J)	52	5.2
Antimony	54-9214	0554-95-2021	2.5–3.3	9.2 (U)	30	3

Table 3.5-2
Comparison of Carcinogenic COPCs to SALs, PRS 54-007(d)

Analyte	Location ID	Sample ID	Depth (ft bgs)	Maximum Sample Value (mg/kg)	SAL (mg/kg)
Benzene	54-15422	MD54-01-0021	7–7.5	0.0031(J+)	0.64
Bis(2-ethylhexyl)phthalate	54-15449	MD54-01-0070	5–6	0.31(J)	35

All detected concentrations of noncarcinogenic COPCs were orders of magnitude less than 0.1 of their respective SALs. Antimony had detection limits (9 mg/kg) greater than the soil BV of 0.83 mg/kg and above 0.1 of its SAL of 3.0 mg/kg. However, the detection limit was less than the SAL.

Maximum concentrations of carcinogenic COPCs were below SALs by 2 to 3 orders of magnitude. NMED (2000, 68554) has indicated that carcinogenic risk less than 1.0 in 100,000 (1×10^{-5}) is acceptable. The total potential excess cancer risk from exposure to carcinogenic COPCs at PRS 54-007(d) is approximately 10^{-8}.

(c) Uncertainty Analysis

The analysis presented in this human health screening assessment is subject to varying degrees and kinds of uncertainty. Uncertainties associated with the data evaluation, exposure assessment, toxicity assessment, and the additive approach may affect results.

Data Evaluation and COPC Identification Process. Uncertainties associated with the data can include sampling errors, laboratory analysis errors, and data analysis errors; however, for this PRS, these uncertainties are expected to have little effect on the results. Most of the detected concentrations of organic compounds were qualified J, indicating that the values were less than EQLs and could only be estimated.

Aroclor-1254, DDE[4,4'-], DDT[4,4'-], and toluene were detected in a 1995 soil sample (location 54-9216), but not in tank sludge in either the 1995 or the 2000 samples. These chemicals are not related to releases from the tank, but they are evaluated and an abbreviated screening analysis is presented in Table 3.5-3.

Table 3.5-3
SAL Comparisons for Non-Site Related Chemicals, PRS 54-007(d)

Analyte	Location ID	Sample ID	Depth (ft bgs)	Maximum Sample Value (mg/kg))	SAL (mg/kg)
Aroclor-1254	54-9216	0554-95-2024	0.4-1.3	0.25	0.22
DDE[4,4'-]	54-9216	0554-95-2024	0.4-1.3	0.0053	1.7
DDT[4,4'-]	54-9216	0554-95-2024	0.4-1.3	0.0046	1.7
Toluene	54-9216	0554-95-2024	0.4-1.3	0.004	180

The maximum concentration of Aroclor-1254 slightly exceeded its SAL. However, this result equates to approximately 1×10^{-6} cancer risk. DDE, DDT, and toluene had maximum concentrations lower than

SALs. The total excess cancer risk for those chemicals is less than NMED's target risk level of 10^{-5} (NMED 2000, 68554) so these chemicals do not pose a potential unacceptable risk to human health.

Exposure Assessment. Uncertainties were identified in two areas of the exposure assessment process:

- Identification of Receptors. Land-use and activity patterns are not represented by those activities assumed in a residential land-use scenario; therefore, uncertainties are introduced. If the potentially exposed individual is an industrial worker, the screening assessment overestimates the exposure and subsequently overestimates the potential hazard and risk.
- Derivation of Exposure Point Concentrations. Maximum detected concentrations are used for comparison with SALs. This practice leads to an overestimation of the concentration that represents exposure over the entire site. It also results in an overestimation of the potential risk to human health.

Toxicity Values. EPA toxicity values (RfDs and SFs) were used to derive the nonradiological SALs used in this risk screening assessment (EPA 1997, 58968.1). Uncertainties were identified in three areas:

- Extrapolation from Animals to Humans. The SFs and RfDs are often determined based on extrapolation from animal data to humans, which may result in uncertainties in toxicity values because differences can exist in chemical absorption, metabolism, excretion, and toxic response. The EPA takes into account differences in body weight, surface area, and pharmacokinetic relationships between animals and humans to minimize the potential to underestimate the dose-response relationship. However, more conservatism is usually incorporated in these steps.
- Extrapolation from One Route of Exposure to Another Route of Exposure. The SFs and RfDs can contain extrapolations from one route of exposure to another. An extrapolation from the oral route to the inhalation and/or dermal routes is used, which is consistent with the NMED and EPA Region 6 guidance (NMED 2000, 68554; EPA 2000, 68410) that were used in this assessment. A number of differences between these exposure pathways (e.g., chemical absorption) could result in an overestimation of the risk.
- Interindividual Variability in the Human Population. For noncarcinogenic effects, the amount of human variability in physical characteristics is important in determining the risks that can be expected at low exposures and in determining the no observed adverse effect level (NOAEL). The NOAEL/uncertainty factor approach incorporates a 10-fold factor to reflect the possible interindividual variability in the human population and is generally considered a conservative estimate.

Additive Approach. For noncarcinogens, the effects of a mixture of chemicals are generally unknown, and possible interactions could be synergistic or antagonistic, thereby overestimating or underestimating risk. Additionally, RfDs for different chemicals are based on different severity, effect, or target organ. Therefore, the potential for occurrence of noncarcinogenic effects can be overestimated for chemicals that act by different mechanisms and on different target organs but are addressed additively.

(d) Interpretation

Concentrations of noncarcinogenic COPCs were less than 0.1 SALs, while antimony had detection limits greater than 0.1 SAL, but less than the SAL. Because all noncarcinogenic COPCs were orders of magnitude less than their respective SALs and antimony detection limits were 0.3 of its SAL, the HI was less than 1.0. Therefore, the noncarcinogenic COPCs at PRS 54-007(d) do not pose an unacceptable risk to human health.

Carcinogenic COPCs were also detected below their SALs and represented a total excess cancer risk of 1×10^{-6}. Therefore, there is no unacceptable risk to human health at PRS 54-007(d).

3.5.1.2 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

An ecological scoping checklist (Appendix H) was completed early in the assessment process and was a useful tool for organizing existing ecological information. This information was used to determine whether ecological receptors at this site might be affected, identify the type of receptors that might be present (i.e., terrestrial and/or aquatic), determine whether PRS 54-007(d) should be aggregated with other PRSs, and develop the ESCM for PRS 54-007(d).

The scoping evaluation establishes the breadth and focus of the screening assessment. One result of the scoping process is an ESCM for PRS 54-007(d). The ESCM is contained within the ecological scoping checklist, which is provided in the VCA plan (Appendix H).

PRS 54-007(d) is located in a highly disturbed area of the mesa top. Mixed grasses and forbs grew around the septic tank and a dense piñon-juniper community is growing over the leach field. The vegetation class is designated as piñon-juniper/juniper-savannah and developed. There are signs of habitation by terrestrial receptors, such as birds and burrowing gophers. Habitat considered suitable for threatened or endangered species was not identified at PRS 54-007(d) (Appendix H).

All potential releases of contaminants would have been subsurface in nature; therefore, surface transport is not considered a mechanism for exposure to receptors. Potential for contamination of surface water or aquatic receptors is not considered because there is no surface water at PRS 54-007(d). Groundwater transport is not applicable because of the significant depth of the regional aquifer (approximately 700–1000 ft). PRS 54-007(d) is well removed from the mesa edges and not subject to mass wasting. The possibility of contact with contaminants via plants and burrowing animals are the primary potential exposures for terrestrial ecological receptors. No sites are contiguous to or upgradient from PRS 54-007(d).

(b) Screening Evaluation

The purpose of the ecological screening evaluation is to identify chemicals of potential ecological concern (COPECs) for PRS 54-007(d). The evaluation involves the calculation of HQs for all COPCs and all appropriate screening receptors by comparing the maximum sample concentrations to the final (minimum) ESLs (LANL 1999, 64783). HQs are the ratios of the maximum COPC concentrations to the lowest available ESLs. The HI is a sum of HQs and an HQ or HI greater than 1.0 is considered an indication of potential adverse impacts. The COPCs resulting in an HQ greater than 0.3 are identified as COPECs.

A screening evaluation was conducted for this site because some exposure pathways may be complete for some receptors. The purpose of the screening evaluation is to identify COPECs and not to calculate risk. Specifically, the HQ analysis is a conservative indication of potential risk that minimizes the potential of overlooking possible COPECs. Maximum soil exposure point concentrations and minimum ESLs are

used for each COPC to ensure a conservative evaluation. ESLs were selected from all available data for terrestrial receptors in the Laboratory's ECORISK database (LANL 2000, 67822.1). Results of this comparison are shown in Table 3.5-4.

Table 3.5-4
Final ESL Comparisons for Terrestrial Receptors, PRS 54-007(d)

COPC	Maximum Soil Concentration 0–5 ft bgs (mg/kg)	Final ESL (mg/kg)	Receptor	HQ (unitless)
Acetone	0.069	1.8	Mouse	3.8E-02
Benzene	0.0016	65	Mouse	2.5E-05
Bromomethane	0.0023	No value	–[a]	–[b]
2-Butanone	0.0084	960	Mouse	8.8E-06
Carbon disulfide	0.002	No value	–	–
Antimony	9.2(U)	0.5	Plant	18.4

[a] No toxicity information is available for any receptor for this chemical.

[b] HQ not calculated because no ESLs are available for this chemical.

The detected COPCs did not exceed their final ESLs and the HQs were less than 0.3. Therefore, these COPCs are not evaluated further. Antimony was not detected but detection limits of 9 mg/kg were above the final ESL of 0.5 mg/kg and two chemicals do not have ESLs. Antimony, bromomethane, and carbon disulfide are identified as COPECs and are discussed further in the uncertainty analysis.

(c) Uncertainty Analysis

The COPC concentrations used in all exposure calculations of HQs were the maximum concentrations in soil, thereby overestimating the actual concentration of each COPC. The COPCs were also assumed to be 100% bioavailable at the maximum concentration, and the maximum concentration was assumed to be uniform throughout the site. Both these assumptions are likely to overestimate the actual exposure to the receptor species.

Aroclor-1254, DDE[4,4'-], DDT[4,4'-], and toluene were detected in a single sample in the1995 soil samples, but not in the sludge samples. Therefore, they are not considered COPCs related to the septic system (Table 3.5-5).

Table 3.5-5
Final ESL Comparisons for Non-Site Related Chemicals

Analyte	Maximum Soil Concentration 0–5 ft bgs (mg/kg)	Final ESL (mg/kg)	Receptor	HQ (unitless)
Aroclor-1254	0.25	0.12	Shrew	2.1E+00
DDE[4,4'-]	0.0053	0.0018	Kestrel (falcon)	2.9E+00
DDT[4,4'-]	0.0046	0.0028	Robin (invertebrate)	1.6E+00
Toluene	0.004	1.8	Mouse	2.0E-03

The HQ for toluene was less than 0.3 and is not evaluated further. Chemicals with HQs greater than 0.3 are discussed below.

Antimony. Antimony was not detected in soil at PRS 54-007(d) but detection limits (approximately 9 mg/kg) were above the soil BV (0.83 mg/kg) and the final ESL of 0.5 mg/kg for plants. The detection limit was also above ESLs for rabbit, deer mouse, and shrew (Table 3.5-6). Antimony also was not detected in the 1995 and 2000 sludge samples at a detection limit of 0.043 mg/L so it is not related to septic tank releases. Therefore, antimony is not a COPEC and does not require further evaluation.

Aroclor-1254. Aroclor-1254 was not detected in the tank contents (see Table 3.3-1) and its presence is not related to site activities. It was detected in one sample in the 0- to 5-ft depth at location 54-9216. The ECORISK database provides toxicity information for all receptors except plants and soil invertebrates for Aroclor-1254 (LANL 2000, 67822.1). The maximum detected concentration of Aroclor-1254 was less than the ESLs for seven receptors (omnivorous robin, herbivorous robin, carnivorous and insectivorous kestrel, deer mouse, desert cottontail, and fox), but was greater than the ESLs for two receptors (insectivorous robin and vagrant shrew). The HQs for these receptors were 1.3 to 2.1, respectively (Table 3.5-6). Because of the conservative nature of the ESLs and the broad distribution of receptor populations across the area relative to the small and narrow area of the PRS, these HQs indicate that Aroclor-1254 does not pose a potential risk to either the robin or the shrew populations. Aroclor-1254 also does not pose a potential risk to the Mexican spotted owl, based on the low HQ (0.27) for the carnivorous kestrel. Therefore, based on the dynamic nature of the receptor populations and the low HQs (2.1 or less), Aroclor-1254 does not pose a potential risk to ecological receptors.

DDT[4,4'-]. DDT[4,4'-] was not detected in the tank contents (see Table 3.3-1) and its presence is not related to site activities. It was detected in one sample within the 0- to 5-ft depth at location 54-9216. The ECORISK database provides toxicity information for all receptors except the plants and soil invertebrates for 4,4'-DDT (LANL 2000, 67822.1). The maximum detected concentration of 4,4'-DDT was less than the ESLs for seven receptors (herbivorous robin, omnivore robin, kestrel, deer mouse, vagrant shrew, desert cottontail, and fox), but was greater than the ESLs for the herbivorous robin. The HQ for this receptor is 1.6 (Table 3.5-6), which is equivalent to 1.0 given the conservative nature of the ESLs. In addition, because of the broad distribution of receptor populations across the area relative to the small and narrow area of the PRS, these HQs indicate that 4,4'-DDT does not pose a potential risk to the robin populations. Also, 4,4'-DDT does not pose a potential risk to the Mexican spotted owl, based on the relatively low HQ (0.8) for the carnivorous kestrel. Therefore, 4,4'-DDT does not pose a potential risk to ecological receptors.

DDE[4,4']. DDE[4,4'-] was not detected in the tank contents (see Table 3.3-1) and its presence is not related to site activities. It was detected in one sample in the 0- to 5-ft depth at location 54-9216. The ECORISK database provides 4,4'-DDE toxicity information for all receptors except the plants and soil invertebrates (LANL 2000, 67822.1). The maximum detected concentration of 4,4'-DDE was less than the ESLs for five receptors (herbivorous robin, deer mouse, vagrant shrew, desert cottontail, and fox), but greater than the ESLs for four receptors (insectivorous robin, omnivore robin, intermediate kestrel and carnivorous kestrel). The HQs for these receptors ranged from 1.2 to 2.9. Given the conservative nature of the ESLs and the broad distribution of receptor populations across the area relative to the small and narrow area of the PRS, these HQs indicate that 4,4'-DDE does not pose a potential risk to receptor populations; 4,4'-DDE also does not pose a potential risk to the Mexican spotted owl, based on the low HQ (2.9) for the carnivorous kestrel. Therefore, 4,4'-DDE does not pose a potential risk to ecological receptors.

Table 3.5-6
Hazard Quotients and Hazard Indices, PRS 54-007(d)[a]

Analyte	Maximum Soil Concentration (mg/kg)	Plant	Invertebrate	Deer Mouse	Vagrant Shrew	Desert Cottontail	Robin Insectivorous	Robin Omnivore	Robin Herbivorous	Kestrel Intermediate Carnivorous	Kestrel 100% Carnivorous	Red Fox
Antimony	9.2(U)	1.84E+01	NC[b]	9.20E+00	1.56E+01	1.48E+00	NC	NC	NC	NC	NC	9.89E-02
Aroclor-1254	0.25	2.50E-02	NC	9.62E-01	2.06E+00	1.25E-02	1.32E+00	6.76E-01	5.56E-02	3.16E-01	2.75E-01	3.33E-01
DDE[4,4]	0.0053	NC	NC	1.51E-04	3.12E-04	1.43E-06	2.41E+00	1.23E+00	8.69E-02	1.77E+00	2.94E+00	2.94E-04
DDT[4,4]	0.0046	NC	NC	1.59E-03	3.29E-03	1.64E-05	1.64E+00	8.36E-01	6.13E-02	7.60E-01	1.10E+00	1.77E-03
Hazard Index[c]		18.4	NC	10.2	17.7	1.5	5.4	2.7	2.0	2.9	4.3	0.43

[a] HQ is the derived by dividing maximum soil concentration by ESL.

[b] NC=Not calculated because ESLs are not available for this chemical receptor combination.

[c] HI is the sum of HQs for each receptor.

The Laboratory ESL database does not contain toxicity information for bromomethane and carbon disulfide because the current literature does not have any data (LANL 2000, 67822.1). Uncertainty concerning potential ecological impacts for these chemicals is discussed below.

Bromomethane. Bromomethane was detected in 2 of 33 soil samples at a maximum concentration of 0.0023 mg/kg, which is less than the EQL (0.005 mg/kg). Low levels and infrequent detection indicate that bromomethane is not a major contributor to contamination. It was also not detected in tank contents. Therefore, it is not retained as a COPEC.

Carbon disulfide. Carbon disulfide was detected in 1 of 33 soil samples at a concentration of 0.002 mg/kg, which is less than the EQL (0.005 mg/kg). Low levels and infrequent detection indicate that carbon disulfide is not a major contributor to contamination. It also was not detected in tank contents. Therefore, it is not retained as a COPEC.

d) Interpretation

The maximum concentrations of COPCs that were detected in soil were less than their final ESLs. Antimony was not detected, but the detection limit was greater than its final ESL. However, the ESL is based on effects on plants and there is no visible evidence of effects at the site. In addition, antimony was not detected in the septic tank in 1995 and 2000. Aroclor-1254, DDE, and DDT were detected only in the soil and not in the septic tank. The maximum concentrations for these three organic chemicals were slightly greater than final ESLs. The HIs for this assessment ranged from 0.43 (fox) to 18.4 (plant) (Table 3.5-6). The larger HIs are driven by antimony, which was not detected in any sample. Therefore, no COPECs are present at PRS 54-007(d).

3.5.2 Surface Water Assessment

A surface water assessment was performed for PRS 54-007(d) in accordance with LANL-ER-SOP 2.01. A surface water runoff score of 23.3 was assigned indicating low potential for erosion (see Appendix B).

3.6 Conclusions and Recommendations

There are no documented operational spills or unintentional releases associated with PRS 54-007(d). In the human health screening assessment, the maximum detected concentrations of COPCs were less than 0.1 of their respective SALs for noncarcinogens and less than SALs for carcinogens. Antimony had a detection limit greater than 0.1 of its SAL but less than the SAL. The sum of the hazard quotients for the noncarcinogenic COPCs is less than 1.0 and the potential cancer risk is less than 10^{-5}. The ecological screening assessment did not identify any COPECs.

PRS 54-007(d) is recommended for NFA, based on Criterion 5, which states that the PRS has been characterized or remediated in accordance with applicable state or federal regulations and that the available data indicate that chemicals of concern are either not present or are present at concentrations that would pose an acceptable risk under projected future land use (NMED 1998, 57897).

4.0 WASTE MANAGEMENT

All wastes were stored and managed in accordance with EPA, NMED, DOE, and Laboratory requirements. Wastes generated during the VCA activities included septic tank liquid and sludge, decontamination wash water, concrete septic tanks, associated tank debris, drill cuttings, plastic sheeting used to place under and over excavated soils, and personal protective equipment.

4.1 PRS 51-001

Based on waste characterization results, the septic tank contents, wash water, and drill cuttings from the seepage pit boreholes were managed as mixed low-level radioactive waste. The empty septic tank was pressure washed and inspected to meet RCRA requirements for decontamination of hazardous debris. The tank was subsequently disposed of as low-level radioactive waste at MDA G at TA-54. Debris, PPE, and plastic sheeting were disposed of at TA-54.

4.2 PRS 54-007(d)

Based on waste characterization results, the septic tank contents and wash water were managed at the Laboratory's TA-46 SWCS facility. The empty septic tank was pressure washed and disposed of as industrial waste at the Rio Rancho industrial waste landfill. Debris, PPE, and plastic sheeting were disposed of at TA-54.

4.3 Site Restoration

The areas around the septic tanks, seepage pit and drain field were regraded and revegetated.

5.0 REFERENCES

The following list includes all references cited in this appendix. Parenthetical information following each reference provides the author, publication date, and the ER identification (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, where applicable, with the ER Project reference library titled "Reference Set for Material Disposal Areas, Technical Area 54."

Copies of the reference library are maintained at the NMED Hazardous Waste Bureau; the DOE Los Alamos Area Office; United States Environmental Protection Agency, Region 6; and the ER Project Material Disposal Areas Focus Area. 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.

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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
BTEX	benzene, toluene, ethylbenzene, xylene
BV	background value
COPC	chemical of potential concern
COPEC	chemical of potential ecological concern
CRDL	contract-required detection limit
CVAA	cold vapor atomic absorption
DOE	US Department of Energy
DRO	diesel range organics
ECSM	ecological conceptual site model
EETF	Experimental Engineering Test Facility
EPA	US Environmental Protection Agency
EQL	estimated quantitation limit
ER	environmental restoration
ESCM	ecological site conceptual model
ESL	ecological screening levels
EQL	estimated quantitation limit
GMFZ	Guaje Mountain fault zone
GRO	gasoline range organics
HI	hazard index
HQ	hazard quotient
HRMB	Hazardous and Radioactive Materials Bureau
HSWA	Hazardous and Solid Waste Amendments of 1984
ICPES	inductively coupled plasma emission spectroscopy
IWP	installation work plan
JCNNM	Johnson Controls Northern New Mexico
LANL	Los Alamos National Laboratory
LCS	laboratory control samples
MDA	material disposal area
NFA	no further action
NFG	national functional guidelines
NMED	New Mexico Environment Department
NOAEL	no observed adverse effect level

OU	operable unit
PCB	polychlorinated biphenyl
PAH	polyaromatic hydrocarbon
PPE	personal protection equipment
PRS	potential release site
PVCQA	quality assurance
QC	quality control
RANT	Radioassay and Nondestructive Testing
RCRA	Resource Conservation and Recovery Act
RfD	reference dose
RFI	RCRA facility investigation
RSI	request for supplemental information
SAL	screening action level
SF	slope factor
SOP	standard operating procedure
SOW	statement of work
SVOC	semivolatile organic compound
SWCS	sanitary waste consolidation system
SWMU	solid waste management unit
TAL	target analyte list
TPU	total propagated uncertainty
TA	technical area
TAL	target analyte list
TCLP	toxicity characteristic leaching procedure
TPH	total petroleum hydrocarbons
TPU	total propagated uncertainty
SAL	screening action level
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.

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.

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.

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.

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

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 ER Project 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

Operational and Environmental Setting

APPENDIX B OPERATIONAL AND ENVIRONMENTAL SETTING

B-1.0 OPERATIONAL HISTORY AND LAND USE

Technical Areas (TAs) 51 and 54 are located in the east-central portion of the Los Alamos National Laboratory (Laboratory) (Figure 1.0-1, Section 1) on Mesita del Buey between Pajarito Canyon (on the south) and Cañada del Buey (on the north). During the late 1950s, the Laboratory, with approval of the US Atomic Energy Commission and upon recommendation of the US Geological Survey, selected TA-54 for disposal of Laboratory-derived waste. Since that time, the site has functioned as a major storage and disposal facility with some permitted treatment of Laboratory-derived wastes. There are four material disposal areas (MDAs) at TA-54, which have been used to store and/or dispose of solid, sensitive (classified), hazardous, radioactive, or mixed waste generated at the Laboratory.

MDA G, the first disposal area, accepted its first shipment of radioactive waste in 1957 and is still in operation. The Department of Energy (DOE) authorized MDA G for the disposal of low-level and transuranic (TRU) radioactive waste and certain radioactively contaminated infectious waste, asbestos-contaminated material, and polychlorinated biphenyls (PCBs) and for the temporary placement of TRU waste. The New Mexico Environment Department (NMED) issued a permit for the site for the storage of mixed waste. MDA L opened during the late 1950s for the disposal of liquid chemical waste; it is operating as a storage facility permitted by the Resource Conservation and Recovery Act (RCRA). MDA H opened in 1960 and was used for the disposal of classified, noncontainerized, solid wastes, some of which were residually contaminated with radioactive, hazardous, and high-explosive constituents. MDA H is no longer operational but has not undergone formal closure. Finally, MDA J has been used since 1961 for the disposal of administratively controlled solid wastes and for the storage and disposal of special wastes. MDA J will be closed in Fiscal Year 2001 as a solid waste and special waste facility in accordance with New Mexico Solid Waste Management Regulations, 20 NMAC 9.1, Subpart V. A closure plan has been submitted (Plum 1999, 63136). Rogers (1977, 5707 and 5708) and Chapter 2 of the RCRA facility investigation (RFI) work plan (LANL 1992, 7669) describe the TA-54 area and document the uses of the MDAs. The performance assessment and composite analysis report (Hollis et al. 1997, 63131) and the safety analysis report (LANL 1995, 63300) present additional information on MDA G.

TA-51 is the base of operations for the Experimental Engineering Test Facility (EETF), which supports research to develop effective isolation techniques for the burial of wastes in semiarid climates. The EETF was built in 1980, and support offices for staff were constructed in 1986.

B-2.0 CLIMATE

Mesita del Buey has a semiarid, temperate mountain climate (Bowen 1990, 6899). Average annual precipitation at a weather station at MDA G is approximately 14 in. (35.6 cm); about 40% of this occurs as brief, intense thunderstorms during July and August. Snowfall is greatest from December through March; heavy snowfall is infrequent during other months. Surface water runoff can occur during summer thunderstorms, frontal storms, and snowmelt periods, but the majority of runoff and resultant erosion probably occurs during the summer thunderstorm period. The canyon-mesa topography at TA-54 affects wind speed and direction in a dramatic way, as indicated by measurements taken at meteorological stations on Mesita del Buey and within Cañada del Buey and Pajarito Canyon. Mesa-top winds flow predominately south to southwest during the day. Canyon winds are strongly channeled; they flow predominately up canyon (north-northwest) during the day and down canyon (south-southeast) and across the mesa (east) at night. The strongest winds typically occur in the spring. Summer afternoon temperatures generally range between 70°F and 90°F, and typical winter temperatures range between 30°F and 50°F during the day and 15°F and 25°F at night.

B-3.0 GEOLOGY

Mesita del Buey is relatively flat and narrow, with steep sides draining into Cañada del Buey to the north and Pajarito Canyon to the south. The north-facing slope of the mesa has a gentler gradient than the south-facing slope. The south-facing slope of Mesita del Buey is almost vertical near the rim and becomes more gently sloped toward the canyon floor approximately 100 ft (30 m) below.

B-3.1 Stratigraphy

In the discussions below of Bandelier Tuff, the term *welding* is used to differentiate between tuffs that are uncompacted and porous (*nonwelded*) and those that are more compacted and dense (welded). In the field, the degree of welding in tuff is quantified by the degree of flattening of pumice fragments (a higher degree of flattening and elongation equals a higher degree of welding). Petrographically, welded tuffs show adhesion (welding) of grains while nonwelded tuffs do not. The term *devitrified* is applied to tuff whose volcanic glass has crystallized.

The Tshirege Member of the Bandelier Tuff is a compound cooling unit that resulted from several successive ash-flow deposits separated by periods of inactivity, which allowed for partial cooling of each unit. Properties related to water flow and contaminant migration (e.g., density, porosity, degree of welding, fracture content, and mineralogy) vary both vertically and laterally as a result of localized emplacement temperature, thickness, gas content, and composition. Figure B-3.1-1 shows the generalized stratigraphy of the area.

Tshirege Member Unit 2 of the Bandelier Tuff

Unit 2 of the Tshirege Member of the Bandelier Tuff is competent, resistant caprock that forms the surface of Mesita del Buey. Its thickness varies from 35 ft (10.7 m) near MDA H to 45 ft to 50 ft (13.7 m to 15.2 m) near MDA L to 39 ft (11.9 m) near MDA G. Where it is exposed, Unit 2 forms nearly vertical cliffs on the sides of the mesa. The rock is described as a moderately welded ash-flow tuff composed of crystal-rich, devitrified pumice fragments in a matrix of ash, shards, and phenocrysts (primarily potassium feldspar and quartz).

Unit 2 is extensively fractured as a consequence of contraction during postdepositional cooling. The cooling-joint fractures are visible on mesa edges and on the walls of pits. In general, the fractures dissipate at the bottom of Unit 2. On average, fractures in Unit 2 are nearly vertical. Mean spacing between fractures ranges between 1.9 ft and 2.6 ft (0.6 m and 8.8 m), and fracture width ranges between less than 0.03 in. and 0.51 in. (1 mm and 13 mm) with a median of 0.12 in. (3 mm). Fractures are typically filled with clays to a depth of about 9.9 ft (3 m); smectites are the dominant clay minerals present. Smectites are known for their tendency to swell when water is present and for their ability to strongly bind certain elements, both of which have implications for transport of radionuclides in fractures. Opal and calcite can occur throughout the fractured length, usually in the presence of tree and plant roots (live and decomposed); the presence of both the minerals and the roots suggests some water at depth in fractures.

At the base of Unit 2 is a series of thin, less than 3.9-in.-thick (10-cm-thick), discontinuous, crystal-rich, fine- to coarse-grained surge deposits. Bedding structures are often observed in these deposits. The surge beds mark the base of Unit 2.

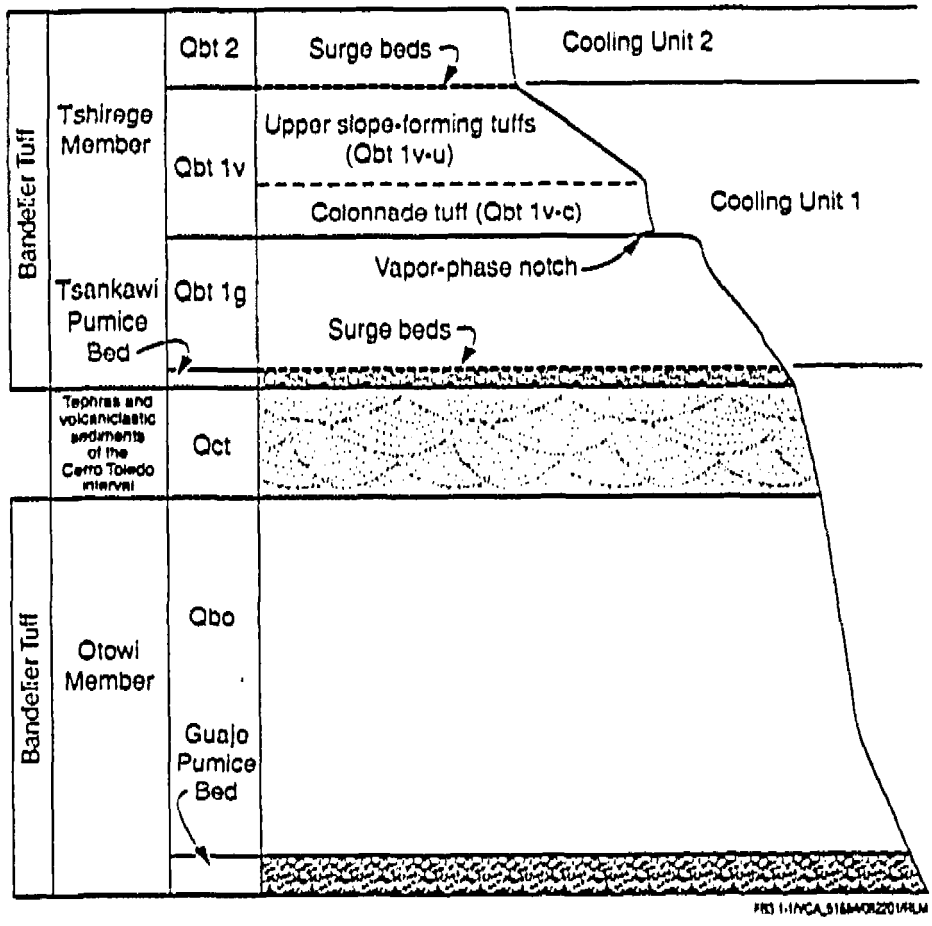


Figure B-3.1-1. Generalized stratigraphy of TA-54

Tshirege Member Unit 1v of the Bandelier Tuff

Tshirege Member Unit 1v is a vapor-phase-altered cooling unit underlying Unit 2. This unit forms sloping outcrops, which contrast with the near-vertical cliffs of Unit 2. Unit 1v is further subdivided into Units 1vu and 1vc.

Unit 1vu. The uppermost portion of Unit 1v is devitrified and vapor-phase-altered ash-fall and ash-flow tuff and has been designated Unit 1vu, where u signifies upper. It is about 90 ft (27.4) thick near MDA H and thins to the east to about 46 ft (14 m) near MDA G. Unit 1vu is unconsolidated at its base and becomes moderately welded nearer the overlying Unit 2. Only the more prominent cooling fractures originating in Unit 2 continue into the more welded upper section of Unit 1vu but die out in the less-consolidated lower section. More typically, fractures in Unit 2 do not extend into Unit 1vu.

Unit 1vc. Beneath Unit 1vu is Unit 1vc, where c stands for colonnade, named for the columnar jointing visible in cliffs formed from this unit. Unit 1vc is a poorly welded, devitrified ash-flow tuff at its base and top, becoming more welded in its interior. Unit 1vc is 23 ft to 26 ft (7 m to 8 m) thick in the eastern reaches of Mesita del Buey and 49 ft (15 m) thick in the western reaches.

Tshirege Member Unit 1g of the Bandelier Tuff

The basal contact of Unit 1vc is marked by a rapid change (within 0.7 ft [0.2 m] vertical) from devitrified (crystallized) matrix in Unit 1vc to vitric (glassy) matrix in the underlying Unit 1g. Vitric pumices in Unit 1g stand out in relief on weathered outcrops, while devitrified pumices above this interval are weathered out. In outcrop, this devitrification interval forms a prominent erosional recess termed the *vapor-phase notch*. There is no depositional break associated with the vapor-phase notch; the abrupt transition suggests that this feature is the base of the devitrification that occurred in the hot interior of the cooling ash-flow sheet after emplacement.

Unit 1g is a vitric, pumiceous, nonwelded ash-flow tuff. It is about 150 ft (45.7 m) thick beneath MDA H and about 49 ft (15 m) thick beneath MDA G. Borehole 54-1023 at MDA H penetrated this unit. Few fractures are observed in the visible outcrops of this unit, and weathered cliff faces have a distinctive Swiss-cheese appearance because of the softness of the tuff. The uppermost 5 ft to 20 ft (1.5 m to 6.1 m) of Unit 1g are iron-stained and slightly welded. This portion of Unit 1g is resistant to erosion, helping to preserve the vapor-phase notch in outcrop. A distinctive pumice-poor surge deposit forms the base of Unit 1g.

Tshirege Member of the Bandelier Tuff, Tsankawi Pumice Bed

The Tsankawi Pumice Bed is the basal air-fall deposit of the Tshirege Member of the Bandelier Tuff. It is a thin bed of gravel-sized vitric pumice. It is about 3 ft (1 m) thick in the vicinity of MDA L and about 2 ft (0.6 m) thick at the eastern terminus.

Cerro Toledo Interval

The Cerro Toledo interval consists of thin beds of tuffaceous sandstones, paleosols, siltstones, ash, and pumice falls; the interval separates the Tshirege and Otowi Members of the Bandelier Tuff. The Cerro Toledo interval also includes localized gravel- and cobble-rich fluvial deposits predominantly derived from intermediate composition lavas eroded from the Jemez Mountains west of the Pajarito Plateau. The interval thins to 20 ft (6.1 m) at the eastern portion of MDA G. Borehole 54-1023 at MDA H penetrated this unit.

Otowi Member of the Bandelier Tuff

The Otowi Member tuffs are about 98 ft (30 m) thick in the northwestern portion of Mesita del Buey and become thinner toward MDA G. The tuffs are a massive, nonwelded, pumice-rich, and mostly vitric ash flow. The pumices are fully inflated, supporting tubular structures that have not collapsed as a result of welding. The matrix is an unsorted mix of glass shards, phenocrysts, perlite clasts, and minute, broken pumice fragments.

Otowi Member of the Bandelier Tuff, Guaje Pumice Bed

The Guaje Pumice Bed is the basal air-fall deposit of the Otowi Member of the Bandelier Tuff. The thickness of the unit has been measured as 10 ft (3 m) in the northwestern reaches of Mesita del Buey and as 12 ft (3.7 m) in Pajarito Canyon south of MDA G. It has not been penetrated by drilling at the eastern part of the mesa. The pumice bed is nonwelded but brittle. Pumice tubes are partially filled with silica cement.

Cerros del Rio Basalts

Few data exist to describe the Cerros del Rio basalts directly beneath TA-54. Local borehole cores at MDA L show that the basalts consist of both angular rubble and dense, fractured masses, with zones of moderately to very porous lavas. Based on the borehole data at MDA L, it is inferred that the Cerros del Rio basalts exist beneath Mesita del Buey. The thickness of the basalt beneath TA-54 is extrapolated to be between 262 ft (79.9 m) and 492 ft (150 m).

Puye Formation

The depth to and thickness of the Puye Formation beneath TA-54 has not been determined. However, 1750 ft (533 m) of Puye Formation sedimentary rocks were encountered beneath 82 ft (24 m) of basalt in a water-supply well in Pajarito Canyon about 0.9 mi (1.5 km) west of Mesita del Buey. The lower part of the Puye Formation hosts the regional aquifer beneath Mesita del Buey.

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 constituents in the TA-54 MDA inventories. 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 1 wt %. 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-54 inventory constituents. 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.

Clay, iron oxide, carbonate minerals, and solid organic matter are known to be present in ancient, buried soils (paleosols) found elsewhere across the Laboratory. In particular, the Cerro Toledo interval, Guaje Pumice Bed, and Puye Formation are known to have buried soils. The occurrence of clay-rich horizons in the subsurface is not known beneath TA-54; however, they may be important (e.g., the Cerro Toledo interval commonly contains paleosol horizons). Vertical water flow may be inhibited and lateral flow enhanced by clay layers; clay has a low permeability. Furthermore, certain inventory constituents would be sorbed onto or complexed with the soil minerals and organic matter present in such zones. Because of these potentially important effects, field and laboratory investigations are underway to identify and characterize clay-rich soil horizons beneath Mesita del Buey.

B-3.3 Seismology

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. The locations of these faults with respect to TA-54 are shown in Figure B-3.3-1.

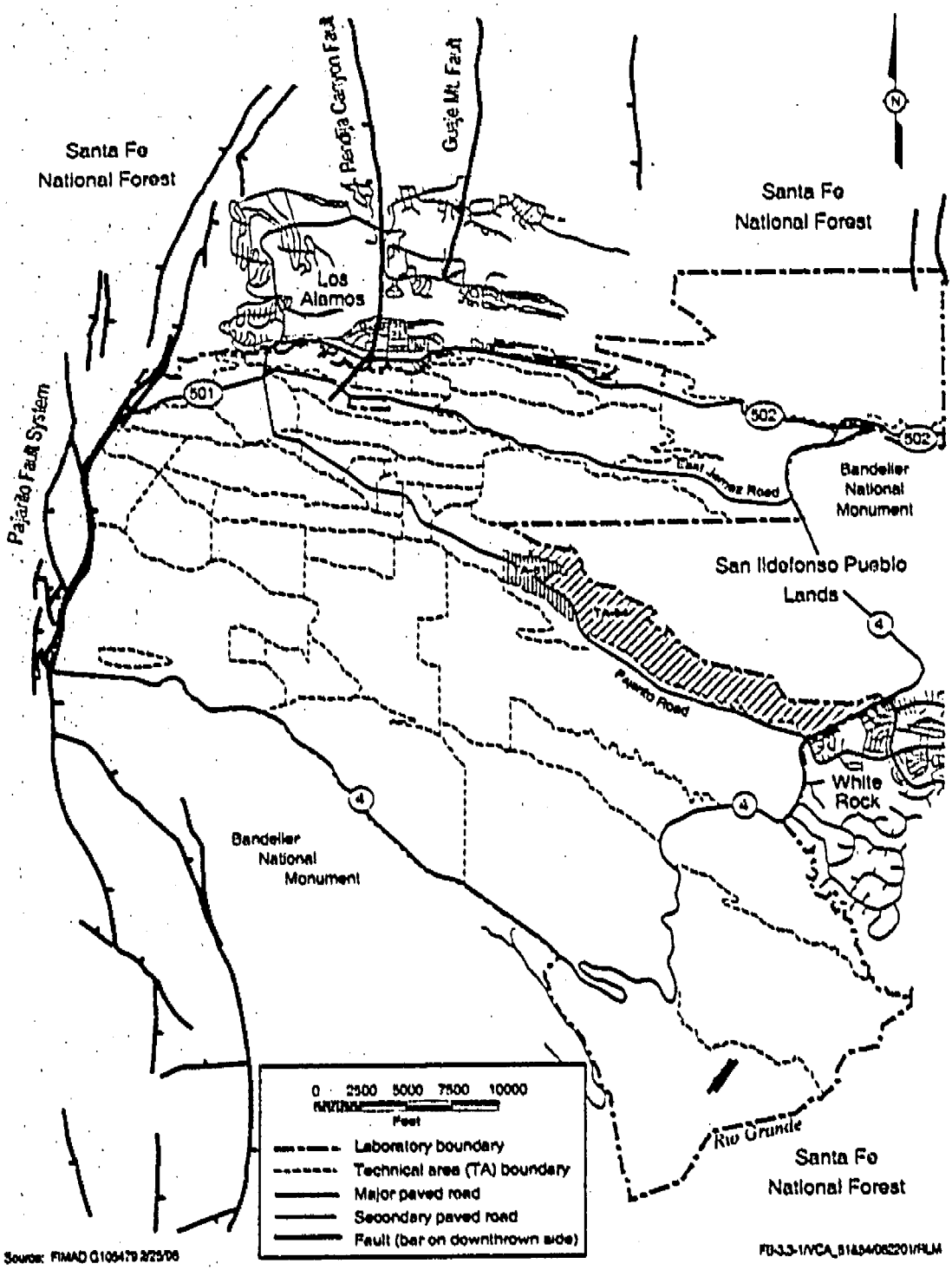


Figure B-3.3-1. Locations of major faults in Laboratory complex

The Pajarito fault is a normal fault, is downthrown to the east, and extends along the western margin of the Laboratory. It defines the active western boundary of the Rio Grande rift and has an average slip rate of 0.003 in./yr (0.07 mm/yr). 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 (3 km) east of the Pajarito fault, and the Guaje Mountain fault is located about 1.2 mi (2 km) east of the Rendija Canyon fault. Geologic evidence reveals that the Pajarito fault has ruptured within the past 1.2 Myr, 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 not very strong compared with earthquakes producing damage to buildings and structures.

Recently, a seismic hazard evaluation was completed to estimate ground motion from possible earthquakes at several sites around the Laboratory. The objective was to determine the design criteria for several nuclear facilities based on potential seismic hazards in accordance with DOE Order 5480.28, "Natural Phenomena Hazards Mitigation." The evaluation led to the following conclusions:

- within 100 yr, a magnitude 6 background earthquake is considered likely, and
- within 10,000 yr, a magnitude 7 Pajarito fault system quake is considered unlikely.

Whether a magnitude 6 or 7 earthquake would result in surface rupture depends on the local geologic conditions, including mesa topography and sequential welded and nonwelded Bandelier Tuff. Peak horizontal accelerations between 0.4 g and 0.6 g were estimated for the sites included in the study. While TA-54 was not included in the study, its geology is similar to two other sites considered (TA-18 and TA-46); results of the study were applied in the safety analysis report for MDA G (LANL 1995, 63300). In the SAR, the maximum design-basis earthquake considered that facility structures must be capable of withstanding was 0.57 g. Such an earthquake was determined not to pose a risk in terms of waste buried below the surface.

B-3.4 Soils

Soils of Mesita del Buey form from the weathering of the Tshirege Member tuffs (phenocrysts and phenocryst fragments, devitrified glass, and minor lithic fragments) and wind-blown sources. Soils on the flanks of the mesa are developed on Tshirege Member tuffs and colluvium with additions from wind-blown and water-transported sources. Native soils have been disturbed by waste management operations over much of the surface of the mesa, but when present, native soils are thickest near the center of the mesa and thinner toward the edges. In general, soils can be considered thin and poorly developed on the mesa surface; they tend to be sandy in texture near the surface and are more clay-like beneath the surface. More highly developed soil profiles exist on the north-facing slopes; they tend to be richer in organic matter. Soil profiles on the south-facing slopes tend to be poorly developed. Soil-forming processes have been identified along fractures in the upper part of the mesa, and the translocation of clay minerals from surface soils into fractures has been described at Mesita del Buey (Reneau and Vaniman 1998, 63135). A discussion of the soils in the Los Alamos area is located in Section 2.5.1.3 of the Environmental Restoration (ER) Project installation work plan (LANL 1995, 49822). The soils on the mesa top at TA-54 were mapped by Nyhan et al. (1978, 5702).

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 contain perennial groundwater in the canyon-bottom alluvium. Dry canyons have only occasional stream flow 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 and 360 m).

B-4.1 Hydrogeologic Conceptual Model

The hydrogeologic model (Figure B-4.1-1) shows that relatively small volumes of water move beneath mesa tops under natural conditions; 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. Mesa-top recharge can be locally significant under disturbed surface conditions. 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.

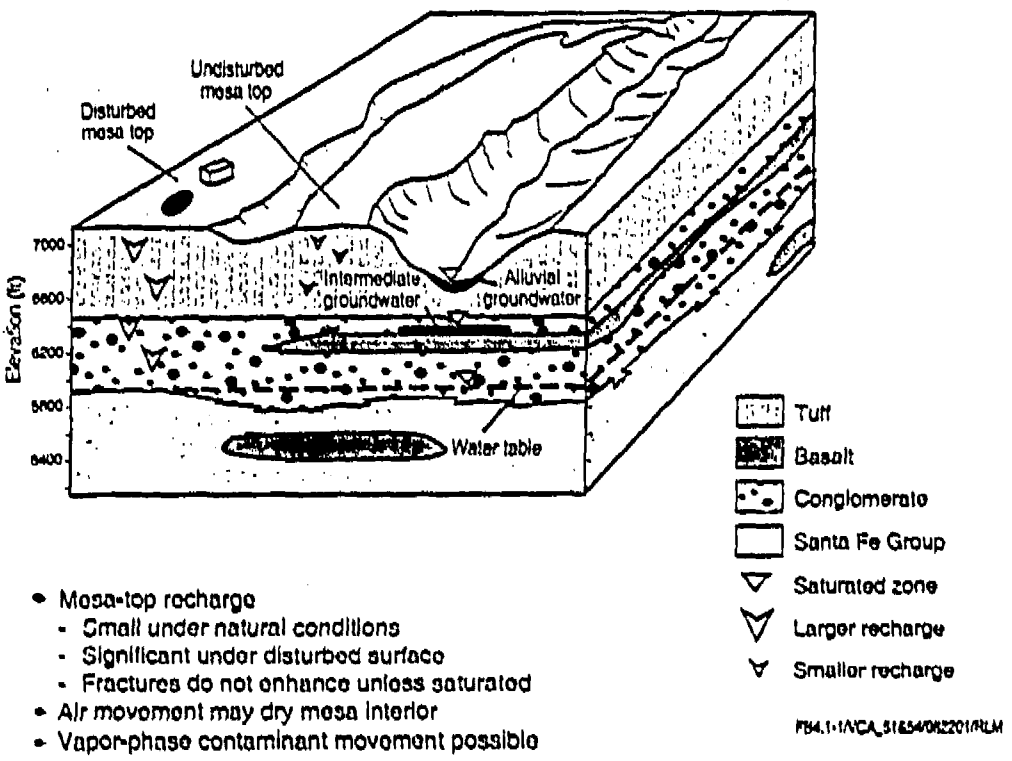


Figure B-4.1-1. Hydrogeologic conceptual model for mesas

B-4.2 Surface Water

The Rio Grande is the major stream in north-central New Mexico. All surface water drainage and groundwater discharge from Pajarito Plateau ultimately arrive at the Rio Grande. The Rio Grande at Otowi, just east of Los Alamos, has a drainage area of 14,300 mi^2 (37,180 km^2) in southern Colorado and northern New Mexico. The discharge for the period of record (1890–1985) has ranged between a minimum of 6980 ft^3 per second (1.7 m^3 per second) in 1902 and 24,400 ft^3 per second (690.8 m^3 per second) in 1920. The river transports about 1 million tons (910,000 metric tons) of suspended sediments past Otowi annually (Graf 1993, 23251). Essentially all Rio Grande flow passes through Cochiti Reservoir (downstream of the Laboratory), which began filling in 1976. The dam is expected to trap at least 90% of the sediments carried by the river (Graf 1993, 23251).

Figure B-4.2-1 shows the locations of the major surface water drainages in the Los Alamos area. Included in Figure B-4.2-1 are the ephemeral, intermittent, and perennial reaches of surface waters; the major wastewater effluent-created reaches; and springs. Naturally perennial surface water reaches are located in Ancho, Pajarito, and Chaquehui Canyons. Within Laboratory boundaries, perennial reaches in the lower portions of Ancho Canyon and Chaquehui Canyon are close enough to the Rio Grande that they extend to the river without being depleted. In Pajarito Canyon, about 1 mi (1.6 km) east of State Road 501, a spring (sometimes called Homestead Spring) feeds a perennial reach a few hundred yards long, followed by an intermittent reach that flows varying distances, depending on climate conditions. Another perennial reach in Pajarito Canyon is located west of the Laboratory boundary below PC Spring; it terminates by infiltration into the alluvium (LANL 1998, 59577). Occasionally, during heavy runoff years, Pajarito Canyon sustains flow, which sometimes extends as far as the Rio Grande (LANL 1998, 59577). Essentially all other reaches of canyons (including Cañada del Buey) within the Laboratory's boundaries are ephemeral; that is, they flow in response to precipitation or snowmelt in the immediate locality. Snowmelt recharges the alluvial groundwater, and discharge from springs supports stream flow for a somewhat longer period.

The canyons of 11 drainage areas, with a total area of 82 mi^2 (213.2 km^2), pass through the Laboratory's eastern boundary. Runoff from heavy thunderstorms and heavy snowmelt reaches the Rio Grande several times a year in some drainages. Los Alamos, Pajarito, and Water Canyons have drainage areas upstream of the east Laboratory boundary that are greater than 10 mi^2 (26 km^2). Pueblo Canyon has 8 mi^2 (20.8 km^2), and the rest have less than 5 mi^2 (13 km^2). Theoretical maximum flood peaks range between 24 ft^3 per second (0.68 m^3 per second) for a 2-yr frequency and 686 ft^3 per second (19.4 m^3 per second) for a 50-yr frequency (McLin 1992, 12014). The overall flooding risk to community and Laboratory buildings is low because nearly all the structures are located on the mesa tops, from which runoff drains rapidly into the deep canyons.

There are no streams on Mesita del Buey; water flows only as stormwater and snowmelt runoff on the mesa and in small drainages off the mesa to the north and the south. Stormwater flows at a number of points along the perimeter of TA-54, as identified and characterized in the "Stormwater Pollution Prevention Plan," which is being prepared for the National Pollutant Discharge Elimination System Permit pursuant to the Clean Water Act. Flooding of the facility is, therefore, not a concern. As a result of runoff, surface erosion occurs, primarily as shallow sheet erosion on the relatively flat parts of the mesa and as channel erosion in major drainages from the mesa top. Runoff from summer storms reaches a maximum in less than 2 hr and lasts less than 24 hr. In contrast, runoff from spring snowmelt occurs over a period of several weeks at a low discharge rate. The amount of eroded material transported in runoff waters is generally higher in summer rainfall events than during snowmelt (Hollis et al. 1997, 63131, p. 2-33).

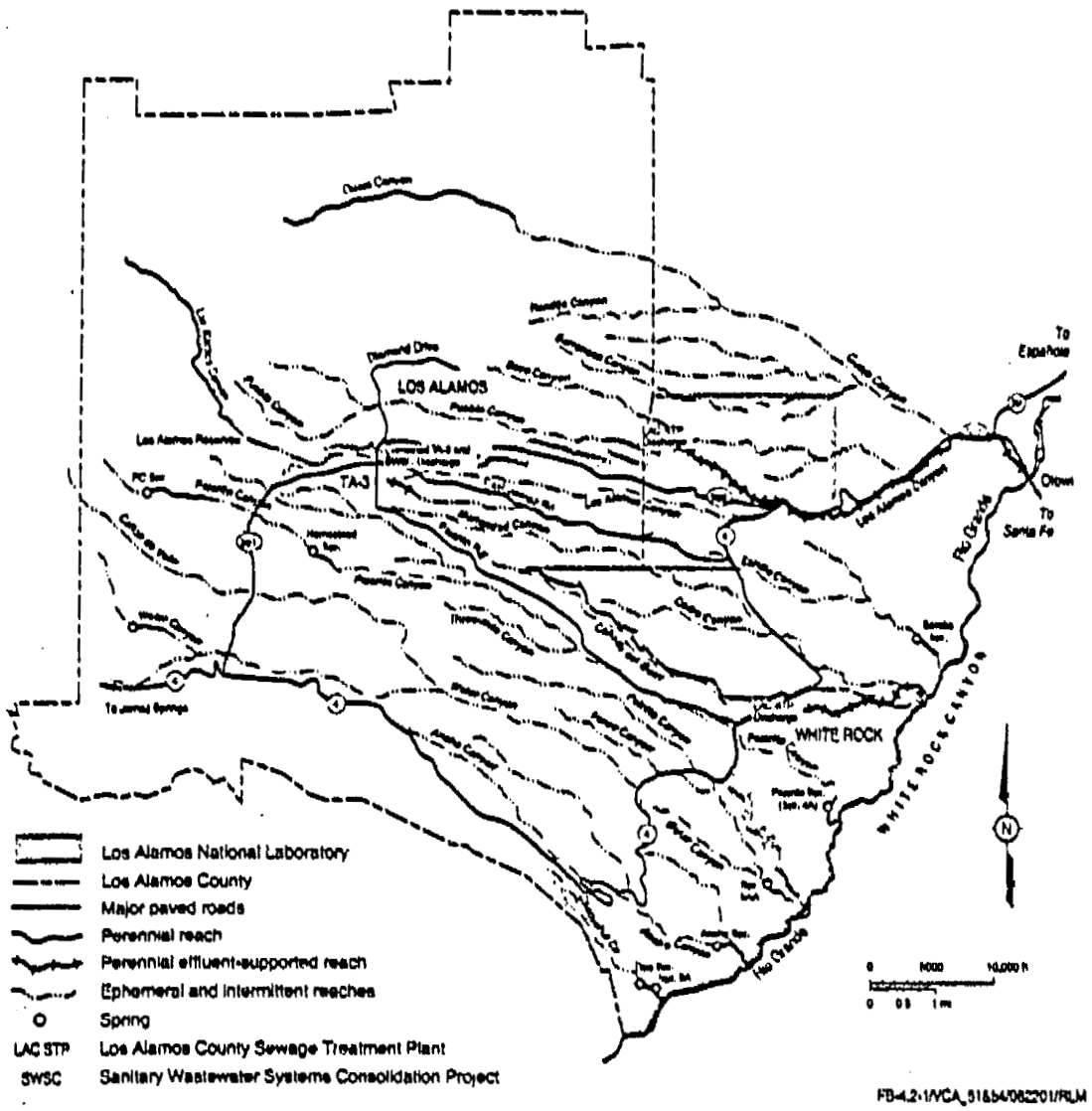


Figure B-4.2-1. Surface water occurrences at Los Alamos (perennial and effluent-supported reaches from Stoker (1993, 56021)

Mesita del Buey is one of the drier mesas found at the Laboratory. Infiltration beneath the mesa appears to be very low, possibly only 0.04 in./yr (1 mm/yr) and occurs during snowmelts or intense summer thunderstorms, which leads to slightly higher moisture contents within the uppermost few meters of the mesa surface. During dry periods, evapotranspiration removes moisture from the surface of the mesa; permeable zones such as fractures and surge beds act as conduits for air and aid in the drying of the mesa (Turin and Rosenberg 1996, 63559). Net infiltration during these alternating infiltration episodes and normal drying conditions is difficult to quantify.

At the Laboratory, surface water runoff and sediment transport are among the potential migration pathways by which contaminants might be transported to off-site receptors. 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.

The Laboratory's ER Project has assessed sediment transport and erosion concerns at over 1000 potential release sites (PRSs). The surface water assessment provides a basis for prioritizing and scheduling actions to control erosion of potentially contaminated soils at specific PRSs. The procedure is a two-part evaluation. Part A is a compilation of existing PRS analytical data, site maps, and knowledge-of-process information. Part B is an assessment of the erosion/sediment transport potential at the PRS. Erosion potential is numerically rated from 1 to 100 using a matrix system. PRSs that score below 40 have a low erosion potential, those that score from 40 to 60 have a medium erosion potential, and those that score above 60 have a high erosion potential. Part A of this assessment is initiated and completed by the Laboratory's ER Project; Part B is completed by the Laboratory's Water Quality and Hydrology Group (ESH-18). A Surface Water Assessment Team, composed of representatives from the ER Project, ESH-18, the Laboratory's Facility Management Group (FSS-7), and the NMED DOE Oversight Bureau, evaluates each completed assessment. If necessary, a best management practice or other action is implemented based on the results of the assessment. PRS 51-001 has a score of 8.8, indicating a low erosion potential, and PRS 54-007(d) has a score of 23.3, also indicating a low erosion potential. The surface water assessments are included with the voluntary corrective action plan in Appendix H.

B-4.3 Groundwater

Groundwater in the area of the Laboratory occurs as

- shallow alluvial groundwater in canyons,
- perched zones beneath some canyons and along the Jemez Mountains (within the Bandelier Tuff, the Cerros del Rio basalts, and the upper part of the Puye Formation), and
- the regional aquifer.

B-4.3.1 Alluvial Waters

The hydrologic characteristics of the canyons bordering Mesita del Buey may influence the hydrology beneath the mesa. To the north, Cañada del Buey contains an intermittent stream. The alluvium is thin; it ranges between 4 ft (1.2 m) and 19 ft (5.7 m), but the underlying weathered tuff ranges in thickness between 12 ft (3.7 m) and 39.6 ft (12 m) (LANL 1999, 64617, p. D-11). Nine observation wells and two moisture-access holes have been installed in Cañada del Buey (CDBO-1 through CDBO-4 in 1985 and CDBO-5 through CDBO-9, CDBM-1, and CDBM-2 in 1992) to detect alluvial water (Figure B-4.3-1). Groundwater has been observed and sampled annually in two of the wells (CDBO-6 and CDBO-7) since their installation (Environmental Protection Group 1994, 45363; Environmental Surveillance Program 1999, 64034); the remaining holes are dry (Purtymun 1995, 45344, pp. 113–114). However, the saturation observed in CDBO-6 and CDBO-7 appears not to be present in the alluvium but rather is perched in the underlying tuff; additional discussion of this groundwater is presented in Section B-4.3.2.

Pajarito Canyon, to the south, also contains an intermittent stream, but the larger flow in this canyon maintains perennial groundwater in the alluvium. Semipermanent wetlands have developed in borrow pits that were excavated in lower Pajarito Canyon east of TA-18 and south of Mesita del Buey. The wetlands frequently contain ponded water from local stormwater runoff, Laboratory discharges, or streamflow (LANL 1998, 59577, p. 3-37). The surface of the water in the wetlands probably coincides with the alluvial water table (Environmental Restoration Project 1996, 55120, p. 6). Potentially one of the largest volumes of discharge to Pajarito Canyon may be from occasional purging of nearby municipal water supply well PM-2 (Figure B-4.3-2). Some years this well is only operated during the summer months, which requires several days of pumping 1000 to 1500 gpm (3800 to 5700 L/m) to clean out the well bore. At times, this may be one of the primary sources of surface water in lower Pajarito Canyon (LANL 1998, 59577, p. 3-37).

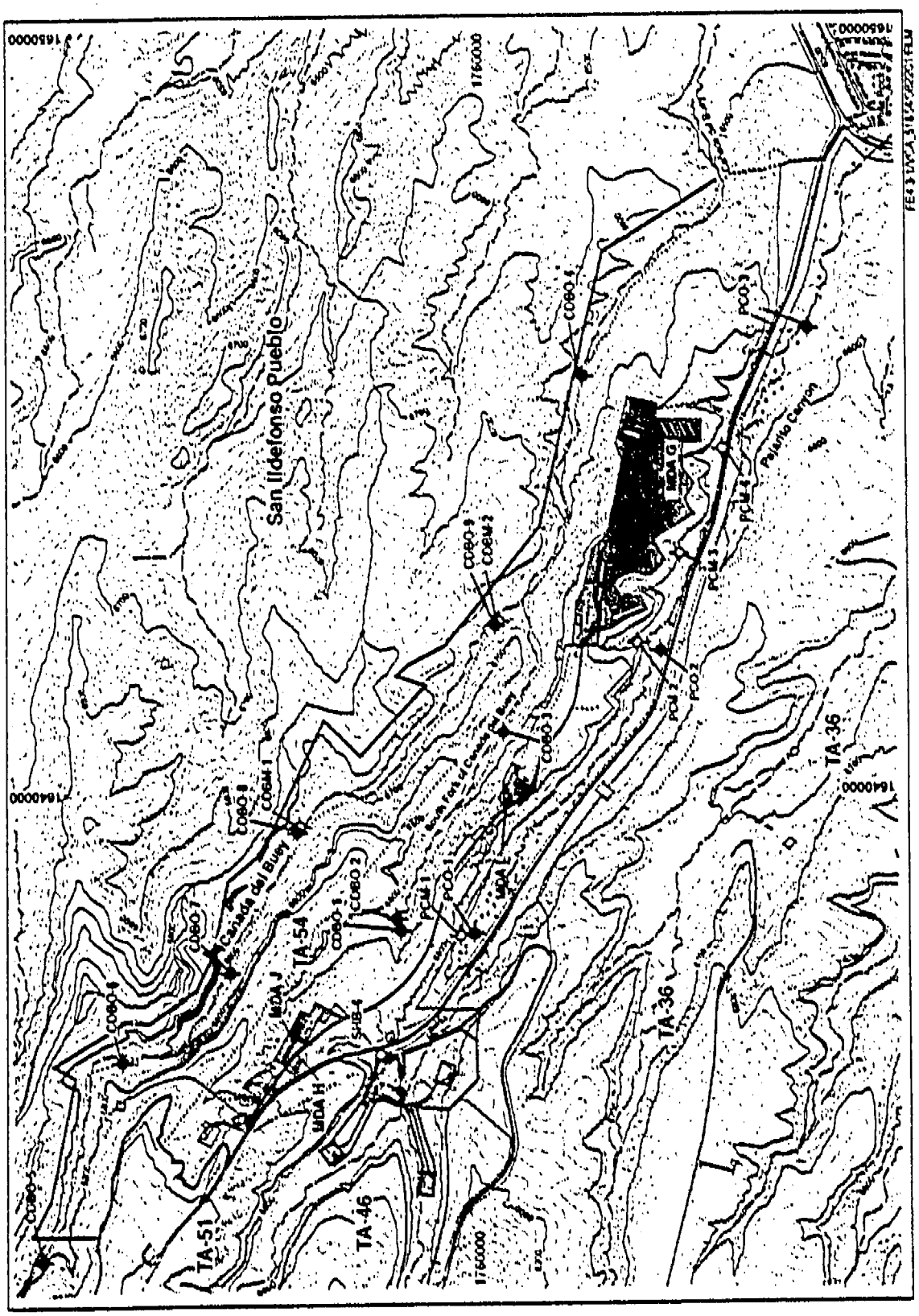


Figure B-4.3-1. Locations of wells and holes for locating alluvial and perched water at TA-54

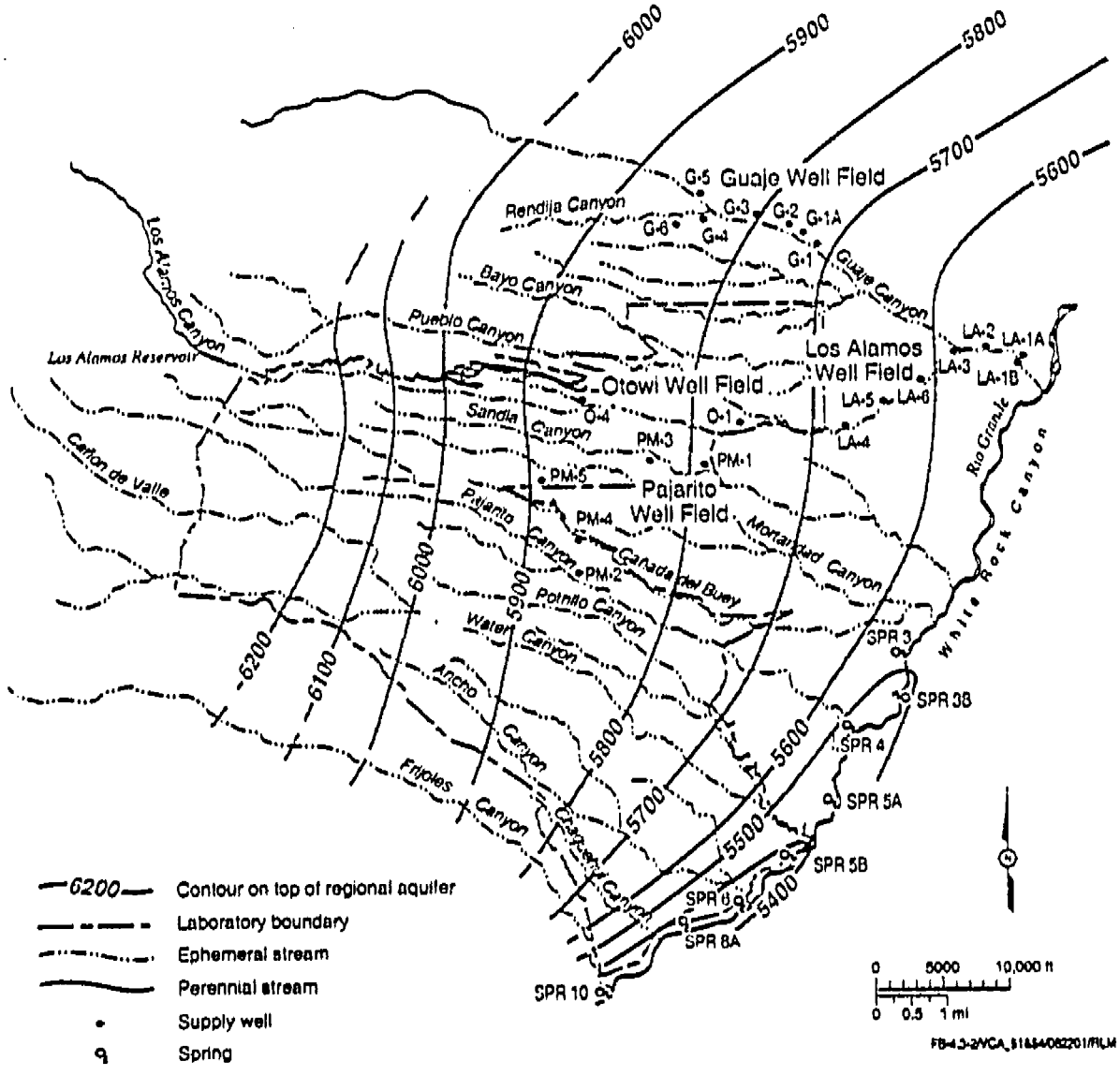


Figure B-4.3-2. Locations of wells and generalized water-level contours on top of the regional aquifer (modified from Purtymun 1984, 6513)

In 1985, three observation wells (PCO-1 through PCO-3) were installed in lower Pajarito Canyon east of TA-18 (Figure B-4.3-1). The three wells were drilled and cased in the canyon near the stream channel to outline the geology and provide a monitoring network of the water in the alluvium perched on the underlying tuff. Alluvial water was identified at depths of 1.3 ft (0.4 m) in PCO-1, 6.3 ft (1.9 m) in PCO-2, and 3.1 ft (0.93 m) in PCO-3 (Devaurs and Purtymun 1985, 7415, p. 12).

In Cañada del Buey, the infiltration rate estimated for the MDA G performance assessment (Hollis et al. 1997, 63131) using in situ moisture contents and hydrologic properties determined from cores is 0.17 in./yr (0.44 cm/yr). Data are not available to estimate infiltration rates in Pajarito Canyon. However, data are available from Mortandad Canyon, which has similar characteristics. Estimates of infiltration rates in that canyon range between 0.8 and 4 in./yr (2 and 10 cm/yr).

Evapotranspiration data for alluvial groundwater in Pajarito Canyon and Cañada del Buey are not available. However, estimates for nearby watersheds are available for comparison. Some studies for Mortandad Canyon indicate approximately 20% of the input to the stream channel is ultimately lost to evapotranspiration (Purtymun 1974, 5476, p. 7). A study of the Los Alamos Canyon system indicated that approximately 75% to 85% of the total input to the watershed is lost to evapotranspiration (Gray 1997, 58208, p. 68).

B-4.3.2 Perched Waters

No perched groundwater has been identified below Mesita del Buey (LANL 1998, 59599). In 1985, four moisture-access holes (PCM-1 through PCM-4) were installed in lower Pajarito Canyon north of the stream channel along the mesa wall to outline the aquifer and to determine whether the aquifer extended beyond the alluvium (Figure B-4.3-1). The moisture-access holes were drilled to depths ranging between 60 ft (18 m) and 100 ft (30 m); all four holes were dry. These holes "document that perched water in Pajarito Canyon, adjacent to Mesita del Buey, is confined to the alluvium in the stream channel and does not extend to the flank of the canyon" (Devaurs and Purtymun 1985, 7415, p. 12).

No perched intermediate zones of saturation have been delineated beneath Pajarito Canyon; however, possible intermediate wet zones have been reported in two boreholes at TA-18. In borehole SHB-4 (Figure B-4.3-1), wet core samples were retrieved from the interval of 125 ft to 145 ft (38 m to 44 m) within the Cerro Toledo interval. RFI borehole 54-1023 at MDA H was drilled into the top of the Cerro Toledo interval but did not encounter saturation within or beneath the mesa. In PM-2 (Figure B-4.3-2), a possible wet zone was reported as "a show of water at 335 ft" (102 m), which may indicate a zone of intermediate perched groundwater (Cooper et al. 1965, 8582, p. 56; Davis et al. 1996, 55446). The pilot hole for this well was drilled using cable tools to a depth of 617 ft (185 m). No other mention of water in the unsaturated zone is found in the descriptive log of drill cuttings for this well (Cooper et al. 1965, 8582, pp. 55–61). Electrical resistivity (geophysical) logs of the borehole at PM-2 did not confirm the presence of water at 335 ft (102 m). The middle of the Otowi Member is present in PM-2 at a depth of 335 ft (102 m); this zone has not previously been observed to contain perched groundwater.

In Cañada del Buey, an isolated 0.5-mi-long (0.8-km-long) segment of saturation has been identified in boreholes CDBO-6 and CDBO-7 (Figure B-4.3-1). The saturation may represent a perched groundwater zone present in the colonnade tuff at the base of Unit 1v of the Tshirege Member of the Bandelier Tuff (LANL 1999, 64617, p. 115). When the holes were drilled in 1992, a 10-ft-thick (3-m-thick) perched water zone was encountered from 34 ft to 44 ft (10.3 m to 13.4 m) in CDBO-6, and a 1-ft- to 2-ft-thick (0.3-m- to 0.6-m-thick) zone of perched groundwater was encountered in CDBO-7 (the depth of the zone was not stated in the drilling information but was probably between 38 ft and 39 ft [11.6 m and 11.9 m]) (Environmental Protection Group 1995, 50285, p. VII-26; Purtymun 1995, 45344, p. 131; LANL 1999, 64617, p. 115). The depth of the alluvium at these two boreholes is 19 ft (5.7 m); the tops of the 10-ft screened intervals within the boreholes are located approximately 15 ft (CDBO-6) and 10 ft (CDBO-7) below the base of the overlying alluvium and are within the tuff (LANL 1999, 64617, pp. D-9 and D-11). Since 1992, water levels have ranged between 0 ft (dry) and 12 ft (saturated) in CDBO-6 and between 0 ft (dry) and 7 ft (saturated) in CDBO-7 (LANL 1996, 55430, p. 4-16). Water levels have typically been measured three times each year since 1995. Significant seasonal variations are not apparent, and the water levels have typically varied by less than 5 ft (1.5 m) (LANL 1999, 64617, p. 3-117). Laboratory group ESH-18 has previously identified the source of the saturation as purge water from nearby municipal water supply well PM-4 (Figure B-4.3-2) because the alluvium is dry upstream of the purge water entry point. Discharges from PM-4 occurred twice in 1998 but only once in the previous four years. Such limited releases would be insufficient to maintain saturation found at the two alluvial observation wells

(Environmental Surveillance Program 1999, 64034, p. 136). It is unknown whether the observed perched saturated zone extends laterally in a direction perpendicular to the stream channel.

B-4.3.3 Regional Aquifer

The regional aquifer of the Los Alamos area is the only aquifer capable of large-scale municipal water supply (Purtymun 1984, 6513). There have been 21 supply wells and 10 test wells drilled into the regional aquifer on or adjacent to the Pajarito Plateau. The 21 supply wells are in four well fields: Los Alamos (seven wells), Guaje (seven wells), Pajarito (five wells), and Otowi (two wells). These well fields are identified in Figure B-4.3-2. The hydrologic characteristics of the regional aquifer measured at each of the supply wells and at eight of the test wells differ because of the geology of the aquifer and the thickness of the saturated zone penetrated by the well.

The Pajarito Field (the field nearest TA-54) contains the most productive supply wells, as suggested by the characteristics shown in Table B-4.3-1. The average saturated thickness of the regional aquifer penetrated by the Pajarito Field wells is 1810 ft (550 m). The age of water in the regional aquifer ranges between a few thousand and more than 40,000 yr, with the youngest water occurring to the west and the oldest to the east. A portion of the regional aquifer discharges into the Rio Grande east of the Laboratory; the 11-mi (18-km) reach of the Rio Grande in White Rock Canyon receives about 5500 acre-ft (6.8 million m^3) annually as discharge from the aquifer.

Table B-4.3-1
Hydrologic Characteristics of Pajarito Field Water Supply Wells

Well Designation	Saturated Thickness, ft (m)	Pumping Rate, gal./min. (L/m)
PM-2	1739 (530)	1401 (5390)
PM-4	1870 (570)	1489 (5728)
PM-5	1910 (582)	2019 (7764)

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 (Figure B-4.3-2). The depths to groundwater below the mesa tops range between about 1200 ft (366 m) along the western margin of the plateau and about 600 ft (183 m) at the eastern margin. The regional aquifer is separated from the alluvial groundwater and intermediate perched zone groundwater by 350 ft to 620 ft (106.7 m to 189 m) of tuff, basalt, and sediments (Environmental Protection Group 1993, 23249). The regional aquifer exhibits artesian conditions in the eastern part along the Rio Grande (Purtymun 1984, 6513). Continuously recorded water-level measurements collected in test wells since the fall of 1992 indicate that, throughout the plateau, the regional aquifer responds to barometric and earth tide effects in the manner typical of confined aquifers.

The hydraulic gradient of the regional aquifer averages about 60 to 80 ft/mi within the Puye Formation but increases to 80 to 100 ft/mi along the eastern edge of the plateau as the groundwater enters the less permeable sediments of the Santa Fe Group. The rate of movement of groundwater in the upper section of the aquifer varies depending on the materials in the aquifer. Aquifer tests indicate that the rate of movement ranges between 20 ft/yr in the Tesuque Formation and 345 ft/yr in the more permeable Puye Formation (Purtymun 1984, 6513). The highest-yielding water supply wells are located within the late Miocene trough described by Purtymun (1984, 6513).

There is considerable uncertainty regarding recharge along the Jemez Mountains. Infiltration of stream flow occurs along the mountain flanks, but the limited drilling to date generally has not indicated the presence of significant recharge. Major recharge of the regional aquifer from the west is inferred because the piezometric surface slopes downward to the east (Figure B-4.3-2). Cushman (1965, 8584) suggested three sources of recharge: infiltration of runoff in canyons, underflow from the Valles Caldera through the Tschicoma Formation, and infiltration on mesas. However, a large quantity of hydrologic, structural, and geochemical data indicate that the caldera may not serve as an appreciable source of recharge to the regional aquifer (Conover et al. 1963, 57044; Griggs 1955, 8795; Goff 1991, 57039). Furthermore, natural recharge through undisturbed Bandelier Tuff on the mesa tops is believed to be insignificant (Purtymun and Kennedy 1971, 4798; Koarl et al. 1986, 15368), and few or no data exist to support an evaluation of canyon runoff as a recharge source.

The total volume of annual recharge near the Pajarito Plateau is apparently less than the quantity of municipal water production (approximately 5000 acre-ft/yr). This is based on an overall decline in regional aquifer water levels across the plateau since pumping began in the 1950s.

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 in the vadose zone is precipitation, but much of the precipitation is removed as runoff, evaporation, and transpiration. 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, which are both 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. There are several competing effects that determine moisture content and fluid flux in welded, devitrified tuff. 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 (Hollis et al. 1997, 63131). Modeling studies indicate that when fractures disappear at contacts between stratigraphic subunits, when fracture fills are encountered, or when coatings are interrupted, 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.

As a rule, the Bandelier Tuff, which forms Mesita del Buey, is very dry and does not readily transmit moisture. Most of the pore spaces in the tuff are small enough to be 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 as a result 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 the effects of higher rates of evaporation and of transpiration by vegetation, which flourishes during this time.

Table B-4.4-1 summarizes measurements and observations on core samples retrieved from boreholes drilled at MDA G. The properties listed in the table are

- lithology, which is a general macroscopic description of the rock;
- fracture spacing, which is the distance measured between fractures (in meters);
- fracture dip, which is the angle of the fracture relative to horizontal (in degrees);
- fracture aperture, which is the width of the fracture (in millimeters);
- mean density, which is the mass of rock per unit volume of rock (in grams per cubic centimeter);
- mean porosity, which is the ratio of the air-filled volume to the total volume of the rock (in percent);
- mean volumetric moisture, which is the ratio of the water volume to the total volume of the rock (in percent);
- saturation, which is the ratio of the pore volume containing water to the total porosity (in percent);
- saturated hydraulic conductivity (K_{sat}), which is the rate at which moisture moves through rock under the influence of gravity when the rock is fully saturated (in centimeters per second); and
- van Genuchten parameters θ_r, α, and n, which are derived parameters used to model moisture movement in rock (van Genuchten 1980, 63542).

These data are obtained from either intact tuff (e.g., fracture spacing), from direct measurements of rock samples from TA-54 (e.g., density), or from experiments performed on rock samples (e.g., K_{sat}). The van Genuchten parameters are derived from characteristic curves, which are relationships required to model unsaturated liquid flow through rock. They include moisture retention curves that describe the energy state or tension of pore water in tuff and the hydraulic conductivity (K) of the rock. The moisture tension curve of a material is the relationship between suction within the matrix and the volumetric water content (i.e., the volume of water contained in a volume of tuff) for a porous material. Hydraulic conductivity is simply the rate at which water can travel through a sample of rock or soil under the influence of gravity. In general, soils and rock have higher hydraulic conductivity when more moisture is present; the maximum occurs when the material is fully saturated with water and is called the saturated hydraulic conductivity. In unsaturated media, both the hydraulic conductivity and the tension are highly nonlinear functions of the water content and are complicated by hysteresis.

Unsaturated hydraulic conductivity curves for five units of the TA-54 subsurface are plotted in Figure 2-13 of the performance assessment report (Hollis et al. 1997, 63131). The graphs were made using samples of rock taken in each of the five main geologic units found within and below TA-54. The data plotted on the graph were obtained in experiments conducted on small samples of rock recovered from borehole cores. Unsaturated hydraulic conductivities are calculated using the van Genuchten parameters (van Genuchten 1980, 63542) and Mualem's model (Mualem 1976, 63543).

Characteristic curves like these are often used as a basis for mathematical models of unsaturated flow. For modeling purposes, the curves must be translated into mathematical equations. One popular curve-fitting function is the van Genuchten formulation. The van Genuchten method (van Genuchten 1980, 63542) requires three variables, α, n, and θ_r, to be evaluated to fit the curve to the measured data. The van Genuchten parameters α and n are derived hydraulic properties for modeling moisture flow in unsaturated materials. In general, materials with relatively high values of α can hold more water with less suction, while materials with a relatively large value of n may undergo large changes in moisture content with small changes in suction. The residual moisture content, θ_r, is defined as moisture that cannot be removed from the rock surface under natural conditions; it is typically an uncertain parameter in van Genuchten. Residual moisture is not well defined in arid regions where moisture may be transported in the vapor phase rather than the liquid phase. The van Genuchten parameters are listed in Table B-4.4-1.

Table B-4.4-1
Hydraulic Characteristics of MDA G Vadose Zone

Property	Tshirege Member Unit 2	Tshirege Member Unit 1vu	Tshirege Member Unit 1vc	Tshirege Member Unit 1g	Tsankawi/Cerro Toledo Interval	Otowi Member	Guaje Pumice	Cerros del Rio Basalts	Puye Formation
Thickness, ft (m)	40 (12.2)	45 (13.7)	25 (7.6)	50 (15.2)	5.9 (1.8)	120 (36.6)	12 (3.7)	>119 (>36.3)	~656 (~200)
Lithology Summary	Massive, crystal-rich, slightly welded, devitrified tuff; vapor-phase altered; pumice swarms; basal surge	Massive, crystal-rich nonwelded tuff; devitrified, pumiceous; crystal-rich lapilli	Massive, crystal-rich nonfeatured tuff; pumiceous; pumice swarms; ash fall; crystal-rich lapilli	Massive, nonwelded nonindurated tuff; vitric; pumiceous; crystal-rich lapilli	Massive air-fall tuff; large white-pumice lapilli; lapical surge bed of crystals and ash	Massive, moderately crystal-rich, nonwelded, vitric tuff; ~30% pumice	Basal, nonwelded pumice lapilli bed; vitric	Dense, fractured, basaltic lava flows, with flow breccias and Puye interbeds	Fanglomerates and conglomerates; fluvatile and debris-flow deposits; interbedded ash and pumice falls, basalt flows
Fracture Spacing	3.3–4.3 ft, 1.0–1.3 m	3.3–4.3 ft, 1.0–1.3 m	No data, few fractures	No data, some fractures	No data, rare fractures	No data, few fractures	No data, rare fractures	~1.0 ft (~0.3 m) from observation	No data, poorly developed in outcrop
Fracture Dip and Aperture	87° median; 0.12-in. (3-mm) median	84° median; 0.12-in. (3-mm) median	No data, assumed vertical	No data, assumed vertical	No data, assumed vertical	No data	No data	~0.2 in. (~5 mm) from observation	No data, poorly developed in outcrop
Fracture Fill	72% filled, 9% plated; 19% open	62% filled or plated; 16% open	No data	No data	No data	No data; some caliche observed	No data	None observed	No data
Mean Density (g/cc)	1.37	1.26	1.20	1.14	1.12	1.2	No data	No data, 2.4–3.1 estimated	No data
Mean Porosity (%)	45.7	48.7	49.3	46.2	47.3	43.5	No data	No data	No data
Mean Volumetric Moisture (%)	2.57	1.69	10.68	8.94	14.00	11.5	No data	No data	No data
Saturation (%)	5.7	3.7	21.3	16.9	30.3	26.4	No data	No data	No data
Mean K_{sat} (cm/sec)	4.37E-7	1.48E-4	1.67E-4	1.88E-4	8.69E-4	2.49E-4	No data	No data	No data
van Genuchten α θ n	 0.0 0.0060 1.690	 0.0 0.0030 1.932	 0.0 0.0033 1.647	 0.0 0.0053 1.745	 0.8 0.0152 1.506	 2.1 0.059 1.713	 No data No data No data	 No data No data No data	 No data No data No data

The data in Table B-4.4-1 show that the units beneath MDA G have volumetric moisture contents between about 2% and 14% by volume. The curves are very steep at low moisture contents, indicating that for a unit increase in water, there is a very large increase in hydraulic conductivity. The slopes of the conductivity curves generally level out when moisture content reaches about 7% by volume. The relatively flat portion of the curves indicates that hydraulic conductivities remain constant over moisture contents ranging between 10% and 30% by volume. This behavior is a function of the sample's pore-size distribution. At moisture contents greater than about 34% by volume, the conductivity curves again become very steep. Note that these are artificially high moisture contents obtained under experimental conditions. Such high moisture contents would naturally occur in the region of the Laboratory only with a major climatic change or artificial input of water, such as from an outfall.

Taken as a group, the hydraulic conductivity curves and tension curves are very similar among the geologic units, with one exception: the Tsankawi Pumice/Cerro Toledo interval characteristic curves show a much greater spread than the others. This reflects the highly varied size of the pore spaces in the rock as compared with other units because of the varied lithologies characteristic of this interval. In general, the curves indicate that the Tsankawi Pumice/Cerro Toledo interval may conduct water more readily than the other units of the Bandelier Tuff.

B-5.0 ECOLOGICAL RESOURCES

Biological resource field surveys have been conducted in the TA-54 area for compliance with the Federal Endangered Species Act of 1973; the New Mexico Wildlife Conservation Act; the New Mexico Endangered Species Act; Executive Order 11990, "Protection of Wetlands"; Executive Order 11988,"Floodplain Management"; 10 CFR 1022, "Compliance with Floodplain/Wetlands Environmental Review Requirements"; and DOE Order 5400.1, "General Environmental Protection Program."

No wetlands exist in the TA-54 area, but wetlands and floodplains exist in the lower portion of Pajarito Canyon. Possible threatened and endangered species for the area were identified, but no habitats were located. Further information is contained in "Biological Assessment of Environmental Restoration Program, Operable Unit 1148, TA-54" (Banar 1996, 58192).

Local Plant Species

The vegetation on Mesita del Buey is dominated by the piñon-juniper series of the Great Basin conifer woodland. One-seed juniper and piñon pines are the dominant tree species in undisturbed areas. Common shrub species include big sagebrush (*Artemisia tridentata*), wax currant (*Ribes cereum*), four-wing salt bush (*Atriplex canescens*), currant (*Ribes* sp.), and mountain mahogany (*Cercocarpus betuloides*). Blue grama grass (*Bouteloua gracilis*), cryptogamic soil crust, and prickly pear cactus (*Opuntia* spp.) are the most common low-growing (understory) plants on the mesa top. Other common understory plants include snake weed (*Gutierrezia microcephala* and *Gutierrezia sarothrae*), pinque (*Hymenoxys richardsonii*), wild chrysanthemum (*Bahia dissecta*), leafy golden aster (*Chrysopsis filiosa*), purple horned-toothed moss (*Ceratadon purpureus*), several lichen species, three-awn grass (*Aristida* spp.), bottlebrush squirreltail (*Sitanion hystrix*), bluegrass (*Poa* spp.), false tarragon (*Artemisia dracunculus*), and a species of *Mammalaria* cactus (Hollis et al. 1997, 63131, p. 2-13). A representative list of average rooting depths for native plants is presented in Table B-5.0-1.

Table B-5.0-1
Average Rooting Depths of Piñon and Juniper Woodland Plants

Species	Common Name	Root Depth, ft (m)
Quercus spp.	Oak	10.5 (3.2)
Gutierrezia sarothrae	Snakeweed	9.5 (2.9)
Ribes cereum	Wax currant	9.5 (2.9)
Fallugia paradoxa	Apache plume	8.5 (2.6)
Rhus trilobata	Squawbush	7.5 (2.3)
Atriplex canescens	Saltbush	7.2 (2.2)
Chrysothamnus nauseosus	Chamisa	6.9 (2.1)
Artemisia tridentata	Sagebrush	5.9 (1.8)
Juniperus monosperma	One-seed juniper	5.6 (1.7)
Pinus ponderosa	Ponderosa pine	4.9 (1.5)
Bouteloua gracilis	Blue grama	1.9 (0.58)
Cercocarpus montanus	Mountain mahogany	1.6 (0.5)
Helianthus petiolarius	Wild sunflower	1.5 (0.45)
Opuntia polycantha	Cactus	0.9 (0.28)
Yucca angustifolia	Yucca	0.3 (0.1)

In a study of 21 species of plants common at the Laboratory, roots were found to be most abundant in the upper 6.4 ft (2 m) of soil. Biomass of annual and perennial plant roots was greatest in the upper 3.3 ft (1 m), whereas ponderosa pine roots were nearly always found within the top 6.6 ft of the soil surface. Tap roots of chamisa, Apache plume, and oak extended over 6.6 ft (2 m) into the soil, and piñon pine and one-seed juniper roots have been found to extend greater than 20 ft (6 m) through fractures in the tuff (Hollis et al. 1997, 63131, p.2-13).

As a result of waste management operations at TA-54, many of the native understory plants on Mesita del Buey are being replaced by new species. Recently disturbed areas support plants such as goosefoot (*Chenopodium fremontii*), tumbleweed (*Salsola kali*), cutleaf evening primrose (*Oenothera caespitosa*), common sunflower (*Helianthus anuus*), and other colonizing species. As pits are closed, native grass species (e.g., blue grama) are planted on the top; these species provide extensive ground cover and have short roots. The density of this vegetative cover protects against erosion, while the shallow roots maximize transpiration of water.

Local Animal Species

Insects, reptiles, mammals, and birds inhabit the Laboratory region. Harvester ants are the most abundant insect at TA-54, while common reptiles include fence lizards (*Sceloporous undulatus*), Plateau striped whiptails (*Cnemidophorus velux*), gopher snakes (*Pituophis melanoleucus*), and garter snakes (*Thamnophilis elegans*). Many mammals inhabit the Pajarito Plateau, including rodents, mule deer, elk, black bear, mountain lion, bobcat, fox, and coyote, all of which pass through the TA-54 vicinity at least occasionally. Pajarito Canyon and Cañada del Buey support a wide variety of bird species. In addition to a range of songbirds, a variety of nesting and migrating raptors have been identified in less-disturbed areas of the canyons (Hollis et al. 1997, 63131, p. 2-13).

Table B-5.0-2 lists some burrowing animals observed at TA-54, along with their maximum reported burrowing depths.

Table B-5.0-2
Maximum Recorded Depth of Burrows of Animals at TA-54

Species or Taxon	Common Name	Burrow Depth, ft (m)
Pogonomyrmex spp.	Harvester ant	9.8 (3.0)
Gopheropus polyphemus	Gopher tortoise	2.5 (0.75)
Terrapene carolina	Box turtle	0.3 (0.1)
Blarina brevicaudata	Short-tailed shrew	1.6 (0.5)
Scalopus aquaticus	Mole	2.0 (0.6)
Microtus ochrogaster	Prairie vole	0.7 (0.2)
Peromyscus gossypinus	Cotton mouse	2.5 (0.75)
Ochrotomys nuttalli	Golden mouse	0.4 (0.13)
Perognathus parvus	Pocket mouse	4.6 (1.4)
Thomomys talpoides	Pocket gopher	3.2 (<1)
Dipodomys ordii	Kangaroo rat	2.3 (0.7)
Cynomys loucurus	Prairie dog	6.0 (1.83)
Peromyscus maniculatus	Deer mouse	3.2 (<1)
Marmota monax	Woodchuck	4.9 (1.5)

B-6.0 CULTURAL RESOURCES

A cultural resource survey was conducted during the summer of 1991 at Operable Unit 1148, as required by the National Historic Preservation Act of 1966. A total of 68 archaeological sites have been located within the boundary of the operable unit. Of this number, 56 are eligible for inclusion on the National Register of Historic Places, and 12 have been declared ineligible. According to the RFI work plan, a report documenting the survey area, methods, results, and monitoring recommendations was to be transmitted to the New Mexico State Historic Preservation officer for concurrence in a determination of no effect (LANL 1992, 7669).

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Copies of the reference library are maintained at the NMED Hazardous Waste Bureau; the DOE 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 collection of documents that was developed to ensure that the administrative authority has all the necessary material to review the decisions and actions

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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 for Potential Release Sites (PRSs) 51-001 and 54-007(d) during the 1995 Resource Conservation and Recovery Act facility investigation (RFI) and the 2001 voluntary corrective actions (VCAs). These PRSs were inactive septic tank systems and were removed during VCAs during January 2001. Table C-1.0-1 presents the analytical suites used for some or all the samples during the 1995 and 2001 investigations. A quality assurance (QA)/quality control (QC) evaluation was performed only on the soil samples because they were used for site characterization.

Table C-1.0-1
Analytical Suites

Chemical Category	Analyte List	Analytical Method
Radionuclides	Gross alpha radiation	Alpha scintillation
	Gross beta radiation	Proportional counting
	Gross gamma radiation	Proportional counting
Radionuclides	Gamma-emitting radionuclides	Gamma spectroscopy
	Isotopic uranium	Chemical separation alpha spectroscopy
	Isotopic plutonium	Chemical separation alpha spectroscopy
	Strontium-90	Beta proportional counting
Inorganic chemicals	Metals	EPA[a] Method 6101A
	Cyanide	EPA CLP Method 335.2 ILM 03.0
Organic chemicals	Volatile organic compounds[b]	EPA Method 8260
	Semivolatile organic compounds[c]	EPA Method 8270
	PCBs[d]/pesticides	EPA Method 8082

[a] EPA = Environmental Protection Agency.
[b] VOC = volatile organic compound.
[c] SVOC = semivolatile organic compound.
[d] PCB = polychlorinated biphenyl.

QA/QC and data validation procedures were implemented in accordance with the requirements of the QA project plan (LANL 1996, 54609) and the Environmental Restoration (ER) Project analytical services statement of work (SOW) for contract laboratories (LANL 1995, 49738). The results of the QA/QC activities were used to estimate accuracy, bias, and precision of the analytical measurements. QC samples, including method blanks, blank spikes, matrix spikes, and laboratory control samples (LCSs), were used to assess accuracy and bias. Internal standards, external standards, surrogates, and tracers were also used to assess accuracy. Precision is estimated from the results of duplicate and replicate analyses, including field and laboratory duplicates that contain greater than the minimum detection level of the target analytes. Matrix spike duplicates may also be used to estimate precision. The type and frequency of QC analyses are described in the ER Project analytical services SOW (LANL 1995, 49738). 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 ER Project standard operating procedure (SOP) ER-SOP-1.02, Rev. 0, "Sample Containers and Preservation." Evaluating these QC indicators allows estimates to be made of the accuracy, bias, and precision of the analytical suites.

Samples Collected

A summary of the soil samples collected for analysis in 2001 is presented in Tables 2.4-2 and 3.4-2 of this report. Summaries of the analytical methods for metals, radionuclides, and organic analytes are provided in the following sections. Detailed results of the data validation are presented in Section C-5.0. The contract-required detection limit (CRDL) for each analyte listed is provided in Appendix D-1.0. These limits are also detailed in the ER Project analytical services SOW (LANL 1995, 49738).

All data were usable, based on the validation performed by Laboratory personnel. No data were rejected (qualified R). Qualifiers applied included not detected (U), detected but estimated (UJ), and estimated (J).

C-2.0 INORGANIC CHEMICAL METHODS

No inorganic samples were collected during the 2001 VCA. Two samples for PRS 51-001 and four samples for PRS 54-007(d) were collected during 1995 and were analyzed for target analyte list (TAL) metals. These samples were analyzed for mercury by cold vapor atomic absorption (CVAA) (EPA 1987, 57589) and for cyanide by reflux distillation. The samples were analyzed for other TAL metals by inductively coupled plasma emission spectroscopy (ICPES). The methods for this data set are detailed in Table C-2.0-1. Holding times were met for all inorganic chemical digestions and analyses.

The CRDLs defined by the ER Project analytical services SOW (LANL 1995, 49738) for inorganic chemicals are provided in Appendix D. The qualifiers for inorganic analytes are provided in Section C-5.0.

Table C-2.0-1
Analytical Methods For Inorganic Chemical Analysis

Analytical Method	Analytical Description	Analytical Suite
EPA SW-846 Method 6010A	ICPES	Aluminum, antimony, arsenic, barium, beryllium, calcium, cadmium, cobalt, chromium, copper, iron, lead, magnesium, manganese, nickel, potassium, selenium, sodium, silver, thallium, vanadium, and zinc (TAL metals)
EPA SW-846 Method 7471A	CVAA	Mercury (TAL metal)
EPA CLP Method 335.2	Titrametric, spectrophotometry	Total cyanide

C-2.1 Inorganic Chemical QA/QC Samples

Method blanks, LCSs, matrix spike samples, field duplicate samples, interference check samples and serial dilution samples were analyzed to assess accuracy and precision for analyses. Each of these QA/QC sample types is defined in the ER Project analytical services SOW (LANL 1995, 49738) and described briefly in the sections below.

The LCS serves as a monitor of the overall performance of each step during the analysis, including sample digestion. The analytical results for the samples were qualified according to National Functional Guidelines (EPA 1994, 48639) if the individual LCS recovery indicated an unacceptable bias in the measurement of individual analytes. The LCS recoveries should fall within the control limits of 80% to 100%, according to ER-SOP-15.05, Rev. 0, "Routine Validation of Inorganic Data."

Method blanks are used as a measurement of bias and potential cross contamination. The blank results for inorganic chemical analyses were within acceptable limits for all the analyses. All target analytes should be below the CRDL in the preparation blank.

Matrix spike samples are used to assess accuracy for analyses. A matrix spike sample is designed to provide information about the effect of each sample matrix on the sample preparation procedures and analytical technique. The spike sample recoveries should be within the acceptance range of 75% to 125%, according to ER-SOP-15.05, Rev. 0, "Routine Validation of Inorganic Data."

Field duplicate samples are used to assess precision of analyses. All relative percent differences between the sample and field duplicate should +/-35%, according to ER-SOP-15.05, Rev. 0, "Routine Validation of Inorganic Data."

An interference check sample was run with each laboratory request number or sample delivery group. Serial dilution samples were also run; however, they were not evaluated during routine validation but instead were examined during a more focused data validation.

C-2.2 Inorganic Chemical Background Values

The currently used ER Project analytical services SOW (LANL 1995, 49738) was issued before the widespread use of axial view ICPES (also known as trace ICPES) and before the development of the Laboratory soil background data set for inorganic chemicals. All samples were analyzed using the radial view ICPES. Some samples were analyzed using trace ICPES.

C-3.0 ORGANIC CHEMICAL ANALYSES

A total of 14 samples (12 from the 2001 VCA, 2 from the 1995 RFI) from PRS 51-001 and 36 samples (32 from the 2001 VCA, 4 from the 1995 RFI) from PRS 54-007(d) were collected. These were analyzed for VOCs and SVOCs. No samples were analyzed for PCBs and pesticides during the 2001 VCA. In 1995, two samples for PRS 51-001 and four samples for PRS 54-007(d) were analyzed for PCBs and pesticides. EPA Method 8081 was used for the 1995 analyses for PCBs/pesticides. EPA Method 8082 later replaced Method 8081; however, no analyses were performed using this method in 2001. Analytical methods are described in Table C-3.0-1. Summaries for analyses are presented in the sections below. All QC procedures were followed as required in the ER Project analytical services SOW (LANL 1995, 49738). All extraction and analysis holding times were met.

Table C-3.0-1
Analytical Methods For Organic Chemical Analyses

Analytical Method	Analytical Description	Target Compound List
EPA Method 3540, Extraction EPA SW-846 Method 8270, Analysis	SVOCs	ER Project analytical services SOW (LANL 1995, 49738), Appendix D
EPA Method 5035, Sampling EPA Method 5035, Extraction EPA SW-846 Method 8260, Analysis	VOCs	ER Project analytical services SOW (LANL 1995, 49738), Appendix D
EPA Method 3540, Extraction EPA Method 8081, Analysis	PCBs and pesticides	ER Project analytical services SOW (LANL 1995, 49738), Appendix D

C-3.1 SVOC Analysis

The TAL and the required estimated quantitation limits (EQLs) are provided in Appendix D. For SVOCs, the extraction holding time is 14 days, and the analysis of the extract must occur within 40 days. Holding times for extraction and analysis were met for all samples. Qualifiers applied to these samples because

internal standard and surrogate recoveries outside of EPA-method-specified ranges are presented in Section C-5.0.

C-3.2 VOC Analyses

All holding times were met for these analyses. Target analytes are specified in the Laboratory SOW (LANL 1995, 49738) and are also listed in Appendix D. Qualifiers applied during the Laboratory validation of data are defined in Section C-5.0.

C-3.3 PCB Analysis

All holding times for extraction and analyses were met for these analyses. The PCB and pesticide analyte list with CRDLs can be found in Appendix D. The samples analyzed for PCBs/pesticides were collected in 1995. The data validation procedure used at that time was not an approved SOP. However, it included an examination of QA/QC samples, such as initial and daily calibrations, surrogates, method blanks, and a determination of sample breakdown.

C-4.0 RADIONUCLIDE ANALYSES

A total of 14 samples (12 from the 2001 VCA, 2 from the 1995 RFI) from PRS 51-001 and 36 samples (32 from the 2001 VCA, 4 from the 1995 RFI) from PRS 54-007(d) were analyzed for radionuclides by the methods listed in Table C-4.0-1. The maximum allowable reporting limits for radionuclides, as defined in the ER Project analytical services SOW (LANL 1995, 49738) are provided in Appendix D.

Radionuclides with reported values less than the minimum detectable activity were qualified as nondetected (U). Each result was also compared with the corresponding 1-sigma total propagated uncertainty (TPU). If the result was not greater than three times the TPU, it was qualified as nondetected (U). All these radionuclides are presented in Tables C-5.3-1, C-5.3-2, and C-5.3-3.

Table C-4.0-1
Analytical Methods For Radionuclide Analyses

Radionuclides	Analytical Technique
Gamma-emitting radionuclides	Gamma spectroscopy
Isotopic plutonium	Chemical separation/alpha spectroscopy
Isotopic uranium	Chemical separation/alpha spectroscopy
Strontium-90	Proportional counting
Gross alpha, beta, gamma	Proportional Counting

Radionuclide QA/QC Samples

Matrix spike samples, LCSs, method blanks, duplicates, and tracers were used to assess precision and bias of analyses performed at off-site laboratories.

The ER Project analytical services SOW (LANL 1995, 49738) specifies that spike sample recoveries should be within ±25% of the certified value. All spike sample recoveries met this acceptance criteria.

LCSs were analyzed to assess accuracy for analyses. The LCSs serve as a monitor of the overall performance of each step during the analysis, including the radionuclide separation preparation. The ER Project analytical services SOW (LANL 1995, 49738) specifies that LCS recoveries should be within

±25% of the certified value. The analytical results for individual LCSs were all within the ±25% recovery control limit.

Method blanks were also used to assess bias. The ER Project analytical services SOW (LANL 1995, 49738) specifies that the method blank concentration should not exceed the required EQL. All method blanks met these criteria.

Sample duplicates were run for all radionuclide analyses as specified by the Laboratory SOW (LANL 1995, 49738). Tracers were used only for the strontium-90 analyses as specified in the SOW.

C-5.0 DATA VALIDATION

Data qualifiers are defined in Table C-5.0-1. Tables C-5.1-1 and C-5.1-2 (inorganic data quality); Tables C-5.2-1, C-5.2-2, C-5.2-3, and C-5.2-4 (organic data quality); and Tables C-5.3-1, C-5.3-2, and C-5.3-3 (radionuclide data quality) summarize the qualifiers applied to the data set for PRSs 51-001 and 54-007(d).

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

Qualifier	Explanation
U	The analyte was analyzed for but not detected. Reported value is the sample-specific EQL or detection limit.
J	The reported value should be regarded as estimated.
J+	The reported value should be regarded as estimated and biased high.
J-	The reported value should be regarded as 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.
UJ+	The analyte was analyzed for but not detected. Reported value is an estimate of the sample-specific quantitation limit or reporting limit with a high bias.
UJ-	The analyte was analyzed for but not detected. Reported value is an estimate of the sample-specific quantitation limit or reporting limit with a low bias.

C-5.1 Inorganic Data Review

Tables C-5.1-1 and C-5.1-2 summarize the QA/QC assessment of inorganic chemicals. No major QA/QC problems were encountered in the analyses of these samples.

Table C-5.1-1
Data Quality Evaluation of the 1995 Inorganic Chemical Data, PRS 51-001

Request	Sample ID	Location ID	Depth (ft.)	Analytical Suite	Analyte	Explanation
1685	0551-95-2016 0551-95-2017	51-09203 51-09203	600–720 600–720	Metals	Potassium	The results for this analyte should be regarded as not detected (U) because the sample was less than five times that found in the blank.
1685	0551-95-2016 0551-95-2017	51-09203 51-09203	600–720	Metals	Antimony Cadmium	The reporting limits for these analytes should be regarded as estimated (UJ) because sample spike recoveries were low

Table C-5.1-2
Data Quality Evaluation of the 1995 Inorganic Chemical Data, PRS 54-007(d)

Request	Sample ID	Location ID	Depth (in.)	Analytical Suite	Analyte	Explanation
1633	0554-95-2021	54-09214	30–40	Metals	Nickel Sodium	The results for these analytes should be regarded as estimated (J) because they were less than the practical quantitation limit.
1633	0554-95-2021 0554-95-2022 0554-95-2024	54-09214 54-09215 54-09216	30–40 26–36 5–15	Metals	Lead	The result for this analyte is regarded as biased low (J-) because the spike recoveries were below specified limits.
1633	0554-95-2021	54-09214	30–40	Metals	Arsenic Beryllium Cobalt Potassium	The results for these analytes should be regarded as not detected (U) because they are less than five times the related analytes found in the blank.
1633	0554-95-2021 0554-95-2023 0554-95-2024	54-09214 54-09215 54-09216	30–40 26–36 5–15	Metals	Thallium Selenium	The reporting limits for these analytes should be regarded as estimated (UJ) because the spike recovery is below specified limits.
1633	0554-95-2022	54-09215	26–36	Metals	Thallium Cobalt Nickel Sodium	The results for these analytes should be regarded as estimated (J) because they were less than the practical quantitation limit.
1633	0554-95-2022	54-09215	26–36	Metals	Beryllium Potassium Arsenic	The results for these analytes should be regarded as not detected (U) because they are less than five times the related analytes found in the blank.
1633	0554-95-2022	54-09215	26–36	Metals	Selenium	The reporting limit for this analyte should be regarded as estimated (UJ) because the spike recovery is below specified limits.
1633	0554-95-2023	54-09215	26–36	Metals	Cobalt Nickel Sodium	The results for these analytes should be regarded as estimated (J) because they were less than the practical quantitation limit.
1633	0554-95-2023	54-09215	26–36	Metals	Arsenic Beryllium Potassium	The results for these analytes should be regarded as not detected (U) because they are less than five times the related analytes found in the blank.
1633	0554-95-2024	54-09216	5–15	Metals	Nickel	The results for these analytes should be regarded as estimated (J) because they were less than the practical quantitation limit.
1633	0554-95-2024	54-09216	5–15	Metals	Arsenic Beryllium Cobalt Potassium Sodium	The results for these analytes should be regarded as not detected (U) because they are less than five times the related analytes found in the blank.

C-5.2 Organic Data Review

Tables C-5.2-1, C-5.2-2, C-5.2-3 and C-5.2-4 summarize the QA/QC assessment of organic chemicals. No major QA/QC problems were encountered in the analysis of these samples.

Table C-5.2-1
Data Quality Evaluation of the 2001 Organic Chemical Data, PRS 51-001

Request	Sample ID	Location ID	Depth (ft)	Analytical Suite	Analyte	Explanation
8308R	MD51-01-0005 MD51-01-0006 MD51-01-0007 MD51-01-0008 MD51-01-0010 MD51-01-0011	51-10002 51-10002 51-10003 51-10003 51-10004 51-10005	0–1 1–2 0–1 1–2 1–2 0–1	SVOCs	All target analytes	The reporting limits for these analytes should be regarded as estimated (UJ) because the surrogate recoveries associated with these analytes were low.
8332R	MD51-01-0017	51-10000	59–60	SVOCs	Aniline Benzoic acid Benzyl alcohol Bis(2-chloroethoxy)methane Bis(2-chloroethyl)ether Chloro-3-methylphenol[4-] Chloroaniline[4-] Chlorophenol[2-] Dichlorobenzene[1,2-] Dichlorobenzene[1,3-] Dichlorobenzene[1,4-] Dichlorophenol[2,4-] Dimethylphenol[2,4-] Hexachlorobutadiene Hexachloroethane Isophorone Methylnaphthalene[2-] Methylphenol[2-] Methylphenol[4-] Naphthalene Nitrobenzene Nitrophenol[2-] Nitroso-di-n-propylamine[N-] Nitrosodimethylamine[N-] Oxybis(1-chloropropane)[2,2'-] Phenol Trichlorobenzene[1,2,4-]	The reporting limits for these analytes should be regarded as estimated (UJ) because the internal standard recoveries associated with these analytes were low.
8308R	MD51-01-0005 MD51-01-0006 MD51-01-0007 MD51-01-0008 MD51-01-0009 MD51-01-0011 MD51-01-0012 MD51-01-0015	51-10002 51-10002 51-10003 51-10003 51-10004 51-10005 51-10005 51-10005	0–1 1–2 0–1 1–2 0–1 0–1 1–2 0–1	VOCs	Acetone Bromomethane	The reporting limits/results for these analytes should be regarded as estimated (UJ or J) because the initial calibration criteria were not met for these analytes.

Table C-5.2-1 (continued)

Request	Sample ID	Location ID	Depth (ft)	Analytical Suite	Analyte	Explanation
8308R	MD51-01-0010	51-10004	1–2	VOCs	All target analytes	The reporting limits for these analytes should be regarded as estimated (UJ) because the internal standard recoveries associated with these analytes were low.
8308R	MD51-01-0011	51-10005	0–1	VOCs	Bromoform Chlorobenzene Chlorodibromomethane Dichloropropane[1,3-] Ethylbenzene Hexanone[2-] Styrene Tetrachloroethane[1,1,1,2-] Tetrachloroethene Xylene (total)	The reporting limits for these analytes should be regarded as estimated (UJ) because the internal standard recoveries associated with these analytes were low.
8308R	MD51-01-0015	51-10005	0–1	VOCs	Trimethylbenzene[1,2,4-]	The result for this analyte should be regarded as estimated (J) because the result was less than the practical quantitation limit.
8332R	MD51-01-0001	51-10000	49–50	VOCs	Acetone	The reporting limit for this analyte should be regarded as estimated (UJ) because the initial calibration criteria were not met for this analyte.
8332R	MD51-01-0001 MD51-01-0002	51-10000 51-10000	49-50 59-60	VOCs	Butanone[2-]	The results for this analyte should be regarded as estimated (J) because the results were less than the practical quantitation limit.
8332R	MD51-01-0002 MD51-01-0003 MD51-01-0004	51-10000 51-10001 51-10001	59–60 49–50 59–60	VOCs	Acetone	The results for this analyte should be regarded as estimated (J) because the initial calibration criteria were not met for this analyte.
8332R	MD51-01-0003	51-10001	49–50	VOCs	Trichlorofluoromethane	The result for this analyte should be regarded as estimated (J) because the result was less than the practical quantitation limit.
8332R	MD51-01-0004	51-10001	59–60	VOCs	Benzene Bromobenzene Bromochloromethane Bromodichloromethane Bromoform	The reporting limits for these analytes should be regarded as estimated (UJ) because the internal standard recoveries associated with these analytes were low.

Table C-5.2-1 (continued)

Request	Sample ID	Location ID	Depth (ft)	Analytical Suite	Analyte	Explanation
8332R	MD51-01-0004	51-10001	59–60	VOCs	Bromomethane Butanone[2-]	The results for these analytes should be regarded as estimated (J) because the internal standard recoveries associated with these analytes were low.
8332R	MD51-01-0004 MD51-01-0017	51-10001 51-10000	59–60 59–60	VOCs	All target analytes	The reporting limits for these analytes should be regarded as estimated (UJ) because the internal standard recoveries associated with these analytes were low.
8332R	MD51-01-0017	51-10000	59–60	VOCs	Trichlorofluoromethane Butanone[2-] Acetone	The results for these analytes should be regarded as estimated (J) because the internal standard recoveries associated with these analytes were low.

Table C-5.2-2
Data Quality Evaluation of the 2001 Organic Chemical Data, PRS 54-007(d)

Request	Sample ID	Location ID	Depth (ft)	Analytical Suite	Analyte	Explanation
8201R	MD54-01-0021	54-15422	3.6–4.6	VOCs	Acetone Benzene Bromomethane Butanone[2-] Carbon disulfide	These results should be regarded as high biased (J+) because the surrogate recoveries were greater than the specified upper limits.
8201R	MD54-01-0022	54-15422	7–7.5	VOCs	Acetone Benzene Bromomethane Carbon disulfide	These results should be regarded as high biased (J+) because the surrogate recoveries were greater than the specified upper limits.
8283R	MD54-01-0025	54-15424	0–1	SVOCs	All target analytes	The reporting limits for these analytes should be regarded as estimated (UJ) because surrogate recoveries were less than the specified limits.
8283R	MD54-01-0025 MD54-01-0027 MD54-01-0028 MD54-01-0029 MD54-01-0030 MD54-01-0031 MD54-01-0032 MD54-01-0054	54-15424 54-15425 54-15425 54-15426 54-15426 54-15427 54-15427 54-15425	0–1 0–1 1–2 0–1 1–2 0–1 1–2 0–1	VOCs	Acetone	The reporting limit for this analyte should be regarded as estimated (UJ) because the calibration criteria were not met for this analyte.

Table C-5.2-2 (continued)

Request	Sample ID	Location ID	Depth (ft)	Analytical Suite	Analyte	Explanation
8283R	MD54-01-0026 MD54-01-0027 MD54-01-0028 MD54-01-0029 MD54-01-0030 MD54-01-0031 MD54-01-0054	54-15424 54-15425 54-15425 54-15426 54-15426 54-15427 54-15425	0-1 0-1 1-2 0-1 1-2 0-1 0-1	SVOCs	Benzoic acid Bis(2-chloroethyl)ether Dinitrophenol[2,4-] Hexachlorocyclopentadiene Oxybis(1-chloropropane)[2,2'-]	The reporting limits for these analytes should be regarded as estimated (UJ) because their calibration criteria were not met.
8283R	MD54-01-0026	54-15424	1-2	VOCs	All target analytes	The reporting limits for these analytes should be regarded as estimated (UJ) because their associated internal standard recoveries were low.
8283R	MD54-01-0026	54-15424	1-2	VOCs	Vinyl chloride Xylene (total)	The reporting limits for these analytes should be regarded as estimated (UJ) because their associated internal standard recoveries were low
8283R	MD54-01-0032	54-15427	1-2	SVOCs	All target analytes	The reporting limits for these analytes should be regarded as estimated (UJ) because the surrogate recovery is greater than the specified limit, indicating a potential for high biased results.
8322R	MD54-01-0052	54-15448	7-8	SVOCs	Di-n-octylphthalate	The result should be regarded as not detected (U) because it is less than 10 times the related analyte found in the method blank.
8322R	MD54-01-0052	54-15448	7-8	VOCs	Trichlorofluoromethane	The result for this analyte should be regarded as estimated (J) because it was less than the practical quantitation limit.
8322R	MD54-01-0068	54-15448	5.33-6	VOCs	Acetone Trichlorofluoromethane	The results for these analytes should be regarded as estimated (J) because they were less than the practical quantitation limit.
8322R	MD54-01-0069 MD54-01-0069	54-15448 54-15448	7-8 7-8	VOCs	Butanone[2-] Trichlorofluoromethane	The results for these analytes should be regarded as estimated (J) because they were less than the practical quantitation limit.
8322R	MD54-01-0070	54-15449	5 6	SVOCs	Bis(2-ethylhexyl)phthalate	The result for this analyte should be regarded as estimated (J) because it was less than the practical quantitation limit.

Table C-5.2-2 (continued)

Request	Sample ID	Location ID	Depth (ft)	Analytical Suite	Analyte	Explanation
8322R	MD54-01-0070	54-15449	5–6	VOCs	Butanone[2-] Isopropylbenzene Isopropyltoluene[4-] Methyl-2-pentanone[4-] Toluene Trimethylbenzene[1,2,4-]	The results for these analytes should be regarded as estimated (J) because they were less than the practical quantitation limit.
8322R	MD54-01-0071	54-15449	7–8	VOCs	Butanone[2-] Methyl-2-pentanone[4-]	The results for these analytes should be regarded as estimated (J) because they were less than the practical quantitation limit.
8322R	MD54-01-0072	54-15450	5–6	VOCs	Isopropyltoluene[4-]	The results for these analytes should be regarded as estimated (J) because they were less than the practical quantitation limit.
8322R	MD54-01-0074	54-15451	5–6	SVOCs	All target analytes	The reporting limits for these analytes should be regarded as estimated (UJ) because the associated internal standard recoveries were low.
8322R	MD54-01-0075 MD54-01-0088	54-15451 54-15458	5–6 5–6	VOCs	Acetone	The result for this analyte should be regarded as estimated (J) because it was less than the practical quantitation limit.
8322R	MD54-01-0076	54-15452	5–6	SVOCs	All target analytes	The reporting limits for these analytes should be regarded as estimated (UJ) because surrogate recoveries were less than the specified limits.
8322R	MD54-01-0076	54-15452	5–6	VOCs	Benzene	The result for this analyte should be regarded as estimated (J) because it was less than the practical quantitation limit.
8322R	MD54-01-0077	54-15452	7–8	VOCs	Bromomethane	The result for this analyte should be regarded as estimated (J) because it was less than the practical quantitation limit.
8322R	MD54-01-0078	54-15453	5–6	VOCs	Acetone Butanone[2-] Isopropyltoluene[4-] Methyl-2-pentanone[4-] Toluene	These results should be regarded as biased high (J+) because the surrogate recoveries were greater than the specified upper limits.
8322R	MD54-01-0079 MD54-01-0081	54-15453 54-15454	7–8 7–8	VOCs	Butanone[2-]	The result for this analyte should be regarded as estimated (J) because it was less than the practical quantitation limit.

Table C-5.2-2 (continued)

Request	Sample ID	Location ID	Depth (ft)	Analytical Suite	Analyte	Explanation
8322R	MD54-01-0080	54-15454	5–6	VOCs	Acetone Benzene Butanone[2-]	These results should be regarded as biased high (J+) because the surrogate recoveries were greater than the specified upper limits.
8322R	MD54-01-0082	54-15455	5–6	VOCs	Benzene Butanone[2-]	The results for these analytes should be regarded as estimated (J) because they were less than the practical quantitation limit.
8322R	MD54-01-0083	54-15455	7 8	VOCs	Acetone Butanone[2-]	These results should be regarded as biased high (J+) because the surrogate recoveries were greater than the specified upper limits.
8322R	MD54-01-0084	54-15456	5–6	VOCs	Acetone Benzene Butanone[2-]	The result for this analyte should be regarded as estimated (J) because it was less than the practical quantitation limit.
8322R	MD54-01-0085	54-15456	7–8	VOCs	Acetone Butanone[2-]	The result for this analyte should be regarded as estimated (J) because it was less than the practical quantitation limit.
8322R	MD54-01-0087	54-15457	7–8	VOCs	Acetone	These results should be regarded as biased high (J+) because the surrogate recoveries were greater than the specified upper limits.

Table C-5.2-3
Data Quality Evaluation of the 1995Organic Chemical Data, PRS 54-007(d)

Request	Sample ID	Location ID	Depth (in.)	Analytical Suite	Analyte	Explanation
1632	0554-95-2021 0554-95-2022 0554-95-2024	54-09214 54-09215 54-09216	30–40 26–36 5–36	VOCs	Methylene chloride	The result for this analyte should be regarded as not detected (U) because it was less than the practical quantitation limit and less than 10 times the related analyte found in the blank.

Table C-5.2-3 (continued)

Request	Sample ID	Location ID	Depth (in.)	Analytical Suite	Analyte	Explanation
1632	0554-95-2023 0554-95-2024	54-09215 54-09216	26–36 5–15	VOCs	Methylene chloride	The result should be regarded as not detected (U) because it is less than 10 times the related analyte found in the method blank.
1632	0554-95-2021	54-09214	30–40	VOCs	All target analytes	The reporting limit for those analytes should be regarded as estimated (UJ) because their associated internal standard recoveries were low.
1632	0554-95-2021	54-09214	30–40	VOCs	Chloromethane Vinyl chloride Bromomethane Chloroethane Trichlorofluoromethane Dichloroethene[1,1-] Iodomethane Carbon disulfide Acetone Dichloroethene[trans-1,2-] Dichloroethane[1,1-] Dichloroethene[cis-1,2-] Butanone[2-] Bromochloromethane Chloroform Trichloroethane[1,1,1-] Carbon tetrachloride Dichloropropene[1,1-] Benzene Dichloroethane[1,2-] Trichloroethene Dichloropropane[1,2-] Dibromomethane Bromodichloromethane Dichloropropene[trans-1,3-] Methyl-2-pentanone[4-] Toluene Dichloropropene[cis-1,3-] Trichloroethane[1,1,2-]	The reporting limits for these analytes should be regarded as estimated (UJ) because surrogate recoveries were less than the specified limits.
1632	0554-95-2024	54-09216	5–15	VOCs	Toluene	The result for this analyte should be regarded as estimated (J) because it was less than the practical quantitation limit.
1632	0554-95-2024	54-09216	5–15	VOCs	All target analytes	The reporting limits for these analytes should be regarded as estimated (UJ) because surrogate recoveries were less than the specified limits

Table C-5.2-4
Data Quality Evaluation of the 1995 Pesticide and PCB Data, PRS 54-007(d)

Request	Sample ID	Location ID	Depth (in.)	Analytical Suite	Analyte	Explanation
1632	0554-95-2024	54-09216	5–15	Pesticides and PCBs	Methoxychlor[4,4'-] Endrin ketone Endrin aldehyde Chlordane[alpha-] Chlordane[gamma-] Toxaphene (technical grade) Aroclor-1016 Aroclor-1221 Aroclor-1232 Aroclor-1242 Aroclor-1248 Aroclor-1260 BHC[alpha-] BHC[beta-] BHC[delta-] BHC[gamma-] Heptachlor Aldrin Heptachlor epoxide Endosulfan I Dieldrin Endrin Endosulfan II DDD[4,4'-] Endosulfan sulfate	The reporting limits for these analytes should be regarded as estimated (UJ) because surrogate recoveries were less than the specified limits

C-5.3 Radionuclide Data Review.

Table C-5.3-1 sumamrizes the QA/QC assessment of radionuclides. No major QA/QC problems were encountered in the analysis of these samples.

Table C-5.3-1
Data Quality Evaluation of the 2001 Radionuclide Data, PRS 51-001

Request	Sample ID	Location ID	Depth (ft)	Analytical Suite	Analyte	Explanation
8310R	MD51-01-0005 MD51-01-0007 MD51-01-0008 MD51-01-0009 MD51-01-0010 MD51-01-0011 MD51-01-0012 MD51-01-0015	51-10002 51-10003 51-10003 51-10004 51-10004 51-10005 51-10005 51-10005	0–1 0–1 1–2 0–1 1–2 0–1 1–2 0–1	Gamma spectroscopy	Americium-241 Cesium-134 Cesium-137 Cobalt-60 Europium-152 Ruthenium-106	The results for these analytes should be regarded as not detected (U) because the results were less than three times the 1-sigma TPU.
8334R	MD51-01-0001 MD51-01-0002 MD51-01-0003 MD51-01-0004 MD51-01-0017	51-10000 51-10000 51-10001 51-10001 51-10000	49–50 59–60 49–50 59–60 59–60	Gamma spectroscopy	Americium-241 Cesium-134 Cesium-137 Cobalt-60 Europium-152 Ruthenium-106	The results for these analytes should be regarded as not detected (U) because the results were less than three times the 1-sigma TPU.

Table C-5.3-1 (continued)

Request	Sample ID	Location ID	Depth (ft)	Analytical Suite	Analyte	Explanation
8310R	MD51-01-0006	51-10002	1–2	Gamma spectroscopy	Americium-241 Cesium-134 Europium-152 Ruthenium-106 Cobalt-60	The results for these analytes should be regarded as not detected (U) because the results were less than three times the 1-sigma TPU.
8310R	MD51-01-0005 MD51-01-0006 MD51-01-0007 MD51-01-0008 MD51-01-0009 MD51-01-0010 MD51-01-0011 MD51-01-0012 MD51-01-0001	51-10002 51-10002 51-10003 51-10003 51-10004 51-10004 51-10005 51-10005 51-10000	0–1 1–2 0–1 1–2 0–1 1–2 0–1 1–2 49–50	Tritium	Tritium	The results for this analyte should be regarded as not detected (U) because the results were less than three times the 1-sigma TPU.
8334R	MD51-01-0002 MD51-01-0003 MD51-01-0004	51-10000 51-10001 51-10001	59–60 49–50 59–60	Tritium	Tritium	The results for this analyte should be regarded as not detected (U) because the results were less than three times the 1-sigma TPU.
8334R	MD51-01-0017	51-10000	59–60	Tritium	Tritium	The result for this analyte should be regarded as not detected (U) because the result was less than the minimum detectable concentration.
8310R	MD51-01-0005 MD51-01-0006 MD51-01-0007 MD51-01-0008 MD51-01-0009 MD51-01-0010 MD51-01-0011 MD51-01-0011 MD51-01-0012 MD51-01-0015	51-10002 51-10003 51-10003 51-10003 51-10004 51-10004 51-10005 51-10005 51-10005 51-10005	0–1 1–2 0–1 1–2 0–1 1–2 0–1 0–1 1–2 0–1	Isotopic plutonium	Plutonium-238 Plutonium-239	The results for these analytes should be regarded as not detected (U) because the results were less than three times the 1-sigma TPU.
8334R	MD51-01-0001 MD51-01-0002 MD51-01-0003 MD51-01-0004 MD51-01-0017	51-10000 51-10000 51-10001 51-10001 51-10000	49–50 59–60 49–50 59–60 59–60	Isotopic plutonium	Plutonium-238 Plutonium-239	The results for these analytes should be regarded as not detected (U) because the results were less than three times the 1-sigma TPU.
8310R	MD51-01-0005 MD51-01-0006	51-10002 51-10002	0–1 1–2	Isotopic uranium	Uranium-235	The results for this analyte should be regarded as not detected (U) because the results were less than the minimum detectable concentration.
8310R	MD51-01-0009 MD51-01-0015	51-10004 51-10005	0–1 0–1	Isotopic uranium	Uranium-235	The results for this analyte should be regarded as not detected (U) because the results were less than three times the 1-sigma TPU.

Table C-5.3-1 (continued)

Request	Sample ID	Location ID	Depth (ft)	Analytical Suite	Analyte	Explanation
8310R	MD51-01-0005 MD51-01-0006 MD51-01-0007 MD51-01-0008 MD51-01-0009 MD51-01-0010 MD51-01-0011 MD51-01-0015	51-10002 51-10002 51-10003 51-10003 51-10004 51-10004 51-10005 51-10005	0–1 1–2 0–1 1–2 0–1 1–2 0–1 0–1	Strontium 90	Strontium-90	The results for this analyte should be regarded as not detected (U) because the results were less than three times the 1-sigma TPU.
8334R	MD51-01-0001 MD51-01-0002 MD51-01-0003 MD51-01-0004 MD51-01-0017	51-10000 51-10000 51-10001 51-10001 51-10000	49–50 59–60 49–50 59–60 59–60	Strontium 90	Strontium-90	The results for this analyte should be regarded as not detected (U) because the results were less than three times the 1-sigma TPU.
8310R	MD51-01-0012	51-10005	1–2	Strontium-90	Strontium-90	The result for this analyte should be regarded as not detected (U) because the result was less than the minimum detectable concentration.

Table C-5.3-2
Data Quality Evaluation of the 1995 Radionuclide Data, PRS 51-001

Request	Sample ID	Location ID	Depth (in.)	Analytical Suite	Analyte	Explanation
1686	0551-95-2016 0551-95-2017	51-09203 51-09203	600–720 600–720	Gross gamma radiation	Gross gamma radiation	The results for this analysis should be regarded as not detected (U) because the results were less than the minimum detectable concentration.
1686	0551-95-2017	51-09203	600–720	Gross beta radiation	Gross beta radiation	The results for this analysis should be regarded as not detected (U) because the results were less than the minimum detectable concentration

Table C-5.3-3
Data Quality Evaluation of the 1995 Radionuclide Data, PRS 54-007(d)

Request	Sample ID	Location ID	Depth (in.)	Analytical Suite	Analyte	Explanation
1634	0554-95-2022 0554-95-2024	54-09215 54-09216	26–36 5–15	Gross gamma radiation	Gross gamma radiation	The result for these analyses should be regarded as not detected (U) because the results were less than three times the 1-sigma TPU.

REFERENCES

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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)

Appendix D

Analytical Suites and Results

APPENDIX D ANALYTICAL SUITES AND RESULTS

D-1.0 TARGET ANALYTES AND DETECTION LIMITS

Tables D-1.0-1 through D-1.0-3 include the minimum required detection limits or quantitation limits, as prescribed in the Environmental Restoration 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 significantly lower than the detection or quantitation limits in these tables. The sample-specific detection or quantitation limits for each analyte are accessible in the Facility for Information, Management, Analysis, and Display database. In addition, summary tables presented in Sections 2.3, 2.4, 3.3, and 3.4 also include these limits, as appropriate.

Efforts were made to ensure that detection limits for inorganic analytes were below Los Alamos National Laboratory (the Laboratory) background values (BVs). Instances in which the detection limits were greater than BVs are noted and discussed in Section 2.4.3 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]	40
Antimony	3050A	ICPES	12
Arsenic	7060/3050A	ICPES/GFAA[d]	2
Barium	3050A	ICPES	40
Beryllium	3050A	ICPES	1
Cadmium	3050A	ICPES	1
Calcium	3050A	ICPES	1000
Chromium	3050A	ICPES	2
Cobalt	3050A	ICPES	10
Copper	3050A	ICPES	5
Cyanide	9012	Colorimetric	0.05
Iron	3050A	ICPES	20
Lead	7421/3050A	ICPES/ICPMS[e]	0.6
Magnesium	3050A	ICPES	1000
Manganese	3050A	ICPES	3
Mercury	7471	CVAA[f]	0.1
Nickel	3050A	ICPES	8
Potassium	3050A	ICPES	1000
Selenium	7740/3050A	ICPES/GFAA	1
Silver	3050A	ICPES	2
Sodium	3050A	ICPES	1000
Thallium	7841/3050A	ICPES/GFAA/ICPMS	2
Vanadium	3050A	ICPES	10
Zinc	3050A	ICPES	4

[a] EPA = 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.
[e] ICPMS = inductively coupled plasma mass spectrometry by EPA SW-846 Method 6020.
[f] CVAA = cold vapor atomic absorption spectroscopy.

Table D-1.0-2
Target Analytes and Estimated Quantitation Limits for Volatile Organic Compound Analyses

Target Analyte	Soil/Solids EQL* (µg/kg)
Chloromethane	10
Vinyl chloride	10
Bromomethane	10
Chloroethane	10
Acetone	20
Dichlorodifluoromethane	10
Iodomethane	5
Trichlorotrifluoroethane	5
Trichlorofluoromethane	5
Methyl chloride	5
1,1-Dichloroethane	5
Carbon disulfide	5
1,1-Dichloroethene	5
1,2-Dichloroethene (total)	10
Bromochloromethane	5
Chloroform	5
1,2-Dichloroethane	5
1,1-Dichloropropene	5
2-Butanone	20
2,2-Dichloropropane	5
1,1,1-Trichloroethane	5
Carbon tetrachloride	5
Benzene	5
1,2-Dichloropropane	5
Trichloroethene	5
Dibromomethane	5
Bromodichloromethane	5
t-1,3-Dichloropropene	5
c-1,3-Dichloropropene	5
1,1,2-Trichloroethane	5
1,3-Dichloropropane	5
Chlorodibromomethane	5
4-Methyl-2-pentanone	20
Toluene	5
2-Hexanone	20
1,2-Dibromethane	5
Tetrachloroethene	5
Chlorobenzene	5
1,1,1,2-Tetrachloroethane	5
Ethylbenzene	5
o,m,p-Xylene (mixed)	5
Styrene	5
Bromoform	5
1,1,2,2-Tetrachloroethane	5
1,2,3-Trichloropropane	5
Isopropylbenzene	5
Bromobenzene	5
n-Propylbenzene	5
2-Chlorotoluene	5
4-Chlorotoluene	5

Table D-1.0-2 (continued)

Target Analyte	Soil/Solids EQL* (µg/kg)
1,3,5-Trimethylbenzene	5
tert-Butylbenzene	5
1,2,4-Trimethylbenzene	5
Sec.-Butylbenzene	5
1,3-Dichlorobenzene	5
1,4-Dichlorobenzene	5
p-Isopropyltoluene	5
1,2-Dichlorobenzene	5
n-Butylbenzene	5
1,2-Dibromo-3-chloropropane	10
Aroclor-1016	33

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 PCB Analyses

Analyte	Soil/Solids EQL (µg/kg)*
Aroclor-1221	66
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.

D-2.0 ANALYTE SUITES AND DATA SUMMARY

Table D-2.0-1 presents all analytical results for PRS 51-001 from the 1995 RFI, Table D-2.0-2 presents all analytical results for PRS 54-007(d) from the 1995 RFI, Table D-2.0-3 presents all analytical results for PRS 51-001 from the 2001 VCA, and Table D-2.0-4 presents all analytical results for PRS 54-007(d) from the 2001 VCA.

Table D-2.0-1
Analytical Results for PRS 51-001 from the 1995 RFI

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Units	Report Qualifier
51-09203	0551-95-2016	50–60	Qbt 3	BHC[alpha-]	0.0017	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	BHC[beta-]	0.0017	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	BHC[delta-]	0.0017	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	BHC[gamma-]	0.0017	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Heptachlor	0.0017	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Aldrin	0.0017	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Heptachlor epoxide	0.0017	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Endosulfan I	0.0017	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Dieldrin	0.0035	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	DDE[4,4'-]	0.0035	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Endrin	0.0035	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Endosulfan II	0.0035	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	DDD[4,4'-]	0.0035	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Endosulfan sulfate	0.0035	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	DDT[4,4'-]	0.0035	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Methoxychlor[4,4'-]	0.017	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Endrin ketone	0.0035	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Endrin aldehyde	0.0035	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Chlordane[alpha-]	0.0017	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Chlordane[gamma-]	0.0017	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Toxaphene (technical grade)	0.17	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Nitrosodimethylamine[N-]	0.17	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Aniline	0.35	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Phenol	0.17	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Bis(2-chloroethyl)ether	0.17	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Chlorophenol[2-]	0.17	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Dichlorobenzene[1,3-]	0.17	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Dichlorobenzene[1,4-]	0.17	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Dichlorobenzene[1,2-]	0.17	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Methylphenol[2-]	0.17	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Methylphenol[4-]	0.17	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Nitroso-di-n-propylamine[N-]	0.17	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Hexachloroethane	0.17	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Nitrobenzene	0.17	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Isophorone	0.17	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Nitrophenol[2-]	0.17	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Dimethylphenol[2,4-]	0.17	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Benzoic acid	0.86	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Bis(2-chloroethoxy)methane	0.17	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Dichlorophenol[2,4-]	0.17	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Trichlorobenzene[1,2,4-]	0.17	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Naphthalene	0.17	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Chloroaniline[4-]	0.35	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Hexachlorobutadiene	0.17	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Chloro-3-methylphenol[4-]	0.35	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Units	Report Qualifier
51-09203	0551-95-2016	50–60	Qbt 3	Methylnaphthalene[2-]	0.17	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Hexachlorocyclopentadiene	0.17	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Trichlorophenol[2,4,5-]	0.86	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Chloronaphthalene[2-]	0.17	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Nitroaniline[2-]	0.86	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Dimethyl phthalate	0.17	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Acenaphthylene	0.17	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Nitroaniline[3-]	0.86	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Acenaphthene	0.17	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Dinitrophenol[2,4-]	0.86	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Nitrophenol[4-]	0.86	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Dibenzofuran	0.17	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Dinitrotoluene[2,4-]	0.17	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Dinitrotoluene[2,6-]	0.17	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Diethylphthalate	0.17	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Chlorophenyl-phenyl[4-] ether	0.17	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Fluorene	0.17	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Nitroaniline[4-]	0.35	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Dinitro-2-methylphenol[4,6-]	0.86	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Nitrosodiphenylamine[N-]	0.17	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Azobenzene	0.35	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Bromophenyl-phenylether[4-]	0.17	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Hexachlorobenzene	0.17	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Pentachlorophenol	0.86	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Phenanthrene	0.17	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Anthracene	0.17	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Di-n-butylphthalate	0.17	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Fluoranthene	0.17	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Pyrene	0.17	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Butylbenzylphthalate	0.17	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Dichlorobenzidine[3,3'-]	0.35	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Benzo(a)anthracene	0.17	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Bis(2-ethylhexyl)phthalate	0.17	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Chrysene	0.17	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Di-n-octylphthalate	0.17	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Benzo(b)fluoranthene	0.17	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Benzo(k)fluoranthene	0.17	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Benzo(a)pyrene	0.17	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Indeno(1,2,3-cd)pyrene	0.17	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Dibenz(a,h)anthracene	0.17	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Benzo(g,h,i)perylene	0.17	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Benzyl alcohol	0.35	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Oxybis(1-chloropropane)[2,2'-]	0.17	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Mercury	0.27	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Aluminum	1500	mg/kg	None
51-09203	0551-95-2016	50–60	Qbt 3	Antimony	11	mg/kg	UJ
51-09203	0551-95-2016	50–60	Qbt 3	Barium	16	mg/kg	None

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Units	Report Qualifier
51-09203	0551-95-2016	50–60	Qbt 3	Beryllium	0.53	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Cadmium	0.53	mg/kg	UJ
51-09203	0551-95-2016	50–60	Qbt 3	Calcium	910	mg/kg	None
51-09203	0551-95-2016	50–60	Qbt 3	Chromium, total	2.1	mg/kg	None
51-09203	0551-95-2016	50–60	Qbt 3	Cobalt	1.1	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Copper	2.1	mg/kg	None
51-09203	0551-95-2016	50–60	Qbt 3	Iron	2100	mg/kg	None
51-09203	0551-95-2016	50–60	Qbt 3	Magnesium	240	mg/kg	None
51-09203	0551-95-2016	50–60	Qbt 3	Manganese	55	mg/kg	None
51-09203	0551-95-2016	50–60	Qbt 3	Nickel	2.1	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Potassium	320	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Silver	2.1	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Sodium	120	mg/kg	None
51-09203	0551-95-2016	50–60	Qbt 3	Vanadium	3.2	mg/kg	None
51-09203	0551-95-2016	50–60	Qbt 3	Zinc	18	mg/kg	None
51-09203	0551-95-2016	50–60	Qbt 3	Arsenic	0.53	mg/kg	None
51-09203	0551-95-2016	50–60	Qbt 3	Thallium	0.27	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Lead	13	mg/kg	None
51-09203	0551-95-2016	50–60	Qbt 3	Selenium	1.1	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Gross alpha radiation	1.46	pCi/g	None
51-09203	0551-95-2016	50–60	Qbt 3	Gross beta radiation	0.98	pCi/g	None
51-09203	0551-95-2016	50–60	Qbt 3	Gross gamma radiation	0.71	pCi/g	U
51-09203	0551-95-2016	50–60	Qbt 3	Cyanide, total	0.53	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Aroclor-1016	0.035	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Aroclor-1221	0.069	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Aroclor-1232	0.035	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Aroclor-1242	0.035	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Aroclor-1248	0.035	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Aroclor-1254	0.035	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Aroclor-1260	0.035	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Dichlorodifluoromethane	0.011	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Chloromethane	0.011	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Vinyl chloride	0.011	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Bromomethane	0.011	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Chloroethane	0.011	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Trichlorofluoromethane	0.0053	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Dichloroethene[1,1-]	0.0053	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Iodomethane	0.0053	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Carbon disulfide	0.0053	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Acetone	0.021	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Methylene chloride	0.0053	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Dichloroethene[trans-1,2-]	0.011	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Dichloroethane[1,1-]	0.0053	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Dichloropropane[2,2-]	0.0053	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Butanone[2-]	0.021	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Bromochloromethane	0.0053	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Chloroform	0.0053	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Units	Report Qualifier
51-09203	0551-95-2016	50–60	Qbt 3	Trichloroethane[1,1,1-]	0.0053	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Carbon tetrachloride	0.0053	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Dichloropropene[1,1-]	0.0053	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Benzene	0.0053	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Dichloroethane[1,2-]	0.0053	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Trichloroethene	0.0053	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Dichloropropane[1,2-]	0.0053	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Dibromomethane	0.0053	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Bromodichloromethane	0.0053	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Dichloropropene[trans-1,3-]	0.0053	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Methyl-2-pentanone[4-]	0.021	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Toluene	0.0053	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Dichloropropene[cis-1,3-]	0.0053	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Trichloroethane[1,1,2-]	0.0053	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Tetrachloroethene	0.0053	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Dichloropropane[1,3-]	0.0053	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Chlorodibromomethane	0.0053	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Hexanone[2-]	0.021	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Dibromoethane[1,2-]	0.0053	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Chlorobenzene	0.0053	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Tetrachloroethane[1,1,1,2-]	0.0053	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Ethylbenzene	0.0053	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Xylene (total)	0.0053	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Styrene	0.0053	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Bromoform	0.0053	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Isopropylbenzene	0.0053	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Bromobenzene	0.0053	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Trichloropropane[1,2,3-]	0.0053	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Tetrachloroethane[1,1,2,2-]	0.0053	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Propylbenzene[1-]	0.0053	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Chlorotoluene[2-]	0.0053	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Chlorotoluene[4-]	0.0053	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Trimethylbenzene[1,3,5-]	0.0053	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Butylbenzene[tert-]	0.0053	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Trimethylbenzene[1,2,4-]	0.0053	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Butylbenzene[sec-]	0.0053	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Dichlorobenzene[1,3-]	0.0053	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Dichlorobenzene[1,4-]	0.0053	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Isopropyltoluene[4-]	0.0053	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Dichlorobenzene[1,2-]	0.0053	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Butylbenzene[n-]	0.0053	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Dibromo-3-chloropropane[1,2-]	0.011	mg/kg	U
51-09203	0551-95-2016	50–60	Qbt 3	Trichloro-1,2,2-trifluoroethane[1,1,2-]	0.0053	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Nitroaniline[4-]	0.35	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Nitrophenol[4-]	0.88	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Benzyl alcohol	0.35	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Bromophenyl-phenylether[4-]	0.17	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Units	Report Qualifier
51-09203	0551-95-2017	50–60	Qbt 3	Azobenzene	0.35	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Dimethylphenol[2,4-]	0.17	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Methylphenol[4-]	0.17	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Dichlorobenzene[1,4-]	0.17	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Chloroaniline[4-]	0.35	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Oxybis(1-chloropropane)[2,2'-]	0.17	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Phenol	0.17	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Bis(2-chloroethyl)ether	0.17	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Bis(2-chloroethoxy)methane	0.17	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Bis(2-ethylhexyl)phthalate	0.17	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Di-n-octylphthalate	0.17	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Hexachlorobenzene	0.17	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Anthracene	0.17	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Trichlorobenzene[1,2,4-]	0.17	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Dichlorophenol[2,4-]	0.17	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Dinitrotoluene[2,4-]	0.17	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Pyrene	0.17	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Dimethyl phthalate	0.17	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Dibenzofuran	0.17	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Benzo(g,h,i)perylene	0.17	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Indeno(1,2,3-cd)pyrene	0.17	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Benzo(b)fluoranthene	0.17	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Fluoranthene	0.17	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Benzo(k)fluoranthene	0.17	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Acenaphthylene	0.17	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Chrysene	0.17	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Benzo(a)pyrene	0.17	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Dinitrophenol[2,4-]	0.88	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Dibenz(a,h)anthracene	0.17	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Dinitro-2-methylphenol[4,6-]	0.88	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Dichlorobenzene[1,3-]	0.17	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Benzo(a)anthracene	0.17	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Chloro-3-methylphenol[4-]	0.35	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Dinitrotoluene[2,6-]	0.17	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Aniline	0.35	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Nitrosodimethylamine[N-]	0.17	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Nitroso-di-n-propylamine[N-]	0.17	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Benzoic acid	0.88	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Hexachloroethane	0.17	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Chlorophenyl-phenyl[4-] ether	0.17	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Hexachlorocyclopentadiene	0.17	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Isophorone	0.17	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Acenaphthene	0.17	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Diethylphthalate	0.17	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Di-n-butylphthalate	0.17	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Phenanthrene	0.17	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Butylbenzylphthalate	0.17	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Units	Report Qualifier
51-09203	0551-95-2017	50–60	Qbt 3	Nitrosodiphenylamine[N-]	0.17	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Fluorene	0.17	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Hexachlorobutadiene	0.17	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Pentachlorophenol	0.88	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Trichlorophenol[2,4,6-]	0.17	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Nitroaniline[2-]	0.88	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Nitrophenol[2-]	0.17	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Naphthalene	0.17	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Methylnaphthalene[2-]	0.17	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Chloronaphthalene[2-]	0.17	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Dichlorobenzidine[3,3'-]	0.35	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Methylphenol[2-]	0.17	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Dichlorobenzene[1,2-]	0.17	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Chlorophenol[2-]	0.17	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Trichlorophenol[2,4,5-]	0.88	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Nitrobenzene	0.17	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Nitroaniline[3-]	0.88	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Ethylbenzene	0.0054	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Styrene	0.0054	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Dichloropropene[cis-1,3-]	0.0054	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Dichloropropene[trans-1,3-]	0.0054	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Propylbenzene[1-]	0.0054	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Butylbenzene[n-]	0.0054	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Chlorotoluene[4-]	0.0054	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Dichlorobenzene[1,4-]	0.0054	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Dibromoethane[1,2-]	0.0054	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Dichloroethane[1,2-]	0.0054	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Methyl-2-pentanone[4-]	0.022	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Trimethylbenzene[1,3,5-]	0.0054	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Bromobenzene	0.0054	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Toluene	0.0054	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Chlorobenzene	0.0054	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Chlorodibromomethane	0.0054	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Tetrachloroethene	0.0054	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Xylene (total)	0.0054	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Butylbenzene[sec-]	0.0054	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Dichloropropane[1,3-]	0.0054	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Dichloroethene[trans-1,2-]	0.011	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Dichlorobenzene[1,3-]	0.0054	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Carbon Tetrachloride	0.0054	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Dichloropropene[1,1-]	0.0054	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Hexanone[2-]	0.022	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Dichloropropane[2,2-]	0.0054	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Tetrachloroethane[1,1,1,2-]	0.0054	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Acetone	0.022	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Chloroform	0.0054	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Benzene	0.0054	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Units	Report Qualifier
51-09203	0551-95-2017	50–60	Qbt 3	Trichloroethane[1,1,1-]	0.0054	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Bromomethane	0.011	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Chloromethane	0.011	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Iodomethane	0.0054	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Dibromomethane	0.0054	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Bromochloromethane	0.0054	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Chloroethane	0.011	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Vinyl chloride	0.011	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Methylene chloride	0.0054	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Carbon disulfide	0.0054	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Bromoform	0.0054	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Bromodichloromethane	0.0054	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Dichloroethane[1,1-]	0.0054	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Dichloroethene[1,1-]	0.0054	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Trichlorofluoromethane	0.0054	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Dichlorodifluoromethane	0.011	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Trichloro-1,2,2-trifluoroethane[1,1,2-]	0.0054	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Dichloropropane[1,2-]	0.0054	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Butanone[2-]	0.022	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Trichloroethane[1,1,2-]	0.0054	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Trichloroethene	0.0054	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Tetrachloroethane[1,1,2,2-]	0.0054	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Chlorotoluene[2-]	0.0054	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Dichlorobenzene[1,2-]	0.0054	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Trimethylbenzene[1,2,4-]	0.0054	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Dibromo-3-chloropropane[1,2-]	0.011	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Trichloropropane[1,2,3-]	0.0054	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Butylbenzene[tert-]	0.0054	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Isopropylbenzene	0.0054	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Isopropyltoluene[4-]	0.0054	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Heptachlor epoxide	0.0017	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Endosulfan sulfate	0.0035	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Aroclor-1260	0.035	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Aroclor-1254	0.035	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Aroclor-1221	0.071	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Aroclor-1232	0.035	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Aroclor-1248	0.035	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Aroclor-1016	0.035	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Aldrin	0.0017	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	BHC[alpha-]	0.0017	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	BHC[beta-]	0.0017	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	BHC[delta-]	0.0017	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Endosulfan II	0.0035	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	DDT[4,4'-]	0.0035	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Chlordane[alpha-]	0.0017	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Chlordane[gamma-]	0.0017	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Aroclor-1242	0.035	mg/kg	U

Table D-2.0-1 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Units	Report Qualifier
51-09203	0551-95-2017	50–60	Qbt 3	Endrin Ketone	0.0035	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	BHC[gamma-]	0.0017	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Dieldrin	0.0035	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Endrin	0.0035	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Methoxychlor[4,4'-]	0.017	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	DDD[4,4'-]	0.0035	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	DDE[4,4'-]	0.0035	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Endrin aldehyde	0.0035	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Heptachlor	0.0017	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Toxaphene (technical grade)	0.18	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Endosulfan I	0.0017	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Cyanide, total	0.53	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Silver	2.1	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Aluminum	1500	mg/kg	None
51-09203	0551-95-2017	50–60	Qbt 3	Barium	14	mg/kg	None
51-09203	0551-95-2017	50–60	Qbt 3	Beryllium	0.53	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Calcium	820	mg/kg	None
51-09203	0551-95-2017	50–60	Qbt 3	Cadmium	0.53	mg/kg	UJ
51-09203	0551-95-2017	50–60	Qbt 3	Cobalt	1.1	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Chromium, total	2.1	mg/kg	None
51-09203	0551-95-2017	50–60	Qbt 3	Copper	1.1	mg/kg	None
51-09203	0551-95-2017	50–60	Qbt 3	Iron	2100	mg/kg	None
51-09203	0551-95-2017	50–60	Qbt 3	Mercury	0.26	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Potassium	320	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Magnesium	210	mg/kg	None
51-09203	0551-95-2017	50–60	Qbt 3	Manganese	55	mg/kg	None
51-09203	0551-95-2017	50–60	Qbt 3	Sodium	130	mg/kg	None
51-09203	0551-95-2017	50–60	Qbt 3	Nickel	2.1	mg/kg	None
51-09203	0551-95-2017	50–60	Qbt 3	Antimony	11	mg/kg	UJ
51-09203	0551-95-2017	50–60	Qbt 3	Vanadium	3.2	mg/kg	None
51-09203	0551-95-2017	50–60	Qbt 3	Zinc	19	mg/kg	None
51-09203	0551-95-2017	50–60	Qbt 3	Arsenic	0.37	mg/kg	None
51-09203	0551-95-2017	50–60	Qbt 3	Thallium	0.26	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Lead	12	mg/kg	None
51-09203	0551-95-2017	50–60	Qbt 3	Selenium	1.1	mg/kg	U
51-09203	0551-95-2017	50–60	Qbt 3	Gross alpha radiation	0.71	pCi/g	None
51-09203	0551-95-2017	50–60	Qbt 3	Gross beta radiation	0.53	pCi/g	U
51-09203	0551-95-2017	50–60	Qbt 3	Gross gamma radiation	0.87	pCi/g	U

Table D-2.0-2
Analytical Results for PRS 54-007(d) from the 1995 RFI

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Units	Report Qualifier
54-09214	0554-95-2021	2.5–3.333	ALLH*	Ethylbenzene	0.005	mg/kg	UJ
54-09214	0554-95-2021	2.5–3.333	ALLH	Styrene	0.005	mg/kg	UJ
54-09214	0554-95-2021	2.5–3.333	ALLH	Dichloropropene[cis-1,3-]	0.005	mg/kg	UJ
54-09214	0554-95-2021	2.5–3.333	ALLH	Dichloropropene[trans-1,3-]	0.005	mg/kg	UJ
54-09214	0554-95-2021	2.5–3.333	ALLH	Propylbenzene[1-]	0.005	mg/kg	UJ
54-09214	0554-95-2021	2.5–3.333	ALLH	Butylbenzene[n-]	0.005	mg/kg	UJ
54-09214	0554-95-2021	2.5–3.333	ALLH	Chlorotoluene[4-]	0.005	mg/kg	UJ
54-09214	0554-95-2021	2.5–3.333	ALLH	Dichlorobenzene[1,4-]	0.005	mg/kg	UJ
54-09214	0554-95-2021	2.5–3.333	ALLH	Dibromoethane[1,2-]	0.005	mg/kg	UJ
54-09214	0554-95-2021	2.5–3.333	ALLH	Dichloroethane[1,2-]	0.005	mg/kg	UJ
54-09214	0554-95-2021	2.5–3.333	ALLH	Methyl-2-pentanone[4-]	0.02	mg/kg	UJ
54-09214	0554-95-2021	2.5–3.333	ALLH	Trimethylbenzene[1,3,5-]	0.005	mg/kg	UJ
54-09214	0554-95-2021	2.5–3.333	ALLH	Bromobenzene	0.005	mg/kg	UJ
54-09214	0554-95-2021	2.5–3.333	ALLH	Toluene	0.005	mg/kg	UJ
54-09214	0554-95-2021	2.5–3.333	ALLH	Chlorobenzene	0.005	mg/kg	UJ
54-09214	0554-95-2021	2.5–3.333	ALLH	Chlorodibromomethane	0.005	mg/kg	UJ
54-09214	0554-95-2021	2.5–3.333	ALLH	Tetrachloroethene	0.005	mg/kg	UJ
54-09214	0554-95-2021	2.5–3.333	ALLH	Butylbenzene[sec-]	0.005	mg/kg	UJ
54-09214	0554-95-2021	2.5–3.333	ALLH	Dichloropropane[1,3-]	0.005	mg/kg	UJ
54-09214	0554-95-2021	2.5–3.333	ALLH	Dichloroethene[cis-1,2-]	0.005	mg/kg	UJ
54-09214	0554-95-2021	2.5–3.333	ALLH	Dichloroethene[trans-1,2-]	0.005	mg/kg	UJ
54-09214	0554-95-2021	2.5–3.333	ALLH	Dichlorobenzene[1,3-]	0.005	mg/kg	UJ
54-09214	0554-95-2021	2.5–3.333	ALLH	Carbon tetrachloride	0.005	mg/kg	UJ
54-09214	0554-95-2021	2.5–3.333	ALLH	Dichloropropene[1,1-]	0.005	mg/kg	UJ
54-09214	0554-95-2021	2.5–3.333	ALLH	Hexanone[2-]	0.02	mg/kg	UJ
54-09214	0554-95-2021	2.5–3.333	ALLH	Dichloropropane[2,2-]	0.005	mg/kg	UJ
54-09214	0554-95-2021	2.5–3.333	ALLH	Tetrachloroethane[1,1,1,2-]	0.005	mg/kg	UJ
54-09214	0554-95-2021	2.5–3.333	ALLH	Acetone	0.02	mg/kg	UJ
54-09214	0554-95-2021	2.5–3.333	ALLH	Chloroform	0.005	mg/kg	UJ
54-09214	0554-95-2021	2.5–3.333	ALLH	Benzene	0.005	mg/kg	UJ
54-09214	0554-95-2021	2.5–3.333	ALLH	Trichloroethane[1,1,1-]	0.005	mg/kg	UJ
54-09214	0554-95-2021	2.5–3.333	ALLH	Bromomethane	0.01	mg/kg	UJ
54-09214	0554-95-2021	2.5–3.333	ALLH	Chloromethane	0.01	mg/kg	UJ
54-09214	0554-95-2021	2.5–3.333	ALLH	Iodomethane	0.005	mg/kg	UJ
54-09214	0554-95-2021	2.5–3.333	ALLH	Dibromomethane	0.005	mg/kg	UJ
54-09214	0554-95-2021	2.5–3.333	ALLH	Bromochloromethane	0.005	mg/kg	UJ
54-09214	0554-95-2021	2.5–3.333	ALLH	Chloroethane	0.01	mg/kg	UJ
54-09214	0554-95-2021	2.5–3.333	ALLH	Vinyl chloride	0.01	mg/kg	UJ
54-09214	0554-95-2021	2.5–3.333	ALLH	Methylene chloride	0.002	mg/kg	U
54-09214	0554-95-2021	2.5–3.333	ALLH	Carbon disulfide	0.005	mg/kg	UJ
54-09214	0554-95-2021	2.5–3.333	ALLH	Bromoform	0.005	mg/kg	UJ

* ALLH = all horizons soils.

Table D-2.0-2 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Units	Report Qualifier
54-09214	0554-95-2021	2.5-3.333	ALLH	Bromodichloromethane	0.005	mg/kg	UJ
54-09214	0554-95-2021	2.5-3.333	ALLH	Dichloroethane[1,1-]	0.005	mg/kg	UJ
54-09214	0554-95-2021	2.5-3.333	ALLH	Dichloroethene[1,1-]	0.005	mg/kg	UJ
54-09214	0554-95-2021	2.5-3.333	ALLH	Trichlorofluoromethane	0.005	mg/kg	UJ
54-09214	0554-95-2021	2.5-3.333	ALLH	Dichlorodifluoromethane	0.01	mg/kg	UJ
54-09214	0554-95-2021	2.5-3.333	ALLH	Trichloro-1,2,2-trifluoroethane[1,1,2-]	0.005	mg/kg	UJ
54-09214	0554-95-2021	2.5-3.333	ALLH	Dichloropropane[1,2-]	0.005	mg/kg	UJ
54-09214	0554-95-2021	2.5-3.333	ALLH	Butanone[2-]	0.02	mg/kg	UJ
54-09214	0554-95-2021	2.5-3.333	ALLH	Trichloroethane[1,1,2-]	0.005	mg/kg	UJ
54-09214	0554-95-2021	2.5-3.333	ALLH	Trichloroethene	0.005	mg/kg	UJ
54-09214	0554-95-2021	2.5-3.333	ALLH	Tetrachloroethane[1,1,2,2-]	0.005	mg/kg	UJ
54-09214	0554-95-2021	2.5-3.333	ALLH	Xylene[1,2-]	0.005	mg/kg	UJ
54-09214	0554-95-2021	2.5-3.333	ALLH	Chlorotoluene[2-]	0.005	mg/kg	UJ
54-09214	0554-95-2021	2.5-3.333	ALLH	Dichlorobenzene[1,2-]	0.005	mg/kg	UJ
54-09214	0554-95-2021	2.5-3.333	ALLH	Trimethylbenzene[1,2,4-]	0.005	mg/kg	UJ
54-09214	0554-95-2021	2.5-3.333	ALLH	Dibromo-3-chloropropane[1,2-]	0.01	mg/kg	UJ
54-09214	0554-95-2021	2.5-3.333	ALLH	Trichloropropane[1,2,3-]	0.005	mg/kg	UJ
54-09214	0554-95-2021	2.5-3.333	ALLH	Butylbenzene[tert-]	0.005	mg/kg	UJ
54-09214	0554-95-2021	2.5-3.333	ALLH	Isopropylbenzene	0.005	mg/kg	UJ
54-09214	0554-95-2021	2.5-3.333	ALLH	Isopropyltoluene[4-]	0.005	mg/kg	UJ
54-09214	0554-95-2021	2.5-3.333	ALLH	Xylene[1,3-]+Xylene[1,4-]	0.005	mg/kg	UJ
54-09214	0554-95-2021	2.5-3.333	ALLH	Heptachlor epoxide	0.0018	mg/kg	U
54-09214	0554-95-2021	2.5-3.333	ALLH	Endosulfan sulfate	0.0035	mg/kg	U
54-09214	0554-95-2021	2.5-3.333	ALLH	Aroclor-1260	0.035	mg/kg	U
54-09214	0554-95-2021	2.5-3.333	ALLH	Aroclor-1254	0.035	mg/kg	U
54-09214	0554-95-2021	2.5-3.333	ALLH	Aroclor-1221	0.07	mg/kg	U
54-09214	0554-95-2021	2.5-3.333	ALLH	Aroclor-1232	0.035	mg/kg	U
54-09214	0554-95-2021	2.5-3.333	ALLH	Aroclor-1248	0.035	mg/kg	U
54-09214	0554-95-2021	2.5-3.333	ALLH	Aroclor-1016	0.035	mg/kg	U
54-09214	0554-95-2021	2.5-3.333	ALLH	Aldrin	0.0018	mg/kg	U
54-09214	0554-95-2021	2.5-3.333	ALLH	BHC[alpha-]	0.0018	mg/kg	U
54-09214	0554-95-2021	2.5-3.333	ALLH	BHC[beta-]	0.0018	mg/kg	U
54-09214	0554-95-2021	2.5-3.333	ALLH	BHC[delta-]	0.0018	mg/kg	U
54-09214	0554-95-2021	2.5-3.333	ALLH	Endosulfan II	0.0035	mg/kg	U
54-09214	0554-95-2021	2.5-3.333	ALLH	DDT[4,4'-]	0.0035	mg/kg	U
54-09214	0554-95-2021	2.5-3.333	ALLH	Chlordane[alpha-]	0.0018	mg/kg	U
54-09214	0554-95-2021	2.5-3.333	ALLH	Chlordane[gamma-]	0.0018	mg/kg	U
54-09214	0554-95-2021	2.5-3.333	ALLH	Aroclor-1242	0.035	mg/kg	U
54-09214	0554-95-2021	2.5-3.333	ALLH	Endrin ketone	0.0035	mg/kg	U
54-09214	0554-95-2021	2.5-3.333	ALLH	BHC[gamma-]	0.0018	mg/kg	U
54-09214	0554-95-2021	2.5-3.333	ALLH	Dieldrin	0.0035	mg/kg	U
54-09214	0554-95-2021	2.5-3.333	ALLH	Endrin	0.0035	mg/kg	U

Table D-2.0-2 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Units	Report Qualifier
54-09214	0554-95-2021	2.5–3.333	ALLH	Methoxychlor[4,4'-]	0.018	mg/kg	U
54-09214	0554-95-2021	2.5–3.333	ALLH	DDD[4,4'-]	0.0035	mg/kg	U
54-09214	0554-95-2021	2.5–3.333	ALLH	DDE[4,4'-]	0.0035	mg/kg	U
54-09214	0554-95-2021	2.5–3.333	ALLH	Endrin aldehyde	0.0035	mg/kg	U
54-09214	0554-95-2021	2.5–3.333	ALLH	Heptachlor	0.0018	mg/kg	U
54-09214	0554-95-2021	2.5–3.333	ALLH	Toxaphene (technical grade)	0.18	mg/kg	U
54-09214	0554-95-2021	2.5–3.333	ALLH	Endosulfan I	0.0018	mg/kg	U
54-09214	0554-95-2021	2.5–3.333	ALLH	Nitroaniline[4-]	0.7	mg/kg	U
54-09214	0554-95-2021	2.5–3.333	ALLH	Nitrophenol[4-]	1.8	mg/kg	U
54-09214	0554-95-2021	2.5–3.333	ALLH	Benzyl alcohol	0.7	mg/kg	U
54-09214	0554-95-2021	2.5–3.333	ALLH	Bromophenyl-phenylether[4-]	0.35	mg/kg	U
54-09214	0554-95-2021	2.5–3.333	ALLH	Azobenzene	0.35	mg/kg	U
54-09214	0554-95-2021	2.5–3.333	ALLH	Dimethylphenol[2,4-]	0.35	mg/kg	U
54-09214	0554-95-2021	2.5–3.333	ALLH	Methylphenol[4-]	0.35	mg/kg	U
54-09214	0554-95-2021	2.5–3.333	ALLH	Dichlorobenzene[1,4-]	0.35	mg/kg	U
54-09214	0554-95-2021	2.5–3.333	ALLH	Chloroaniline[4-]	0.7	mg/kg	U
54-09214	0554-95-2021	2.5–3.333	ALLH	Oxybis(1-chloropropane)[2,2'-]	0.35	mg/kg	U
54-09214	0554-95-2021	2.5–3.333	ALLH	Phenol	0.35	mg/kg	U
54-09214	0554-95-2021	2.5–3.333	ALLH	Bis(2-chloroethyl)ether	0.35	mg/kg	U
54-09214	0554-95-2021	2.5–3.333	ALLH	Bis(2-chloroethoxy)methane	0.35	mg/kg	U
54-09214	0554-95-2021	2.5–3.333	ALLH	Bis(2-ethylhexyl)phthalate	0.35	mg/kg	U
54-09214	0554-95-2021	2.5–3.333	ALLH	Di-n-octylphthalate	0.35	mg/kg	U
54-09214	0554-95-2021	2.5–3.333	ALLH	Hexachlorobenzene	0.35	mg/kg	U
54-09214	0554-95-2021	2.5–3.333	ALLH	Anthracene	0.35	mg/kg	U
54-09214	0554-95-2021	2.5–3.333	ALLH	Trichlorobenzene[1,2,4-]	0.35	mg/kg	U
54-09214	0554-95-2021	2.5–3.333	ALLH	Dichlorophenol[2,4-]	0.35	mg/kg	U
54-09214	0554-95-2021	2.5–3.333	ALLH	Dinitrotoluene[2,4-]	0.35	mg/kg	U
54-09214	0554-95-2021	2.5–3.333	ALLH	Pyrene	0.35	mg/kg	U
54-09214	0554-95-2021	2.5–3.333	ALLH	Dimethyl phthalate	0.35	mg/kg	U
54-09214	0554-95-2021	2.5–3.333	ALLH	Dibenzofuran	0.35	mg/kg	U
54-09214	0554-95-2021	2.5–3.333	ALLH	Benzo(g,h,i)perylene	0.35	mg/kg	U
54-09214	0554-95-2021	2.5–3.333	ALLH	Indeno(1,2,3-cd)pyrene	0.35	mg/kg	U
54-09214	0554-95-2021	2.5–3.333	ALLH	Benzo(b)fluoranthene	0.35	mg/kg	U
54-09214	0554-95-2021	2.5–3.333	ALLH	Fluoranthene	0.35	mg/kg	U
54-09214	0554-95-2021	2.5–3.333	ALLH	Benzo(k)fluoranthene	0.35	mg/kg	U
54-09214	0554-95-2021	2.5–3.333	ALLH	Acenaphthylene	0.35	mg/kg	U
54-09214	0554-95-2021	2.5–3.333	ALLH	Chrysene	0.35	mg/kg	U
54-09214	0554-95-2021	2.5–3.333	ALLH	Benzo(a)pyrene	0.35	mg/kg	U
54-09214	0554-95-2021	2.5–3.333	ALLH	Dinitrophenol[2,4-]	1.8	mg/kg	U
54-09214	0554-95-2021	2.5–3.333	ALLH	Dibenz(a,h)anthracene	0.35	mg/kg	U
54-09214	0554-95-2021	2.5–3.333	ALLH	Dinitro-2-methylphenol[4,6-]	1.8	mg/kg	U
54-09214	0554-95-2021	2.5–3.333	ALLH	Dichlorobenzene[1,3-]	0.35	mg/kg	U

Table D-2.0-2 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Units	Report Qualifier
54-09214	0554-95-2021	2.5-3.333	ALLH	Benzo(a)anthracene	0.35	mg/kg	U
54-09214	0554-95-2021	2.5-3.333	ALLH	Chloro-3-methylphenol[4-]	0.7	mg/kg	U
54-09214	0554-95-2021	2.5-3.333	ALLH	Dinitrotoluene[2,6-]	0.35	mg/kg	U
54-09214	0554-95-2021	2.5-3.333	ALLH	Aniline	0.35	mg/kg	U
54-09214	0554-95-2021	2.5-3.333	ALLH	Nitrosodimethylamine[N-]	0.35	mg/kg	U
54-09214	0554-95-2021	2.5-3.333	ALLH	Nitroso-di-n-propylamine[N-]	0.35	mg/kg	U
54-09214	0554-95-2021	2.5-3.333	ALLH	Benzoic acid	1.8	mg/kg	U
54-09214	0554-95-2021	2.5-3.333	ALLH	Hexachloroethane	0.35	mg/kg	U
54-09214	0554-95-2021	2.5-3.333	ALLH	Chlorophenyl-phenyl[4-] ether	0.35	mg/kg	U
54-09214	0554-95-2021	2.5-3.333	ALLH	Hexachlorocyclopentadiene	0.35	mg/kg	U
54-09214	0554-95-2021	2.5-3.333	ALLH	Isophorone	0.35	mg/kg	U
54-09214	0554-95-2021	2.5-3.333	ALLH	Acenaphthene	0.35	mg/kg	U
54-09214	0554-95-2021	2.5-3.333	ALLH	Diethylphthalate	0.35	mg/kg	U
54-09214	0554-95-2021	2.5-3.333	ALLH	Di-n-butylphthalate	0.35	mg/kg	U
54-09214	0554-95-2021	2.5-3.333	ALLH	Phenanthrene	0.35	mg/kg	U
54-09214	0554-95-2021	2.5-3.333	ALLH	Butylbenzylphthalate	0.35	mg/kg	U
54-09214	0554-95-2021	2.5-3.333	ALLH	Nitrosodiphenylamine[N-]	0.35	mg/kg	U
54-09214	0554-95-2021	2.5-3.333	ALLH	Fluorene	0.35	mg/kg	U
54-09214	0554-95-2021	2.5-3.333	ALLH	Hexachlorobutadiene	0.35	mg/kg	U
54-09214	0554-95-2021	2.5-3.333	ALLH	Pentachlorophenol	1.8	mg/kg	U
54-09214	0554-95-2021	2.5-3.333	ALLH	Trichlorophenol[2,4,6-]	0.35	mg/kg	U
54-09214	0554-95-2021	2.5-3.333	ALLH	Nitroaniline[2-]	1.8	mg/kg	U
54-09214	0554-95-2021	2.5-3.333	ALLH	Nitrophenol[2-]	0.35	mg/kg	U
54-09214	0554-95-2021	2.5-3.333	ALLH	Naphthalene	0.35	mg/kg	U
54-09214	0554-95-2021	2.5-3.333	ALLH	Methylnaphthalene[2-]	0.35	mg/kg	U
54-09214	0554-95-2021	2.5-3.333	ALLH	Chloronaphthalene[2-]	0.35	mg/kg	U
54-09214	0554-95-2021	2.5-3.333	ALLH	Dichlorobenzidine[3,3'-]	0.7	mg/kg	U
54-09214	0554-95-2021	2.5-3.333	ALLH	Methylphenol[2-]	0.35	mg/kg	U
54-09214	0554-95-2021	2.5-3.333	ALLH	Dichlorobenzene[1,2-]	0.35	mg/kg	U
54-09214	0554-95-2021	2.5-3.333	ALLH	Chlorophenol[2-]	0.35	mg/kg	U
54-09214	0554-95-2021	2.5-3.333	ALLH	Trichlorophenol[2,4,5-]	1.8	mg/kg	U
54-09214	0554-95-2021	2.5-3.333	ALLH	Nitrobenzene	0.35	mg/kg	U
54-09214	0554-95-2021	2.5-3.333	ALLH	Nitroaniline[3-]	1.8	mg/kg	U
54-09214	0554-95-2021	2.5-3.333	ALLH	Mercury	0.05	mg/kg	U
54-09214	0554-95-2021	2.5-3.333	ALLH	Cyanide, total	0.5	mg/kg	U
54-09214	0554-95-2021	2.5-3.333	ALLH	Silver	0.94	mg/kg	U
54-09214	0554-95-2021	2.5-3.333	ALLH	Aluminum	8010	mg/kg	None
54-09214	0554-95-2021	2.5-3.333	ALLH	Arsenic	0.96	mg/kg	U
54-09214	0554-95-2021	2.5-3.333	ALLH	Barium	142	mg/kg	None
54-09214	0554-95-2021	2.5-3.333	ALLH	Beryllium	1.1	mg/kg	U
54-09214	0554-95-2021	2.5-3.333	ALLH	Calcium	3230	mg/kg	None
54-09214	0554-95-2021	2.5-3.333	ALLH	Cadmium	0.72	mg/kg	U

Table D-2.0-2 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Units	Report Qualifier
54-09214	0554-95-2021	2.5–3.333	ALLH	Cobalt	4.1	mg/kg	U
54-09214	0554-95-2021	2.5–3.333	ALLH	Chromium, total	7.6	mg/kg	None
54-09214	0554-95-2021	2.5–3.333	ALLH	Copper	8.6	mg/kg	None
54-09214	0554-95-2021	2.5–3.333	ALLH	Iron	10600	mg/kg	None
54-09214	0554-95-2021	2.5–3.333	ALLH	Potassium	1260	mg/kg	U
54-09214	0554-95-2021	2.5–3.333	ALLH	Magnesium	1940	mg/kg	None
54-09214	0554-95-2021	2.5–3.333	ALLH	Manganese	244	mg/kg	None
54-09214	0554-95-2021	2.5–3.333	ALLH	Sodium	219	mg/kg	J
54-09214	0554-95-2021	2.5–3.333	ALLH	Nickel	7.5	mg/kg	J
54-09214	0554-95-2021	2.5–3.333	ALLH	Antimony	9.2	mg/kg	U
54-09214	0554-95-2021	2.5–3.333	ALLH	Selenium	0.33	mg/kg	UJ
54-09214	0554-95-2021	2.5–3.333	ALLH	Thallium	0.19	mg/kg	UJ
54-09214	0554-95-2021	2.5–3.333	ALLH	Vanadium	16.8	mg/kg	None
54-09214	0554-95-2021	2.5–3.333	ALLH	Zinc	35.6	mg/kg	None
54-09214	0554-95-2021	2.5–3.333	ALLH	Lead	10.2	mg/kg	J-
54-09214	0554-95-2021	2.5–3.333	ALLH	Gross alpha radiation	3.86	pCi/g	None
54-09214	0554-95-2021	2.5–3.333	ALLH	Gross beta radiation	2.98	pCi/g	None
54-09214	0554-95-2021	2.5–3.333	ALLH	Gross gamma radiation	2.94	pCi/g	None
54-09215	0554-95-2022	2.167–3	ALLH	Ethylbenzene	0.005	mg/kg	U
54-09215	0554-95-2022	2.167–3	ALLH	Styrene	0.005	mg/kg	U
54-09215	0554-95-2022	2.167–3	ALLH	Dichloropropene[cis-1,3-]	0.005	mg/kg	U
54-09215	0554-95-2022	2.167–3	ALLH	Dichloropropene[trans-1,3-]	0.005	mg/kg	U
54-09215	0554-95-2022	2.167–3	ALLH	Propylbenzene[1-]	0.005	mg/kg	U
54-09215	0554-95-2022	2.167–3	ALLH	Butylbenzene[n-]	0.005	mg/kg	U
54-09215	0554-95-2022	2.167–3	ALLH	Chlorotoluene[4-]	0.005	mg/kg	U
54-09215	0554-95-2022	2.167–3	ALLH	Dichlorobenzene[1,4-]	0.005	mg/kg	U
54-09215	0554-95-2022	2.167–3	ALLH	Dibromoethane[1,2-]	0.005	mg/kg	U
54-09215	0554-95-2022	2.167–3	ALLH	Dichloroethane[1,2-]	0.005	mg/kg	U
54-09215	0554-95-2022	2.167–3	ALLH	Methyl-2-pentanone[4-]	0.02	mg/kg	U
54-09215	0554-95-2022	2.167–3	ALLH	Trimethylbenzene[1,3,5-]	0.005	mg/kg	U
54-09215	0554-95-2022	2.167–3	ALLH	Bromobenzene	0.005	mg/kg	U
54-09215	0554-95-2022	2.167–3	ALLH	Toluene	0.005	mg/kg	U
54-09215	0554-95-2022	2.167–3	ALLH	Chlorobenzene	0.005	mg/kg	U
54-09215	0554-95-2022	2.167–3	ALLH	Chlorodibromomethane	0.005	mg/kg	U
54-09215	0554-95-2022	2.167–3	ALLH	Tetrachloroethene	0.005	mg/kg	U
54-09215	0554-95-2022	2.167–3	ALLH	Butylbenzene[sec-]	0.005	mg/kg	U
54-09215	0554-95-2022	2.167–3	ALLH	Dichloropropane[1,3-]	0.005	mg/kg	U
54-09215	0554-95-2022	2.167–3	ALLH	Dichloroethene[cis-1,2-]	0.005	mg/kg	U
54-09215	0554-95-2022	2.167–3	ALLH	Dichloroethene[trans-1,2-]	0.005	mg/kg	U
54-09215	0554-95-2022	2.167–3	ALLH	Dichlorobenzene[1,3-]	0.005	mg/kg	U
54-09215	0554-95-2022	2.167–3	ALLH	Carbon tetrachloride	0.005	mg/kg	U
54-09215	0554-95-2022	2.167–3	ALLH	Dichloropropene[1,1-]	0.005	mg/kg	U

Table D-2.0-2 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Units	Report Qualifier
54-09215	0554-95-2022	2.167-3	ALLH	Hexanone[2-]	0.02	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Dichloropropane[2,2-]	0.005	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Tetrachloroethane[1,1,1,2-]	0.005	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Acetone	0.02	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Chloroform	0.005	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Benzene	0.005	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Trichloroethane[1,1,1-]	0.005	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Bromomethane	0.01	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Chloromethane	0.01	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Iodomethane	0.005	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Dibromomethane	0.005	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Bromochloromethane	0.005	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Chloroethane	0.01	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Vinyl chloride	0.01	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Methylene chloride	0.002	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Carbon disulfide	0.005	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Bromoform	0.005	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Bromodichloromethane	0.005	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Dichloroethane[1,1-]	0.005	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Dichloroethene[1,1-]	0.005	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Trichlorofluoromethane	0.005	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Dichlorodifluoromethane	0.01	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Trichloro-1,2,2-trifluoroethane[1,1,2-]	0.005	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Dichloropropane[1,2-]	0.005	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Butanone[2-]	0.02	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Trichloroethane[1,1,2-]	0.005	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Trichloroethene	0.005	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Tetrachloroethane[1,1,2,2-]	0.005	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Xylene[1,2-]	0.005	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Chlorotoluene[2-]	0.005	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Dichlorobenzene[1,2-]	0.005	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Trimethylbenzene[1,2,4-]	0.005	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Dibromo-3-chloropropane[1,2-]	0.01	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Trichloropropane[1,2,3-]	0.005	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Butylbenzene[tert-]	0.005	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Isopropylbenzene	0.005	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Isopropyltoluene[4-]	0.005	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Xylene[1,3-]+Xylene[1,4-]	0.005	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Heptachlor epoxide	0.0018	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Endosulfan sulfate	0.0035	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Aroclor-1260	0.035	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Aroclor-1254	0.035	mg/kg	U

Table D-2.0-2 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Units	Report Qualifier
54-09215	0554-95-2022	2.167-3	ALLH	Aroclor-1221	0.071	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Aroclor-1232	0.035	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Aroclor-1248	0.035	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Aroclor-1016	0.035	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Aldrin	0.0018	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	BHC[alpha-]	0.0018	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	BHC[beta-]	0.0018	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	BHC[delta-]	0.0018	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Endosulfan II	0.0035	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	DDT[4,4'-]	0.0035	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Chlordane[alpha-]	0.0018	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Chlordane[gamma-]	0.0018	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Aroclor-1242	0.035	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Endrin ketone	0.0035	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	BHC[gamma-]	0.0018	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Dieldrin	0.0035	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Endrin	0.0035	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Methoxychlor[4,4'-]	0.018	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	DDD[4,4'-]	0.0035	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	DDE[4,4'-]	0.0035	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Endrin aldehyde	0.0035	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Heptachlor	0.0018	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Toxaphene (technical grade)	0.18	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Endosulfan I	0.0018	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Nitroaniline[4-]	0.71	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Nitrophenol[4-]	1.8	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Benzyl alcohol	0.71	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Bromophenyl-phenylether[4-]	0.35	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Azobenzene	0.35	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Dimethylphenol[2,4-]	0.35	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Methylphenol[4-]	0.35	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Dichlorobenzene[1,4-]	0.35	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Chloroaniline[4-]	0.71	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Oxybis(1-chloropropane)[2,2'-]	0.35	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Phenol	0.35	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Bis(2-chloroethyl)ether	0.35	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Bis(2-chloroethoxy)methane	0.35	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Bis(2-ethylhexyl)phthalate	0.35	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Di-n-octylphthalate	0.35	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Hexachlorobenzene	0.35	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Anthracene	0.35	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Trichlorobenzene[1,2,4-]	0.35	mg/kg	U

Table D-2.0-2 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Units	Report Qualifier
54-09215	0554-95-2022	2.167-3	ALLH	Dichlorophenol[2,4-]	0.35	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Dinitrotoluene[2,4-]	0.35	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Pyrene	0.35	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Dimethyl phthalate	0.35	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Dibenzofuran	0.35	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Benzo(g,h,i)perylene	0.35	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Indeno(1,2,3-cd)pyrene	0.35	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Benzo(b)fluoranthene	0.35	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Fluoranthene	0.35	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Benzo(k)fluoranthene	0.35	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Acenaphthylene	0.35	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Chrysene	0.35	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Benzo(a)pyrene	0.35	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Dinitrophenol[2,4-]	1.8	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Dibenz(a,h)anthracene	0.35	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Dinitro-2-methylphenol[4,6-]	1.8	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Dichlorobenzene[1,3-]	0.35	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Benzo(a)anthracene	0.35	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Chloro-3-methylphenol[4-]	0.71	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Dinitrotoluene[2,6-]	0.35	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Aniline	0.35	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Nitrosodimethylamine[N-]	0.35	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Nitroso-di-n-propylamine[N-]	0.35	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Benzoic acid	1.8	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Hexachloroethane	0.35	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Chlorophenyl-phenyl[4-] ether	0.35	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Hexachlorocyclopentadiene	0.35	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Isophorone	0.35	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Acenaphthene	0.35	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Diethylphthalate	0.35	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Di-n-butylphthalate	0.35	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Phenanthrene	0.35	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Butylbenzylphthalate	0.35	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Nitrosodiphenylamine[N-]	0.35	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Fluorene	0.35	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Hexachlorobutadiene	0.35	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Pentachlorophenol	1.8	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Trichlorophenol[2,4,6-]	0.35	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Nitroaniline[2-]	1.8	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Nitrophenol[2-]	0.35	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Naphthalene	0.35	mg/kg	U
54-09215	0554-95-2022	2.167-3	ALLH	Methylnaphthalene[2-]	0.35	mg/kg	U

Table D-2.0-2 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Units	Report Qualifier
54-09215	0554-95-2022	2.167–3	ALLH	Chloronaphthalene[2-]	0.35	mg/kg	U
54-09215	0554-95-2022	2.167–3	ALLH	Dichlorobenzidine[3,3'-]	0.71	mg/kg	U
54-09215	0554-95-2022	2.167–3	ALLH	Methylphenol[2-]	0.35	mg/kg	U
54-09215	0554-95-2022	2.167–3	ALLH	Dichlorobenzene[1,2-]	0.35	mg/kg	U
54-09215	0554-95-2022	2.167–3	ALLH	Chlorophenol[2-]	0.35	mg/kg	U
54-09215	0554-95-2022	2.167–3	ALLH	Trichlorophenol[2,4,5-]	1.8	mg/kg	U
54-09215	0554-95-2022	2.167–3	ALLH	Nitrobenzene	0.35	mg/kg	U
54-09215	0554-95-2022	2.167–3	ALLH	Nitroaniline[3-]	1.8	mg/kg	U
54-09215	0554-95-2022	2.167–3	ALLH	Mercury	0.05	mg/kg	U
54-09215	0554-95-2022	2.167–3	ALLH	Cyanide, total	0.5	mg/kg	U
54-09215	0554-95-2022	2.167–3	ALLH	Silver	0.92	mg/kg	U
54-09215	0554-95-2022	2.167–3	ALLH	Aluminum	8900	mg/kg	None
54-09215	0554-95-2022	2.167–3	ALLH	Arsenic	1.4	mg/kg	U
54-09215	0554-95-2022	2.167–3	ALLH	Barium	155	mg/kg	None
54-09215	0554-95-2022	2.167–3	ALLH	Beryllium	1.1	mg/kg	U
54-09215	0554-95-2022	2.167–3	ALLH	Calcium	3360	mg/kg	None
54-09215	0554-95-2022	2.167–3	ALLH	Cadmium	0.71	mg/kg	U
54-09215	0554-95-2022	2.167–3	ALLH	Cobalt	6.2	mg/kg	J
54-09215	0554-95-2022	2.167–3	ALLH	Chromium, total	7.6	mg/kg	None
54-09215	0554-95-2022	2.167–3	ALLH	Copper	8	mg/kg	None
54-09215	0554-95-2022	2.167–3	ALLH	Iron	11500	mg/kg	None
54-09215	0554-95-2022	2.167–3	ALLH	Potassium	1470	mg/kg	U
54-09215	0554-95-2022	2.167–3	ALLH	Magnesium	1890	mg/kg	None
54-09215	0554-95-2022	2.167–3	ALLH	Manganese	342	mg/kg	None
54-09215	0554-95-2022	2.167–3	ALLH	Sodium	173	mg/kg	J
54-09215	0554-95-2022	2.167–3	ALLH	Nickel	5.1	mg/kg	J
54-09215	0554-95-2022	2.167–3	ALLH	Antimony	9	mg/kg	U
54-09215	0554-95-2022	2.167–3	ALLH	Selenium	0.34	mg/kg	UJ
54-09215	0554-95-2022	2.167–3	ALLH	Thallium	0.36	mg/kg	J
54-09215	0554-95-2022	2.167–3	ALLH	Vanadium	21	mg/kg	None
54-09215	0554-95-2022	2.167–3	ALLH	Zinc	33.5	mg/kg	None
54-09215	0554-95-2022	2.167–3	ALLH	Lead	11.8	mg/kg	J-
54-09215	0554-95-2022	2.167–3	ALLH	Gross alpha radiation	5.88	pCi/g	None
54-09215	0554-95-2022	2.167–3	ALLH	Gross beta radiation	3.64	pCi/g	None
54-09215	0554-95-2022	2.167–3	ALLH	Gross gamma radiation	1.69	pCi/g	U
54-09216	0554-95-2024	0.417–1.25	ALLH	Ethylbenzene	0.005	mg/kg	UJ
54-09216	0554-95-2024	0.417–1.25	ALLH	Styrene	0.005	mg/kg	UJ
54-09216	0554-95-2024	0.417–1.25	ALLH	Dichloropropene[cis-1,3-]	0.005	mg/kg	UJ
54-09216	0554-95-2024	0.417–1.25	ALLH	Dichloropropene[trans-1,3-]	0.005	mg/kg	UJ
54-09216	0554-95-2024	0.417–1.25	ALLH	Propylbenzene[1-]	0.005	mg/kg	UJ
54-09216	0554-95-2024	0.417–1.25	ALLH	Butylbenzene[n-]	0.005	mg/kg	UJ
54-09216	0554-95-2024	0.417–1.25	ALLH	Chlorotoluene[4-]	0.005	mg/kg	UJ

Table D-2.0-2 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Units	Report Qualifier
54-09216	0554-95-2024	0.417–1.25	ALLH	Dichlorobenzene[1,4-]	0.005	mg/kg	UJ
54-09216	0554-95-2024	0.417–1.25	ALLH	Dibromoethane[1,2-]	0.005	mg/kg	UJ
54-09216	0554-95-2024	0.417–1.25	ALLH	Dichloroethane[1,2-]	0.005	mg/kg	UJ
54-09216	0554-95-2024	0.417–1.25	ALLH	Methyl-2-pentanone[4-]	0.02	mg/kg	UJ
54-09216	0554-95-2024	0.417–1.25	ALLH	Trimethylbenzene[1,3,5-]	0.005	mg/kg	UJ
54-09216	0554-95-2024	0.417–1.25	ALLH	Bromobenzene	0.005	mg/kg	UJ
54-09216	0554-95-2024	0.417–1.25	ALLH	Toluene	0.004	mg/kg	J
54-09216	0554-95-2024	0.417–1.25	ALLH	Chlorobenzene	0.005	mg/kg	UJ
54-09216	0554-95-2024	0.417–1.25	ALLH	Chlorodibromomethane	0.005	mg/kg	UJ
54-09216	0554-95-2024	0.417–1.25	ALLH	Tetrachloroethene	0.005	mg/kg	UJ
54-09216	0554-95-2024	0.417–1.25	ALLH	Butylbenzene[sec-]	0.005	mg/kg	UJ
54-09216	0554-95-2024	0.417–1.25	ALLH	Dichloropropane[1,3-]	0.005	mg/kg	UJ
54-09216	0554-95-2024	0.417–1.25	ALLH	Dichloroethene[cis-1,2-]	0.005	mg/kg	UJ
54-09216	0554-95-2024	0.417–1.25	ALLH	Dichloroethene[trans-1,2-]	0.005	mg/kg	UJ
54-09216	0554-95-2024	0.417–1.25	ALLH	Dichlorobenzene[1,3-]	0.005	mg/kg	UJ
54-09216	0554-95-2024	0.417–1.25	ALLH	Carbon tetrachloride	0.005	mg/kg	UJ
54-09216	0554-95-2024	0.417–1.25	ALLH	Dichloropropene[1,1-]	0.005	mg/kg	UJ
54-09216	0554-95-2024	0.417–1.25	ALLH	Hexanone[2-]	0.02	mg/kg	UJ
54-09216	0554-95-2024	0.417–1.25	ALLH	Dichloropropane[2,2-]	0.005	mg/kg	UJ
54-09216	0554-95-2024	0.417–1.25	ALLH	Tetrachloroethane[1,1,1,2-]	0.005	mg/kg	UJ
54-09216	0554-95-2024	0.417–1.25	ALLH	Acetone	0.02	mg/kg	UJ
54-09216	0554-95-2024	0.417–1.25	ALLH	Chloroform	0.005	mg/kg	UJ
54-09216	0554-95-2024	0.417–1.25	ALLH	Benzene	0.005	mg/kg	UJ
54-09216	0554-95-2024	0.417–1.25	ALLH	Trichloroethene[1,1,1-]	0.005	mg/kg	UJ
54-09216	0554-95-2024	0.417–1.25	ALLH	Bromomethane	0.01	mg/kg	UJ
54-09216	0554-95-2024	0.417–1.25	ALLH	Chloromethane	0.01	mg/kg	UJ
54-09216	0554-95-2024	0.417–1.25	ALLH	Iodomethane	0.005	mg/kg	UJ
54-09216	0554-95-2024	0.417–1.25	ALLH	Dibromomethane	0.005	mg/kg	UJ
54-09216	0554-95-2024	0.417–1.25	ALLH	Bromochloromethane	0.005	mg/kg	UJ
54-09216	0554-95-2024	0.417–1.25	ALLH	Chloroethane	0.01	mg/kg	UJ
54-09216	0554-95-2024	0.417–1.25	ALLH	Vinyl chloride	0.01	mg/kg	UJ
54-09216	0554-95-2024	0.417–1.25	ALLH	Methylene chloride	0.006	mg/kg	U
54-09216	0554-95-2024	0.417–1.25	ALLH	Carbon disulfide	0.005	mg/kg	UJ
54-09216	0554-95-2024	0.417–1.25	ALLH	Bromoform	0.005	mg/kg	UJ
54-09216	0554-95-2024	0.417–1.25	ALLH	Bromodichloromethane	0.005	mg/kg	UJ
54-09216	0554-95-2024	0.417–1.25	ALLH	Dichloroethane[1,1-]	0.005	mg/kg	UJ
54-09216	0554-95-2024	0.417–1.25	ALLH	Dichloroethene[1,1-]	0.005	mg/kg	UJ
54-09216	0554-95-2024	0.417–1.25	ALLH	Trichlorofluoromethane	0.005	mg/kg	UJ
54-09216	0554-95-2024	0.417–1.25	ALLH	Dichlorodifluoromethane	0.01	mg/kg	UJ
54-09216	0554-95-2024	0.417–1.25	ALLH	Trichloro-1,2,2-trifluoroethane[1,1,2-]	0.005	mg/kg	UJ
54-09216	0554-95-2024	0.417–1.25	ALLH	Dichloropropane[1,2-]	0.005	mg/kg	UJ
54-09216	0554-95-2024	0.417–1.25	ALLH	Butanone[2-]	0.02	mg/kg	UJ

Table D-2.0-2 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Units	Report Qualifier
54-09216	0554-95-2024	0.417–1.25	ALLH	Trichloroethane[1,1,2-]	0.005	mg/kg	UJ
54-09216	0554-95-2024	0.417–1.25	ALLH	Trichloroethene	0.005	mg/kg	UJ
54-09216	0554-95-2024	0.417–1.25	ALLH	Tetrachloroethane[1,1,2,2-]	0.005	mg/kg	UJ
54-09216	0554-95-2024	0.417–1.25	ALLH	Xylene[1,2-]	0.005	mg/kg	UJ
54-09216	0554-95-2024	0.417–1.25	ALLH	Chlorotoluene[2-]	0.005	mg/kg	UJ
54-09216	0554-95-2024	0.417–1.25	ALLH	Dichlorobenzene[1,2-]	0.005	mg/kg	UJ
54-09216	0554-95-2024	0.417–1.25	ALLH	Trimethylbenzene[1,2,4-]	0.005	mg/kg	UJ
54-09216	0554-95-2024	0.417–1.25	ALLH	Dibromo-3-chloropropane[1,2-]	0.01	mg/kg	UJ
54-09216	0554-95-2024	0.417–1.25	ALLH	Trichloropropane[1,2,3-]	0.005	mg/kg	UJ
54-09216	0554-95-2024	0.417–1.25	ALLH	Butylbenzene[tert-]	0.005	mg/kg	UJ
54-09216	0554-95-2024	0.417–1.25	ALLH	Isopropylbenzene	0.005	mg/kg	UJ
54-09216	0554-95-2024	0.417–1.25	ALLH	Isopropyltoluene[4-]	0.005	mg/kg	UJ
54-09216	0554-95-2024	0.417–1.25	ALLH	Xylene[1,3-]+Xylene[1,4-]	0.005	mg/kg	UJ
54-09216	0554-95-2024	0.417–1.25	ALLH	Heptachlor epoxide	0.0018	mg/kg	UJ
54-09216	0554-95-2024	0.417–1.25	ALLH	Endosulfan sulfate	0.0036	mg/kg	UJ
54-09216	0554-95-2024	0.417–1.25	ALLH	Aroclor-1260	0.036	mg/kg	UJ
54-09216	0554-95-2024	0.417–1.25	ALLH	Aroclor-1254	0.25	mg/kg	None
54-09216	0554-95-2024	0.417–1.25	ALLH	Aroclor-1221	0.071	mg/kg	UJ
54-09216	0554-95-2024	0.417–1.25	ALLH	Aroclor-1232	0.036	mg/kg	UJ
54-09216	0554-95-2024	0.417–1.25	ALLH	Aroclor-1248	0.036	mg/kg	UJ
54-09216	0554-95-2024	0.417–1.25	ALLH	Aroclor-1016	0.036	mg/kg	UJ
54-09216	0554-95-2024	0.417–1.25	ALLH	Aldrin	0.0018	mg/kg	UJ
54-09216	0554-95-2024	0.417–1.25	ALLH	BHC[alpha-]	0.0018	mg/kg	UJ
54-09216	0554-95-2024	0.417–1.25	ALLH	BHC[beta-]	0.0018	mg/kg	UJ
54-09216	0554-95-2024	0.417–1.25	ALLH	BHC[delta-]	0.0018	mg/kg	UJ
54-09216	0554-95-2024	0.417–1.25	ALLH	Endosulfan II	0.0036	mg/kg	UJ
54-09216	0554-95-2024	0.417–1.25	ALLH	DDT[4,4'-]	0.0046	mg/kg	None
54-09216	0554-95-2024	0.417–1.25	ALLH	Chlordane[alpha-]	0.0018	mg/kg	UJ
54-09216	0554-95-2024	0.417–1.25	ALLH	Chlordane[gamma-]	0.0018	mg/kg	UJ
54-09216	0554-95-2024	0.417–1.25	ALLH	Aroclor-1242	0.036	mg/kg	UJ
54-09216	0554-95-2024	0.417–1.25	ALLH	Endrin ketone	0.0036	mg/kg	UJ
54-09216	0554-95-2024	0.417–1.25	ALLH	BHC[gamma-]	0.0018	mg/kg	UJ
54-09216	0554-95-2024	0.417–1.25	ALLH	Dieldrin	0.0036	mg/kg	UJ
54-09216	0554-95-2024	0.417–1.25	ALLH	Endrin	0.0036	mg/kg	UJ
54-09216	0554-95-2024	0.417–1.25	ALLH	Methoxychlor[4,4'-]	0.018	mg/kg	UJ
54-09216	0554-95-2024	0.417–1.25	ALLH	DDD[4,4'-]	0.0036	mg/kg	UJ
54-09216	0554-95-2024	0.417–1.25	ALLH	DDE[4,4'-]	0.0053	mg/kg	None
54-09216	0554-95-2024	0.417–1.25	ALLH	Endrin aldehyde	0.0036	mg/kg	UJ
54-09216	0554-95-2024	0.417–1.25	ALLH	Heptachlor	0.0018	mg/kg	UJ
54-09216	0554-95-2024	0.417–1.25	ALLH	Toxaphene (technical grade)	0.18	mg/kg	UJ
54-09216	0554-95-2024	0.417–1.25	ALLH	Endosulfan I	0.0018	mg/kg	UJ
54-09216	0554-95-2024	0.417–1.25	ALLH	Nitroaniline[4-]	0.71	mg/kg	U

Table D-2.0-2 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Units	Report Qualifier
54-09216	0554-95-2024	0.417–1.25	ALLH	Nitrophenol[4-]	1.8	mg/kg	U
54-09216	0554-95-2024	0.417–1.25	ALLH	Benzyl alcohol	0.71	mg/kg	U
54-09216	0554-95-2024	0.417–1.25	ALLH	Bromophenyl-phenylether[4-]	0.36	mg/kg	U
54-09216	0554-95-2024	0.417–1.25	ALLH	Azobenzene	0.36	mg/kg	U
54-09216	0554-95-2024	0.417–1.25	ALLH	Dimethylphenol[2,4-]	0.36	mg/kg	U
54-09216	0554-95-2024	0.417–1.25	ALLH	Methylphenol[4-]	0.36	mg/kg	U
54-09216	0554-95-2024	0.417–1.25	ALLH	Dichlorobenzene[1,4-]	0.36	mg/kg	U
54-09216	0554-95-2024	0.417–1.25	ALLH	Chloroaniline[4-]	0.71	mg/kg	U
54-09216	0554-95-2024	0.417–1.25	ALLH	Oxybis(1-chloropropane)[2,2'-]	0.36	mg/kg	U
54-09216	0554-95-2024	0.417–1.25	ALLH	Phenol	0.36	mg/kg	U
54-09216	0554-95-2024	0.417–1.25	ALLH	Bis(2-chloroethyl)ether	0.36	mg/kg	U
54-09216	0554-95-2024	0.417–1.25	ALLH	Bis(2-chloroethoxy)methane	0.36	mg/kg	U
54-09216	0554-95-2024	0.417–1.25	ALLH	Bis(2-ethylhexyl)phthalate	0.36	mg/kg	U
54-09216	0554-95-2024	0.417–1.25	ALLH	Di-n-octylphthalate	0.36	mg/kg	U
54-09216	0554-95-2024	0.417–1.25	ALLH	Hexachlorobenzene	0.36	mg/kg	U
54-09216	0554-95-2024	0.417–1.25	ALLH	Anthracene	0.36	mg/kg	U
54-09216	0554-95-2024	0.417–1.25	ALLH	Trichlorobenzene[1,2,4-]	0.36	mg/kg	U
54-09216	0554-95-2024	0.417–1.25	ALLH	Dichlorophenol[2,4-]	0.36	mg/kg	U
54-09216	0554-95-2024	0.417–1.25	ALLH	Dinitrotoluene[2,4-]	0.36	mg/kg	U
54-09216	0554-95-2024	0.417–1.25	ALLH	Pyrene	0.36	mg/kg	U
54-09216	0554-95-2024	0.417–1.25	ALLH	Dimethyl phthalate	0.36	mg/kg	U
54-09216	0554-95-2024	0.417–1.25	ALLH	Dibenzofuran	0.36	mg/kg	U
54-09216	0554-95-2024	0.417–1.25	ALLH	Benzo(g,h,i)perylene	0.36	mg/kg	U
54-09216	0554-95-2024	0.417–1.25	ALLH	Indeno(1,2,3-cd)pyrene	0.36	mg/kg	U
54-09216	0554-95-2024	0.417–1.25	ALLH	Benzo(b)fluoranthene	0.36	mg/kg	U
54-09216	0554-95-2024	0.417–1.25	ALLH	Fluoranthene	0.36	mg/kg	U
54-09216	0554-95-2024	0.417–1.25	ALLH	Benzo(k)fluoranthene	0.36	mg/kg	U
54-09216	0554-95-2024	0.417–1.25	ALLH	Acenaphthylene	0.36	mg/kg	U
54-09216	0554-95-2024	0.417–1.25	ALLH	Chrysene	0.36	mg/kg	U
54-09216	0554-95-2024	0.417–1.25	ALLH	Benzo(a)pyrene	0.36	mg/kg	U
54-09216	0554-95-2024	0.417–1.25	ALLH	Dinitrophenol[2,4-]	1.8	mg/kg	U
54-09216	0554-95-2024	0.417–1.25	ALLH	Dibenz(a,h)anthracene	0.36	mg/kg	U
54-09216	0554-95-2024	0.417–1.25	ALLH	Dinitro-2-methylphenol[4,6-]	1.8	mg/kg	U
54-09216	0554-95-2024	0.417–1.25	ALLH	Dichlorobenzene[1,3-]	0.36	mg/kg	U
54-09216	0554-95-2024	0.417–1.25	ALLH	Benzo(a)anthracene	0.36	mg/kg	U
54-09216	0554-95-2024	0.417–1.25	ALLH	Chloro-3-methylphenol[4-]	0.71	mg/kg	U
54-09216	0554-95-2024	0.417–1.25	ALLH	Dinitrotoluene[2,6-]	0.36	mg/kg	U
54-09216	0554-95-2024	0.417–1.25	ALLH	Aniline	0.36	mg/kg	U
54-09216	0554-95-2024	0.417–1.25	ALLH	Nitrosodimethylamine[N-]	0.36	mg/kg	U
54-09216	0554-95-2024	0.417–1.25	ALLH	Nitroso-di-n-propylamine[N-]	0.36	mg/kg	U
54-09216	0554-95-2024	0.417–1.25	ALLH	Benzoic acid	1.8	mg/kg	U
54-09216	0554-95-2024	0.417–1.25	ALLH	Hexachloroethane	0.36	mg/kg	U

Table D-2.0-2 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Units	Report Qualifier
54-09216	0554-95-2024	0.417–1.25	ALLH	Chlorophenyl-phenyl[4-] ether	0.36	mg/kg	U
54-09216	0554-95-2024	0.417–1.25	ALLH	Hexachlorocyclopentadiene	0.36	mg/kg	U
54-09216	0554-95-2024	0.417–1.25	ALLH	Isophorone	0.36	mg/kg	U
54-09216	0554-95-2024	0.417–1.25	ALLH	Acenaphthene	0.36	mg/kg	U
54-09216	0554-95-2024	0.417–1.25	ALLH	Diethylphthalate	0.36	mg/kg	U
54-09216	0554-95-2024	0.417–1.25	ALLH	Di-n-butylphthalate	0.36	mg/kg	U
54-09216	0554-95-2024	0.417–1.25	ALLH	Phenanthrene	0.36	mg/kg	U
54-09216	0554-95-2024	0.417–1.25	ALLH	Butylbenzylphthalate	0.36	mg/kg	U
54-09216	0554-95-2024	0.417–1.25	ALLH	Nitrosodiphenylamine[N-]	0.36	mg/kg	U
54-09216	0554-95-2024	0.417–1.25	ALLH	Fluorene	0.36	mg/kg	U
54-09216	0554-95-2024	0.417–1.25	ALLH	Hexachlorobutadiene	0.36	mg/kg	U
54-09216	0554-95-2024	0.417–1.25	ALLH	Pentachlorophenol	1.8	mg/kg	U
54-09216	0554-95-2024	0.417–1.25	ALLH	Trichlorophenol[2,4,6-]	0.36	mg/kg	U
54-09216	0554-95-2024	0.417–1.25	ALLH	Nitroaniline[2-]	1.8	mg/kg	U
54-09216	0554-95-2024	0.417–1.25	ALLH	Nitrophenol[2-]	0.36	mg/kg	U
54-09216	0554-95-2024	0.417–1.25	ALLH	Naphthalene	0.36	mg/kg	U
54-09216	0554-95-2024	0.417–1.25	ALLH	Methylnaphthalene[2-]	0.36	mg/kg	U
54-09216	0554-95-2024	0.417–1.25	ALLH	Chloronaphthalene[2-]	0.36	mg/kg	U
54-09216	0554-95-2024	0.417–1.25	ALLH	Dichlorobenzidine[3,3'-]	0.71	mg/kg	U
54-09216	0554-95-2024	0.417–1.25	ALLH	Methylphenol[2-]	0.36	mg/kg	U
54-09216	0554-95-2024	0.417–1.25	ALLH	Dichlorobenzene[1,2-]	0.36	mg/kg	U
54-09216	0554-95-2024	0.417–1.25	ALLH	Chlorophenol[2-]	0.36	mg/kg	U
54-09216	0554-95-2024	0.417–1.25	ALLH	Trichlorophenol[2,4,5-]	1.8	mg/kg	U
54-09216	0554-95-2024	0.417–1.25	ALLH	Nitrobenzene	0.36	mg/kg	U
54-09216	0554-95-2024	0.417–1.25	ALLH	Nitroaniline[3-]	1.8	mg/kg	U
54-09216	0554-95-2024	0.417–1.25	ALLH	Mercury	0.05	mg/kg	U
54-09216	0554-95-2024	0.417–1.25	ALLH	Cyanide, total	0.5	mg/kg	U
54-09216	0554-95-2024	0.417–1.25	ALLH	Silver	0.92	mg/kg	U
54-09216	0554-95-2024	0.417–1.25	ALLH	Aluminum	7260	mg/kg	None
54-09216	0554-95-2024	0.417–1.25	ALLH	Arsenic	0.38	mg/kg	U
54-09216	0554-95-2024	0.417–1.25	ALLH	Barium	82.8	mg/kg	None
54-09216	0554-95-2024	0.417–1.25	ALLH	Beryllium	1.1	mg/kg	U
54-09216	0554-95-2024	0.417–1.25	ALLH	Calcium	1360	mg/kg	None
54-09216	0554-95-2024	0.417–1.25	ALLH	Cadmium	0.71	mg/kg	U
54-09216	0554-95-2024	0.417–1.25	ALLH	Cobalt	3.5	mg/kg	U
54-09216	0554-95-2024	0.417–1.25	ALLH	Chromium, total	8	mg/kg	None
54-09216	0554-95-2024	0.417–1.25	ALLH	Copper	9.1	mg/kg	None
54-09216	0554-95-2024	0.417–1.25	ALLH	Iron	9420	mg/kg	None
54-09216	0554-95-2024	0.417–1.25	ALLH	Potassium	1500	mg/kg	U
54-09216	0554-95-2024	0.417–1.25	ALLH	Magnesium	1610	mg/kg	None
54-09216	0554-95-2024	0.417–1.25	ALLH	Manganese	64.7	mg/kg	None
54-09216	0554-95-2024	0.417–1.25	ALLH	Sodium	99.5	mg/kg	U

Table D-2.0-2 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Units	Report Qualifier
54-09216	0554-95-2024	0.417-1.25	ALLH	Nickel	3.3	mg/kg	J
54-09216	0554-95-2024	0.417-1.25	ALLH	Antimony	9	mg/kg	U
54-09216	0554-95-2024	0.417-1.25	ALLH	Selenium	0.34	mg/kg	UJ
54-09216	0554-95-2024	0.417-1.25	ALLH	Thallium	0.19	mg/kg	UJ
54-09216	0554-95-2024	0.417-1.25	ALLH	Vanadium	20.7	mg/kg	None
54-09216	0554-95-2024	0.417-1.25	ALLH	Zinc	42.2	mg/kg	None
54-09216	0554-95-2024	0.417-1.25	ALLH	Lead	14	mg/kg	J-
54-09216	0554-95-2024	0.417-1.25	ALLH	Gross alpha radiation	5.13	pCi/g	None
54-09216	0554-95-2024	0.417-1.25	ALLH	Gross beta radiation	2.99	pCi/g	None
54-09216	0554-95-2024	0.417-1.25	ALLH	Gross gamma radiation	2.52	pCi/g	U
54-09215	0554-95-2023	2.167-3	ALLH	Heptachlor epoxide	0.0018	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Endosulfan sulfate	0.0035	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Aroclor-1260	0.035	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Aroclor-1254	0.035	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Aroclor-1221	0.071	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Aroclor-1232	0.035	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Aroclor-1248	0.035	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Aroclor-1016	0.035	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Aldrin	0.0018	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	BHC[alpha-]	0.0018	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	BHC[beta-]	0.0018	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	BHC[delta-]	0.0018	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Endosulfan II	0.0035	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	DDT[4,4'-]	0.0035	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Chlordane[alpha-]	0.0018	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Chlordane[gamma-]	0.0018	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Aroclor-1242	0.035	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Endrin ketone	0.0035	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	BHC[gamma-]	0.0018	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Dieldrin	0.0035	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Endrin	0.0035	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Methoxychlor[4,4'-]	0.018	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	DDD[4,4'-]	0.0035	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	DDE[4,4'-]	0.0035	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Endrin aldehyde	0.0035	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Heptachlor	0.0018	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Toxaphene (technical grade)	0.18	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Endosulfan I	0.0018	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Ethylbenzene	0.006	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Styrene	0.006	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Dichloropropene[cis-1,3-]	0.006	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Dichloropropene[trans-1,3-]	0.006	mg/kg	U

Table D-2.0-2 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Units	Report Qualifier
54-09215	0554-95-2023	2.167-3	ALLH	Propylbenzene[1-]	0.006	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Butylbenzene[n-]	0.006	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Chlorotoluene[4-]	0.006	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Dichlorobenzene[1,4-]	0.006	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Dibromoethane[1,2-]	0.006	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Dichloroethane[1,2-]	0.006	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Methyl-2-pentanone[4-]	0.022	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Trimethylbenzene[1,3,5-]	0.006	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Bromobenzene	0.006	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Toluene	0.006	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Chlorobenzene	0.006	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Chlorodibromomethane	0.006	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Tetrachloroethene	0.006	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Butylbenzene[sec-]	0.006	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Dichloropropane[1,3-]	0.006	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Dichloroethene[cis-1,2-]	0.006	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Dichloroethene[trans-1,2-]	0.006	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Dichlorobenzene[1,3-]	0.006	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Carbon tetrachloride	0.006	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Dichloropropene[1,1-]	0.006	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Hexanone[2-]	0.022	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Dichloropropane[2,2-]	0.006	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Tetrachloroethane[1,1,1,2-]	0.006	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Acetone	0.022	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Chloroform	0.006	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Benzene	0.006	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Trichloroethane[1,1,1-]	0.006	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Bromomethane	0.011	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Chloromethane	0.011	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Iodomethane	0.006	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Dibromomethane	0.006	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Bromochloromethane	0.006	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Chloroethane	0.011	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Vinyl chloride	0.011	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Methylene chloride	0.011	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Carbon disulfide	0.006	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Bromoform	0.006	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Bromodichloromethane	0.006	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Dichloroethane[1,1-]	0.006	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Dichloroethene[1,1-]	0.006	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Trichlorofluoromethane	0.006	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Dichlorodifluoromethane	0.011	mg/kg	U

Table D-2.0-2 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Units	Report Qualifier
54-09215	0554-95-2023	2.167-3	ALLH	Trichloro-1,2,2-trifluoroethane[1,1,2-]	0.006	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Dichloropropane[1,2-]	0.006	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Butanone[2-]	0.022	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Trichloroethane[1,1,2-]	0.006	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Trichloroethene	0.006	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Tetrachloroethane[1,1,2,2-]	0.006	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Xylene[1,2-]	0.006	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Chlorotoluene[2-]	0.006	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Dichlorobenzene[1,2-]	0.006	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Trimethylbenzene[1,2,4-]	0.006	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Dibromo-3-chloropropane[1,2-]	0.011	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Trichloropropane[1,2,3-]	0.006	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Butylbenzene[tert-]	0.006	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Isopropylbenzene	0.006	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Isopropyltoluene[4-]	0.006	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Xylene[1,3-]+Xylene[1,4-]	0.006	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Nitroaniline[4-]	0.71	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Nitrophenol[4-]	1.8	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Benzyl alcohol	0.71	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Bromophenyl-phenylether[4-]	0.36	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Azobenzene	0.36	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Dimethylphenol[2,4-]	0.36	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Methylphenol[4-]	0.36	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Dichlorobenzene[1,4-]	0.36	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Chloroaniline[4-]	0.71	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Oxybis(1-chloropropane)[2,2'-]	0.36	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Phenol	0.36	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Bis(2-chloroethyl)ether	0.36	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Bis(2-chloroethoxy)methane	0.36	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Bis(2-ethylhexyl)phthalate	0.36	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Di-n-octylphthalate	0.36	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Hexachlorobenzene	0.36	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Anthracene	0.36	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Trichlorobenzene[1,2,4-]	0.36	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Dichlorophenol[2,4-]	0.36	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Dinitrotoluene[2,4-]	0.36	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Pyrene	0.36	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Dimethyl phthalate	0.36	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Dibenzofuran	0.36	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Benzo(g,h,i)perylene	0.36	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Indeno(1,2,3-cd)pyrene	0.36	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Benzo(b)fluoranthene	0.36	mg/kg	U

Table D-2.0-2 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Units	Report Qualifier
54-09215	0554-95-2023	2.167-3	ALLH	Fluoranthene	0.36	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Benzo(k)fluoranthene	0.36	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Acenaphthylene	0.36	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Chrysene	0.36	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Benzo(a)pyrene	0.36	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Dinitrophenol[2,4-]	1.8	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Dibenz(a,h)anthracene	0.36	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Dinitro-2-methylphenol[4,6-]	1.8	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Dichlorobenzene[1,3-]	0.36	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Benzo(a)anthracene	0.36	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Chloro-3-methylphenol[4-]	0.71	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Dinitrotoluene[2,6-]	0.36	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Aniline	0.36	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Nitrosodimethylamine[N-]	0.36	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Nitroso-di-n-propylamine[N-]	0.36	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Benzoic acid	1.8	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Hexachloroethane	0.36	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Chlorophenyl-phenyl[4-] ether	0.36	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Hexachlorocyclopentadiene	0.36	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Isophorone	0.36	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Acenaphthene	0.36	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Diethylphthalate	0.36	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Di-n-butylphthalate	0.36	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Phenanthrene	0.36	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Butylbenzylphthalate	0.36	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Nitrosodiphenylamine[N-]	0.36	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Fluorene	0.36	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Hexachlorobutadiene	0.36	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Pentachlorophenol	1.8	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Trichlorophenol[2,4,6-]	0.36	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Nitroaniline[2-]	1.8	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Nitrophenol[2-]	0.36	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Naphthalene	0.36	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Methylnaphthalene[2-]	0.36	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Chloronaphthalene[2-]	0.36	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Dichlorobenzidine[3,3'-]	0.71	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Methylphenol[2-]	0.36	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Dichlorobenzene[1,2-]	0.36	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Chlorophenol[2-]	0.36	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Trichlorophenol[2,4,5-]	1.8	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Nitrobenzene	0.36	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Nitroaniline[3-]	1.8	mg/kg	U

Table D-2.0-2 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Units	Report Qualifier
54-09215	0554-95-2023	2.167-3	ALLH	Mercury	0.05	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Cyanide, total	0.5	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Silver	0.92	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Aluminum	8480	mg/kg	None
54-09215	0554-95-2023	2.167-3	ALLH	Arsenic	1	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Barium	173	mg/kg	None
54-09215	0554-95-2023	2.167-3	ALLH	Beryllium	1.1	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Calcium	3530	mg/kg	None
54-09215	0554-95-2023	2.167-3	ALLH	Cadmium	0.71	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Cobalt	6.5	mg/kg	J
54-09215	0554-95-2023	2.167-3	ALLH	Chromium, total	7.3	mg/kg	None
54-09215	0554-95-2023	2.167-3	ALLH	Copper	7.6	mg/kg	None
54-09215	0554-95-2023	2.167-3	ALLH	Iron	11000	mg/kg	None
54-09215	0554-95-2023	2.167-3	ALLH	Potassium	1340	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Magnesium	1840	mg/kg	None
54-09215	0554-95-2023	2.167-3	ALLH	Manganese	333	mg/kg	None
54-09215	0554-95-2023	2.167-3	ALLH	Sodium	170	mg/kg	J
54-09215	0554-95-2023	2.167-3	ALLH	Nickel	6.9	mg/kg	J
54-09215	0554-95-2023	2.167-3	ALLH	Antimony	9	mg/kg	U
54-09215	0554-95-2023	2.167-3	ALLH	Selenium	0.34	mg/kg	UJ
54-09215	0554-95-2023	2.167-3	ALLH	Thallium	0.19	mg/kg	UJ
54-09215	0554-95-2023	2.167-3	ALLH	Vanadium	20.2	mg/kg	None
54-09215	0554-95-2023	2.167-3	ALLH	Zinc	29.4	mg/kg	None
54-09215	0554-95-2023	2.167-3	ALLH	Lead	8.9	mg/kg	None
54-09215	0554-95-2023	2.167-3	ALLH	Gross alpha radiation	5.01	pCi/g	None
54-09215	0554-95-2023	2.167-3	ALLH	Gross beta radiation	3.71	pCi/g	None
54-09215	0554-95-2023	2.167-3	ALLH	Gross gamma radiation	2.92	pCi/g	None

Table D-2.0-3
Analytical Results for PRS 51-001 from the 2001 VCA

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Units	Report Qualifier
51-10000	MD51-01-0001	49–50	Qbt 3	Nitroaniline[4-]	1.7	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Nitrophenol[4-]	1.7	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Benzyl alcohol	0.35	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Bromophenyl-phenylether[4-]	0.35	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Azobenzene	0.35	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Dimethylphenol[2,4-]	0.35	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Methylphenol[4-]	0.35	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Dichlorobenzene[1,4-]	0.35	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Chloroaniline[4-]	0.35	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Oxybis(1-chloropropane)[2,2'-]	0.35	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Phenol	0.35	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Bis(2-chloroethyl)ether	0.35	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Bis(2-chloroethoxy)methane	0.35	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Bis(2-ethylhexyl)phthalate	0.35	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Di-n-octylphthalate	0.35	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Hexachlorobenzene	0.35	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Anthracene	0.35	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Trichlorobenzene[1,2,4-]	0.35	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Dichlorophenol[2,4-]	0.35	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Dinitrotoluene[2,4-]	0.35	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Pyrene	0.35	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Dimethyl phthalate	0.35	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Dibenzofuran	0.35	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Benzo(g,h,i)perylene	0.35	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Indeno(1,2,3-cd)pyrene	0.35	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Benzo(b)fluoranthene	0.35	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Fluoranthene	0.35	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Benzo(k)fluoranthene	0.35	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Acenaphthylene	0.35	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Chrysene	0.35	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Benzo(a)pyrene	0.35	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Dinitrophenol[2,4-]	1.7	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Dibenz(a,h)anthracene	0.35	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Dinitro-2-methylphenol[4,6-]	1.7	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Dichlorobenzene[1,3-]	0.35	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Benzo(a)anthracene	0.35	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Chloro-3-methylphenol[4-]	0.35	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Dinitrotoluene[2,6-]	0.35	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Aniline	0.35	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Nitrosodimethylamine[N-]	0.35	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Nitroso-di-n-propylamine[N-]	0.35	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Benzoic acid	1.7	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Hexachloroethane	0.35	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Chlorophenyl-phenyl[4-] ether	0.35	mg/kg	U

Table D-2.0-3 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Units	Report Qualifier
51-10000	MD51-01-0001	49–50	Qbt 3	Hexachlorocyclopentadiene	1.7	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Isophorone	0.35	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Acenaphthene	0.35	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Diethylphthalate	0.35	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Di-n-butylphthalate	0.35	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Phenanthrene	0.35	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Butylbenzylphthalate	0.35	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Nitrosodiphenylamine[N-]	0.35	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Fluorene	0.35	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Hexachlorobutadiene	0.35	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Pentachlorophenol	1.7	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Trichlorophenol[2,4,6-]	0.35	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Nitroaniline[2-]	1.7	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Nitrophenol[2-]	0.35	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Naphthalene	0.36	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Methylnaphthalene[2-]	0.35	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Chloronaphthalene[2-]	0.35	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Dichlorobenzidine[3,3'-]	1.7	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Methylphenol[2-]	0.35	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Dichlorobenzene[1,2-]	0.35	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Chlorophenol[2-]	0.35	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Trichlorophenol[2,4,5-]	0.35	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Nitrobenzene	0.35	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Nitroaniline[3-]	1.7	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Ethylbenzene	0.006	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Styrene	0.006	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Dichloropropene[cis-1,3-]	0.006	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Dichloropropene[trans-1,3-]	0.006	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Propylbenzene[1-]	0.006	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Butylbenzene[n-]	0.006	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Chlorotoluene[4-]	0.006	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Dichlorobenzene[1,4-]	0.006	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Dibromoethane[1,2-]	0.006	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Dichloroethane[1,2-]	0.006	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Methyl-2-pentanone[4-]	0.024	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Trimethylbenzene[1,3,5-]	0.006	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Bromobenzene	0.006	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Toluene	0.006	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Chlorobenzene	0.006	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Chlorodibromomethane	0.006	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Tetrachloroethene	0.006	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Xylene (total)	0.006	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Butylbenzene[sec-]	0.006	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Dichloropropane[1,3-]	0.006	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Trichlorotrifluoroethane	0.006	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Dichloroethene[cis/trans-1,2-]	0.006	mg/kg	U

Table D-2.0-3 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Units	Report Qualifier
51-10000	MD51-01-0001	49–50	Qbt 3	Dichlorobenzene[1,3-]	0.006	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Carbon tetrachloride	0.006	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Dichloropropene[1,1-]	0.006	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Hexanone[2-]	0.024	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Dichloropropane[2,2-]	0.006	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Tetrachloroethane[1,1,1,2-]	0.006	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Acetone	0.024	mg/kg	UJ
51-10000	MD51-01-0001	49–50	Qbt 3	Chloroform	0.006	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Benzene	0.006	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Trichloroethane[1,1,1-]	0.006	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Bromomethane	0.012	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Chloromethane	0.012	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Iodomethane	0.006	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Dibromomethane	0.006	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Bromochloromethane	0.006	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Chloroethane	0.012	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Vinyl chloride	0.012	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Methylene chloride	0.006	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Carbon disulfide	0.006	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Bromoform	0.006	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Bromodichloromethane	0.006	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Dichloroethane[1,1-]	0.006	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Dichloroethene[1,1-]	0.006	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Trichlorofluoromethane	0.012	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Dichlorodifluoromethane	0.012	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Dichloropropane[1,2-]	0.006	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Butanone[2-]	0.0056	mg/kg	J
51-10000	MD51-01-0001	49–50	Qbt 3	Trichloroethane[1,1,2-]	0.006	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Trichloroethene	0.006	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Tetrachloroethane[1,1,2,2-]	0.006	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Chlorotoluene[2-]	0.006	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Dichlorobenzene[1,2-]	0.006	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Trimethylbenzene[1,2,4-]	0.006	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Dibromo-3-chloropropane[1,2-]	0.012	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Trichloropropane[1,2,3-]	0.006	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Butylbenzene[tert-]	0.006	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Isopropylbenzene	0.006	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	Isopropyltoluene[4-]	0.006	mg/kg	U
51-10000	MD51-01-0001	49–50	Qbt 3	pH	6.52	SU[a]	None
51-10000	MD51-01-0001	49–50	Qbt 3	Americium-241	0.00916	pCi/g	U
51-10000	MD51-01-0001	49–50	Qbt 3	Cobalt-60	-0.0129	pCi/g	U
51-10000	MD51-01-0001	49–50	Qbt 3	Cesium-134	-0.0173	pCi/g	U
51-10000	MD51-01-0001	49–50	Qbt 3	Cesium-137	-0.00203	pCi/g	U
51-10000	MD51-01-0001	49–50	Qbt 3	Europium-152	-0.0357	pCi/g	U
51-10000	MD51-01-0001	49–50	Qbt 3	Ruthenium-106	-0.0883	pCi/g	U

[a] SU= standard unit.

Table D-2.0-3 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Units	Report Qualifier
51-10000	MD51-01-0001	49–50	Qbt 3	Tritium	-61.4	pCi/L	U
51-10000	MD51-01-0001	49–50	Qbt 3	Uranium-234	1	pCi/g	None
51-10000	MD51-01-0001	49–50	Qbt 3	Uranium-235	0.0241	pCi/g	J
51-10000	MD51-01-0001	49–50	Qbt 3	Uranium-238	0.901	pCi/g	None
51-10000	MD51-01-0001	49–50	Qbt 3	Strontium-90	0.131	pCi/g	U
51-10000	MD51-01-0001	49–50	Qbt 3	Plutonium-238	0.0138	pCi/g	U
51-10000	MD51-01-0001	49–50	Qbt 3	Plutonium-239	-0.00138	pCi/g	U
51-10000	MD51-01-0002	59–60	Qbt 3	Nitroaniline[4-]	1.7	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Nitrophenol[4-]	1.7	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Benzyl alcohol	0.36	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Bromophenyl-phenylether[4-]	0.36	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Azobenzene	0.36	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Dimethylphenol[2,4-]	0.36	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Methylphenol[4-]	0.36	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Dichlorobenzene[1,4-]	0.36	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Chloroaniline[4-]	0.36	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Oxybis(1-chloropropane)[2,2'-]	0.36	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Phenol	0.36	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Bis(2-chloroethyl)ether	0.36	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Bis(2-chloroethoxy)methane	0.36	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Bis(2-ethylhexyl)phthalate	0.36	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Di-n-octylphthalate	0.36	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Hexachlorobenzene	0.36	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Anthracene	0.36	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Trichlorobenzene[1,2,4-]	0.36	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Dichlorophenol[2,4-]	0.36	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Dinitrotoluene[2,4-]	0.36	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Pyrene	0.36	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Dimethyl phthalate	0.36	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Dibenzofuran	0.36	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Benzo(g,h,i)perylene	0.36	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Indeno(1,2,3-cd)pyrene	0.36	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Benzo(b)fluoranthene	0.36	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Fluoranthene	0.36	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Benzo(k)fluoranthene	0.36	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Acenaphthylene	0.36	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Chrysene	0.36	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Benzo(a)pyrene	0.36	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Dinitrophenol[2,4-]	1.7	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Dibenz(a,h)anthracene	0.36	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Dinitro-2-methylphenol[4,6-]	1.7	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Dichlorobenzene[1,3-]	0.36	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Benzo(a)anthracene	0.36	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Chloro-3-methylphenol[4-]	0.36	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Dinitrotoluene[2,6-]	0.36	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Aniline	0.36	mg/kg	U

Table D-2.0-3 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Units	Report Qualifier
51-10000	MD51-01-0002	59–60	Qbt 3	Nitrosodimethylamine[N-]	0.36	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Nitroso-di-n-propylamine[N-]	0.36	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Benzoic acid	1.7	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Hexachloroethane	0.36	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Chlorophenyl-phenyl[4-] ether	0.36	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Hexachlorocyclopentadiene	1.7	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Isophorone	0.36	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Acenaphthene	0.36	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Diethylphthalate	0.36	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Di-n-butylphthalate	0.36	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Phenanthrene	0.36	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Butylbenzylphthalate	0.36	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Nitrosodiphenylamine[N-]	0.36	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Fluorene	0.36	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Hexachlorobutadiene	0.36	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Pentachlorophenol	1.7	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Trichlorophenol[2,4,6-]	0.36	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Nitroaniline[2-]	1.7	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Nitrophenol[2-]	0.36	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Naphthalene	0.36	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Methylnaphthalene[2-]	0.36	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Chloronaphthalene[2-]	0.36	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Dichlorobenzidine[3,3'-]	1.7	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Methylphenol[2-]	0.36	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Dichlorobenzene[1,2-]	0.36	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Chlorophenol[2-]	0.36	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Trichlorophenol[2,4,5-]	0.36	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Nitrobenzene	0.36	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Nitroaniline[3-]	1.7	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Ethylbenzene	0.0072	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Styrene	0.0072	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Dichloropropene[cis-1,3-]	0.0072	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Dichloropropene[trans-1,3-]	0.0072	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Propylbenzene[1-]	0.0072	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Butylbenzene[n-]	0.0072	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Chlorotoluene[4-]	0.0072	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Dichlorobenzene[1,4-]	0.0072	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Dibromoethane[1,2-]	0.0072	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Dichloroethane[1,2-]	0.0072	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Methyl-2-pentanone[4-]	0.029	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Trimethylbenzene[1,3,5-]	0.0072	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Bromobenzene	0.0072	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Toluene	0.0072	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Chlorobenzene	0.0072	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Chlorodibromomethane	0.0072	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Tetrachloroethene	0.0072	mg/kg	U

Table D-2.0-3 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Units	Report Qualifier
51-10000	MD51-01-0002	59–60	Qbt 3	Xylene (total)	0.0072	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Butylbenzene[sec-]	0.0072	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Dichloropropane[1,3-]	0.0072	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Trichlorotrifluoroethane	0.0072	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Dichloroethene[cis/trans-1,2-]	0.0072	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Dichlorobenzene[1,3-]	0.0072	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Carbon tetrachloride	0.0072	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Dichloropropene[1,1-]	0.0072	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Hexanone[2-]	0.029	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Dichloropropane[2,2-]	0.0072	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Tetrachloroethane[1,1,1,2-]	0.0072	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Acetone	0.024	mg/kg	J
51-10000	MD51-01-0002	59–60	Qbt 3	Chloroform	0.0072	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Benzene	0.0072	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Trichloroethane[1,1,1-]	0.0072	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Bromomethane	0.014	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Chloromethane	0.014	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Iodomethane	0.0072	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Dibromomethane	0.0072	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Bromochloromethane	0.0072	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Chloroethane	0.014	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Vinyl chloride	0.014	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Methylene chloride	0.0072	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Carbon disulfide	0.0072	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Bromoform	0.0072	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Bromodichloromethane	0.0072	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Dichloroethane[1,1-]	0.0072	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Dichloroethene[1,1-]	0.0072	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Trichlorofluoromethane	0.014	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Dichlorodifluoromethane	0.014	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Dichloropropane[1,2-]	0.0072	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Butanone[2-]	0.0086	mg/kg	J
51-10000	MD51-01-0002	59–60	Qbt 3	Trichloroethane[1,1,2-]	0.0072	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Trichloroethene	0.0072	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Tetrachloroethane[1,1,2,2-]	0.0072	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Chlorotoluene[2-]	0.0072	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Dichlorobenzene[1,2-]	0.0072	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Trimethylbenzene[1,2,4-]	0.0072	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Dibromo-3-chloropropane[1,2-]	0.014	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Trichloropropane[1,2,3-]	0.0072	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Butylbenzene[tert-]	0.0072	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Isopropylbenzene	0.0072	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	Isopropyltoluene[4-]	0.0072	mg/kg	U
51-10000	MD51-01-0002	59–60	Qbt 3	pH	6.13	SU	None
51-10000	MD51-01-0002	59–60	Qbt 3	Americium-241	-0.0712	pCi/g	U
51-10000	MD51-01-0002	59–60	Qbt 3	Cobalt-60	0.00137	pCi/g	U

Table D-2.0-3 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Units	Report Qualifier
51-10000	MD51-01-0002	59–60	Qbt 3	Cesium-134	-0.0303	pCi/g	U
51-10000	MD51-01-0002	59–60	Qbt 3	Cesium-137	-0.0266	pCi/g	U
51-10000	MD51-01-0002	59–60	Qbt 3	Europium-152	-0.004	pCi/g	U
51-10000	MD51-01-0002	59–60	Qbt 3	Ruthenium-106	0.0402	pCi/g	U
51-10000	MD51-01-0002	59–60	Qbt 3	Tritium	63.3	pCi/L	U
51-10000	MD51-01-0002	59–60	Qbt 3	Uranium-234	0.953	pCi/g	None
51-10000	MD51-01-0002	59–60	Qbt 3	Uranium-235	0.0293	pCi/g	J
51-10000	MD51-01-0002	59–60	Qbt 3	Uranium-238	0.935	pCi/g	None
51-10000	MD51-01-0002	59–60	Qbt 3	Strontium-90	-0.0093	pCi/g	U
51-10000	MD51-01-0002	59–60	Qbt 3	Plutonium-238	0.00259	pCi/g	U
51-10000	MD51-01-0002	59–60	Qbt 3	Plutonium-239	0.00259	pCi/g	U
51-10000	MD51-01-0017	59–60	Qbt 3	Nitroaniline[4-]	1.7	mg/kg	U
51-10000	MD51-01-0017	59–60	Qbt 3	Nitrophenol[4-]	1.7	mg/kg	U
51-10000	MD51-01-0017	59–60	Qbt 3	Benzyl alcohol	0.35	mg/kg	UJ
51-10000	MD51-01-0017	59–60	Qbt 3	Bromophenyl-phenylether[4-]	0.35	mg/kg	U
51-10000	MD51-01-0017	59–60	Qbt 3	Azobenzene	0.35	mg/kg	U
51-10000	MD51-01-0017	59–60	Qbt 3	Dimethylphenol[2,4-]	0.35	mg/kg	UJ
51-10000	MD51-01-0017	59–60	Qbt 3	Methylphenol[4-]	0.35	mg/kg	UJ
51-10000	MD51-01-0017	59–60	Qbt 3	Dichlorobenzene[1,4-]	0.35	mg/kg	UJ
51-10000	MD51-01-0017	59–60	Qbt 3	Chloroaniline[4-]	0.35	mg/kg	UJ
51-10000	MD51-01-0017	59–60	Qbt 3	Oxybis(1-chloropropane)[2,2'-]	0.35	mg/kg	UJ
51-10000	MD51-01-0017	59–60	Qbt 3	Phenol	0.35	mg/kg	UJ
51-10000	MD51-01-0017	59–60	Qbt 3	Bis(2-chloroethyl)ether	0.35	mg/kg	UJ
51-10000	MD51-01-0017	59–60	Qbt 3	Bis(2-chloroethoxy)methane	0.35	mg/kg	UJ
51-10000	MD51-01-0017	59–60	Qbt 3	Bis(2-ethylhexyl)phthalate	0.35	mg/kg	U
51-10000	MD51-01-0017	59–60	Qbt 3	Di-n-octylphthalate	0.35	mg/kg	U
51-10000	MD51-01-0017	59–60	Qbt 3	Hexachlorobenzene	0.35	mg/kg	U
51-10000	MD51-01-0017	59–60	Qbt 3	Anthracene	0.35	mg/kg	U
51-10000	MD51-01-0017	59–60	Qbt 3	Trichlorobenzene[1,2,4-]	0.35	mg/kg	UJ
51-10000	MD51-01-0017	59–60	Qbt 3	Dichlorophenol[2,4-]	0.35	mg/kg	UJ
51-10000	MD51-01-0017	59–60	Qbt 3	Dinitrotoluene[2,4-]	0.35	mg/kg	U
51-10000	MD51-01-0017	59–60	Qbt 3	Pyrene	0.35	mg/kg	U
51-10000	MD51-01-0017	59–60	Qbt 3	Dimethyl phthalate	0.35	mg/kg	U
51-10000	MD51-01-0017	59–60	Qbt 3	Dibenzofuran	0.35	mg/kg	U
51-10000	MD51-01-0017	59–60	Qbt 3	Benzo(g,h,i)perylene	0.35	mg/kg	U
51-10000	MD51-01-0017	59–60	Qbt 3	Indeno(1,2,3-cd)pyrene	0.35	mg/kg	U
51-10000	MD51-01-0017	59–60	Qbt 3	Benzo(b)fluoranthene	0.35	mg/kg	U
51-10000	MD51-01-0017	59–60	Qbt 3	Fluoranthene	0.35	mg/kg	U
51-10000	MD51-01-0017	59–60	Qbt 3	Benzo(k)fluoranthene	0.35	mg/kg	U
51-10000	MD51-01-0017	59–60	Qbt 3	Acenaphthylene	0.35	mg/kg	U
51-10000	MD51-01-0017	59–60	Qbt 3	Chrysene	0.35	mg/kg	U
51-10000	MD51-01-0017	59–60	Qbt 3	Benzo(a)pyrene	0.35	mg/kg	U
51-10000	MD51-01-0017	59–60	Qbt 3	Dinitrophenol[2,4-]	1.7	mg/kg	U
51-10000	MD51-01-0017	59–60	Qbt 3	Dibenz(a,h)anthracene	0.35	mg/kg	U
51-10000	MD51-01-0017	59–60	Qbt 3	Dinitro-2-methylphenol[4,6-]	1.7	mg/kg	U
51-10000	MD51-01-0017	59–60	Qbt 3	Dichlorobenzene[1,3-]	0.35	mg/kg	UJ

Table D-2.0-3 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Units	Report Qualifier
51-10000	MD51-01-0017	59–60	Qbt 3	Benzo(a)anthracene	0.35	mg/kg	U
51-10000	MD51-01-0017	59–60	Qbt 3	Chloro-3-methylphenol[4-]	0.35	mg/kg	UJ
51-10000	MD51-01-0017	59–60	Qbt 3	Dinitrotoluene[2,6-]	0.35	mg/kg	U
51-10000	MD51-01-0017	59–60	Qbt 3	Aniline	0.35	mg/kg	UJ
51-10000	MD51-01-0017	59–60	Qbt 3	Nitrosodimethylamine[N-]	0.35	mg/kg	UJ
51-10000	MD51-01-0017	59–60	Qbt 3	Nitroso-di-n-propylamine[N-]	0.35	mg/kg	UJ
51-10000	MD51-01-0017	59–60	Qbt 3	Benzoic acid	1.7	mg/kg	UJ
51-10000	MD51-01-0017	59–60	Qbt 3	Hexachloroethane	0.35	mg/kg	UJ
51-10000	MD51-01-0017	59–60	Qbt 3	Chlorophenyl-phenyl[4-] ether	0.35	mg/kg	U
51-10000	MD51-01-0017	59–60	Qbt 3	Hexachlorocyclopentadiene	1.7	mg/kg	U
51-10000	MD51-01-0017	59–60	Qbt 3	Isophorone	0.35	mg/kg	UJ
51-10000	MD51-01-0017	59–60	Qbt 3	Acenaphthene	0.35	mg/kg	U
51-10000	MD51-01-0017	59–60	Qbt 3	Diethylphthalate	0.35	mg/kg	U
51-10000	MD51-01-0017	59–60	Qbt 3	Di-n-butylphthalate	0.35	mg/kg	U
51-10000	MD51-01-0017	59–60	Qbt 3	Phenanthrene	0.35	mg/kg	U
51-10000	MD51-01-0017	59–60	Qbt 3	Butylbenzylphthalate	0.35	mg/kg	U
51-10000	MD51-01-0017	59–60	Qbt 3	Nitrosodiphenylamine[N-]	0.35	mg/kg	U
51-10000	MD51-01-0017	59–60	Qbt 3	Fluorene	0.35	mg/kg	U
51-10000	MD51-01-0017	59–60	Qbt 3	Hexachlorobutadiene	0.35	mg/kg	UJ
51-10000	MD51-01-0017	59–60	Qbt 3	Pentachlorophenol	1.7	mg/kg	U
51-10000	MD51-01-0017	59–60	Qbt 3	Trichlorophenol[2,4,6-]	0.35	mg/kg	U
51-10000	MD51-01-0017	59–60	Qbt 3	Nitroaniline[2-]	1.7	mg/kg	U
51-10000	MD51-01-0017	59–60	Qbt 3	Nitrophenol[2-]	0.35	mg/kg	UJ
51-10000	MD51-01-0017	59–60	Qbt 3	Naphthalene	0.35	mg/kg	UJ
51-10000	MD51-01-0017	59–60	Qbt 3	Methylnaphthalene[2-]	0.35	mg/kg	UJ
51-10000	MD51-01-0017	59–60	Qbt 3	Chloronaphthalene[2-]	0.35	mg/kg	U
51-10000	MD51-01-0017	59–60	Qbt 3	Dichlorobenzidine[3,3'-]	1.7	mg/kg	U
51-10000	MD51-01-0017	59–60	Qbt 3	Methylphenol[2-]	0.35	mg/kg	UJ
51-10000	MD51-01-0017	59–60	Qbt 3	Dichlorobenzene[1,2-]	0.35	mg/kg	UJ
51-10000	MD51-01-0017	59–60	Qbt 3	Chlorophenol[2-]	0.35	mg/kg	UJ
51-10000	MD51-01-0017	59–60	Qbt 3	Trichlorophenol[2,4,5-]	0.35	mg/kg	U
51-10000	MD51-01-0017	59–60	Qbt 3	Nitrobenzene	0.35	mg/kg	UJ
51-10000	MD51-01-0017	59–60	Qbt 3	Nitroaniline[3-]	1.7	mg/kg	U
51-10000	MD51-01-0017	59–60	Qbt 3	Ethylbenzene	0.0073	mg/kg	UJ
51-10000	MD51-01-0017	59–60	Qbt 3	Styrene	0.0073	mg/kg	UJ
51-10000	MD51-01-0017	59–60	Qbt 3	Dichloropropene[cis-1,3-]	0.0073	mg/kg	UJ
51-10000	MD51-01-0017	59–60	Qbt 3	Dichloropropene[trans-1,3-]	0.0073	mg/kg	UJ
51-10000	MD51-01-0017	59–60	Qbt 3	Propylbenzene[1-]	0.0073	mg/kg	UJ
51-10000	MD51-01-0017	59–60	Qbt 3	Butylbenzene[n-]	0.0073	mg/kg	UJ
51-10000	MD51-01-0017	59–60	Qbt 3	Chlorotoluene[4-]	0.0073	mg/kg	UJ
51-10000	MD51-01-0017	59–60	Qbt 3	Dichlorobenzene[1,4-]	0.0073	mg/kg	UJ
51-10000	MD51-01-0017	59–60	Qbt 3	Dibromoethane[1,2-]	0.0073	mg/kg	UJ
51-10000	MD51-01-0017	59–60	Qbt 3	Dichloroethane[1,2-]	0.0073	mg/kg	UJ
51-10000	MD51-01-0017	59–60	Qbt 3	Methyl-2-pentanone[4-]	0.029	mg/kg	UJ
51-10000	MD51-01-0017	59–60	Qbt 3	Trimethylbenzene[1,3,5-]	0.0073	mg/kg	UJ
51-10000	MD51-01-0017	59–60	Qbt 3	Bromobenzene	0.0073	mg/kg	UJ

Table D-2.0-3 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Units	Report Qualifier
51-10000	MD51-01-0017	59–60	Qbt 3	Toluene	0.0073	mg/kg	UJ
51-10000	MD51-01-0017	59–60	Qbt 3	Chlorobenzene	0.0073	mg/kg	UJ
51-10000	MD51-01-0017	59–60	Qbt 3	Chlorodibromomethane	0.0073	mg/kg	UJ
51-10000	MD51-01-0017	59–60	Qbt 3	Tetrachloroethene	0.0073	mg/kg	UJ
51-10000	MD51-01-0017	59–60	Qbt 3	Xylene (total)	0.0073	mg/kg	UJ
51-10000	MD51-01-0017	59–60	Qbt 3	Butylbenzene[sec-]	0.0073	mg/kg	UJ
51-10000	MD51-01-0017	59–60	Qbt 3	Dichloropropane[1,3-]	0.0073	mg/kg	UJ
51-10000	MD51-01-0017	59–60	Qbt 3	Trichlorotrifluoroethane	0.0073	mg/kg	UJ
51-10000	MD51-01-0017	59–60	Qbt 3	Dichloroethene[cis/trans-1,2-]	0.0073	mg/kg	UJ
51-10000	MD51-01-0017	59–60	Qbt 3	Dichlorobenzene[1,3-]	0.0073	mg/kg	UJ
51-10000	MD51-01-0017	59–60	Qbt 3	Carbon tetrachloride	0.0073	mg/kg	UJ
51-10000	MD51-01-0017	59–60	Qbt 3	Dichloropropene[1,1-]	0.0073	mg/kg	UJ
51-10000	MD51-01-0017	59–60	Qbt 3	Hexanone[2-]	0.029	mg/kg	UJ
51-10000	MD51-01-0017	59–60	Qbt 3	Dichloropropane[2,2-]	0.0073	mg/kg	UJ
51-10000	MD51-01-0017	59–60	Qbt 3	Tetrachloroethane[1,1,1,2-]	0.0073	mg/kg	UJ
51-10000	MD51-01-0017	59–60	Qbt 3	Acetone	0.023	mg/kg	J
51-10000	MD51-01-0017	59–60	Qbt 3	Chloroform	0.0073	mg/kg	UJ
51-10000	MD51-01-0017	59–60	Qbt 3	Benzene	0.0073	mg/kg	UJ
51-10000	MD51-01-0017	59–60	Qbt 3	Trichloroethane[1,1,1-]	0.0073	mg/kg	UJ
51-10000	MD51-01-0017	59–60	Qbt 3	Bromomethane	0.015	mg/kg	UJ
51-10000	MD51-01-0017	59–60	Qbt 3	Chloromethane	0.015	mg/kg	UJ
51-10000	MD51-01-0017	59–60	Qbt 3	Iodomethane	0.0073	mg/kg	UJ
51-10000	MD51-01-0017	59–60	Qbt 3	Dibromomethane	0.0073	mg/kg	UJ
51-10000	MD51-01-0017	59–60	Qbt 3	Bromochloromethane	0.0073	mg/kg	UJ
51-10000	MD51-01-0017	59–60	Qbt 3	Chloroethane	0.015	mg/kg	UJ
51-10000	MD51-01-0017	59–60	Qbt 3	Vinyl chloride	0.015	mg/kg	UJ
51-10000	MD51-01-0017	59–60	Qbt 3	Methylene chloride	0.0073	mg/kg	UJ
51-10000	MD51-01-0017	59–60	Qbt 3	Carbon disulfide	0.0073	mg/kg	UJ
51-10000	MD51-01-0017	59–60	Qbt 3	Bromoform	0.0073	mg/kg	UJ
51-10000	MD51-01-0017	59–60	Qbt 3	Bromodichloromethane	0.0073	mg/kg	UJ
51-10000	MD51-01-0017	59–60	Qbt 3	Dichloroethane[1,1-]	0.0073	mg/kg	UJ
51-10000	MD51-01-0017	59–60	Qbt 3	Dichloroethene[1,1-]	0.0073	mg/kg	UJ
51-10000	MD51-01-0017	59–60	Qbt 3	Trichlorofluoromethane	0.0017	mg/kg	J
51-10000	MD51-01-0017	59–60	Qbt 3	Dichlorodifluoromethane	0.015	mg/kg	UJ
51-10000	MD51-01-0017	59–60	Qbt 3	Dichloropropane[1,2-]	0.0073	mg/kg	UJ
51-10000	MD51-01-0017	59–60	Qbt 3	Butanone[2-]	0.0079	mg/kg	J
51-10000	MD51-01-0017	59–60	Qbt 3	Trichloroethane[1,1,2-]	0.0073	mg/kg	UJ
51-10000	MD51-01-0017	59–60	Qbt 3	Trichloroethene	0.0073	mg/kg	UJ
51-10000	MD51-01-0017	59–60	Qbt 3	Tetrachloroethane[1,1,2,2-]	0.0073	mg/kg	UJ
51-10000	MD51-01-0017	59–60	Qbt 3	Chlorotoluene[2-]	0.0073	mg/kg	UJ
51-10000	MD51-01-0017	59–60	Qbt 3	Dichlorobenzene[1,2-]	0.0073	mg/kg	UJ
51-10000	MD51-01-0017	59–60	Qbt 3	Trimethylbenzene[1,2,4-]	0.0073	mg/kg	UJ
51-10000	MD51-01-0017	59–60	Qbt 3	Dibromo-3-chloropropane[1,2-]	0.015	mg/kg	UJ
51-10000	MD51-01-0017	59–60	Qbt 3	Trichloropropane[1,2,3-]	0.0073	mg/kg	UJ
51-10000	MD51-01-0017	59–60	Qbt 3	Butylbenzene[tert-]	0.0073	mg/kg	UJ
51-10000	MD51-01-0017	59–60	Qbt 3	Isopropylbenzene	0.0073	mg/kg	UJ

Table D-2.0-3 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Units	Report Qualifier
51-10000	MD51-01-0017	59–60	Qbt 3	Isopropyltoluene[4-]	0.0073	mg/kg	UJ
51-10000	MD51-01-0017	59–60	Qbt 3	pH	6.09	SU	None
51-10000	MD51-01-0017	59–60	Qbt 3	Americium-241	0.0708	pCi/g	U
51-10000	MD51-01-0017	59–60	Qbt 3	Cobalt-60	0.00838	pCi/g	U
51-10000	MD51-01-0017	59–60	Qbt 3	Cesium-134	-0.0067	pCi/g	U
51-10000	MD51-01-0017	59–60	Qbt 3	Cesium-137	-0.00272	pCi/g	U
51-10000	MD51-01-0017	59–60	Qbt 3	Europium-152	0.00884	pCi/g	U
51-10000	MD51-01-0017	59–60	Qbt 3	Ruthenium-106	-0.0188	pCi/g	U
51-10000	MD51-01-0017	59–60	Qbt 3	Tritium	106	pCi/L	U
51-10000	MD51-01-0017	59–60	Qbt 3	Uranium-234	1	pCi/g	None
51-10000	MD51-01-0017	59–60	Qbt 3	Uranium-235	0.058	pCi/g	J
51-10000	MD51-01-0017	59–60	Qbt 3	Uranium-238	0.964	pCi/g	None
51-10000	MD51-01-0017	59–60	Qbt 3	Strontium-90	0.0629	pCi/g	U
51-10000	MD51-01-0017	59–60	Qbt 3	Plutonium-238	-0.00074	pCi/g	U
51-10000	MD51-01-0017	59–60	Qbt 3	Plutonium-239	-0.00148	pCi/g	U
51-10001	MD51-01-0003	49–50	Qbt 3	Nitroaniline[4-]	1.7	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Nitrophenol[4-]	1.7	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Benzyl alcohol	0.35	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Bromophenyl-phenylether[4-]	0.35	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Azobenzene	0.35	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Dimethylphenol[2,4-]	0.35	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Methylphenol[4-]	0.35	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Dichlorobenzene[1,4-]	0.35	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Chloroaniline[4-]	0.35	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Oxybis(1-chloropropane)[2,2'-]	0.35	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Phenol	0.35	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Bis(2-chloroethyl)ether	0.35	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Bis(2-chloroethoxy)methane	0.35	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Bis(2-ethylhexyl)phthalate	0.35	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Di-n-octylphthalate	0.35	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Hexachlorobenzene	0.35	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Anthracene	0.35	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Trichlorobenzene[1,2,4-]	0.35	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Dichlorophenol[2,4-]	0.35	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Dinitrotoluene[2,4-]	0.35	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Pyrene	0.35	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Dimethyl phthalate	0.35	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Dibenzofuran	0.35	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Benzo(g,h,i)perylene	0.35	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Indeno(1,2,3-cd)pyrene	0.35	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Benzo(b)fluoranthene	0.35	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Fluoranthene	0.35	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Benzo(k)fluoranthene	0.35	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Acenaphthylene	0.35	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Chrysene	0.35	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Benzo(a)pyrene	0.35	mg/kg	U

Table D-2.0-3 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Units	Report Qualifier
51-10001	MD51-01-0003	49–50	Qbt 3	Dinitrophenol[2,4-]	1.7	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Dibenz(a,h)anthracene	0.35	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Dinitro-2-methylphenol[4,6-]	1.7	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Dichlorobenzene[1,3-]	0.35	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Benzo(a)anthracene	0.35	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Chloro-3-methylphenol[4-]	0.35	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Dinitrotoluene[2,6-]	0.35	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Aniline	0.35	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Nitrosodimethylamine[N-]	0.35	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Nitroso-di-n-propylamine[N-]	0.35	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Benzoic acid	1.7	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Hexachloroethane	0.35	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Chlorophenyl-phenyl[4-] ether	0.35	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Hexachlorocyclopentadiene	1.7	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Isophorone	0.35	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Acenaphthene	0.35	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Diethylphthalate	0.35	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Di-n-butylphthalate	0.35	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Phenanthrene	0.35	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Butylbenzylphthalate	0.35	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Nitrosodiphenylamine[N-]	0.35	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Fluorene	0.35	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Hexachlorobutadiene	0.35	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Pentachlorophenol	1.7	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Trichlorophenol[2,4,6-]	0.35	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Nitroaniline[2-]	1.7	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Nitrophenol[2-]	0.35	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Naphthalene	0.35	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Methylnaphthalene[2-]	0.35	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Chloronaphthalene[2-]	0.35	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Dichlorobenzidine[3,3'-]	1.7	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Methylphenol[2-]	0.35	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Dichlorobenzene[1,2-]	0.35	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Chlorophenol[2-]	0.35	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Trichlorophenol[2,4,5-]	0.35	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Nitrobenzene	0.35	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Nitroaniline[3-]	1.7	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Ethylbenzene	0.0072	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Styrene	0.0072	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Dichloropropene[cis-1,3-]	0.0072	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Dichloropropene[trans-1,3-]	0.0072	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Propylbenzene[1-]	0.0072	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Butylbenzene[n-]	0.0072	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Chlorotoluene[4-]	0.0072	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Dichlorobenzene[1,4-]	0.0072	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Dibromoethane[1,2-]	0.0072	mg/kg	U

Table D-2.0-3 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Units	Report Qualifier
51-10001	MD51-01-0003	49–50	Qbt 3	Dichloroethane[1,2-]	0.0072	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Methyl-2-pentanone[4-]	0.029	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Trimethylbenzene[1,3,5-]	0.0072	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Bromobenzene	0.0072	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Toluene	0.0072	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Chlorobenzene	0.0072	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Chlorodibromomethane	0.0072	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Tetrachloroethene	0.0072	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Xylene (total)	0.0072	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Butylbenzene[sec-]	0.0072	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Dichloropropane[1,3-]	0.0072	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Trichlorotrifluoroethane	0.0072	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Dichloroethene[cis/trans-1,2-]	0.0072	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Dichlorobenzene[1,3-]	0.0072	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Carbon tetrachloride	0.0072	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Dichloropropene[1,1-]	0.0072	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Hexanone[2-]	0.029	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Dichloropropane[2,2-]	0.0072	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Tetrachloroethane[1,1,1,2-]	0.0072	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Acetone	0.015	mg/kg	J
51-10001	MD51-01-0003	49–50	Qbt 3	Chloroform	0.0072	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Benzene	0.0072	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Trichloroethane[1,1,1-]	0.0072	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Bromomethane	0.014	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Chloromethane	0.014	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Iodomethane	0.0072	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Dibromomethane	0.0072	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Bromochloromethane	0.0072	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Chloroethane	0.014	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Vinyl chloride	0.014	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Methylene chloride	0.0072	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Carbon disulfide	0.0072	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Bromoform	0.0072	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Bromodichloromethane	0.0072	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Dichloroethane[1,1-]	0.0072	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Dichloroethene[1,1-]	0.0072	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Trichlorofluoromethane	0.0034	mg/kg	J
51-10001	MD51-01-0003	49–50	Qbt 3	Dichlorodifluoromethane	0.014	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Dichloropropane[1,2-]	0.0072	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Butanone[2-]	0.029	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Trichloroethane[1,1,2-]	0.0072	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Trichloroethene	0.0072	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Tetrachloroethane[1,1,2,2-]	0.0072	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Chlorotoluene[2-]	0.0072	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Dichlorobenzene[1,2-]	0.0072	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Trimethylbenzene[1,2,4-]	0.0072	mg/kg	U

Table D-2.0-3 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Units	Report Qualifier
51-10001	MD51-01-0003	49–50	Qbt 3	Dibromo-3-chloropropane[1,2-]	0.014	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Trichloropropane[1,2,3-]	0.0072	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Butylbenzene[tert-]	0.0072	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Isopropylbenzene	0.0072	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	Isopropyltoluene[4-]	0.0072	mg/kg	U
51-10001	MD51-01-0003	49–50	Qbt 3	pH	6.69	SU	None
51-10001	MD51-01-0003	49–50	Qbt 3	Americium-241	0.0808	pCi/g	U
51-10001	MD51-01-0003	49–50	Qbt 3	Cobalt-60	-0.0008	pCi/g	U
51-10001	MD51-01-0003	49–50	Qbt 3	Cesium-134	-0.0113	pCi/g	U
51-10001	MD51-01-0003	49–50	Qbt 3	Cesium-137	0.0132	pCi/g	U
51-10001	MD51-01-0003	49–50	Qbt 3	Europium-152	0.0255	pCi/g	U
51-10001	MD51-01-0003	49–50	Qbt 3	Ruthenium-106	-0.133	pCi/g	U
51-10001	MD51-01-0003	49–50	Qbt 3	Tritium	295	pCi/L	U
51-10001	MD51-01-0003	49–50	Qbt 3	Uranium-234	1.02	pCi/g	None
51-10001	MD51-01-0003	49–50	Qbt 3	Uranium-235	0.0379	pCi/g	J
51-10001	MD51-01-0003	49–50	Qbt 3	Uranium-238	0.993	pCi/g	None
51-10001	MD51-01-0003	49–50	Qbt 3	Strontium-90	-0.00616	pCi/g	U
51-10001	MD51-01-0003	49–50	Qbt 3	Plutonium-238	0.00786	pCi/g	U
51-10001	MD51-01-0003	49–50	Qbt 3	Plutonium-239	0	pCi/g	U
51-10001	MD51-01-0004	59–60	Qbt 3	Nitroaniline[4-]	1.7	mg/kg	U
51-10001	MD51-01-0004	59–60	Qbt 3	Nitrophenol[4-]	1.7	mg/kg	U
51-10001	MD51-01-0004	59–60	Qbt 3	Benzyl alcohol	0.35	mg/kg	U
51-10001	MD51-01-0004	59–60	Qbt 3	Bromophenyl-phenylether[4-]	0.35	mg/kg	U
51-10001	MD51-01-0004	59–60	Qbt 3	Azobenzene	0.35	mg/kg	U
51-10001	MD51-01-0004	59–60	Qbt 3	Dimethylphenol[2,4-]	0.35	mg/kg	U
51-10001	MD51-01-0004	59–60	Qbt 3	Methylphenol[4-]	0.35	mg/kg	U
51-10001	MD51-01-0004	59–60	Qbt 3	Dichlorobenzene[1,4-]	0.35	mg/kg	U
51-10001	MD51-01-0004	59–60	Qbt 3	Chloroaniline[4-]	0.35	mg/kg	U
51-10001	MD51-01-0004	59–60	Qbt 3	Oxybis(1-chloropropane)[2,2'-]	0.35	mg/kg	U
51-10001	MD51-01-0004	59–60	Qbt 3	Phenol	0.35	mg/kg	U
51-10001	MD51-01-0004	59–60	Qbt 3	Bis(2-chloroethyl)ether	0.35	mg/kg	U
51-10001	MD51-01-0004	59–60	Qbt 3	Bis(2-chloroethoxy)methane	0.35	mg/kg	U
51-10001	MD51-01-0004	59–60	Qbt 3	Bis(2-ethylhexyl)phthalate	0.35	mg/kg	U
51-10001	MD51-01-0004	59–60	Qbt 3	Di-n-octylphthalate	0.35	mg/kg	U
51-10001	MD51-01-0004	59–60	Qbt 3	Hexachlorobenzene	0.35	mg/kg	U
51-10001	MD51-01-0004	59–60	Qbt 3	Anthracene	0.35	mg/kg	U
51-10001	MD51-01-0004	59–60	Qbt 3	Trichlorobenzene[1,2,4-]	0.35	mg/kg	U
51-10001	MD51-01-0004	59–60	Qbt 3	Dichlorophenol[2,4-]	0.35	mg/kg	U
51-10001	MD51-01-0004	59–60	Qbt 3	Dinitrotoluene[2,4-]	0.35	mg/kg	U
51-10001	MD51-01-0004	59–60	Qbt 3	Pyrene	0.35	mg/kg	U
51-10001	MD51-01-0004	59–60	Qbt 3	Dimethyl phthalate	0.35	mg/kg	U
51-10001	MD51-01-0004	59–60	Qbt 3	Dibenzofuran	0.35	mg/kg	U
51-10001	MD51-01-0004	59–60	Qbt 3	Benzo(g,h,i)perylene	0.35	mg/kg	U
51-10001	MD51-01-0004	59–60	Qbt 3	Indeno(1,2,3-cd)pyrene	0.35	mg/kg	U
51-10001	MD51-01-0004	59–60	Qbt 3	Benzo(b)fluoranthene	0.35	mg/kg	U
51-10001	MD51-01-0004	59–60	Qbt 3	Fluoranthene	0.35	mg/kg	U

Table D-2.0-3 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Units	Report Qualifier
51-10001	MD51-01-0004	59–60	Qbt 3	Benzo(k)fluoranthene	0.35	mg/kg	U
51-10001	MD51-01-0004	59–60	Qbt 3	Acenaphthylene	0.35	mg/kg	U
51-10001	MD51-01-0004	59–60	Qbt 3	Chrysene	0.35	mg/kg	U
51-10001	MD51-01-0004	59–60	Qbt 3	Benzo(a)pyrene	0.35	mg/kg	U
51-10001	MD51-01-0004	59–60	Qbt 3	Dinitrophenol[2,4-]	1.7	mg/kg	U
51-10001	MD51-01-0004	59–60	Qbt 3	Dibenz(a,h)anthracene	0.35	mg/kg	U
51-10001	MD51-01-0004	59–60	Qbt 3	Dinitro-2-methylphenol[4,6-]	1.7	mg/kg	U
51-10001	MD51-01-0004	59–60	Qbt 3	Dichlorobenzene[1,3-]	0.35	mg/kg	U
51-10001	MD51-01-0004	59–60	Qbt 3	Benzo(a)anthracene	0.35	mg/kg	U
51-10001	MD51-01-0004	59–60	Qbt 3	Chloro-3-methylphenol[4-]	0.35	mg/kg	U
51-10001	MD51-01-0004	59–60	Qbt 3	Dinitrotoluene[2,6-]	0.35	mg/kg	U
51-10001	MD51-01-0004	59–60	Qbt 3	Aniline	0.35	mg/kg	U
51-10001	MD51-01-0004	59–60	Qbt 3	Nitrosodimethylamine[N-]	0.35	mg/kg	U
51-10001	MD51-01-0004	59–60	Qbt 3	Nitroso-di-n-propylamine[N-]	0.35	mg/kg	U
51-10001	MD51-01-0004	59–60	Qbt 3	Benzoic acid	1.7	mg/kg	U
51-10001	MD51-01-0004	59–60	Qbt 3	Hexachloroethane	0.35	mg/kg	U
51-10001	MD51-01-0004	59–60	Qbt 3	Chlorophenyl-phenyl[4-] ether	0.35	mg/kg	U
51-10001	MD51-01-0004	59–60	Qbt 3	Hexachlorocyclopentadiene	1.7	mg/kg	U
51-10001	MD51-01-0004	59–60	Qbt 3	Isophorone	0.35	mg/kg	U
51-10001	MD51-01-0004	59–60	Qbt 3	Acenaphthene	0.35	mg/kg	U
51-10001	MD51-01-0004	59–60	Qbt 3	Diethylphthalate	0.35	mg/kg	U
51-10001	MD51-01-0004	59–60	Qbt 3	Di-n-butylphthalate	0.35	mg/kg	U
51-10001	MD51-01-0004	59–60	Qbt 3	Phenanthrene	0.35	mg/kg	U
51-10001	MD51-01-0004	59–60	Qbt 3	Butylbenzylphthalate	0.35	mg/kg	U
51-10001	MD51-01-0004	59–60	Qbt 3	Nitrosodiphenylamine[N-]	0.35	mg/kg	U
51-10001	MD51-01-0004	59–60	Qbt 3	Fluorene	0.35	mg/kg	U
51-10001	MD51-01-0004	59–60	Qbt 3	Hexachlorobutadiene	0.35	mg/kg	U
51-10001	MD51-01-0004	59–60	Qbt 3	Pentachlorophenol	1.7	mg/kg	U
51-10001	MD51-01-0004	59–60	Qbt 3	Trichlorophenol[2,4,6-]	0.35	mg/kg	U
51-10001	MD51-01-0004	59–60	Qbt 3	Nitroaniline[2-]	1.7	mg/kg	U
51-10001	MD51-01-0004	59–60	Qbt 3	Nitrophenol[2-]	0.35	mg/kg	U
51-10001	MD51-01-0004	59–60	Qbt 3	Naphthalene	0.35	mg/kg	U
51-10001	MD51-01-0004	59–60	Qbt 3	Methylnaphthalene[2-]	0.35	mg/kg	U
51-10001	MD51-01-0004	59–60	Qbt 3	Chloronaphthalene[2-]	0.35	mg/kg	U
51-10001	MD51-01-0004	59–60	Qbt 3	Dichlorobenzidine[3,3'-]	1.7	mg/kg	U
51-10001	MD51-01-0004	59–60	Qbt 3	Methylphenol[2-]	0.35	mg/kg	U
51-10001	MD51-01-0004	59–60	Qbt 3	Dichlorobenzene[1,2-]	0.35	mg/kg	U
51-10001	MD51-01-0004	59–60	Qbt 3	Chlorophenol[2-]	0.35	mg/kg	U
51-10001	MD51-01-0004	59–60	Qbt 3	Trichlorophenol[2,4,5-]	0.35	mg/kg	U
51-10001	MD51-01-0004	59–60	Qbt 3	Nitrobenzene	0.35	mg/kg	U
51-10001	MD51-01-0004	59–60	Qbt 3	Nitroaniline[3-]	1.7	mg/kg	U
51-10001	MD51-01-0004	59–60	Qbt 3	Ethylbenzene	0.0067	mg/kg	UJ
51-10001	MD51-01-0004	59–60	Qbt 3	Styrene	0.0067	mg/kg	UJ
51-10001	MD51-01-0004	59–60	Qbt 3	Dichloropropene[cis-1,3-]	0.0067	mg/kg	UJ
51-10001	MD51-01-0004	59–60	Qbt 3	Dichloropropene[trans-1,3-]	0.0067	mg/kg	UJ
51-10001	MD51-01-0004	59–60	Qbt 3	Propylbenzene[1-]	0.0067	mg/kg	UJ

Table D-2.0-3 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Units	Report Qualifier
51-10001	MD51-01-0004	59–60	Qbt 3	Butylbenzene[n-]	0.0067	mg/kg	UJ
51-10001	MD51-01-0004	59–60	Qbt 3	Chlorotoluene[4-]	0.0067	mg/kg	UJ
51-10001	MD51-01-0004	59–60	Qbt 3	Dichlorobenzene[1,4-]	0.0067	mg/kg	UJ
51-10001	MD51-01-0004	59–60	Qbt 3	Dibromoethane[1,2-]	0.0067	mg/kg	UJ
51-10001	MD51-01-0004	59–60	Qbt 3	Dichloroethane[1,2-]	0.0067	mg/kg	UJ
51-10001	MD51-01-0004	59–60	Qbt 3	Methyl-2-pentanone[4-]	0.027	mg/kg	UJ
51-10001	MD51-01-0004	59–60	Qbt 3	Trimethylbenzene[1,3,5-]	0.0067	mg/kg	UJ
51-10001	MD51-01-0004	59–60	Qbt 3	Bromobenzene	0.0067	mg/kg	UJ
51-10001	MD51-01-0004	59–60	Qbt 3	Toluene	0.0067	mg/kg	UJ
51-10001	MD51-01-0004	59–60	Qbt 3	Chlorobenzene	0.0067	mg/kg	UJ
51-10001	MD51-01-0004	59–60	Qbt 3	Chlorodibromomethane	0.0067	mg/kg	UJ
51-10001	MD51-01-0004	59–60	Qbt 3	Tetrachloroethene	0.0067	mg/kg	UJ
51-10001	MD51-01-0004	59–60	Qbt 3	Xylene (total)	0.0067	mg/kg	UJ
51-10001	MD51-01-0004	59–60	Qbt 3	Butylbenzene[sec-]	0.0067	mg/kg	UJ
51-10001	MD51-01-0004	59–60	Qbt 3	Dichloropropane[1,3-]	0.0067	mg/kg	UJ
51-10001	MD51-01-0004	59–60	Qbt 3	Trichlorotrifluoroethane	0.0067	mg/kg	UJ
51-10001	MD51-01-0004	59–60	Qbt 3	Dichloroethene[cis/trans-1,2-]	0.0067	mg/kg	UJ
51-10001	MD51-01-0004	59–60	Qbt 3	Dichlorobenzene[1,3-]	0.0067	mg/kg	UJ
51-10001	MD51-01-0004	59–60	Qbt 3	Carbon tetrachloride	0.0067	mg/kg	UJ
51-10001	MD51-01-0004	59–60	Qbt 3	Dichloropropene[1,1-]	0.0067	mg/kg	UJ
51-10001	MD51-01-0004	59–60	Qbt 3	Hexanone[2-]	0.027	mg/kg	UJ
51-10001	MD51-01-0004	59–60	Qbt 3	Dichloropropane[2,2-]	0.0067	mg/kg	UJ
51-10001	MD51-01-0004	59–60	Qbt 3	Tetrachloroethane[1,1,1,2-]	0.0067	mg/kg	UJ
51-10001	MD51-01-0004	59–60	Qbt 3	Acetone	0.042	mg/kg	J
51-10001	MD51-01-0004	59–60	Qbt 3	Chloroform	0.0067	mg/kg	UJ
51-10001	MD51-01-0004	59–60	Qbt 3	Benzene	0.0067	mg/kg	UJ
51-10001	MD51-01-0004	59–60	Qbt 3	Trichloroethane[1,1,1-]	0.0067	mg/kg	UJ
51-10001	MD51-01-0004	59–60	Qbt 3	Bromomethane	0.0017	mg/kg	J
51-10001	MD51-01-0004	59–60	Qbt 3	Chloromethane	0.013	mg/kg	UJ
51-10001	MD51-01-0004	59–60	Qbt 3	Iodomethane	0.0067	mg/kg	UJ
51-10001	MD51-01-0004	59–60	Qbt 3	Dibromomethane	0.0067	mg/kg	UJ
51-10001	MD51-01-0004	59–60	Qbt 3	Bromochloromethane	0.0067	mg/kg	UJ
51-10001	MD51-01-0004	59–60	Qbt 3	Chloroethane	0.013	mg/kg	UJ
51-10001	MD51-01-0004	59–60	Qbt 3	Vinyl chloride	0.013	mg/kg	UJ
51-10001	MD51-01-0004	59–60	Qbt 3	Methylene chloride	0.0067	mg/kg	UJ
51-10001	MD51-01-0004	59–60	Qbt 3	Carbon disulfide	0.0067	mg/kg	UJ
51-10001	MD51-01-0004	59–60	Qbt 3	Bromoform	0.0067	mg/kg	UJ
51-10001	MD51-01-0004	59–60	Qbt 3	Bromodichloromethane	0.0067	mg/kg	UJ
51-10001	MD51-01-0004	59–60	Qbt 3	Dichloroethane[1,1-]	0.0067	mg/kg	UJ
51-10001	MD51-01-0004	59–60	Qbt 3	Dichloroethene[1,1-]	0.0067	mg/kg	UJ
51-10001	MD51-01-0004	59–60	Qbt 3	Trichlorofluoromethane	0.0054	mg/kg	J
51-10001	MD51-01-0004	59–60	Qbt 3	Dichlorodifluoromethane	0.013	mg/kg	UJ
51-10001	MD51-01-0004	59–60	Qbt 3	Dichloropropane[1,2-]	0.0067	mg/kg	UJ
51-10001	MD51-01-0004	59–60	Qbt 3	Butanone[2-]	0.014	mg/kg	J
51-10001	MD51-01-0004	59–60	Qbt 3	Trichloroethane[1,1,2-]	0.0067	mg/kg	UJ
51-10001	MD51-01-0004	59–60	Qbt 3	Trichloroethene	0.0067	mg/kg	UJ

Table D-2.0-3 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Units	Report Qualifier
51-10001	MD51-01-0004	59–60	Qbt 3	Tetrachloroethane[1,1,2,2-]	0.0067	mg/kg	UJ
51-10001	MD51-01-0004	59–60	Qbt 3	Chlorotoluene[2-]	0.0067	mg/kg	UJ
51-10001	MD51-01-0004	59–60	Qbt 3	Dichlorobenzene[1,2-]	0.0067	mg/kg	UJ
51-10001	MD51-01-0004	59–60	Qbt 3	Trimethylbenzene[1,2,4-]	0.0067	mg/kg	UJ
51-10001	MD51-01-0004	59–60	Qbt 3	Dibromo-3-chloropropane[1,2-]	0.013	mg/kg	UJ
51-10001	MD51-01-0004	59–60	Qbt 3	Trichloropropane[1,2,3-]	0.0067	mg/kg	UJ
51-10001	MD51-01-0004	59–60	Qbt 3	Butylbenzene[tert-]	0.0067	mg/kg	UJ
51-10001	MD51-01-0004	59–60	Qbt 3	Isopropylbenzene	0.0067	mg/kg	UJ
51-10001	MD51-01-0004	59–60	Qbt 3	Isopropyltoluene[4-]	0.0067	mg/kg	UJ
51-10001	MD51-01-0004	59–60	Qbt 3	pH	7.13	SU	None
51-10001	MD51-01-0004	59–60	Qbt 3	Americium-241	0.0349	pCi/g	U
51-10001	MD51-01-0004	59–60	Qbt 3	Cobalt-60	-0.00551	pCi/g	U
51-10001	MD51-01-0004	59–60	Qbt 3	Cesium-134	-0.0112	pCi/g	U
51-10001	MD51-01-0004	59–60	Qbt 3	Cesium-137	-0.00495	pCi/g	U
51-10001	MD51-01-0004	59–60	Qbt 3	Europium-152	-0.0903	pCi/g	U
51-10001	MD51-01-0004	59–60	Qbt 3	Ruthenium-106	0.00618	pCi/g	U
51-10001	MD51-01-0004	59–60	Qbt 3	Tritium	80.2	pCi/L	U
51-10001	MD51-01-0004	59–60	Qbt 3	Strontium-90	-0.0122	pCi/g	U
51-10001	MD51-01-0004	59–60	Qbt 3	Uranium-234	1.03	pCi/g	None
51-10001	MD51-01-0004	59–60	Qbt 3	Uranium-235	0.0383	pCi/g	J
51-10001	MD51-01-0004	59–60	Qbt 3	Uranium-238	1	pCi/g	None
51-10001	MD51-01-0004	59–60	Qbt 3	Plutonium-238	0.0039	pCi/g	U
51-10001	MD51-01-0004	59–60	Qbt 3	Plutonium-239	0	pCi/g	U
51-10002	MD51-01-0005	4.5–5.5	ALLH[b]	Styrene	0.0058	mg/kg	U
51-10002	MD51-01-0005	4.5–5.5	ALLH	Ethylbenzene	0.0058	mg/kg	U
51-10002	MD51-01-0005	4.5–5.5	ALLH	Dichloropropene[cis-1,3-]	0.0058	mg/kg	U
51-10002	MD51-01-0005	4.5–5.5	ALLH	Dichloropropene[trans-1,3-]	0.0058	mg/kg	U
51-10002	MD51-01-0005	4.5–5.5	ALLH	Propylbenzene[1-]	0.0058	mg/kg	U
51-10002	MD51-01-0005	4.5–5.5	ALLH	Butylbenzene[n-]	0.0058	mg/kg	U
51-10002	MD51-01-0005	4.5–5.5	ALLH	Chlorotoluene[4-]	0.0058	mg/kg	U
51-10002	MD51-01-0005	4.5–5.5	ALLH	Dichlorobenzene[1,4-]	0.0058	mg/kg	U
51-10002	MD51-01-0005	4.5–5.5	ALLH	Dibromoethane[1,2-]	0.0058	mg/kg	U
51-10002	MD51-01-0005	4.5–5.5	ALLH	Dichloroethane[1,2-]	0.0058	mg/kg	U
51-10002	MD51-01-0005	4.5–5.5	ALLH	Methyl-2-pentanone[4-]	0.023	mg/kg	U
51-10002	MD51-01-0005	4.5–5.5	ALLH	Trimethylbenzene[1,3,5-]	0.0058	mg/kg	U
51-10002	MD51-01-0005	4.5–5.5	ALLH	Bromobenzene	0.0058	mg/kg	U
51-10002	MD51-01-0005	4.5–5.5	ALLH	Toluene	0.0058	mg/kg	U
51-10002	MD51-01-0005	4.5–5.5	ALLH	Chlorobenzene	0.0058	mg/kg	U
51-10002	MD51-01-0005	4.5–5.5	ALLH	Chlorodibromomethane	0.0058	mg/kg	U
51-10002	MD51-01-0005	4.5–5.5	ALLH	Tetrachloroethene	0.0058	mg/kg	U
51-10002	MD51-01-0005	4.5–5.5	ALLH	Xylene (total)	0.0058	mg/kg	U
51-10002	MD51-01-0005	4.5–5.5	ALLH	Butylbenzene[sec-]	0.0058	mg/kg	U
51-10002	MD51-01-0005	4.5–5.5	ALLH	Dichloropropane[1,3-]	0.0058	mg/kg	U
51-10002	MD51-01-0005	4.5–5.5	ALLH	Trichlorotrifluoroethane	0.0058	mg/kg	U
51-10002	MD51-01-0005	4.5–5.5	ALLH	Dichloroethene[cis/trans-1,2-]	0.0058	mg/kg	U

[b] ALLH = all horizons soils.

Table D-2.0-3 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Units	Report Qualifier
51-10002	MD51-01-0005	4.5–5.5	ALLH	Dichlorobenzene[1,3-]	0.0058	mg/kg	U
51-10002	MD51-01-0005	4.5–5.5	ALLH	Carbon tetrachloride	0.0058	mg/kg	U
51-10002	MD51-01-0005	4.5–5.5	ALLH	Dichloropropene[1,1-]	0.0058	mg/kg	U
51-10002	MD51-01-0005	4.5–5.5	ALLH	Hexanone[2-]	0.023	mg/kg	U
51-10002	MD51-01-0005	4.5–5.5	ALLH	Dichloropropane[2,2-]	0.0058	mg/kg	U
51-10002	MD51-01-0005	4.5–5.5	ALLH	Tetrachloroethane[1,1,1,2-]	0.0058	mg/kg	U
51-10002	MD51-01-0005	4.5–5.5	ALLH	Acetone	0.023	mg/kg	UJ
51-10002	MD51-01-0005	4.5–5.5	ALLH	Chloroform	0.0058	mg/kg	U
51-10002	MD51-01-0005	4.5–5.5	ALLH	Benzene	0.0058	mg/kg	U
51-10002	MD51-01-0005	4.5–5.5	ALLH	Trichloroethane[1,1,1-]	0.0058	mg/kg	U
51-10002	MD51-01-0005	4.5–5.5	ALLH	Bromomethane	0.012	mg/kg	UJ
51-10002	MD51-01-0005	4.5–5.5	ALLH	Chloromethane	0.012	mg/kg	U
51-10002	MD51-01-0005	4.5–5.5	ALLH	Iodomethane	0.0058	mg/kg	U
51-10002	MD51-01-0005	4.5–5.5	ALLH	Dibromomethane	0.0058	mg/kg	U
51-10002	MD51-01-0005	4.5–5.5	ALLH	Bromochloromethane	0.0058	mg/kg	U
51-10002	MD51-01-0005	4.5–5.5	ALLH	Chloroethane	0.012	mg/kg	U
51-10002	MD51-01-0005	4.5–5.5	ALLH	Vinyl chloride	0.012	mg/kg	U
51-10002	MD51-01-0005	4.5–5.5	ALLH	Methylene chloride	0.0058	mg/kg	U
51-10002	MD51-01-0005	4.5–5.5	ALLH	Carbon disulfide	0.0058	mg/kg	U
51-10002	MD51-01-0005	4.5–5.5	ALLH	Bromoform	0.0058	mg/kg	U
51-10002	MD51-01-0005	4.5–5.5	ALLH	Bromodichloromethane	0.0058	mg/kg	U
51-10002	MD51-01-0005	4.5–5.5	ALLH	Dichloroethane[1,1-]	0.0058	mg/kg	U
51-10002	MD51-01-0005	4.5–5.5	ALLH	Dichloroethene[1,1-]	0.0058	mg/kg	U
51-10002	MD51-01-0005	4.5–5.5	ALLH	Trichlorofluoromethane	0.012	mg/kg	U
51-10002	MD51-01-0005	4.5–5.5	ALLH	Dichlorodifluoromethane	0.012	mg/kg	U
51-10002	MD51-01-0005	4.5–5.5	ALLH	Dichloropropane[1,2-]	0.0058	mg/kg	U
51-10002	MD51-01-0005	4.5–5.5	ALLH	Butanone[2-]	0.023	mg/kg	U
51-10002	MD51-01-0005	4.5–5.5	ALLH	Trichloroethane[1,1,2-]	0.0058	mg/kg	U
51-10002	MD51-01-0005	4.5–5.5	ALLH	Trichloroethene	0.0058	mg/kg	U
51-10002	MD51-01-0005	4.5–5.5	ALLH	Tetrachloroethane[1,1,2,2-]	0.0058	mg/kg	U
51-10002	MD51-01-0005	4.5–5.5	ALLH	Chlorotoluene[2-]	0.0058	mg/kg	U
51-10002	MD51-01-0005	4.5–5.5	ALLH	Dichlorobenzene[1,2-]	0.0058	mg/kg	U
51-10002	MD51-01-0005	4.5–5.5	ALLH	Trimethylbenzene[1,2,4-]	0.0058	mg/kg	U
51-10002	MD51-01-0005	4.5–5.5	ALLH	Dibromo-3-chloropropane[1,2-]	0.012	mg/kg	U
51-10002	MD51-01-0005	4.5–5.5	ALLH	Trichloropropane[1,2,3-]	0.0058	mg/kg	U
51-10002	MD51-01-0005	4.5–5.5	ALLH	Butylbenzene[tert-]	0.0058	mg/kg	U
51-10002	MD51-01-0005	4.5–5.5	ALLH	Isopropylbenzene	0.0058	mg/kg	U
51-10002	MD51-01-0005	4.5–5.5	ALLH	Isopropyltoluene[4-]	0.0058	mg/kg	U
51-10002	MD51-01-0005	4.5–5.5	ALLH	Nitroaniline[4-]	1.6	mg/kg	UJ
51-10002	MD51-01-0005	4.5–5.5	ALLH	Nitrophenol[4-]	1.6	mg/kg	UJ
51-10002	MD51-01-0005	4.5–5.5	ALLH	Benzyl alcohol	0.34	mg/kg	UJ
51-10002	MD51-01-0005	4.5–5.5	ALLH	Bromophenyl-phenylether[4-]	0.34	mg/kg	UJ
51-10002	MD51-01-0005	4.5–5.5	ALLH	Azobenzene	0.34	mg/kg	UJ
51-10002	MD51-01-0005	4.5–5.5	ALLH	Dimethylphenol[2,4-]	0.34	mg/kg	UJ
51-10002	MD51-01-0005	4.5–5.5	ALLH	Methylphenol[4-]	0.34	mg/kg	UJ
51-10002	MD51-01-0005	4.5–5.5	ALLH	Dichlorobenzene[1,4-]	0.34	mg/kg	UJ

Table D-2.0-3 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Units	Report Qualifier
51-10002	MD51-01-0005	4.5–5.5	ALLH	Chloroaniline[4-]	0.34	mg/kg	UJ
51-10002	MD51-01-0005	4.5–5.5	ALLH	Oxybis(1-chloropropane)[2,2'-]	0.34	mg/kg	UJ
51-10002	MD51-01-0005	4.5–5.5	ALLH	Phenol	0.34	mg/kg	UJ
51-10002	MD51-01-0005	4.5–5.5	ALLH	Bis(2-chloroethyl)ether	0.34	mg/kg	UJ
51-10002	MD51-01-0005	4.5–5.5	ALLH	Bis(2-chloroethoxy)methane	0.34	mg/kg	UJ
51-10002	MD51-01-0005	4.5–5.5	ALLH	Bis(2-ethylhexyl)phthalate	0.34	mg/kg	UJ
51-10002	MD51-01-0005	4.5–5.5	ALLH	Di-n-octylphthalate	0.34	mg/kg	UJ
51-10002	MD51-01-0005	4.5–5.5	ALLH	Hexachlorobenzene	0.34	mg/kg	UJ
51-10002	MD51-01-0005	4.5–5.5	ALLH	Anthracene	0.34	mg/kg	UJ
51-10002	MD51-01-0005	4.5–5.5	ALLH	Trichlorobenzene[1,2,4-]	0.34	mg/kg	UJ
51-10002	MD51-01-0005	4.5–5.5	ALLH	Dichlorophenol[2,4-]	0.34	mg/kg	UJ
51-10002	MD51-01-0005	4.5–5.5	ALLH	Dinitrotoluene[2,4-]	0.34	mg/kg	UJ
51-10002	MD51-01-0005	4.5–5.5	ALLH	Pyrene	0.34	mg/kg	UJ
51-10002	MD51-01-0005	4.5–5.5	ALLH	Dimethyl phthalate	0.34	mg/kg	UJ
51-10002	MD51-01-0005	4.5–5.5	ALLH	Dibenzofuran	0.34	mg/kg	UJ
51-10002	MD51-01-0005	4.5–5.5	ALLH	Benzo(g,h,i)perylene	0.34	mg/kg	UJ
51-10002	MD51-01-0005	4.5–5.5	ALLH	Indeno(1,2,3-cd)pyrene	0.34	mg/kg	UJ
51-10002	MD51-01-0005	4.5–5.5	ALLH	Benzo(b)fluoranthene	0.34	mg/kg	UJ
51-10002	MD51-01-0005	4.5–5.5	ALLH	Fluoranthene	0.34	mg/kg	UJ
51-10002	MD51-01-0005	4.5–5.5	ALLH	Benzo(k)fluoranthene	0.34	mg/kg	UJ
51-10002	MD51-01-0005	4.5–5.5	ALLH	Acenaphthylene	0.34	mg/kg	UJ
51-10002	MD51-01-0005	4.5–5.5	ALLH	Chrysene	0.34	mg/kg	UJ
51-10002	MD51-01-0005	4.5–5.5	ALLH	Benzo(a)pyrene	0.34	mg/kg	UJ
51-10002	MD51-01-0005	4.5–5.5	ALLH	Dinitrophenol[2,4-]	1.6	mg/kg	UJ
51-10002	MD51-01-0005	4.5–5.5	ALLH	Dibenz(a,h)anthracene	0.34	mg/kg	UJ
51-10002	MD51-01-0005	4.5–5.5	ALLH	Dinitro-2-methylphenol[4,6-]	1.6	mg/kg	UJ
51-10002	MD51-01-0005	4.5–5.5	ALLH	Dichlorobenzene[1,3-]	0.34	mg/kg	UJ
51-10002	MD51-01-0005	4.5–5.5	ALLH	Benzo(a)anthracene	0.34	mg/kg	UJ
51-10002	MD51-01-0005	4.5–5.5	ALLH	Chloro-3-methylphenol[4-]	0.34	mg/kg	UJ
51-10002	MD51-01-0005	4.5–5.5	ALLH	Dinitrotoluene[2,6-]	0.34	mg/kg	UJ
51-10002	MD51-01-0005	4.5–5.5	ALLH	Aniline	0.34	mg/kg	UJ
51-10002	MD51-01-0005	4.5–5.5	ALLH	Nitrosodimethylamine[N-]	0.34	mg/kg	UJ
51-10002	MD51-01-0005	4.5–5.5	ALLH	Nitroso-di-n-propylamine[N-]	0.34	mg/kg	UJ
51-10002	MD51-01-0005	4.5–5.5	ALLH	Benzoic acid	1.6	mg/kg	UJ
51-10002	MD51-01-0005	4.5–5.5	ALLH	Hexachloroethane	0.34	mg/kg	UJ
51-10002	MD51-01-0005	4.5–5.5	ALLH	Chlorophenyl-phenyl[4-] ether	0.34	mg/kg	UJ
51-10002	MD51-01-0005	4.5–5.5	ALLH	Hexachlorocyclopentadiene	1.6	mg/kg	UJ
51-10002	MD51-01-0005	4.5–5.5	ALLH	Isophorone	0.34	mg/kg	UJ
51-10002	MD51-01-0005	4.5–5.5	ALLH	Acenaphthene	0.34	mg/kg	UJ
51-10002	MD51-01-0005	4.5–5.5	ALLH	Diethylphthalate	0.34	mg/kg	UJ
51-10002	MD51-01-0005	4.5–5.5	ALLH	Di-n-butylphthalate	0.34	mg/kg	UJ
51-10002	MD51-01-0005	4.5–5.5	ALLH	Phenanthrene	0.34	mg/kg	UJ
51-10002	MD51-01-0005	4.5–5.5	ALLH	Butylbenzylphthalate	0.34	mg/kg	UJ
51-10002	MD51-01-0005	4.5–5.5	ALLH	Nitrosodiphenylamine[N-]	0.34	mg/kg	UJ
51-10002	MD51-01-0005	4.5–5.5	ALLH	Fluorene	0.34	mg/kg	UJ
51-10002	MD51-01-0005	4.5–5.5	ALLH	Hexachlorobutadiene	0.34	mg/kg	UJ

Table D-2.0-3 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Units	Report Qualifier
51-10002	MD51-01-0005	4.5–5.5	ALLH	Pentachlorophenol	1.6	mg/kg	UJ
51-10002	MD51-01-0005	4.5–5.5	ALLH	Trichlorophenol[2,4,6-]	0.34	mg/kg	UJ
51-10002	MD51-01-0005	4.5–5.5	ALLH	Nitroaniline[2-]	1.6	mg/kg	UJ
51-10002	MD51-01-0005	4.5–5.5	ALLH	Nitrophenol[2-]	0.34	mg/kg	UJ
51-10002	MD51-01-0005	4.5–5.5	ALLH	Naphthalene	0.34	mg/kg	UJ
51-10002	MD51-01-0005	4.5–5.5	ALLH	Methylnaphthalene[2-]	0.34	mg/kg	UJ
51-10002	MD51-01-0005	4.5–5.5	ALLH	Chloronaphthalene[2-]	0.34	mg/kg	UJ
51-10002	MD51-01-0005	4.5–5.5	ALLH	Dichlorobenzidine[3,3'-]	1.6	mg/kg	UJ
51-10002	MD51-01-0005	4.5–5.5	ALLH	Methylphenol[2-]	0.34	mg/kg	UJ
51-10002	MD51-01-0005	4.5–5.5	ALLH	Dichlorobenzene[1,2-]	0.34	mg/kg	UJ
51-10002	MD51-01-0005	4.5–5.5	ALLH	Chlorophenol[2-]	0.34	mg/kg	UJ
51-10002	MD51-01-0005	4.5–5.5	ALLH	Trichlorophenol[2,4,5-]	0.34	mg/kg	UJ
51-10002	MD51-01-0005	4.5–5.5	ALLH	Nitrobenzene	0.34	mg/kg	UJ
51-10002	MD51-01-0005	4.5–5.5	ALLH	Nitroaniline[3-]	1.6	mg/kg	UJ
51-10002	MD51-01-0005	4.5–5.5	ALLH	pH	9.22	SU	None
51-10002	MD51-01-0005	4.5–5.5	ALLH	Strontium-90	0.198	pCi/g	U
51-10002	MD51-01-0005	4.5–5.5	ALLH	Plutonium-238	0	pCi/g	U
51-10002	MD51-01-0005	4.5–5.5	ALLH	Plutonium-239	0	pCi/g	U
51-10002	MD51-01-0005	4.5–5.5	ALLH	Americium-241	0.0253	pCi/g	U
51-10002	MD51-01-0005	4.5–5.5	ALLH	Cobalt-60	-0.0142	pCi/g	U
51-10002	MD51-01-0005	4.5–5.5	ALLH	Cesium-134	-0.00599	pCi/g	U
51-10002	MD51-01-0005	4.5–5.5	ALLH	Cesium-137	0.00226	pCi/g	U
51-10002	MD51-01-0005	4.5–5.5	ALLH	Europium-152	0.00586	pCi/g	U
51-10002	MD51-01-0005	4.5–5.5	ALLH	Ruthenium-106	0.0127	pCi/g	U
51-10002	MD51-01-0005	4.5–5.5	ALLH	Uranium-234	0.574	pCi/g	None
51-10002	MD51-01-0005	4.5–5.5	ALLH	Uranium-235	0.0201	pCi/g	U
51-10002	MD51-01-0005	4.5–5.5	ALLH	Uranium-238	0.587	pCi/g	None
51-10002	MD51-01-0005	4.5–5.5	ALLH	Tritium	-273	pCi/L	U
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Ethylbenzene	0.006	mg/kg	U
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Styrene	0.006	mg/kg	U
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Dichloropropene[cis-1,3-]	0.006	mg/kg	U
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Dichloropropene[trans-1,3-]	0.006	mg/kg	U
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Propylbenzene[1-]	0.006	mg/kg	U
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Butylbenzene[n-]	0.006	mg/kg	U
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Chlorotoluene[4-]	0.006	mg/kg	U
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Dichlorobenzene[1,4-]	0.006	mg/kg	U
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Dibromoethane[1,2-]	0.006	mg/kg	U
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Dichloroethane[1,2-]	0.006	mg/kg	U
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Methyl-2-pentanone[4-]	0.024	mg/kg	U
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Trimethylbenzene[1,3,5-]	0.006	mg/kg	U
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Bromobenzene	0.006	mg/kg	U
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Toluene	0.006	mg/kg	U
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Chlorobenzene	0.006	mg/kg	U
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Chlorodibromomethane	0.006	mg/kg	U
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Tetrachloroethene	0.006	mg/kg	U
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Xylene (total)	0.006	mg/kg	U

Table D-2.0-3 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Units	Report Qualifier
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Butylbenzene[sec-]	0.006	mg/kg	U
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Dichloropropane[1,3-]	0.006	mg/kg	U
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Trichlorotrifluoroethane	0.006	mg/kg	U
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Dichloroethene[cis/trans-1,2-]	0.006	mg/kg	U
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Dichlorobenzene[1,3-]	0.006	mg/kg	U
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Carbon tetrachloride	0.006	mg/kg	U
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Dichloropropene[1,1-]	0.006	mg/kg	U
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Hexanone[2-]	0.024	mg/kg	U
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Dichloropropane[2,2-]	0.006	mg/kg	U
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Tetrachloroethane[1,1,1,2-]	0.006	mg/kg	U
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Acetone	0.024	mg/kg	UJ
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Chloroform	0.006	mg/kg	U
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Benzene	0.006	mg/kg	U
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Trichloroethane[1,1,1-]	0.006	mg/kg	U
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Bromomethane	0.012	mg/kg	UJ
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Chloromethane	0.012	mg/kg	U
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Iodomethane	0.006	mg/kg	U
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Dibromomethane	0.006	mg/kg	U
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Bromochloromethane	0.006	mg/kg	U
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Chloroethane	0.012	mg/kg	U
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Vinyl chloride	0.012	mg/kg	U
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Methylene chloride	0.006	mg/kg	U
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Carbon disulfide	0.006	mg/kg	U
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Bromoform	0.006	mg/kg	U
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Bromodichloromethane	0.006	mg/kg	U
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Dichloroethane[1,1-]	0.006	mg/kg	U
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Dichloroethene[1,1-]	0.006	mg/kg	U
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Trichlorofluoromethane	0.012	mg/kg	U
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Dichlorodifluoromethane	0.012	mg/kg	U
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Dichloropropane[1,2-]	0.006	mg/kg	U
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Butanone[2-]	0.024	mg/kg	U
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Trichloroethane[1,1,2-]	0.006	mg/kg	U
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Trichloroethene	0.006	mg/kg	U
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Tetrachloroethane[1,1,2,2-]	0.006	mg/kg	U
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Chlorotoluene[2-]	0.006	mg/kg	U
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Dichlorobenzene[1,2-]	0.006	mg/kg	U
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Trimethylbenzene[1,2,4-]	0.006	mg/kg	U
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Dibromo-3-chloropropane[1,2-]	0.012	mg/kg	U
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Trichloropropane[1,2,3-]	0.006	mg/kg	U
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Butylbenzene[tert-]	0.006	mg/kg	U
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Isopropylbenzene	0.006	mg/kg	U
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Isopropyltoluene[4-]	0.006	mg/kg	U
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Nitroaniline[4-]	1.7	mg/kg	UJ
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Nitrophenol[4-]	1.7	mg/kg	UJ
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Benzyl alcohol	0.35	mg/kg	UJ
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Bromophenyl-phenylether[4-]	0.35	mg/kg	UJ

Table D-2.0-3 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Units	Report Qualifier
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Azobenzene	0.35	mg/kg	UJ
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Dimethylphenol[2,4-]	0.35	mg/kg	UJ
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Methylphenol[4-]	0.35	mg/kg	UJ
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Dichlorobenzene[1,4-]	0.35	mg/kg	UJ
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Chloroaniline[4-]	0.35	mg/kg	UJ
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Oxybis(1-chloropropane)[2,2'-]	0.35	mg/kg	UJ
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Phenol	0.35	mg/kg	UJ
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Bis(2-chloroethyl)ether	0.35	mg/kg	UJ
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Bis(2-chloroethoxy)methane	0.35	mg/kg	UJ
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Bis(2-ethylhexyl)phthalate	0.35	mg/kg	UJ
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Di-n-octylphthalate	0.35	mg/kg	UJ
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Hexachlorobenzene	0.35	mg/kg	UJ
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Anthracene	0.35	mg/kg	UJ
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Trichlorobenzene[1,2,4-]	0.35	mg/kg	UJ
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Dichlorophenol[2,4-]	0.35	mg/kg	UJ
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Dinitrotoluene[2,4-]	0.35	mg/kg	UJ
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Pyrene	0.35	mg/kg	UJ
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Dimethyl phthalate	0.35	mg/kg	UJ
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Dibenzofuran	0.35	mg/kg	UJ
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Benzo(g,h,i)perylene	0.35	mg/kg	UJ
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Indeno(1,2,3-cd)pyrene	0.35	mg/kg	UJ
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Benzo(b)fluoranthene	0.35	mg/kg	UJ
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Fluoranthene	0.35	mg/kg	UJ
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Benzo(k)fluoranthene	0.35	mg/kg	UJ
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Acenaphthylene	0.35	mg/kg	UJ
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Chrysene	0.35	mg/kg	UJ
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Benzo(a)pyrene	0.35	mg/kg	UJ
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Dinitrophenol[2,4-]	1.7	mg/kg	UJ
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Dibenz(a,h)anthracene	0.35	mg/kg	UJ
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Dinitro-2-methylphenol[4,6-]	1.7	mg/kg	UJ
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Dichlorobenzene[1,3-]	0.35	mg/kg	UJ
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Benzo(a)anthracene	0.35	mg/kg	UJ
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Chloro-3-methylphenol[4-]	0.35	mg/kg	UJ
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Dinitrotoluene[2,6-]	0.35	mg/kg	UJ
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Aniline	0.35	mg/kg	UJ
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Nitrosodimethylamine[N-]	0.35	mg/kg	UJ
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Nitroso-di-n-propylamine[N-]	0.35	mg/kg	UJ
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Benzoic acid	1.7	mg/kg	UJ
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Hexachloroethane	0.35	mg/kg	UJ
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Chlorophenyl-phenyl[4-] ether	0.35	mg/kg	UJ
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Hexachlorocyclopentadiene	1.7	mg/kg	UJ
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Isophorone	0.35	mg/kg	UJ
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Acenaphthene	0.35	mg/kg	UJ
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Diethylphthalate	0.35	mg/kg	UJ
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Di-n-butylphthalate	0.35	mg/kg	UJ
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Phenanthrene	0.35	mg/kg	UJ

Table D-2.0-3 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Units	Report Qualifier
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Butylbenzylphthalate	0.35	mg/kg	UJ
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Nitrosodiphenylamine[N-]	0.35	mg/kg	UJ
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Fluorene	0.35	mg/kg	UJ
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Hexachlorobutadiene	0.35	mg/kg	UJ
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Pentachlorophenol	1.7	mg/kg	UJ
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Trichlorophenol[2,4,6-]	0.35	mg/kg	UJ
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Nitroaniline[2-]	1.7	mg/kg	UJ
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Nitrophenol[2-]	0.35	mg/kg	UJ
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Naphthalene	0.35	mg/kg	UJ
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Methylnaphthalene[2-]	0.35	mg/kg	UJ
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Chloronaphthalene[2-]	0.35	mg/kg	UJ
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Dichlorobenzidine[3,3'-]	1.7	mg/kg	UJ
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Methylphenol[2-]	0.35	mg/kg	UJ
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Dichlorobenzene[1,2-]	0.35	mg/kg	UJ
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Chlorophenol[2-]	0.35	mg/kg	UJ
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Trichlorophenol[2,4,5-]	0.35	mg/kg	UJ
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Nitrobenzene	0.35	mg/kg	UJ
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Nitroaniline[3-]	1.7	mg/kg	UJ
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	pH	8.77	SU	None
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Strontium-90	0.0621	pCi/g	U
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Plutonium-238	0	pCi/g	U
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Plutonium-239	0.0131	pCi/g	U
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Americium-241	0.0107	pCi/g	U
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Cobalt-60	-0.00434	pCi/g	U
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Cesium-134	-0.00841	pCi/g	U
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Cesium-137	0.0761	pCi/g	None
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Europium-152	0.00889	pCi/g	U
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Ruthenium-106	0.0132	pCi/g	U
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Uranium-234	0.931	pCi/g	None
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Uranium-235	0.0394	pCi/g	U
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Uranium-238	0.864	pCi/g	None
51-10002	MD51-01-0006	5.5–6.5	Qbt 3	Tritium	139	pCi/L	U
51-10003	MD51-01-0007	11–12	ALLH	Ethylbenzene	0.0054	mg/kg	U
51-10003	MD51-01-0007	11–12	ALLH	Styrene	0.0054	mg/kg	U
51-10003	MD51-01-0007	11–12	ALLH	Dichloropropene[cis-1,3-]	0.0054	mg/kg	U
51-10003	MD51-01-0007	11–12	ALLH	Dichloropropene[trans-1,3-]	0.0054	mg/kg	U
51-10003	MD51-01-0007	11–12	ALLH	Propylbenzene[1-]	0.0054	mg/kg	U
51-10003	MD51-01-0007	11–12	ALLH	Butylbenzene[n-]	0.0054	mg/kg	U
51-10003	MD51-01-0007	11–12	ALLH	Chlorotoluene[4-]	0.0054	mg/kg	U
51-10003	MD51-01-0007	11–12	ALLH	Dichlorobenzene[1,4-]	0.0054	mg/kg	U
51-10003	MD51-01-0007	11–12	ALLH	Dibromoethane[1,2-]	0.0054	mg/kg	U
51-10003	MD51-01-0007	11–12	ALLH	Dichloroethane[1,2-]	0.0054	mg/kg	U
51-10003	MD51-01-0007	11–12	ALLH	Methyl-2-pentanone[4-]	0.022	mg/kg	U
51-10003	MD51-01-0007	11–12	ALLH	Trimethylbenzene[1,3,5-]	0.0054	mg/kg	U
51-10003	MD51-01-0007	11–12	ALLH	Bromobenzene	0.0054	mg/kg	U
51-10003	MD51-01-0007	11–12	ALLH	Toluene	0.0054	mg/kg	U

Table D-2.0-3 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Units	Report Qualifier
51-10003	MD51-01-0007	11–12	ALLH	Chlorobenzene	0.0054	mg/kg	U
51-10003	MD51-01-0007	11–12	ALLH	Chlorodibromomethane	0.0054	mg/kg	U
51-10003	MD51-01-0007	11–12	ALLH	Tetrachloroethene	0.0054	mg/kg	U
51-10003	MD51-01-0007	11–12	ALLH	Xylene (total)	0.0054	mg/kg	U
51-10003	MD51-01-0007	11–12	ALLH	Butylbenzene[sec-]	0.0054	mg/kg	U
51-10003	MD51-01-0007	11–12	ALLH	Dichloropropane[1,3-]	0.0054	mg/kg	U
51-10003	MD51-01-0007	11–12	ALLH	Trichlorotrifluoroethane	0.0054	mg/kg	U
51-10003	MD51-01-0007	11–12	ALLH	Dichloroethene[cis/trans-1,2-]	0.0054	mg/kg	U
51-10003	MD51-01-0007	11–12	ALLH	Dichlorobenzene[1,3-]	0.0054	mg/kg	U
51-10003	MD51-01-0007	11–12	ALLH	Carbon tetrachloride	0.0054	mg/kg	U
51-10003	MD51-01-0007	11–12	ALLH	Dichloropropene[1,1-]	0.0054	mg/kg	U
51-10003	MD51-01-0007	11–12	ALLH	Hexanone[2-]	0.022	mg/kg	U
51-10003	MD51-01-0007	11–12	ALLH	Dichloropropane[2,2-]	0.0054	mg/kg	U
51-10003	MD51-01-0007	11–12	ALLH	Tetrachloroethane[1,1,1,2-]	0.0054	mg/kg	U
51-10003	MD51-01-0007	11–12	ALLH	Acetone	0.022	mg/kg	UJ
51-10003	MD51-01-0007	11–12	ALLH	Chloroform	0.0054	mg/kg	U
51-10003	MD51-01-0007	11–12	ALLH	Benzene	0.0054	mg/kg	U
51-10003	MD51-01-0007	11–12	ALLH	Trichloroethane[1,1,1-]	0.0054	mg/kg	U
51-10003	MD51-01-0007	11–12	ALLH	Bromomethane	0.011	mg/kg	UJ
51-10003	MD51-01-0007	11–12	ALLH	Chloromethane	0.011	mg/kg	U
51-10003	MD51-01-0007	11–12	ALLH	Iodomethane	0.0054	mg/kg	U
51-10003	MD51-01-0007	11–12	ALLH	Dibromomethane	0.0054	mg/kg	U
51-10003	MD51-01-0007	11–12	ALLH	Bromochloromethane	0.0054	mg/kg	U
51-10003	MD51-01-0007	11–12	ALLH	Chloroethane	0.011	mg/kg	U
51-10003	MD51-01-0007	11–12	ALLH	Vinyl chloride	0.011	mg/kg	U
51-10003	MD51-01-0007	11–12	ALLH	Methylene chloride	0.0054	mg/kg	U
51-10003	MD51-01-0007	11–12	ALLH	Carbon disulfide	0.0054	mg/kg	U
51-10003	MD51-01-0007	11–12	ALLH	Bromoform	0.0054	mg/kg	U
51-10003	MD51-01-0007	11–12	ALLH	Bromodichloromethane	0.0054	mg/kg	U
51-10003	MD51-01-0007	11–12	ALLH	Dichloroethane[1,1-]	0.0054	mg/kg	U
51-10003	MD51-01-0007	11–12	ALLH	Dichloroethene[1,1-]	0.0054	mg/kg	U
51-10003	MD51-01-0007	11–12	ALLH	Trichlorofluoromethane	0.011	mg/kg	U
51-10003	MD51-01-0007	11–12	ALLH	Dichlorodifluoromethane	0.011	mg/kg	U
51-10003	MD51-01-0007	11–12	ALLH	Dichloropropane[1,2-]	0.0054	mg/kg	U
51-10003	MD51-01-0007	11–12	ALLH	Butanone[2-]	0.022	mg/kg	U
51-10003	MD51-01-0007	11–12	ALLH	Trichloroethane[1,1,2-]	0.0054	mg/kg	U
51-10003	MD51-01-0007	11–12	ALLH	Trichloroethene	0.0054	mg/kg	U
51-10003	MD51-01-0007	11–12	ALLH	Tetrachloroethane[1,1,2,2-]	0.0054	mg/kg	U
51-10003	MD51-01-0007	11–12	ALLH	Chlorotoluene[2-]	0.0054	mg/kg	U
51-10003	MD51-01-0007	11–12	ALLH	Dichlorobenzene[1,2-]	0.0054	mg/kg	U
51-10003	MD51-01-0007	11–12	ALLH	Trimethylbenzene[1,2,4-]	0.0054	mg/kg	U
51-10003	MD51-01-0007	11–12	ALLH	Dibromo-3-chloropropane[1,2-]	0.011	mg/kg	U
51-10003	MD51-01-0007	11–12	ALLH	Trichloropropane[1,2,3-]	0.0054	mg/kg	U
51-10003	MD51-01-0007	11–12	ALLH	Butylbenzene[tert-]	0.0054	mg/kg	U
51-10003	MD51-01-0007	11–12	ALLH	Isopropylbenzene	0.0054	mg/kg	U
51-10003	MD51-01-0007	11–12	ALLH	Isopropyltoluene[4-]	0.0054	mg/kg	U

Table D-2.0-3 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Units	Report Qualifier
51-10003	MD51-01-0007	11-12	ALLH	Nitroaniline[4-]	1.6	mg/kg	UJ
51-10003	MD51-01-0007	11-12	ALLH	Nitrophenol[4-]	1.6	mg/kg	UJ
51-10003	MD51-01-0007	11-12	ALLH	Benzyl alcohol	0.34	mg/kg	UJ
51-10003	MD51-01-0007	11-12	ALLH	Bromophenyl-phenylether[4-]	0.34	mg/kg	UJ
51-10003	MD51-01-0007	11-12	ALLH	Azobenzene	0.34	mg/kg	UJ
51-10003	MD51-01-0007	11-12	ALLH	Dimethylphenol[2,4-]	0.34	mg/kg	UJ
51-10003	MD51-01-0007	11-12	ALLH	Methylphenol[4-]	0.34	mg/kg	UJ
51-10003	MD51-01-0007	11-12	ALLH	Dichlorobenzene[1,4-]	0.34	mg/kg	UJ
51-10003	MD51-01-0007	11-12	ALLH	Chloroaniline[4-]	0.34	mg/kg	UJ
51-10003	MD51-01-0007	11-12	ALLH	Oxybis(1-chloropropane)[2,2'-]	0.34	mg/kg	UJ
51-10003	MD51-01-0007	11-12	ALLH	Phenol	0.34	mg/kg	UJ
51-10003	MD51-01-0007	11-12	ALLH	Bis(2-chloroethyl)ether	0.34	mg/kg	UJ
51-10003	MD51-01-0007	11-12	ALLH	Bis(2-chloroethoxy)methane	0.34	mg/kg	UJ
51-10003	MD51-01-0007	11-12	ALLH	Bis(2-ethylhexyl)phthalate	0.34	mg/kg	UJ
51-10003	MD51-01-0007	11-12	ALLH	Di-n-octylphthalate	0.34	mg/kg	UJ
51-10003	MD51-01-0007	11-12	ALLH	Hexachlorobenzene	0.34	mg/kg	UJ
51-10003	MD51-01-0007	11-12	ALLH	Anthracene	0.34	mg/kg	UJ
51-10003	MD51-01-0007	11-12	ALLH	Trichlorobenzene[1,2,4-]	0.34	mg/kg	UJ
51-10003	MD51-01-0007	11-12	ALLH	Dichlorophenol[2,4-]	0.34	mg/kg	UJ
51-10003	MD51-01-0007	11-12	ALLH	Dinitrotoluene[2,4-]	0.34	mg/kg	UJ
51-10003	MD51-01-0007	11-12	ALLH	Pyrene	0.34	mg/kg	UJ
51-10003	MD51-01-0007	11-12	ALLH	Dimethyl phthalate	0.34	mg/kg	UJ
51-10003	MD51-01-0007	11-12	ALLH	Dibenzofuran	0.34	mg/kg	UJ
51-10003	MD51-01-0007	11-12	ALLH	Benzo(g,h,i)perylene	0.34	mg/kg	UJ
51-10003	MD51-01-0007	11-12	ALLH	Indeno(1,2,3-cd)pyrene	0.34	mg/kg	UJ
51-10003	MD51-01-0007	11-12	ALLH	Benzo(b)fluoranthene	0.34	mg/kg	UJ
51-10003	MD51-01-0007	11-12	ALLH	Fluoranthene	0.34	mg/kg	UJ
51-10003	MD51-01-0007	11-12	ALLH	Benzo(k)fluoranthene	0.34	mg/kg	UJ
51-10003	MD51-01-0007	11-12	ALLH	Acenaphthylene	0.34	mg/kg	UJ
51-10003	MD51-01-0007	11-12	ALLH	Chrysene	0.34	mg/kg	UJ
51-10003	MD51-01-0007	11-12	ALLH	Benzo(a)pyrene	0.34	mg/kg	UJ
51-10003	MD51-01-0007	11-12	ALLH	Dinitrophenol[2,4-]	1.6	mg/kg	UJ
51-10003	MD51-01-0007	11-12	ALLH	Dibenz(a,h)anthracene	0.34	mg/kg	UJ
51-10003	MD51-01-0007	11-12	ALLH	Dinitro-2-methylphenol[4,6-]	1.6	mg/kg	UJ
51-10003	MD51-01-0007	11-12	ALLH	Dichlorobenzene[1,3-]	0.34	mg/kg	UJ
51-10003	MD51-01-0007	11-12	ALLH	Benzo(a)anthracene	0.34	mg/kg	UJ
51-10003	MD51-01-0007	11-12	ALLH	Chloro-3-methylphenol[4-]	0.34	mg/kg	UJ
51-10003	MD51-01-0007	11-12	ALLH	Dinitrotoluene[2,6-]	0.34	mg/kg	UJ
51-10003	MD51-01-0007	11-12	ALLH	Aniline	0.34	mg/kg	UJ
51-10003	MD51-01-0007	11-12	ALLH	Nitrosodimethylamine[N-]	0.34	mg/kg	UJ
51-10003	MD51-01-0007	11-12	ALLH	Nitroso-di-n-propylamine[N-]	0.34	mg/kg	UJ
51-10003	MD51-01-0007	11-12	ALLH	Benzoic acid	1.6	mg/kg	UJ
51-10003	MD51-01-0007	11-12	ALLH	Hexachloroethane	0.34	mg/kg	UJ
51-10003	MD51-01-0007	11-12	ALLH	Chlorophenyl-phenyl[4-] ether	0.34	mg/kg	UJ
51-10003	MD51-01-0007	11-12	ALLH	Hexachlorocyclopentadiene	1.6	mg/kg	UJ
51-10003	MD51-01-0007	11-12	ALLH	Isophorone	0.34	mg/kg	UJ

Table D-2.0-3 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Units	Report Qualifier
51-10003	MD51-01-0007	11-12	ALLH	Acenaphthene	0.34	mg/kg	UJ
51-10003	MD51-01-0007	11-12	ALLH	Diethylphthalate	0.34	mg/kg	UJ
51-10003	MD51-01-0007	11-12	ALLH	Di-n-butylphthalate	0.34	mg/kg	UJ
51-10003	MD51-01-0007	11-12	ALLH	Phenanthrene	0.34	mg/kg	UJ
51-10003	MD51-01-0007	11-12	ALLH	Butylbenzylphthalate	0.34	mg/kg	UJ
51-10003	MD51-01-0007	11-12	ALLH	Nitrosodiphenylamine[N-]	0.34	mg/kg	UJ
51-10003	MD51-01-0007	11-12	ALLH	Fluorene	0.34	mg/kg	UJ
51-10003	MD51-01-0007	11-12	ALLH	Hexachlorobutadiene	0.34	mg/kg	UJ
51-10003	MD51-01-0007	11-12	ALLH	Pentachlorophenol	1.6	mg/kg	UJ
51-10003	MD51-01-0007	11-12	ALLH	Trichlorophenol[2,4,6-]	0.34	mg/kg	UJ
51-10003	MD51-01-0007	11-12	ALLH	Nitroaniline[2-]	1.6	mg/kg	UJ
51-10003	MD51-01-0007	11-12	ALLH	Nitrophenol[2-]	0.34	mg/kg	UJ
51-10003	MD51-01-0007	11-12	ALLH	Naphthalene	0.34	mg/kg	UJ
51-10003	MD51-01-0007	11-12	ALLH	Methylnaphthalene[2-]	0.34	mg/kg	UJ
51-10003	MD51-01-0007	11-12	ALLH	Chloronaphthalene[2-]	0.34	mg/kg	UJ
51-10003	MD51-01-0007	11-12	ALLH	Dichlorobenzidine[3,3'-]	1.6	mg/kg	UJ
51-10003	MD51-01-0007	11-12	ALLH	Methylphenol[2-]	0.34	mg/kg	UJ
51-10003	MD51-01-0007	11-12	ALLH	Dichlorobenzene[1,2-]	0.34	mg/kg	UJ
51-10003	MD51-01-0007	11-12	ALLH	Chlorophenol[2-]	0.34	mg/kg	UJ
51-10003	MD51-01-0007	11-12	ALLH	Trichlorophenol[2,4,5-]	0.34	mg/kg	UJ
51-10003	MD51-01-0007	11-12	ALLH	Nitrobenzene	0.34	mg/kg	UJ
51-10003	MD51-01-0007	11-12	ALLH	Nitroaniline[3-]	1.6	mg/kg	UJ
51-10003	MD51-01-0007	11-12	ALLH	pH	7.24	SU	None
51-10003	MD51-01-0007	11-12	ALLH	Strontium-90	0.138	pCi/g	U
51-10003	MD51-01-0007	11-12	ALLH	Plutonium-238	0	pCi/g	U
51-10003	MD51-01-0007	11-12	ALLH	Plutonium-239	0.00266	pCi/g	U
51-10003	MD51-01-0007	11-12	ALLH	Americium-241	0.0274	pCi/g	U
51-10003	MD51-01-0007	11-12	ALLH	Cobalt-60	-0.00025	pCi/g	U
51-10003	MD51-01-0007	11-12	ALLH	Cesium-134	0.0107	pCi/g	U
51-10003	MD51-01-0007	11-12	ALLH	Cesium-137	0.0188	pCi/g	U
51-10003	MD51-01-0007	11-12	ALLH	Europium-152	0.00286	pCi/g	U
51-10003	MD51-01-0007	11-12	ALLH	Ruthenium-106	-0.0841	pCi/g	U
51-10003	MD51-01-0007	11-12	ALLH	Uranium-234	0.741	pCi/g	None
51-10003	MD51-01-0007	11-12	ALLH	Uranium-235	0.0389	pCi/g	J
51-10003	MD51-01-0007	11-12	ALLH	Uranium-238	0.73	pCi/g	None
51-10003	MD51-01-0007	11-12	ALLH	Tritium	346	pCi/L	U
51-10003	MD51-01-0008	12-13	Qbt 3	Ethylbenzene	0.0065	mg/kg	U
51-10003	MD51-01-0008	12-13	Qbt 3	Styrene	0.0065	mg/kg	U
51-10003	MD51-01-0008	12-13	Qbt 3	Dichloropropene[cis-1,3-]	0.0065	mg/kg	U
51-10003	MD51-01-0008	12-13	Qbt 3	Dichloropropene[trans-1,3-]	0.0065	mg/kg	U
51-10003	MD51-01-0008	12-13	Qbt 3	Propylbenzene[1-]	0.0065	mg/kg	U
51-10003	MD51-01-0008	12-13	Qbt 3	Butylbenzene[n-]	0.0065	mg/kg	U
51-10003	MD51-01-0008	12-13	Qbt 3	Chlorotoluene[4-]	0.0065	mg/kg	U
51-10003	MD51-01-0008	12-13	Qbt 3	Dichlorobenzene[1,4-]	0.0065	mg/kg	U
51-10003	MD51-01-0008	12-13	Qbt 3	Dibromoethane[1,2-]	0.0065	mg/kg	U
51-10003	MD51-01-0008	12-13	Qbt 3	Dichloroethane[1,2-]	0.0065	mg/kg	U

Table D-2.0-3 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Units	Report Qualifier
51-10003	MD51-01-0008	12–13	Qbt 3	Methyl-2-pentanone[4-]	0.026	mg/kg	U
51-10003	MD51-01-0008	12–13	Qbt 3	Trimethylbenzene[1,3,5-]	0.0065	mg/kg	U
51-10003	MD51-01-0008	12–13	Qbt 3	Bromobenzene	0.0065	mg/kg	U
51-10003	MD51-01-0008	12–13	Qbt 3	Toluene	0.0065	mg/kg	U
51-10003	MD51-01-0008	12–13	Qbt 3	Chlorobenzene	0.0065	mg/kg	U
51-10003	MD51-01-0008	12–13	Qbt 3	Chlorodibromomethane	0.0065	mg/kg	U
51-10003	MD51-01-0008	12–13	Qbt 3	Tetrachloroethene	0.0065	mg/kg	U
51-10003	MD51-01-0008	12–13	Qbt 3	Xylene (total)	0.0065	mg/kg	U
51-10003	MD51-01-0008	12–13	Qbt 3	Butylbenzene[sec-]	0.0065	mg/kg	U
51-10003	MD51-01-0008	12–13	Qbt 3	Dichloropropane[1,3-]	0.0065	mg/kg	U
51-10003	MD51-01-0008	12–13	Qbt 3	Trichlorotrifluoroethane	0.0065	mg/kg	U
51-10003	MD51-01-0008	12–13	Qbt 3	Dichloroethene[cis/trans-1,2-]	0.0065	mg/kg	U
51-10003	MD51-01-0008	12–13	Qbt 3	Dichlorobenzene[1,3-]	0.0065	mg/kg	U
51-10003	MD51-01-0008	12–13	Qbt 3	Carbon tetrachloride	0.0065	mg/kg	U
51-10003	MD51-01-0008	12–13	Qbt 3	Dichloropropene[1,1-]	0.0065	mg/kg	U
51-10003	MD51-01-0008	12–13	Qbt 3	Hexanone[2-]	0.026	mg/kg	U
51-10003	MD51-01-0008	12–13	Qbt 3	Dichloropropane[2,2-]	0.0065	mg/kg	U
51-10003	MD51-01-0008	12–13	Qbt 3	Tetrachloroethane[1,1,1,2-]	0.0065	mg/kg	U
51-10003	MD51-01-0008	12–13	Qbt 3	Acetone	0.026	mg/kg	UJ
51-10003	MD51-01-0008	12–13	Qbt 3	Chloroform	0.0065	mg/kg	U
51-10003	MD51-01-0008	12–13	Qbt 3	Benzene	0.0065	mg/kg	U
51-10003	MD51-01-0008	12–13	Qbt 3	Trichloroethane[1,1,1-]	0.0065	mg/kg	U
51-10003	MD51-01-0008	12–13	Qbt 3	Bromomethane	0.013	mg/kg	UJ
51-10003	MD51-01-0008	12–13	Qbt 3	Chloromethane	0.013	mg/kg	U
51-10003	MD51-01-0008	12–13	Qbt 3	Iodomethane	0.0065	mg/kg	U
51-10003	MD51-01-0008	12–13	Qbt 3	Dibromomethane	0.0065	mg/kg	U
51-10003	MD51-01-0008	12–13	Qbt 3	Bromochloromethane	0.0065	mg/kg	U
51-10003	MD51-01-0008	12–13	Qbt 3	Chloroethane	0.013	mg/kg	U
51-10003	MD51-01-0008	12–13	Qbt 3	Vinyl chloride	0.013	mg/kg	U
51-10003	MD51-01-0008	12–13	Qbt 3	Methylene chloride	0.0065	mg/kg	U
51-10003	MD51-01-0008	12–13	Qbt 3	Carbon disulfide	0.0065	mg/kg	U
51-10003	MD51-01-0008	12–13	Qbt 3	Bromoform	0.0065	mg/kg	U
51-10003	MD51-01-0008	12–13	Qbt 3	Bromodichloromethane	0.0065	mg/kg	U
51-10003	MD51-01-0008	12–13	Qbt 3	Dichloroethane[1,1-]	0.0065	mg/kg	U
51-10003	MD51-01-0008	12–13	Qbt 3	Dichloroethene[1,1-]	0.0065	mg/kg	U
51-10003	MD51-01-0008	12–13	Qbt 3	Trichlorofluoromethane	0.013	mg/kg	U
51-10003	MD51-01-0008	12–13	Qbt 3	Dichlorodifluoromethane	0.013	mg/kg	U
51-10003	MD51-01-0008	12–13	Qbt 3	Dichloropropane[1,2-]	0.0065	mg/kg	U
51-10003	MD51-01-0008	12–13	Qbt 3	Butanone[2-]	0.026	mg/kg	U
51-10003	MD51-01-0008	12–13	Qbt 3	Trichloroethane[1,1,2-]	0.0065	mg/kg	U
51-10003	MD51-01-0008	12–13	Qbt 3	Trichloroethene	0.0065	mg/kg	U
51-10003	MD51-01-0008	12–13	Qbt 3	Tetrachloroethane[1,1,2,2-]	0.0065	mg/kg	U
51-10003	MD51-01-0008	12–13	Qbt 3	Chlorotoluene[2-]	0.0065	mg/kg	U
51-10003	MD51-01-0008	12–13	Qbt 3	Dichlorobenzene[1,2-]	0.0065	mg/kg	U
51-10003	MD51-01-0008	12–13	Qbt 3	Trimethylbenzene[1,2,4-]	0.0065	mg/kg	U
51-10003	MD51-01-0008	12–13	Qbt 3	Dibromo-3-chloropropane[1,2-]	0.013	mg/kg	U

Table D-2.0-3 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Units	Report Qualifier
51-10003	MD51-01-0008	12–13	Qbt 3	Trichloropropane[1,2,3-]	0.0065	mg/kg	U
51-10003	MD51-01-0008	12–13	Qbt 3	Butylbenzene[tert-]	0.0065	mg/kg	U
51-10003	MD51-01-0008	12–13	Qbt 3	Isopropylbenzene	0.0065	mg/kg	U
51-10003	MD51-01-0008	12–13	Qbt 3	Isopropyltoluene[4-]	0.0065	mg/kg	U
51-10003	MD51-01-0008	12–13	Qbt 3	Nitroaniline[4-]	1.7	mg/kg	UJ
51-10003	MD51-01-0008	12–13	Qbt 3	Nitrophenol[4-]	1.7	mg/kg	UJ
51-10003	MD51-01-0008	12–13	Qbt 3	Benzyl alcohol	0.35	mg/kg	UJ
51-10003	MD51-01-0008	12–13	Qbt 3	Bromophenyl-phenylether[4-]	0.35	mg/kg	UJ
51-10003	MD51-01-0008	12–13	Qbt 3	Azobenzene	0.35	mg/kg	UJ
51-10003	MD51-01-0008	12–13	Qbt 3	Dimethylphenol[2,4-]	0.35	mg/kg	UJ
51-10003	MD51-01-0008	12–13	Qbt 3	Methylphenol[4-]	0.35	mg/kg	UJ
51-10003	MD51-01-0008	12–13	Qbt 3	Dichlorobenzene[1,4-]	0.35	mg/kg	UJ
51-10003	MD51-01-0008	12–13	Qbt 3	Chloroaniline[4-]	0.35	mg/kg	UJ
51-10003	MD51-01-0008	12–13	Qbt 3	Oxybis(1-chloropropane)[2,2'-]	0.35	mg/kg	UJ
51-10003	MD51-01-0008	12–13	Qbt 3	Phenol	0.35	mg/kg	UJ
51-10003	MD51-01-0008	12–13	Qbt 3	Bis(2-chloroethyl)ether	0.35	mg/kg	UJ
51-10003	MD51-01-0008	12–13	Qbt 3	Bis(2-chloroethoxy)methane	0.35	mg/kg	UJ
51-10003	MD51-01-0008	12–13	Qbt 3	Bis(2-ethylhexyl)phthalate	0.35	mg/kg	UJ
51-10003	MD51-01-0008	12–13	Qbt 3	Di-n-octylphthalate	0.35	mg/kg	UJ
51-10003	MD51-01-0008	12–13	Qbt 3	Hexachlorobenzene	0.35	mg/kg	UJ
51-10003	MD51-01-0008	12–13	Qbt 3	Anthracene	0.35	mg/kg	UJ
51-10003	MD51-01-0008	12–13	Qbt 3	Trichlorobenzene[1,2,4-]	0.35	mg/kg	UJ
51-10003	MD51-01-0008	12–13	Qbt 3	Dichlorophenol[2,4-]	0.35	mg/kg	UJ
51-10003	MD51-01-0008	12–13	Qbt 3	Dinitrotoluene[2,4-]	0.35	mg/kg	UJ
51-10003	MD51-01-0008	12–13	Qbt 3	Pyrene	0.35	mg/kg	UJ
51-10003	MD51-01-0008	12–13	Qbt 3	Dimethyl phthalate	0.35	mg/kg	UJ
51-10003	MD51-01-0008	12–13	Qbt 3	Dibenzofuran	0.35	mg/kg	UJ
51-10003	MD51-01-0008	12–13	Qbt 3	Benzo(g,h,i)perylene	0.35	mg/kg	UJ
51-10003	MD51-01-0008	12–13	Qbt 3	Indeno(1,2,3-cd)pyrene	0.35	mg/kg	UJ
51-10003	MD51-01-0008	12–13	Qbt 3	Benzo(b)fluoranthene	0.35	mg/kg	UJ
51-10003	MD51-01-0008	12–13	Qbt 3	Fluoranthene	0.35	mg/kg	UJ
51-10003	MD51-01-0008	12–13	Qbt 3	Benzo(k)fluoranthene	0.35	mg/kg	UJ
51-10003	MD51-01-0008	12–13	Qbt 3	Acenaphthylene	0.35	mg/kg	UJ
51-10003	MD51-01-0008	12–13	Qbt 3	Chrysene	0.35	mg/kg	UJ
51-10003	MD51-01-0008	12–13	Qbt 3	Benzo(a)pyrene	0.35	mg/kg	UJ
51-10003	MD51-01-0008	12–13	Qbt 3	Dinitrophenol[2,4-]	1.7	mg/kg	UJ
51-10003	MD51-01-0008	12–13	Qbt 3	Dibenz(a,h)anthracene	0.35	mg/kg	UJ
51-10003	MD51-01-0008	12–13	Qbt 3	Dinitro-2-methylphenol[4,6-]	1.7	mg/kg	UJ
51-10003	MD51-01-0008	12–13	Qbt 3	Dichlorobenzene[1,3-]	0.35	mg/kg	UJ
51-10003	MD51-01-0008	12–13	Qbt 3	Benzo(a)anthracene	0.35	mg/kg	UJ
51-10003	MD51-01-0008	12–13	Qbt 3	Chloro-3-methylphenol[4-]	0.35	mg/kg	UJ
51-10003	MD51-01-0008	12–13	Qbt 3	Dinitrotoluene[2,6-]	0.35	mg/kg	UJ
51-10003	MD51-01-0008	12–13	Qbt 3	Aniline	0.35	mg/kg	UJ
51-10003	MD51-01-0008	12–13	Qbt 3	Nitrosodimethylamine[N-]	0.35	mg/kg	UJ
51-10003	MD51-01-0008	12–13	Qbt 3	Nitroso-di-n-propylamine[N-]	0.35	mg/kg	UJ
51-10003	MD51-01-0008	12–13	Qbt 3	Benzoic acid	1.7	mg/kg	UJ

Table D-2.0-3 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Units	Report Qualifier
51-10003	MD51-01-0008	12–13	Qbt 3	Hexachloroethane	0.35	mg/kg	UJ
51-10003	MD51-01-0008	12–13	Qbt 3	Chlorophenyl-phenyl[4-] ether	0.35	mg/kg	UJ
51-10003	MD51-01-0008	12–13	Qbt 3	Hexachlorocyclopentadiene	1.7	mg/kg	UJ
51-10003	MD51-01-0008	12–13	Qbt 3	Isophorone	0.35	mg/kg	UJ
51-10003	MD51-01-0008	12–13	Qbt 3	Acenaphthene	0.35	mg/kg	UJ
51-10003	MD51-01-0008	12–13	Qbt 3	Diethylphthalate	0.35	mg/kg	UJ
51-10003	MD51-01-0008	12–13	Qbt 3	Di-n-butylphthalate	0.35	mg/kg	UJ
51-10003	MD51-01-0008	12–13	Qbt 3	Phenanthrene	0.35	mg/kg	UJ
51-10003	MD51-01-0008	12–13	Qbt 3	Butylbenzylphthalate	0.35	mg/kg	UJ
51-10003	MD51-01-0008	12–13	Qbt 3	Nitrosodiphenylamine[N-]	0.35	mg/kg	UJ
51-10003	MD51-01-0008	12–13	Qbt 3	Fluorene	0.35	mg/kg	UJ
51-10003	MD51-01-0008	12–13	Qbt 3	Hexachlorobutadiene	0.35	mg/kg	UJ
51-10003	MD51-01-0008	12–13	Qbt 3	Pentachlorophenol	1.7	mg/kg	UJ
51-10003	MD51-01-0008	12–13	Qbt 3	Trichlorophenol[2,4,6-]	0.35	mg/kg	UJ
51-10003	MD51-01-0008	12–13	Qbt 3	Nitroaniline[2-]	1.7	mg/kg	UJ
51-10003	MD51-01-0008	12–13	Qbt 3	Nitrophenol[2-]	0.35	mg/kg	UJ
51-10003	MD51-01-0008	12–13	Qbt 3	Naphthalene	0.35	mg/kg	UJ
51-10003	MD51-01-0008	12–13	Qbt 3	Methylnaphthalene[2-]	0.35	mg/kg	UJ
51-10003	MD51-01-0008	12–13	Qbt 3	Chloronaphthalene[2-]	0.35	mg/kg	UJ
51-10003	MD51-01-0008	12–13	Qbt 3	Dichlorobenzidine[3,3'-]	1.7	mg/kg	UJ
51-10003	MD51-01-0008	12–13	Qbt 3	Methylphenol[2-]	0.35	mg/kg	UJ
51-10003	MD51-01-0008	12–13	Qbt 3	Dichlorobenzene[1,2-]	0.35	mg/kg	UJ
51-10003	MD51-01-0008	12–13	Qbt 3	Chlorophenol[2-]	0.35	mg/kg	UJ
51-10003	MD51-01-0008	12–13	Qbt 3	Trichlorophenol[2,4,5-]	0.35	mg/kg	UJ
51-10003	MD51-01-0008	12–13	Qbt 3	Nitrobenzene	0.35	mg/kg	UJ
51-10003	MD51-01-0008	12–13	Qbt 3	Nitroaniline[3-]	1.7	mg/kg	UJ
51-10003	MD51-01-0008	12–13	Qbt 3	pH	7.77	SU	None
51-10003	MD51-01-0008	12–13	Qbt 3	Strontium-90	0.113	pCi/g	U
51-10003	MD51-01-0008	12–13	Qbt 3	Plutonium-238	-0.00116	pCi/g	U
51-10003	MD51-01-0008	12–13	Qbt 3	Plutonium-239	0	pCi/g	U
51-10003	MD51-01-0008	12–13	Qbt 3	Americium-241	0.0551	pCi/g	U
51-10003	MD51-01-0008	12–13	Qbt 3	Cobalt-60	0.00585	pCi/g	U
51-10003	MD51-01-0008	12–13	Qbt 3	Cesium-134	0.0371	pCi/g	U
51-10003	MD51-01-0008	12–13	Qbt 3	Cesium-137	0.0122	pCi/g	U
51-10003	MD51-01-0008	12–13	Qbt 3	Europium-152	0.024	pCi/g	U
51-10003	MD51-01-0008	12–13	Qbt 3	Ruthenium-106	-0.149	pCi/g	U
51-10003	MD51-01-0008	12–13	Qbt 3	Uranium-234	0.77	pCi/g	None
51-10003	MD51-01-0008	12–13	Qbt 3	Uranium-235	0.0226	pCi/g	J
51-10003	MD51-01-0008	12–13	Qbt 3	Uranium-238	0.815	pCi/g	None
51-10003	MD51-01-0008	12–13	Qbt 3	Tritium	12	pCi/L	U
51-10004	MD51-01-0009	11–12	ALLH	Ethylbenzene	0.005	mg/kg	U
51-10004	MD51-01-0009	11–12	ALLH	Styrene	0.005	mg/kg	U
51-10004	MD51-01-0009	11–12	ALLH	Dichloropropene[cis-1,3-]	0.005	mg/kg	U
51-10004	MD51-01-0009	11–12	ALLH	Dichloropropene[trans-1,3-]	0.005	mg/kg	U
51-10004	MD51-01-0009	11–12	ALLH	Propylbenzene[1-]	0.005	mg/kg	U
51-10004	MD51-01-0009	11–12	ALLH	Butylbenzene[n-]	0.005	mg/kg	U

Table D-2.0-3 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Units	Report Qualifier
51-10004	MD51-01-0009	11–12	ALLH	Chlorotoluene[4-]	0.005	mg/kg	U
51-10004	MD51-01-0009	11–12	ALLH	Dichlorobenzene[1,4-]	0.005	mg/kg	U
51-10004	MD51-01-0009	11–12	ALLH	Dibromoethane[1,2-]	0.005	mg/kg	U
51-10004	MD51-01-0009	11–12	ALLH	Dichloroethane[1,2-]	0.005	mg/kg	U
51-10004	MD51-01-0009	11–12	ALLH	Methyl-2-pentanone[4-]	0.02	mg/kg	U
51-10004	MD51-01-0009	11–12	ALLH	Trimethylbenzene[1,3,5-]	0.005	mg/kg	U
51-10004	MD51-01-0009	11–12	ALLH	Bromobenzene	0.005	mg/kg	U
51-10004	MD51-01-0009	11–12	ALLH	Toluene	0.005	mg/kg	U
51-10004	MD51-01-0009	11–12	ALLH	Chlorobenzene	0.005	mg/kg	U
51-10004	MD51-01-0009	11–12	ALLH	Chlorodibromomethane	0.005	mg/kg	U
51-10004	MD51-01-0009	11–12	ALLH	Tetrachloroethene	0.005	mg/kg	U
51-10004	MD51-01-0009	11–12	ALLH	Xylene (total)	0.005	mg/kg	U
51-10004	MD51-01-0009	11–12	ALLH	Butylbenzene[sec-]	0.005	mg/kg	U
51-10004	MD51-01-0009	11–12	ALLH	Dichloropropane[1,3-]	0.005	mg/kg	U
51-10004	MD51-01-0009	11–12	ALLH	Trichlorotrifluoroethane	0.005	mg/kg	U
51-10004	MD51-01-0009	11–12	ALLH	Dichloroethene[cis/trans-1,2-]	0.005	mg/kg	U
51-10004	MD51-01-0009	11–12	ALLH	Dichlorobenzene[1,3-]	0.005	mg/kg	U
51-10004	MD51-01-0009	11–12	ALLH	Carbon tetrachloride	0.005	mg/kg	U
51-10004	MD51-01-0009	11–12	ALLH	Dichloropropene[1,1-]	0.005	mg/kg	U
51-10004	MD51-01-0009	11–12	ALLH	Hexanone[2-]	0.02	mg/kg	U
51-10004	MD51-01-0009	11–12	ALLH	Dichloropropane[2,2-]	0.005	mg/kg	U
51-10004	MD51-01-0009	11–12	ALLH	Tetrachloroethane[1,1,1,2-]	0.005	mg/kg	U
51-10004	MD51-01-0009	11–12	ALLH	Acetone	0.02	mg/kg	UJ
51-10004	MD51-01-0009	11–12	ALLH	Chloroform	0.005	mg/kg	U
51-10004	MD51-01-0009	11–12	ALLH	Benzene	0.005	mg/kg	U
51-10004	MD51-01-0009	11–12	ALLH	Trichloroethane[1,1,1-]	0.005	mg/kg	U
51-10004	MD51-01-0009	11–12	ALLH	Bromomethane	0.01	mg/kg	UJ
51-10004	MD51-01-0009	11–12	ALLH	Chloromethane	0.01	mg/kg	U
51-10004	MD51-01-0009	11–12	ALLH	Iodomethane	0.005	mg/kg	U
51-10004	MD51-01-0009	11–12	ALLH	Dibromomethane	0.005	mg/kg	U
51-10004	MD51-01-0009	11–12	ALLH	Bromochloromethane	0.005	mg/kg	U
51-10004	MD51-01-0009	11–12	ALLH	Chloroethane	0.01	mg/kg	U
51-10004	MD51-01-0009	11–12	ALLH	Vinyl chloride	0.01	mg/kg	U
51-10004	MD51-01-0009	11–12	ALLH	Methylene chloride	0.005	mg/kg	U
51-10004	MD51-01-0009	11–12	ALLH	Carbon disulfide	0.005	mg/kg	U
51-10004	MD51-01-0009	11–12	ALLH	Bromoform	0.005	mg/kg	U
51-10004	MD51-01-0009	11–12	ALLH	Bromodichloromethane	0.005	mg/kg	U
51-10004	MD51-01-0009	11–12	ALLH	Dichloroethane[1,1-]	0.005	mg/kg	U
51-10004	MD51-01-0009	11–12	ALLH	Dichloroethene[1,1-]	0.005	mg/kg	U
51-10004	MD51-01-0009	11–12	ALLH	Trichlorofluoromethane	0.01	mg/kg	U
51-10004	MD51-01-0009	11–12	ALLH	Dichlorodifluoromethane	0.01	mg/kg	U
51-10004	MD51-01-0009	11–12	ALLH	Dichloropropane[1,2-]	0.005	mg/kg	U
51-10004	MD51-01-0009	11–12	ALLH	Butanone[2-]	0.02	mg/kg	U
51-10004	MD51-01-0009	11–12	ALLH	Trichloroethane[1,1,2-]	0.005	mg/kg	U
51-10004	MD51-01-0009	11–12	ALLH	Trichloroethene	0.005	mg/kg	U
51-10004	MD51-01-0009	11–12	ALLH	Tetrachloroethane[1,1,2,2-]	0.005	mg/kg	U

Table D-2.0-3 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Units	Report Qualifier
51-10004	MD51-01-0009	11-12	ALLH	Chlorotoluene[2-]	0.005	mg/kg	U
51-10004	MD51-01-0009	11-12	ALLH	Dichlorobenzene[1,2-]	0.005	mg/kg	U
51-10004	MD51-01-0009	11-12	ALLH	Trimethylbenzene[1,2,4-]	0.005	mg/kg	U
51-10004	MD51-01-0009	11-12	ALLH	Dibromo-3-chloropropane[1,2-]	0.01	mg/kg	U
51-10004	MD51-01-0009	11-12	ALLH	Trichloropropane[1,2,3-]	0.005	mg/kg	U
51-10004	MD51-01-0009	11-12	ALLH	Butylbenzene[tert-]	0.005	mg/kg	U
51-10004	MD51-01-0009	11-12	ALLH	Isopropylbenzene	0.005	mg/kg	U
51-10004	MD51-01-0009	11-12	ALLH	Isopropyltoluene[4-]	0.005	mg/kg	U
51-10004	MD51-01-0009	11-12	ALLH	Nitroaniline[4-]	1.6	mg/kg	U
51-10004	MD51-01-0009	11-12	ALLH	Nitrophenol[4-]	1.6	mg/kg	U
51-10004	MD51-01-0009	11-12	ALLH	Benzyl alcohol	0.34	mg/kg	U
51-10004	MD51-01-0009	11-12	ALLH	Bromophenyl-phenylether[4-]	0.34	mg/kg	U
51-10004	MD51-01-0009	11-12	ALLH	Azobenzene	0.34	mg/kg	U
51-10004	MD51-01-0009	11-12	ALLH	Dimethylphenol[2,4-]	0.34	mg/kg	U
51-10004	MD51-01-0009	11-12	ALLH	Methylphenol[4-]	0.34	mg/kg	U
51-10004	MD51-01-0009	11-12	ALLH	Dichlorobenzene[1,4-]	0.34	mg/kg	U
51-10004	MD51-01-0009	11-12	ALLH	Chloroaniline[4-]	0.34	mg/kg	U
51-10004	MD51-01-0009	11-12	ALLH	Oxybis(1-chloropropane)[2,2'-]	0.34	mg/kg	U
51-10004	MD51-01-0009	11-12	ALLH	Phenol	0.34	mg/kg	U
51-10004	MD51-01-0009	11-12	ALLH	Bis(2-chloroethyl)ether	0.34	mg/kg	U
51-10004	MD51-01-0009	11-12	ALLH	Bis(2-chloroethoxy)methane	0.34	mg/kg	U
51-10004	MD51-01-0009	11-12	ALLH	Bis(2-ethylhexyl)phthalate	0.34	mg/kg	U
51-10004	MD51-01-0009	11-12	ALLH	Di-n-octylphthalate	0.34	mg/kg	U
51-10004	MD51-01-0009	11-12	ALLH	Hexachlorobenzene	0.34	mg/kg	U
51-10004	MD51-01-0009	11-12	ALLH	Anthracene	0.34	mg/kg	U
51-10004	MD51-01-0009	11-12	ALLH	Trichlorobenzene[1,2,4-]	0.34	mg/kg	U
51-10004	MD51-01-0009	11-12	ALLH	Dichlorophenol[2,4-]	0.34	mg/kg	U
51-10004	MD51-01-0009	11-12	ALLH	Dinitrotoluene[2,4-]	0.34	mg/kg	U
51-10004	MD51-01-0009	11-12	ALLH	Pyrene	0.34	mg/kg	U
51-10004	MD51-01-0009	11-12	ALLH	Dimethyl phthalate	0.34	mg/kg	U
51-10004	MD51-01-0009	11-12	ALLH	Dibenzofuran	0.34	mg/kg	U
51-10004	MD51-01-0009	11-12	ALLH	Benzo(g,h,i)perylene	0.34	mg/kg	U
51-10004	MD51-01-0009	11-12	ALLH	Indeno(1,2,3-cd)pyrene	0.34	mg/kg	U
51-10004	MD51-01-0009	11-12	ALLH	Benzo(b)fluoranthene	0.34	mg/kg	U
51-10004	MD51-01-0009	11-12	ALLH	Fluoranthene	0.34	mg/kg	U
51-10004	MD51-01-0009	11-12	ALLH	Benzo(k)fluoranthene	0.34	mg/kg	U
51-10004	MD51-01-0009	11-12	ALLH	Acenaphthylene	0.34	mg/kg	U
51-10004	MD51-01-0009	11-12	ALLH	Chrysene	0.34	mg/kg	U
51-10004	MD51-01-0009	11-12	ALLH	Benzo(a)pyrene	0.34	mg/kg	U
51-10004	MD51-01-0009	11-12	ALLH	Dinitrophenol[2,4-]	1.6	mg/kg	U
51-10004	MD51-01-0009	11-12	ALLH	Dibenz(a,h)anthracene	0.34	mg/kg	U
51-10004	MD51-01-0009	11-12	ALLH	Dinitro-2-methylphenol[4,6-]	1.6	mg/kg	U
51-10004	MD51-01-0009	11-12	ALLH	Dichlorobenzene[1,3-]	0.34	mg/kg	U
51-10004	MD51-01-0009	11-12	ALLH	Benzo(a)anthracene	0.34	mg/kg	U
51-10004	MD51-01-0009	11-12	ALLH	Chloro-3-methylphenol[4-]	0.34	mg/kg	U
51-10004	MD51-01-0009	11-12	ALLH	Dinitrotoluene[2,6-]	0.34	mg/kg	U

Table D-2.0-3 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Units	Report Qualifier
51-10004	MD51-01-0009	11-12	ALLH	Aniline	0.34	mg/kg	U
51-10004	MD51-01-0009	11-12	ALLH	Nitrosodimethylamine[N-]	0.34	mg/kg	U
51-10004	MD51-01-0009	11-12	ALLH	Nitroso-di-n-propylamine[N-]	0.34	mg/kg	U
51-10004	MD51-01-0009	11-12	ALLH	Benzoic acid	1.6	mg/kg	U
51-10004	MD51-01-0009	11-12	ALLH	Hexachloroethane	0.34	mg/kg	U
51-10004	MD51-01-0009	11-12	ALLH	Chlorophenyl-phenyl[4-] ether	0.34	mg/kg	U
51-10004	MD51-01-0009	11-12	ALLH	Hexachlorocyclopentadiene	1.6	mg/kg	U
51-10004	MD51-01-0009	11-12	ALLH	Isophorone	0.34	mg/kg	U
51-10004	MD51-01-0009	11-12	ALLH	Acenaphthene	0.34	mg/kg	U
51-10004	MD51-01-0009	11-12	ALLH	Diethylphthalate	0.34	mg/kg	U
51-10004	MD51-01-0009	11-12	ALLH	Di-n-butylphthalate	0.34	mg/kg	U
51-10004	MD51-01-0009	11-12	ALLH	Phenanthrene	0.34	mg/kg	U
51-10004	MD51-01-0009	11-12	ALLH	Butylbenzylphthalate	0.34	mg/kg	U
51-10004	MD51-01-0009	11-12	ALLH	Nitrosodiphenylamine[N-]	0.34	mg/kg	U
51-10004	MD51-01-0009	11-12	ALLH	Fluorene	0.34	mg/kg	U
51-10004	MD51-01-0009	11-12	ALLH	Hexachlorobutadiene	0.34	mg/kg	U
51-10004	MD51-01-0009	11-12	ALLH	Pentachlorophenol	1.6	mg/kg	U
51-10004	MD51-01-0009	11-12	ALLH	Trichlorophenol[2,4,6-]	0.34	mg/kg	U
51-10004	MD51-01-0009	11-12	ALLH	Nitroaniline[2-]	1.6	mg/kg	U
51-10004	MD51-01-0009	11-12	ALLH	Nitrophenol[2-]	0.34	mg/kg	U
51-10004	MD51-01-0009	11-12	ALLH	Naphthalene	0.34	mg/kg	U
51-10004	MD51-01-0009	11-12	ALLH	Methylnaphthalene[2-]	0.34	mg/kg	U
51-10004	MD51-01-0009	11-12	ALLH	Chloronaphthalene[2-]	0.34	mg/kg	U
51-10004	MD51-01-0009	11-12	ALLH	Dichlorobenzidine[3,3'-]	1.6	mg/kg	U
51-10004	MD51-01-0009	11-12	ALLH	Methylphenol[2-]	0.34	mg/kg	U
51-10004	MD51-01-0009	11-12	ALLH	Dichlorobenzene[1,2-]	0.34	mg/kg	U
51-10004	MD51-01-0009	11-12	ALLH	Chlorophenol[2-]	0.34	mg/kg	U
51-10004	MD51-01-0009	11-12	ALLH	Trichlorophenol[2,4,5-]	0.34	mg/kg	U
51-10004	MD51-01-0009	11-12	ALLH	Nitrobenzene	0.34	mg/kg	U
51-10004	MD51-01-0009	11-12	ALLH	Nitroaniline[3-]	1.6	mg/kg	U
51-10004	MD51-01-0009	11-12	ALLH	pH	7.68	SU	None
51-10004	MD51-01-0009	11-12	ALLH	Strontium-90	0.155	pCi/g	U
51-10004	MD51-01-0009	11-12	ALLH	Plutonium-238	0	pCi/g	U
51-10004	MD51-01-0009	11-12	ALLH	Plutonium-239	0.00207	pCi/g	U
51-10004	MD51-01-0009	11-12	ALLH	Americium-241	0.0283	pCi/g	U
51-10004	MD51-01-0009	11-12	ALLH	Cobalt-60	-0.00927	pCi/g	U
51-10004	MD51-01-0009	11-12	ALLH	Cesium-134	0.00233	pCi/g	U
51-10004	MD51-01-0009	11-12	ALLH	Cesium-137	-0.00374	pCi/g	U
51-10004	MD51-01-0009	11-12	ALLH	Europium-152	-0.0202	pCi/g	U
51-10004	MD51-01-0009	11-12	ALLH	Ruthenium-106	0.0745	pCi/g	U
51-10004	MD51-01-0009	11-12	ALLH	Uranium-234	0.625	pCi/g	None
51-10004	MD51-01-0009	11-12	ALLH	Uranium-235	0.0172	pCi/g	U
51-10004	MD51-01-0009	11-12	ALLH	Uranium-238	0.638	pCi/g	None
51-10004	MD51-01-0009	11-12	ALLH	Tritium	765	pCi/L	U
51-10004	MD51-01-0010	12-13	Qbt 3	Ethylbenzene	0.006	mg/kg	UJ
51-10004	MD51-01-0010	12-13	Qbt 3	Styrene	0.006	mg/kg	UJ

Table D-2.0-3 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Units	Report Qualifier
51-10004	MD51-01-0010	12–13	Qbt 3	Dichloropropene[cis-1,3-]	0.006	mg/kg	UJ
51-10004	MD51-01-0010	12–13	Qbt 3	Dichloropropene[trans-1,3-]	0.006	mg/kg	UJ
51-10004	MD51-01-0010	12–13	Qbt 3	Propylbenzene[1-]	0.006	mg/kg	UJ
51-10004	MD51-01-0010	12–13	Qbt 3	Butylbenzene[n-]	0.006	mg/kg	UJ
51-10004	MD51-01-0010	12–13	Qbt 3	Chlorotoluene[4-]	0.006	mg/kg	UJ
51-10004	MD51-01-0010	12–13	Qbt 3	Dichlorobenzene[1,4-]	0.006	mg/kg	UJ
51-10004	MD51-01-0010	12–13	Qbt 3	Dibromoethane[1,2-]	0.006	mg/kg	UJ
51-10004	MD51-01-0010	12–13	Qbt 3	Dichloroethane[1,2-]	0.006	mg/kg	UJ
51-10004	MD51-01-0010	12–13	Qbt 3	Methyl-2-pentanone[4-]	0.024	mg/kg	UJ
51-10004	MD51-01-0010	12–13	Qbt 3	Trimethylbenzene[1,3,5-]	0.006	mg/kg	UJ
51-10004	MD51-01-0010	12–13	Qbt 3	Bromobenzene	0.006	mg/kg	UJ
51-10004	MD51-01-0010	12–13	Qbt 3	Toluene	0.006	mg/kg	UJ
51-10004	MD51-01-0010	12–13	Qbt 3	Chlorobenzene	0.006	mg/kg	UJ
51-10004	MD51-01-0010	12–13	Qbt 3	Chlorodibromomethane	0.006	mg/kg	UJ
51-10004	MD51-01-0010	12–13	Qbt 3	Tetrachloroethene	0.006	mg/kg	UJ
51-10004	MD51-01-0010	12–13	Qbt 3	Xylene (total)	0.006	mg/kg	UJ
51-10004	MD51-01-0010	12–13	Qbt 3	Butylbenzene[sec-]	0.006	mg/kg	UJ
51-10004	MD51-01-0010	12–13	Qbt 3	Dichloropropane[1,3-]	0.006	mg/kg	UJ
51-10004	MD51-01-0010	12–13	Qbt 3	Trichlorotrifluoroethane	0.006	mg/kg	UJ
51-10004	MD51-01-0010	12–13	Qbt 3	Dichloroethene[cis/trans-1,2-]	0.006	mg/kg	UJ
51-10004	MD51-01-0010	12–13	Qbt 3	Dichlorobenzene[1,3-]	0.006	mg/kg	UJ
51-10004	MD51-01-0010	12–13	Qbt 3	Carbon tetrachloride	0.006	mg/kg	UJ
51-10004	MD51-01-0010	12–13	Qbt 3	Dichloropropene[1,1-]	0.006	mg/kg	UJ
51-10004	MD51-01-0010	12–13	Qbt 3	Hexanone[2-]	0.024	mg/kg	UJ
51-10004	MD51-01-0010	12–13	Qbt 3	Dichloropropane[2,2-]	0.006	mg/kg	UJ
51-10004	MD51-01-0010	12–13	Qbt 3	Tetrachloroethane[1,1,1,2-]	0.006	mg/kg	UJ
51-10004	MD51-01-0010	12–13	Qbt 3	Acetone	0.024	mg/kg	UJ
51-10004	MD51-01-0010	12–13	Qbt 3	Chloroform	0.006	mg/kg	UJ
51-10004	MD51-01-0010	12–13	Qbt 3	Benzene	0.006	mg/kg	UJ
51-10004	MD51-01-0010	12–13	Qbt 3	Trichloroethane[1,1,1-]	0.006	mg/kg	UJ
51-10004	MD51-01-0010	12–13	Qbt 3	Bromomethane	0.012	mg/kg	UJ
51-10004	MD51-01-0010	12–13	Qbt 3	Chloromethane	0.012	mg/kg	UJ
51-10004	MD51-01-0010	12–13	Qbt 3	Iodomethane	0.006	mg/kg	UJ
51-10004	MD51-01-0010	12–13	Qbt 3	Dibromomethane	0.006	mg/kg	UJ
51-10004	MD51-01-0010	12–13	Qbt 3	Bromochloromethane	0.006	mg/kg	UJ
51-10004	MD51-01-0010	12–13	Qbt 3	Chloroethane	0.012	mg/kg	UJ
51-10004	MD51-01-0010	12–13	Qbt 3	Vinyl chloride	0.012	mg/kg	UJ
51-10004	MD51-01-0010	12–13	Qbt 3	Methylene chloride	0.006	mg/kg	UJ
51-10004	MD51-01-0010	12–13	Qbt 3	Carbon disulfide	0.006	mg/kg	UJ
51-10004	MD51-01-0010	12–13	Qbt 3	Bromoform	0.006	mg/kg	UJ
51-10004	MD51-01-0010	12–13	Qbt 3	Bromodichloromethane	0.006	mg/kg	UJ
51-10004	MD51-01-0010	12–13	Qbt 3	Dichloroethane[1,1-]	0.0006	mg/kg	UJ
51-10004	MD51-01-0010	12–13	Qbt 3	Dichloroethene[1,1-]	0.006	mg/kg	UJ
51-10004	MD51-01-0010	12–13	Qbt 3	Trichlorofluoromethane	0.012	mg/kg	UJ
51-10004	MD51-01-0010	12–13	Qbt 3	Dichlorodifluoromethane	0.012	mg/kg	UJ
51-10004	MD51-01-0010	12–13	Qbt 3	Dichloropropane[1,2-]	0.006	mg/kg	UJ

Table D-2.0-3 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Units	Report Qualifier
51-10004	MD51-01-0010	12-13	Qbt 3	Butanone[2-]	0.024	mg/kg	UJ
51-10004	MD51-01-0010	12-13	Qbt 3	Trichloroethane[1,1,2-]	0.006	mg/kg	UJ
51-10004	MD51-01-0010	12-13	Qbt 3	Trichloroethene	0.006	mg/kg	UJ
51-10004	MD51-01-0010	12-13	Qbt 3	Tetrachloroethane[1,1,2,2-]	0.006	mg/kg	UJ
51-10004	MD51-01-0010	12-13	Qbt 3	Chlorotoluene[2-]	0.006	mg/kg	UJ
51-10004	MD51-01-0010	12-13	Qbt 3	Dichlorobenzene[1,2-]	0.0006	mg/kg	UJ
51-10004	MD51-01-0010	12-13	Qbt 3	Trimethylbenzene[1,2,4-]	0.006	mg/kg	UJ
51-10004	MD51-01-0010	12-13	Qbt 3	Dibromo-3-chloropropane[1,2-]	0.012	mg/kg	UJ
51-10004	MD51-01-0010	12-13	Qbt 3	Trichloropropane[1,2,3-]	0.006	mg/kg	UJ
51-10004	MD51-01-0010	12-13	Qbt 3	Butylbenzene[tert-]	0.006	mg/kg	UJ
51-10004	MD51-01-0010	12-13	Qbt 3	Isopropylbenzene	0.006	mg/kg	UJ
51-10004	MD51-01-0010	12-13	Qbt 3	Isopropyltoluene[4-]	0.006	mg/kg	UJ
51-10004	MD51-01-0010	12-13	Qbt 3	Nitroaniline[4-]	1.7	mg/kg	UJ
51-10004	MD51-01-0010	12-13	Qbt 3	Nitrophenol[4-]	1.7	mg/kg	UJ
51-10004	MD51-01-0010	12-13	Qbt 3	Benzyl alcohol	0.35	mg/kg	UJ
51-10004	MD51-01-0010	12-13	Qbt 3	Bromophenyl-phenylether[4-]	0.35	mg/kg	UJ
51-10004	MD51-01-0010	12-13	Qbt 3	Azobenzene	0.35	mg/kg	UJ
51-10004	MD51-01-0010	12-13	Qbt 3	Dimethylphenol[2,4-]	0.35	mg/kg	UJ
51-10004	MD51-01-0010	12-13	Qbt 3	Methylphenol[4-]	0.35	mg/kg	UJ
51-10004	MD51-01-0010	12-13	Qbt 3	Dichlorobenzene[1,4-]	0.35	mg/kg	UJ
51-10004	MD51-01-0010	12-13	Qbt 3	Chloroaniline[4-]	0.35	mg/kg	UJ
51-10004	MD51-01-0010	12-13	Qbt 3	Oxybis(1-chloropropane)[2,2'-]	0.35	mg/kg	UJ
51-10004	MD51-01-0010	12-13	Qbt 3	Phenol	0.35	mg/kg	UJ
51-10004	MD51-01-0010	12-13	Qbt 3	Bis(2-chloroethyl)ether	0.35	mg/kg	UJ
51-10004	MD51-01-0010	12-13	Qbt 3	Bis(2-chloroethoxy)methane	0.35	mg/kg	UJ
51-10004	MD51-01-0010	12-13	Qbt 3	Bis(2-ethylhexyl)phthalate	0.35	mg/kg	UJ
51-10004	MD51-01-0010	12-13	Qbt 3	Di-n-octylphthalate	0.35	mg/kg	UJ
51-10004	MD51-01-0010	12-13	Qbt 3	Hexachlorobenzene	0.35	mg/kg	UJ
51-10004	MD51-01-0010	12-13	Qbt 3	Anthracene	0.35	mg/kg	UJ
51-10004	MD51-01-0010	12-13	Qbt 3	Trichlorobenzene[1,2,4-]	0.35	mg/kg	UJ
51-10004	MD51-01-0010	12-13	Qbt 3	Dichlorophenol[2,4-]	0.35	mg/kg	UJ
51-10004	MD51-01-0010	12-13	Qbt 3	Dinitrotoluene[2,4-]	0.35	mg/kg	UJ
51-10004	MD51-01-0010	12-13	Qbt 3	Pyrene	0.35	mg/kg	UJ
51-10004	MD51-01-0010	12-13	Qbt 3	Dimethyl phthalate	0.35	mg/kg	UJ
51-10004	MD51-01-0010	12-13	Qbt 3	Dibenzofuran	0.35	mg/kg	UJ
51-10004	MD51-01-0010	12-13	Qbt 3	Benzo(g,h,i)perylene	0.35	mg/kg	UJ
51-10004	MD51-01-0010	12-13	Qbt 3	Indeno(1,2,3-cd)pyrene	0.35	mg/kg	UJ
51-10004	MD51-01-0010	12-13	Qbt 3	Benzo(b)fluoranthene	0.35	mg/kg	UJ
51-10004	MD51-01-0010	12-13	Qbt 3	Fluoranthene	0.35	mg/kg	UJ
51-10004	MD51-01-0010	12-13	Qbt 3	Benzo(k)fluoranthene	0.35	mg/kg	UJ
51-10004	MD51-01-0010	12-13	Qbt 3	Acenaphthylene	0.35	mg/kg	UJ
51-10004	MD51-01-0010	12-13	Qbt 3	Chrysene	0.35	mg/kg	UJ
51-10004	MD51-01-0010	12-13	Qbt 3	Benzo(a)pyrene	0.35	mg/kg	UJ
51-10004	MD51-01-0010	12-13	Qbt 3	Dinitrophenol[2,4-]	1.7	mg/kg	UJ
51-10004	MD51-01-0010	12-13	Qbt 3	Dibenz(a,h)anthracene	0.35	mg/kg	UJ
51-10004	MD51-01-0010	12-13	Qbt 3	Dinitro-2-methylphenol[4,6-]	1.7	mg/kg	UJ

Table D-2.0-3 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Units	Report Qualifier
51-10004	MD51-01-0010	12-13	Qbt 3	Dichlorobenzene[1,3-]	0.35	mg/kg	UJ
51-10004	MD51-01-0010	12-13	Qbt 3	Benzo(a)anthracene	0.35	mg/kg	UJ
51-10004	MD51-01-0010	12-13	Qbt 3	Chloro-3-methylphenol[4-]	0.35	mg/kg	UJ
51-10004	MD51-01-0010	12-13	Qbt 3	Dinitrotoluene[2,6-]	0.35	mg/kg	UJ
51-10004	MD51-01-0010	12-13	Qbt 3	Aniline	0.35	mg/kg	UJ
51-10004	MD51-01-0010	12-13	Qbt 3	Nitrosodimethylamine[N-]	0.35	mg/kg	UJ
51-10004	MD51-01-0010	12-13	Qbt 3	Nitroso-di-n-propylamine[N-]	0.35	mg/kg	UJ
51-10004	MD51-01-0010	12-13	Qbt 3	Benzoic acid	1.7	mg/kg	UJ
51-10004	MD51-01-0010	12-13	Qbt 3	Hexachloroethane	0.35	mg/kg	UJ
51-10004	MD51-01-0010	12-13	Qbt 3	Chlorophenyl-phenyl[4-] ether	0.35	mg/kg	UJ
51-10004	MD51-01-0010	12-13	Qbt 3	Hexachlorocyclopentadiene	1.7	mg/kg	UJ
51-10004	MD51-01-0010	12-13	Qbt 3	Isophorone	0.35	mg/kg	UJ
51-10004	MD51-01-0010	12-13	Qbt 3	Acenaphthene	0.35	mg/kg	UJ
51-10004	MD51-01-0010	12-13	Qbt 3	Diethylphthalate	0.35	mg/kg	UJ
51-10004	MD51-01-0010	12-13	Qbt 3	Di-n-butylphthalate	0.35	mg/kg	UJ
51-10004	MD51-01-0010	12-13	Qbt 3	Phenanthrene	0.35	mg/kg	UJ
51-10004	MD51-01-0010	12-13	Qbt 3	Butylbenzylphthalate	0.35	mg/kg	UJ
51-10004	MD51-01-0010	12-13	Qbt 3	Nitrosodiphenylamine[N-]	0.35	mg/kg	UJ
51-10004	MD51-01-0010	12-13	Qbt 3	Fluorene	0.35	mg/kg	UJ
51-10004	MD51-01-0010	12-13	Qbt 3	Hexachlorobutadiene	0.35	mg/kg	UJ
51-10004	MD51-01-0010	12-13	Qbt 3	Pentachlorophenol	1.7	mg/kg	UJ
51-10004	MD51-01-0010	12-13	Qbt 3	Trichlorophenol[2,4,6-]	0.35	mg/kg	UJ
51-10004	MD51-01-0010	12-13	Qbt 3	Nitroaniline[2-]	1.7	mg/kg	UJ
51-10004	MD51-01-0010	12-13	Qbt 3	Nitrophenol[2-]	0.35	mg/kg	UJ
51-10004	MD51-01-0010	12-13	Qbt 3	Naphthalene	0.35	mg/kg	UJ
51-10004	MD51-01-0010	12-13	Qbt 3	Methylnaphthalene[2-]	0.35	mg/kg	UJ
51-10004	MD51-01-0010	12-13	Qbt 3	Chloronaphthalene[2-]	0.35	mg/kg	UJ
51-10004	MD51-01-0010	12-13	Qbt 3	Dichlorobenzidine[3,3'-]	1.7	mg/kg	UJ
51-10004	MD51-01-0010	12-13	Qbt 3	Methylphenol[2-]	0.35	mg/kg	UJ
51-10004	MD51-01-0010	12-13	Qbt 3	Dichlorobenzene[1,2-]	0.35	mg/kg	UJ
51-10004	MD51-01-0010	12-13	Qbt 3	Chlorophenol[2-]	0.35	mg/kg	UJ
51-10004	MD51-01-0010	12-13	Qbt 3	Trichlorophenol[2,4,5-]	0.35	mg/kg	UJ
51-10004	MD51-01-0010	12-13	Qbt 3	Nitrobenzene	0.35	mg/kg	UJ
51-10004	MD51-01-0010	12-13	Qbt 3	Nitroaniline[3-]	1.7	mg/kg	UJ
51-10004	MD51-01-0010	12-13	Qbt 3	pH	7.62	SU	None
51-10004	MD51-01-0010	12-13	Qbt 3	Strontium-90	0.109	pCi/g	U
51-10004	MD51-01-0010	12-13	Qbt 3	Plutonium-238	0	pCi/g	U
51-10004	MD51-01-0010	12-13	Qbt 3	Plutonium-239	-0.00063	pCi/g	U
51-10004	MD51-01-0010	12-13	Qbt 3	Americium-241	-0.00226	pCi/g	U
51-10004	MD51-01-0010	12-13	Qbt 3	Cobalt-60	-0.0146	pCi/g	U
51-10004	MD51-01-0010	12-13	Qbt 3	Cesium-134	0.000233	pCi/g	U
51-10004	MD51-01-0010	12-13	Qbt 3	Cesium-137	0.00276	pCi/g	U
51-10004	MD51-01-0010	12-13	Qbt 3	Europium-152	0.0406	pCi/g	U
51-10004	MD51-01-0010	12-13	Qbt 3	Ruthenium-106	-0.0404	pCi/g	U
51-10004	MD51-01-0010	12-13	Qbt 3	Uranium-234	0.863	pCi/g	None
51-10004	MD51-01-0010	12-13	Qbt 3	Uranium-235	0.0364	pCi/g	J

Table D-2.0-3 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Units	Report Qualifier
51-10004	MD51-01-0010	12–13	Qbt 3	Uranium-238	0.819	pCi/g	None
51-10004	MD51-01-0010	12–13	Qbt 3	Tritium	-61.3	pCi/L	U
51-10005	MD51-01-0011	11–12	ALLH	Ethylbenzene	0.0059	mg/kg	UJ
51-10005	MD51-01-0011	11–12	ALLH	Styrene	0.0059	mg/kg	UJ
51-10005	MD51-01-0011	11–12	ALLH	Dichloropropene[cis-1,3-]	0.0059	mg/kg	U
51-10005	MD51-01-0011	11–12	ALLH	Dichloropropene[trans-1,3-]	0.0059	mg/kg	U
51-10005	MD51-01-0011	11–12	ALLH	Propylbenzene[1-]	0.0059	mg/kg	U
51-10005	MD51-01-0011	11–12	ALLH	Butylbenzene[n-]	0.0059	mg/kg	U
51-10005	MD51-01-0011	11–12	ALLH	Chlorotoluene[4-]	0.0059	mg/kg	U
51-10005	MD51-01-0011	11–12	ALLH	Dichlorobenzene[1,4-]	0.0059	mg/kg	U
51-10005	MD51-01-0011	11–12	ALLH	Dibromoethane[1,2-]	0.0059	mg/kg	U
51-10005	MD51-01-0011	11–12	ALLH	Dichloroethane[1,2-]	0.0059	mg/kg	U
51-10005	MD51-01-0011	11–12	ALLH	Methyl-2-pentanone[4-]	0.024	mg/kg	U
51-10005	MD51-01-0011	11–12	ALLH	Trimethylbenzene[1,3,5-]	0.0059	mg/kg	U
51-10005	MD51-01-0011	11–12	ALLH	Bromobenzene	0.0059	mg/kg	U
51-10005	MD51-01-0011	11–12	ALLH	Toluene	0.0059	mg/kg	U
51-10005	MD51-01-0011	11–12	ALLH	Chlorobenzene	0.0059	mg/kg	UJ
51-10005	MD51-01-0011	11–12	ALLH	Chlorodibromomethane	0.0059	mg/kg	UJ
51-10005	MD51-01-0011	11–12	ALLH	Tetrachloroethene	0.0059	mg/kg	UJ
51-10005	MD51-01-0011	11–12	ALLH	Xylene (total)	0.0059	mg/kg	UJ
51-10005	MD51-01-0011	11–12	ALLH	Butylbenzene[sec-]	0.0059	mg/kg	U
51-10005	MD51-01-0011	11–12	ALLH	Dichloropropane[1,3-]	0.0059	mg/kg	UJ
51-10005	MD51-01-0011	11–12	ALLH	Trichlorotrifluoroethane	0.0059	mg/kg	U
51-10005	MD51-01-0011	11–12	ALLH	Dichloroethene[cis/trans-1,2-]	0.0059	mg/kg	U
51-10005	MD51-01-0011	11–12	ALLH	Dichlorobenzene[1,3-]	0.0059	mg/kg	U
51-10005	MD51-01-0011	11–12	ALLH	Carbon tetrachloride	0.0059	mg/kg	U
51-10005	MD51-01-0011	11–12	ALLH	Dichloropropene[1,1-]	0.0059	mg/kg	U
51-10005	MD51-01-0011	11–12	ALLH	Hexanone[2-]	0.024	mg/kg	UJ
51-10005	MD51-01-0011	11–12	ALLH	Dichloropropane[2,2-]	0.0059	mg/kg	U
51-10005	MD51-01-0011	11–12	ALLH	Tetrachloroethane[1,1,1,2-]	0.0059	mg/kg	UJ
51-10005	MD51-01-0011	11–12	ALLH	Acetone	0.024	mg/kg	UJ
51-10005	MD51-01-0011	11–12	ALLH	Chloroform	0.0059	mg/kg	U
51-10005	MD51-01-0011	11–12	ALLH	Benzene	0.0059	mg/kg	U
51-10005	MD51-01-0011	11–12	ALLH	Trichloroethane[1,1,1-]	0.0059	mg/kg	U
51-10005	MD51-01-0011	11–12	ALLH	Bromomethane	0.012	mg/kg	UJ
51-10005	MD51-01-0011	11–12	ALLH	Chloromethane	0.012	mg/kg	U
51-10005	MD51-01-0011	11–12	ALLH	Iodomethane	0.0059	mg/kg	U
51-10005	MD51-01-0011	11–12	ALLH	Dibromomethane	0.0059	mg/kg	U
51-10005	MD51-01-0011	11–12	ALLH	Bromochloromethane	0.0059	mg/kg	U
51-10005	MD51-01-0011	11–12	ALLH	Chloroethane	0.012	mg/kg	U
51-10005	MD51-01-0011	11–12	ALLH	Vinyl chloride	0.012	mg/kg	U
51-10005	MD51-01-0011	11–12	ALLH	Methylene chloride	0.0059	mg/kg	U
51-10005	MD51-01-0011	11–12	ALLH	Carbon disulfide	0.0059	mg/kg	U
51-10005	MD51-01-0011	11–12	ALLH	Bromoform	0.0059	mg/kg	UJ
51-10005	MD51-01-0011	11–12	ALLH	Bromodichloromethane	0.0059	mg/kg	U
51-10005	MD51-01-0011	11–12	ALLH	Dichloroethane[1,1-]	0.0059	mg/kg	U

Table D-2.0-3 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Units	Report Qualifier
51-10005	MD51-01-0011	11–12	ALLH	Dichloroethene[1,1-]	0.0059	mg/kg	U
51-10005	MD51-01-0011	11–12	ALLH	Trichlorofluoromethane	0.012	mg/kg	U
51-10005	MD51-01-0011	11–12	ALLH	Dichlorodifluoromethane	0.012	mg/kg	U
51-10005	MD51-01-0011	11–12	ALLH	Dichloropropane[1,2-]	0.0059	mg/kg	U
51-10005	MD51-01-0011	11–12	ALLH	Butanone[2-]	0.024	mg/kg	U
51-10005	MD51-01-0011	11–12	ALLH	Trichloroethane[1,1,2-]	0.0059	mg/kg	U
51-10005	MD51-01-0011	11–12	ALLH	Trichloroethene	0.0059	mg/kg	U
51-10005	MD51-01-0011	11–12	ALLH	Tetrachloroethane[1,1,2,2-]	0.0059	mg/kg	U
51-10005	MD51-01-0011	11–12	ALLH	Chlorotoluene[2-]	0.0059	mg/kg	U
51-10005	MD51-01-0011	11–12	ALLH	Dichlorobenzene[1,2-]	0.0059	mg/kg	U
51-10005	MD51-01-0011	11–12	ALLH	Trimethylbenzene[1,2,4-]	0.0059	mg/kg	U
51-10005	MD51-01-0011	11–12	ALLH	Dibromo-3-chloropropane[1,2-]	0.012	mg/kg	U
51-10005	MD51-01-0011	11–12	ALLH	Trichloropropane[1,2,3-]	0.0059	mg/kg	U
51-10005	MD51-01-0011	11–12	ALLH	Butylbenzene[tert-]	0.0059	mg/kg	U
51-10005	MD51-01-0011	11–12	ALLH	Isopropylbenzene	0.0059	mg/kg	U
51-10005	MD51-01-0011	11–12	ALLH	Isopropyltoluene[4-]	0.0059	mg/kg	U
51-10005	MD51-01-0011	11–12	ALLH	Nitroaniline[4-]	1.6	mg/kg	UJ
51-10005	MD51-01-0011	11–12	ALLH	Nitrophenol[4-]	1.6	mg/kg	UJ
51-10005	MD51-01-0011	11–12	ALLH	Benzyl alcohol	0.34	mg/kg	UJ
51-10005	MD51-01-0011	11–12	ALLH	Bromophenyl-phenylether[4-]	0.34	mg/kg	UJ
51-10005	MD51-01-0011	11–12	ALLH	Azobenzene	0.34	mg/kg	UJ
51-10005	MD51-01-0011	11–12	ALLH	Dimethylphenol[2,4-]	0.34	mg/kg	UJ
51-10005	MD51-01-0011	11–12	ALLH	Methylphenol[4-]	0.34	mg/kg	UJ
51-10005	MD51-01-0011	11–12	ALLH	Dichlorobenzene[1,4-]	0.34	mg/kg	UJ
51-10005	MD51-01-0011	11–12	ALLH	Chloroaniline[4-]	0.34	mg/kg	UJ
51-10005	MD51-01-0011	11–12	ALLH	Oxybis(1-chloropropane)[2,2'-]	0.34	mg/kg	UJ
51-10005	MD51-01-0011	11–12	ALLH	Phenol	0.34	mg/kg	UJ
51-10005	MD51-01-0011	11–12	ALLH	Bis(2-chloroethyl)ether	0.34	mg/kg	UJ
51-10005	MD51-01-0011	11–12	ALLH	Bis(2-chloroethoxy)methane	0.34	mg/kg	UJ
51-10005	MD51-01-0011	11–12	ALLH	Bis(2-ethylhexyl)phthalate	0.34	mg/kg	UJ
51-10005	MD51-01-0011	11–12	ALLH	Di-n-octylphthalate	0.34	mg/kg	UJ
51-10005	MD51-01-0011	11–12	ALLH	Hexachlorobenzene	0.34	mg/kg	UJ
51-10005	MD51-01-0011	11–12	ALLH	Anthracene	0.34	mg/kg	UJ
51-10005	MD51-01-0011	11–12	ALLH	Trichlorobenzene[1,2,4-]	0.34	mg/kg	UJ
51-10005	MD51-01-0011	11–12	ALLH	Dichlorophenol[2,4-]	0.34	mg/kg	UJ
51-10005	MD51-01-0011	11–12	ALLH	Dinitrotoluene[2,4-]	0.34	mg/kg	UJ
51-10005	MD51-01-0011	11–12	ALLH	Pyrene	0.34	mg/kg	UJ
51-10005	MD51-01-0011	11–12	ALLH	Dimethyl phthalate	0.34	mg/kg	UJ
51-10005	MD51-01-0011	11–12	ALLH	Dibenzofuran	0.34	mg/kg	UJ
51-10005	MD51-01-0011	11–12	ALLH	Benzo(g,h,i)perylene	0.34	mg/kg	UJ
51-10005	MD51-01-0011	11–12	ALLH	Indeno(1,2,3-cd)pyrene	0.34	mg/kg	UJ
51-10005	MD51-01-0011	11–12	ALLH	Benzo(b)fluoranthene	0.34	mg/kg	UJ
51-10005	MD51-01-0011	11–12	ALLH	Fluoranthene	0.34	mg/kg	UJ
51-10005	MD51-01-0011	11–12	ALLH	Benzo(k)fluoranthene	0.34	mg/kg	UJ
51-10005	MD51-01-0011	11–12	ALLH	Acenaphthylene	0.34	mg/kg	UJ
51-10005	MD51-01-0011	11–12	ALLH	Chrysene	0.34	mg/kg	UJ

Table D-2.0-3 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Units	Report Qualifier
51-10005	MD51-01-0011	11-12	ALLH	Benzo(a)pyrene	0.34	mg/kg	UJ
51-10005	MD51-01-0011	11-12	ALLH	Dinitrophenol[2,4-]	1.6	mg/kg	UJ
51-10005	MD51-01-0011	11-12	ALLH	Dibenz(a,h)anthracene	0.34	mg/kg	UJ
51-10005	MD51-01-0011	11-12	ALLH	Dinitro-2-methylphenol[4,6-]	1.6	mg/kg	UJ
51-10005	MD51-01-0011	11-12	ALLH	Dichlorobenzene[1,3-]	0.34	mg/kg	UJ
51-10005	MD51-01-0011	11-12	ALLH	Benzo(a)anthracene	0.34	mg/kg	UJ
51-10005	MD51-01-0011	11-12	ALLH	Chloro-3-methylphenol[4-]	0.34	mg/kg	UJ
51-10005	MD51-01-0011	11-12	ALLH	Dinitrotoluene[2,6-]	0.34	mg/kg	UJ
51-10005	MD51-01-0011	11-12	ALLH	Aniline	0.34	mg/kg	UJ
51-10005	MD51-01-0011	11-12	ALLH	Nitrosodimethylamine[N-]	0.34	mg/kg	UJ
51-10005	MD51-01-0011	11-12	ALLH	Nitroso-di-n-propylamine[N-]	0.34	mg/kg	UJ
51-10005	MD51-01-0011	11-12	ALLH	Benzoic acid	1.6	mg/kg	UJ
51-10005	MD51-01-0011	11-12	ALLH	Hexachloroethane	0.34	mg/kg	UJ
51-10005	MD51-01-0011	11-12	ALLH	Chlorophenyl-phenyl[4-] ether	0.34	mg/kg	UJ
51-10005	MD51-01-0011	11-12	ALLH	Hexachlorocyclopentadiene	1.6	mg/kg	UJ
51-10005	MD51-01-0011	11-12	ALLH	Isophorone	0.34	mg/kg	UJ
51-10005	MD51-01-0011	11-12	ALLH	Acenaphthene	0.34	mg/kg	UJ
51-10005	MD51-01-0011	11-12	ALLH	Diethylphthalate	0.34	mg/kg	UJ
51-10005	MD51-01-0011	11-12	ALLH	Di-n-butylphthalate	0.34	mg/kg	UJ
51-10005	MD51-01-0011	11-12	ALLH	Phenanthrene	0.34	mg/kg	UJ
51-10005	MD51-01-0011	11-12	ALLH	Butylbenzylphthalate	0.34	mg/kg	UJ
51-10005	MD51-01-0011	11-12	ALLH	Nitrosodiphenylamine[N-]	0.34	mg/kg	UJ
51-10005	MD51-01-0011	11-12	ALLH	Fluorene	0.34	mg/kg	UJ
51-10005	MD51-01-0011	11-12	ALLH	Hexachlorobutadiene	0.34	mg/kg	UJ
51-10005	MD51-01-0011	11-12	ALLH	Pentachlorophenol	1.6	mg/kg	UJ
51-10005	MD51-01-0011	11-12	ALLH	Trichlorophenol[2,4,6-]	0.34	mg/kg	UJ
51-10005	MD51-01-0011	11-12	ALLH	Nitroaniline[2-]	1.6	mg/kg	UJ
51-10005	MD51-01-0011	11-12	ALLH	Nitrophenol[2-]	0.34	mg/kg	UJ
51-10005	MD51-01-0011	11-12	ALLH	Naphthalene	0.34	mg/kg	UJ
51-10005	MD51-01-0011	11-12	ALLH	Methylnaphthalene[2-]	0.34	mg/kg	UJ
51-10005	MD51-01-0011	11-12	ALLH	Chloronaphthalene[2-]	0.34	mg/kg	UJ
51-10005	MD51-01-0011	11-12	ALLH	Dichlorobenzidine[3,3'-]	1.6	mg/kg	UJ
51-10005	MD51-01-0011	11-12	ALLH	Methylphenol[2-]	0.34	mg/kg	UJ
51-10005	MD51-01-0011	11-12	ALLH	Dichlorobenzene[1,2-]	0.34	mg/kg	UJ
51-10005	MD51-01-0011	11-12	ALLH	Chlorophenol[2-]	0.34	mg/kg	UJ
51-10005	MD51-01-0011	11-12	ALLH	Trichlorophenol[2,4,5-]	0.34	mg/kg	UJ
51-10005	MD51-01-0011	11-12	ALLH	Nitrobenzene	0.34	mg/kg	UJ
51-10005	MD51-01-0011	11-12	ALLH	Nitroaniline[3-]	1.6	mg/kg	UJ
51-10005	MD51-01-0011	11-12	ALLH	pH	8.8	SU	None
51-10005	MD51-01-0011	11-12	ALLH	Strontium-90	0.0765	pCi/g	U
51-10005	MD51-01-0011	11-12	ALLH	Americium-241	0.0111	pCi/g	U
51-10005	MD51-01-0011	11-12	ALLH	Cobalt-60	0.00179	pCi/g	U
51-10005	MD51-01-0011	11-12	ALLH	Cesium-134	-0.00904	pCi/g	U
51-10005	MD51-01-0011	11-12	ALLH	Cesium-137	0.00553	pCi/g	U
51-10005	MD51-01-0011	11-12	ALLH	Europium-152	-0.00123	pCi/g	U
51-10005	MD51-01-0011	11-12	ALLH	Ruthenium-106	-0.0648	pCi/g	U

Table D-2.0-3 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Units	Report Qualifier
51-10005	MD51-01-0011	11–12	ALLH	Uranium-234	0.715	pCi/g	None
51-10005	MD51-01-0011	11–12	ALLH	Uranium-235	0.0317	pCi/g	J
51-10005	MD51-01-0011	11–12	ALLH	Uranium-238	0.721	pCi/g	None
51-10005	MD51-01-0011	11–12	ALLH	Tritium	373	pCi/L	U
51-10005	MD51-01-0011	11–12	ALLH	Plutonium-238	0.012	pCi/g	U
51-10005	MD51-01-0011	11–12	ALLH	Plutonium-239	-0.00239	pCi/g	U
51-10005	MD51-01-0012	12–13	Qbt 3	Ethylbenzene	0.0061	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Styrene	0.0061	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Dichloropropene[cis-1,3-]	0.0061	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Dichloropropene[trans-1,3-]	0.0061	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Propylbenzene[1-]	0.0061	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Butylbenzene[n-]	0.0061	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Chlorotoluene[4-]	0.0061	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Dichlorobenzene[1,4-]	0.0061	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Dibromoethane[1,2-]	0.0061	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Dichloroethane[1,2-]	0.0061	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Methyl-2-pentanone[4-]	0.025	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Trimethylbenzene[1,3,5-]	0.0061	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Bromobenzene	0.0061	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Toluene	0.0061	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Chlorobenzene	0.0061	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Chlorodibromomethane	0.0061	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Tetrachloroethene	0.0061	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Xylene (total)	0.0061	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Butylbenzene[sec-]	0.0061	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Dichloropropane[1,3-]	0.0061	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Trichlorotrifluoroethane	0.0061	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Dichloroethene[cis/trans-1,2-]	0.0061	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Dichlorobenzene[1,3-]	0.0061	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Carbon tetrachloride	0.0061	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Dichloropropene[1,1-]	0.0061	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Hexanone[2-]	0.025	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Dichloropropane[2,2-]	0.0061	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Tetrachloroethane[1,1,1,2-]	0.0061	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Acetone	0.025	mg/kg	UJ
51-10005	MD51-01-0012	12–13	Qbt 3	Chloroform	0.0061	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Benzene	0.0061	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Trichloroethane[1,1,1-]	0.0061	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Bromomethane	0.012	mg/kg	UJ
51-10005	MD51-01-0012	12–13	Qbt 3	Chloromethane	0.012	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Iodomethane	0.0061	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Dibromomethane	0.0061	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Bromochloromethane	0.0061	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Chloroethane	0.012	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Vinyl chloride	0.012	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Methylene chloride	0.0061	mg/kg	U

Table D-2.0-3 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Units	Report Qualifier
51-10005	MD51-01-0012	12–13	Qbt 3	Carbon disulfide	0.0061	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Bromoform	0.0061	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Bromodichloromethane	0.0061	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Dichloroethane[1,1-]	0.0061	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Dichloroethene[1,1-]	0.0061	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Trichlorofluoromethane	0.012	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Dichlorodifluoromethane	0.012	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Dichloropropane[1,2-]	0.0061	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Butanone[2-]	0.025	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Trichloroethane[1,1,2-]	0.0061	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Trichloroethene	0.0061	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Tetrachloroethane[1,1,2,2-]	0.0061	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Chlorotoluene[2-]	0.0061	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Dichlorobenzene[1,2-]	0.0061	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Trimethylbenzene[1,2,4-]	0.0061	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Dibromo-3-chloropropane[1,2-]	0.012	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Trichloropropane[1,2,3-]	0.0061	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Butylbenzene[tert-]	0.0061	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Isopropylbenzene	0.0061	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Isopropyltoluene[4-]	0.0061	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Nitroaniline[4-]	2	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Nitrophenol[4-]	2	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Benzyl alcohol	0.4	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Bromophenyl-phenylether[4-]	0.4	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Azobenzene	0.4	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Dimethylphenol[2,4-]	0.4	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Methylphenol[4-]	0.4	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Dichlorobenzene[1,4-]	0.4	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Chloroaniline[4-]	0.4	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Oxybis(1-chloropropane)[2,2'-]	0.4	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Phenol	0.4	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Bis(2-chloroethyl)ether	0.4	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Bis(2-chloroethoxy)methane	0.4	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Bis(2-ethylhexyl)phthalate	0.4	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Di-n-octylphthalate	0.4	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Hexachlorobenzene	0.4	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Anthracene	0.4	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Trichlorobenzene[1,2,4-]	0.4	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Dichlorophenol[2,4-]	0.4	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Dinitrotoluene[2,4-]	0.4	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Pyrene	0.4	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Dimethyl phthalate	0.4	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Dibenzofuran	0.4	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Benzo(g,h,i)perylene	0.4	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Indeno(1,2,3-cd)pyrene	0.4	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Benzo(b)fluoranthene	0.4	mg/kg	U

Table D-2.0-3 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Units	Report Qualifier
51-10005	MD51-01-0012	12–13	Qbt 3	Fluoranthene	0.4	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Benzo(k)fluoranthene	0.4	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Acenaphthylene	0.4	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Chrysene	0.4	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Benzo(a)pyrene	0.4	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Dinitrophenol[2,4-]	2	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Dibenz(a,h)anthracene	0.4	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Dinitro-2-methylphenol[4,6-]	2	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Dichlorobenzene[1,3-]	0.4	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Benzo(a)anthracene	0.4	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Chloro-3-methylphenol[4-]	0.4	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Dinitrotoluene[2,6-]	0.4	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Aniline	0.4	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Nitrosodimethylamine[N-]	0.4	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Nitroso-di-n-propylamine[N-]	0.4	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Benzoic acid	2	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Hexachloroethane	0.4	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Chlorophenyl-phenyl[4-] ether	0.4	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Hexachlorocyclopentadiene	2	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Isophorone	0.4	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Acenaphthene	0.4	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Diethylphthalate	0.4	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Di-n-butylphthalate	0.4	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Phenanthrene	0.4	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Butylbenzylphthalate	0.4	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Nitrosodiphenylamine[N-]	0.4	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Fluorene	0.4	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Hexachlorobutadiene	0.4	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Pentachlorophenol	2	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Trichlorophenol[2,4,6-]	0.4	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Nitroaniline[2-]	2	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Nitrophenol[2-]	0.4	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Naphthalene	0.4	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Methylnaphthalene[2-]	0.4	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Chloronaphthalene[2-]	0.4	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Dichlorobenzidine[3,3'-]	2	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Methylphenol[2-]	0.4	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Dichlorobenzene[1,2-]	0.4	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Chlorophenol[2-]	0.4	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Trichlorophenol[2,4,5-]	0.4	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Nitrobenzene	0.4	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	Nitroaniline[3-]	2	mg/kg	U
51-10005	MD51-01-0012	12–13	Qbt 3	pH	8.17	SU	None
51-10005	MD51-01-0012	12–13	Qbt 3	Strontium-90	0.345	pCi/g	U
51-10005	MD51-01-0012	12–13	Qbt 3	Americium-241	-0.0239	pCi/g	U
51-10005	MD51-01-0012	12–13	Qbt 3	Cobalt-60	0.00042	pCi/g	U

Table D-2.0-3 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Units	Report Qualifier
51-10005	MD51-01-0012	12-13	Qbt 3	Cesium-134	-0.0213	pCi/g	U
51-10005	MD51-01-0012	12-13	Qbt 3	Cesium-137	-0.0195	pCi/g	U
51-10005	MD51-01-0012	12-13	Qbt 3	Europium-152	-0.0215	pCi/g	U
51-10005	MD51-01-0012	12-13	Qbt 3	Ruthenium-106	0.0129	pCi/g	U
51-10005	MD51-01-0012	12-13	Qbt 3	Uranium-234	0.973	pCi/g	None
51-10005	MD51-01-0012	12-13	Qbt 3	Uranium-235	0.042	pCi/g	J
51-10005	MD51-01-0012	12-13	Qbt 3	Uranium-238	0.878	pCi/g	None
51-10005	MD51-01-0012	12-13	Qbt 3	Tritium	109	pCi/L	U
51-10005	MD51-01-0012	12-13	Qbt 3	Plutonium-238	-0.00229	pCi/g	U
51-10005	MD51-01-0012	12-13	Qbt 3	Plutonium-239	-0.00344	pCi/g	U
51-10005	MD51-01-0015	11-12	ALLH	Ethylbenzene	0.005	mg/kg	U
51-10005	MD51-01-0015	11-12	ALLH	Styrene	0.005	mg/kg	U
51-10005	MD51-01-0015	11-12	ALLH	Dichloropropene[cis-1,3-]	0.005	mg/kg	U
51-10005	MD51-01-0015	11-12	ALLH	Dichloropropene[trans-1,3-]	0.005	mg/kg	U
51-10005	MD51-01-0015	11-12	ALLH	Propylbenzene[1-]	0.005	mg/kg	U
51-10005	MD51-01-0015	11-12	ALLH	Butylbenzene[n-]	0.005	mg/kg	U
51-10005	MD51-01-0015	11-12	ALLH	Chlorotoluene[4-]	0.005	mg/kg	U
51-10005	MD51-01-0015	11-12	ALLH	Dichlorobenzene[1,4-]	0.005	mg/kg	U
51-10005	MD51-01-0015	11-12	ALLH	Dibromoethane[1,2-]	0.005	mg/kg	U
51-10005	MD51-01-0015	11-12	ALLH	Dichloroethane[1,2-]	0.005	mg/kg	U
51-10005	MD51-01-0015	11-12	ALLH	Methyl-2-pentanone[4-]	0.02	mg/kg	U
51-10005	MD51-01-0015	11-12	ALLH	Trimethylbenzene[1,3,5-]	0.005	mg/kg	U
51-10005	MD51-01-0015	11-12	ALLH	Bromobenzene	0.005	mg/kg	U
51-10005	MD51-01-0015	11-12	ALLH	Toluene	0.005	mg/kg	U
51-10005	MD51-01-0015	11-12	ALLH	Chlorobenzene	0.005	mg/kg	U
51-10005	MD51-01-0015	11-12	ALLH	Chlorodibromomethane	0.005	mg/kg	U
51-10005	MD51-01-0015	11-12	ALLH	Tetrachloroethene	0.005	mg/kg	U
51-10005	MD51-01-0015	11-12	ALLH	Xylene (total)	0.005	mg/kg	U
51-10005	MD51-01-0015	11-12	ALLH	Butylbenzene[sec-]	0.005	mg/kg	U
51-10005	MD51-01-0015	11-12	ALLH	Dichloropropane[1,3-]	0.005	mg/kg	U
51-10005	MD51-01-0015	11-12	ALLH	Trichlorotrifluoroethane	0.005	mg/kg	U
51-10005	MD51-01-0015	11-12	ALLH	Dichloroethene[cis/trans-1,2-]	0.005	mg/kg	U
51-10005	MD51-01-0015	11-12	ALLH	Dichlorobenzene[1,3-]	0.005	mg/kg	U
51-10005	MD51-01-0015	11-12	ALLH	Carbon tetrachloride	0.005	mg/kg	U
51-10005	MD51-01-0015	11-12	ALLH	Dichloropropene[1,1-]	0.005	mg/kg	U
51-10005	MD51-01-0015	11-12	ALLH	Hexanone[2-]	0.02	mg/kg	U
51-10005	MD51-01-0015	11-12	ALLH	Dichloropropane[2,2-]	0.005	mg/kg	U
51-10005	MD51-01-0015	11-12	ALLH	Tetrachloroethane[1,1,1,2-]	0.005	mg/kg	U
51-10005	MD51-01-0015	11-12	ALLH	Acetone	0.01	mg/kg	J
51-10005	MD51-01-0015	11-12	ALLH	Chloroform	0.005	mg/kg	U
51-10005	MD51-01-0015	11-12	ALLH	Benzene	0.005	mg/kg	U
51-10005	MD51-01-0015	11-12	ALLH	Trichloroethane[1,1,1-]	0.005	mg/kg	U
51-10005	MD51-01-0015	11-12	ALLH	Bromomethane	0.0099	mg/kg	UJ
51-10005	MD51-01-0015	11-12	ALLH	Chloromethane	0.0099	mg/kg	U
51-10005	MD51-01-0015	11-12	ALLH	Iodomethane	0.005	mg/kg	U
51-10005	MD51-01-0015	11-12	ALLH	Dibromomethane	0.005	mg/kg	U

Table D-2.0-3 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Units	Report Qualifier
51-10005	MD51-01-0015	11-12	ALLH	Bromochloromethane	0.005	mg/kg	U
51-10005	MD51-01-0015	11-12	ALLH	Chloroethane	0.0099	mg/kg	U
51-10005	MD51-01-0015	11-12	ALLH	Vinyl chloride	0.0099	mg/kg	U
51-10005	MD51-01-0015	11-12	ALLH	Methylene chloride	0.005	mg/kg	U
51-10005	MD51-01-0015	11-12	ALLH	Carbon disulfide	0.005	mg/kg	U
51-10005	MD51-01-0015	11-12	ALLH	Bromoform	0.002	mg/kg	U
51-10005	MD51-01-0015	11-12	ALLH	Bromodichloromethane	0.005	mg/kg	U
51-10005	MD51-01-0015	11-12	ALLH	Dichloroethane[1,1-]	0.005	mg/kg	U
51-10005	MD51-01-0015	11-12	ALLH	Dichloroethene[1,1-]	0.005	mg/kg	U
51-10005	MD51-01-0015	11-12	ALLH	Trichlorofluoromethane	0.0099	mg/kg	U
51-10005	MD51-01-0015	11-12	ALLH	Dichlorodifluoromethane	0.0099	mg/kg	U
51-10005	MD51-01-0015	11-12	ALLH	Dichloropropane[1,2-]	0.005	mg/kg	U
51-10005	MD51-01-0015	11-12	ALLH	Butanone[2-]	0.02	mg/kg	U
51-10005	MD51-01-0015	11-12	ALLH	Trichloroethane[1,1,2-]	0.005	mg/kg	U
51-10005	MD51-01-0015	11-12	ALLH	Trichloroethene	0.005	mg/kg	U
51-10005	MD51-01-0015	11-12	ALLH	Tetrachloroethane[1,1,2,2-]	0.005	mg/kg	U
51-10005	MD51-01-0015	11-12	ALLH	Chlorotoluene[2-]	0.005	mg/kg	U
51-10005	MD51-01-0015	11-12	ALLH	Dichlorobenzene[1,2-]	0.005	mg/kg	U
51-10005	MD51-01-0015	11-12	ALLH	Trimethylbenzene[1,2,4-]	0.0015	mg/kg	J
51-10005	MD51-01-0015	11-12	ALLH	Dibromo-3-chloropropane[1,2-]	0.0099	mg/kg	U
51-10005	MD51-01-0015	11-12	ALLH	Trichloropropane[1,2,3-]	0.005	mg/kg	U
51-10005	MD51-01-0015	11-12	ALLH	Butylbenzene[tert-]	0.005	mg/kg	U
51-10005	MD51-01-0015	11-12	ALLH	Isopropylbenzene	0.005	mg/kg	U
51-10005	MD51-01-0015	11-12	ALLH	Isopropyltoluene[4-]	0.005	mg/kg	U
51-10005	MD51-01-0015	11-12	ALLH	Nitroaniline[4-]	1.6	mg/kg	U
51-10005	MD51-01-0015	11-12	ALLH	Nitrophenol[4-]	1.6	mg/kg	U
51-10005	MD51-01-0015	11-12	ALLH	Benzyl alcohol	0.34	mg/kg	U
51-10005	MD51-01-0015	11-12	ALLH	Bromophenyl-phenylether[4-]	0.34	mg/kg	U
51-10005	MD51-01-0015	11-12	ALLH	Azobenzene	0.34	mg/kg	U
51-10005	MD51-01-0015	11-12	ALLH	Dimethylphenol[2,4-]	0.34	mg/kg	U
51-10005	MD51-01-0015	11-12	ALLH	Methylphenol[4-]	0.34	mg/kg	U
51-10005	MD51-01-0015	11-12	ALLH	Dichlorobenzene[1,4-]	0.34	mg/kg	U
51-10005	MD51-01-0015	11-12	ALLH	Chloroaniline[4-]	0.34	mg/kg	U
51-10005	MD51-01-0015	11-12	ALLH	Oxybis(1-chloropropane)[2,2'-]	0.34	mg/kg	U
51-10005	MD51-01-0015	11-12	ALLH	Phenol	0.34	mg/kg	U
51-10005	MD51-01-0015	11-12	ALLH	Bis(2-chloroethyl)ether	0.34	mg/kg	U
51-10005	MD51-01-0015	11-12	ALLH	Bis(2-chloroethoxy)methane	0.34	mg/kg	U
51-10005	MD51-01-0015	11-12	ALLH	Bis(2-ethylhexyl)phthalate	0.34	mg/kg	U
51-10005	MD51-01-0015	11-12	ALLH	Di-n-octylphthalate	0.34	mg/kg	U
51-10005	MD51-01-0015	11-12	ALLH	Hexachlorobenzene	0.34	mg/kg	U
51-10005	MD51-01-0015	11-12	ALLH	Anthracene	0.34	mg/kg	U
51-10005	MD51-01-0015	11-12	ALLH	Trichlorobenzene[1,2,4-]	0.34	mg/kg	U
51-10005	MD51-01-0015	11-12	ALLH	Dichlorophenol[2,4-]	0.34	mg/kg	U
51-10005	MD51-01-0015	11-12	ALLH	Dinitrotoluene[2,4-]	0.34	mg/kg	U
51-10005	MD51-01-0015	11-12	ALLH	Pyrene	0.34	mg/kg	U
51-10005	MD51-01-0015	11-12	ALLH	Dimethyl phthalate	0.34	mg/kg	U

Table D-2.0-3 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Units	Report Qualifier
51-10005	MD51-01-0015	11–12	ALLH	Dibenzofuran	0.34	mg/kg	U
51-10005	MD51-01-0015	11–12	ALLH	Benzo(g,h,i)perylene	0.34	mg/kg	U
51-10005	MD51-01-0015	11–12	ALLH	Indeno(1,2,3-cd)pyrene	0.34	mg/kg	U
51-10005	MD51-01-0015	11–12	ALLH	Benzo(b)fluoranthene	0.34	mg/kg	U
51-10005	MD51-01-0015	11–12	ALLH	Fluoranthene	0.34	mg/kg	U
51-10005	MD51-01-0015	11–12	ALLH	Benzo(k)fluoranthene	0.34	mg/kg	U
51-10005	MD51-01-0015	11–12	ALLH	Acenaphthylene	0.34	mg/kg	U
51-10005	MD51-01-0015	11–12	ALLH	Chrysene	0.34	mg/kg	U
51-10005	MD51-01-0015	11–12	ALLH	Benzo(a)pyrene	0.34	mg/kg	U
51-10005	MD51-01-0015	11–12	ALLH	Dinitrophenol[2,4-]	1.6	mg/kg	U
51-10005	MD51-01-0015	11–12	ALLH	Dibenz(a,h)anthracene	0.34	mg/kg	U
51-10005	MD51-01-0015	11–12	ALLH	Dinitro-2-methylphenol[4,6-]	1.6	mg/kg	U
51-10005	MD51-01-0015	11–12	ALLH	Dichlorobenzene[1,3-]	0.34	mg/kg	U
51-10005	MD51-01-0015	11–12	ALLH	Benzo(a)anthracene	0.34	mg/kg	U
51-10005	MD51-01-0015	11–12	ALLH	Chloro-3-methylphenol[4-]	0.34	mg/kg	U
51-10005	MD51-01-0015	11–12	ALLH	Dinitrotoluene[2,6-]	0.34	mg/kg	U
51-10005	MD51-01-0015	11–12	ALLH	Aniline	0.34	mg/kg	U
51-10005	MD51-01-0015	11–12	ALLH	Nitrosodimethylamine[N-]	0.34	mg/kg	U
51-10005	MD51-01-0015	11–12	ALLH	Nitroso-di-n-propylamine[N-]	0.34	mg/kg	U
51-10005	MD51-01-0015	11–12	ALLH	Benzoic acid	1.6	mg/kg	U
51-10005	MD51-01-0015	11–12	ALLH	Hexachloroethane	0.34	mg/kg	U
51-10005	MD51-01-0015	11–12	ALLH	Chlorophenyl-phenyl[4-] ether	0.34	mg/kg	U
51-10005	MD51-01-0015	11–12	ALLH	Hexachlorocyclopentadiene	1.6	mg/kg	U
51-10005	MD51-01-0015	11–12	ALLH	Isophorone	0.34	mg/kg	U
51-10005	MD51-01-0015	11–12	ALLH	Acenaphthene	0.34	mg/kg	U
51-10005	MD51-01-0015	11–12	ALLH	Diethylphthalate	0.34	mg/kg	U
51-10005	MD51-01-0015	11–12	ALLH	Di-n-butylphthalate	0.34	mg/kg	U
51-10005	MD51-01-0015	11–12	ALLH	Phenanthrene	0.34	mg/kg	U
51-10005	MD51-01-0015	11–12	ALLH	Butylbenzylphthalate	0.34	mg/kg	U
51-10005	MD51-01-0015	11–12	ALLH	Nitrosodiphenylamine[N-]	0.34	mg/kg	U
51-10005	MD51-01-0015	11–12	ALLH	Fluorene	0.34	mg/kg	U
51-10005	MD51-01-0015	11–12	ALLH	Hexachlorobutadiene	0.34	mg/kg	U
51-10005	MD51-01-0015	11–12	ALLH	Pentachlorophenol	1.6	mg/kg	U
51-10005	MD51-01-0015	11–12	ALLH	Trichlorophenol[2,4,6-]	0.34	mg/kg	U
51-10005	MD51-01-0015	11–12	ALLH	Nitroaniline[2-]	1.6	mg/kg	U
51-10005	MD51-01-0015	11–12	ALLH	Nitrophenol[2-]	0.34	mg/kg	U
51-10005	MD51-01-0015	11–12	ALLH	Naphthalene	0.34	mg/kg	U
51-10005	MD51-01-0015	11–12	ALLH	Methylnaphthalene[2-]	0.34	mg/kg	U
51-10005	MD51-01-0015	11–12	ALLH	Chloronaphthalene[2-]	0.34	mg/kg	U
51-10005	MD51-01-0015	11–12	ALLH	Dichlorobenzidine[3,3'-]	1.6	mg/kg	U
51-10005	MD51-01-0015	11–12	ALLH	Methylphenol[2-]	0.34	mg/kg	U
51-10005	MD51-01-0015	11–12	ALLH	Dichlorobenzene[1,2-]	0.34	mg/kg	U
51-10005	MD51-01-0015	11–12	ALLH	Chlorophenol[2-]	0.34	mg/kg	U
51-10005	MD51-01-0015	11–12	ALLH	Trichlorophenol[2,4,5-]	0.34	mg/kg	U
51-10005	MD51-01-0015	11–12	ALLH	Nitrobenzene	0.34	mg/kg	U
51-10005	MD51-01-0015	11–12	ALLH	Nitroaniline[3-]	1.6	mg/kg	U

Table D-2.0-3 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result	Units	Report Qualifier
51-10005	MD51-01-0015	11–12	ALLH	pH	8.08	SU	None
51-10005	MD51-01-0015	11–12	ALLH	Strontium-90	-0.00367	pCi/g	U
51-10005	MD51-01-0015	11–12	ALLH	Plutonium-238	0.00215	pCi/g	U
51-10005	MD51-01-0015	11–12	ALLH	Plutonium-239	-0.00072	pCi/g	U
51-10005	MD51-01-0015	11–12	ALLH	Americium-241	-0.00968	pCi/g	U
51-10005	MD51-01-0015	11–12	ALLH	Cobalt-60	0.00914	pCi/g	U
51-10005	MD51-01-0015	11–12	ALLH	Cesium-134	0.0048	pCi/g	U
51-10005	MD51-01-0015	11–12	ALLH	Cesium-137	0.0128	pCi/g	U
51-10005	MD51-01-0015	11–12	ALLH	Europium-152	0.00697	pCi/g	U
51-10005	MD51-01-0015	11–12	ALLH	Ruthenium-106	-0.0466	pCi/g	U
51-10005	MD51-01-0015	11–12	ALLH	Uranium-234	0.697	pCi/g	None
51-10005	MD51-01-0015	11–12	ALLH	Uranium-235	0.0289	pCi/g	U
51-10005	MD51-01-0015	11–12	ALLH	Uranium-238	0.675	pCi/g	None
51-10005	MD51-01-0015	11–12	ALLH	Tritium	594	pCi/L	None

Table D-2.0-4
Analytical Results for PRS 54-007(d) from the 2001 VCA

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15425	MD54-01-0054	10.5–11.5	ALLH[a]	pH	8.4[b]	None
54-15425	MD54-01-0054	10.5–11.5	ALLH	Dichlorobenzene[1,4-]	0.0056	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Dichloropropane[2,2-]	0.0056	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Butanone[2-]	0.022	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Chlorotoluene[2-]	0.0056	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Hexanone[2-]	0.022	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Chlorotoluene[4-]	0.0056	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Isopropyltoluene[4-]	0.0056	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Methyl-2-pentanone[4-]	0.022	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Acetone	0.012	J
54-15425	MD54-01-0054	10.5–11.5	ALLH	Benzene	0.0056	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Bromobenzene	0.0056	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Bromochloromethane	0.0056	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Bromodichloromethane	0.0056	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Bromoform	0.0056	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Bromomethane	0.011	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Carbon disulfide	0.0056	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Carbon tetrachloride	0.0056	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Chlorobenzene	0.0056	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Chlorodibromomethane	0.0056	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Chloroethane	0.011	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Chloroform	0.0056	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Chloromethane	0.011	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Dichloropropene[cis-1,3-]	0.0056	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Dibromomethane	0.0056	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Dichlorodifluoromethane	0.011	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Trichlorobenzene[1,2,4-]	0.39	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Dichlorobenzene[1,2-]	0.39	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Dichlorobenzene[1,3-]	0.39	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Dichlorobenzene[1,4-]	0.39	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Oxybis(1-chloropropane)[2,2'-]	0.39	UJ
54-15425	MD54-01-0054	10.5–11.5	ALLH	Trichlorophenol[2,4,5-]	0.39	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Trichlorophenol[2,4,6-]	0.39	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Nitroso-di-n-propylamine[N-]	0.39	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Nitrosodimethylamine[N-]	0.39	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Nitrosodiphenylamine[N-]	0.39	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Naphthalene	0.39	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Nitrobenzene	0.39	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Pentachlorophenol	1.9	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Phenanthrene	0.39	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Phenol	0.39	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Pyrene	0.39	U

[a] ALLH = all horizons soils.

[b] The unit for this analyte is a standard unit.

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15425	MD54-01-0054	10.5–11.5	ALLH	Dichlorophenol[2,4-]	0.39	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Dimethylphenol[2,4-]	0.39	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Dinitrophenol[2,4-]	1.9	UJ
54-15425	MD54-01-0054	10.5–11.5	ALLH	Dinitrotoluene[2,4-]	0.39	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Dinitrotoluene[2,6-]	0.39	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Chloronaphthalene[2-]	0.39	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Chlorophenol[2-]	0.39	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Methylnaphthalene[2-]	0.39	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Methylphenol[2-]	0.39	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Nitroaniline[2-]	1.9	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Nitrophenol[2-]	0.39	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Dichlorobenzidine[3,3'-]	1.9	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Nitroaniline[3-]	1.9	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Dinitro-2-methylphenol[4,6-]	1.9	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Bromophenyl-phenylether[4-]	0.39	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Chloro-3-methylphenol[4-]	0.39	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Chloroaniline[4-]	0.39	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Chlorophenyl-phenyl[4-] ether	0.39	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Methylphenol[4-]	0.39	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Nitroaniline[4-]	1.9	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Nitrophenol[4-]	1.9	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Dichloroethane[1,2-]	0.0056	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Dichloroethene[cis/trans-1,2-]	0.0056	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Dichloropropane[1,2-]	0.0056	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Trimethylbenzene[1,3,5-]	0.0056	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Dichloropropane[1,3-]	0.0056	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Dichlorobenzene[1,3-]	0.0056	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Ethylbenzene	0.0056	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Iodomethane	0.0056	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Isopropylbenzene	0.0056	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Methylene chloride	0.0056	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Butylbenzene[n-]	0.0056	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Propylbenzene[1-]	0.0056	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Butylbenzene[sec-]	0.0056	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Styrene	0.0056	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Butylbenzene[tert-]	0.0056	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Tetrachloroethene	0.0056	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Toluene	0.0056	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Dichloropropene[trans-1,3-]	0.0056	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Trichloroethene	0.0056	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Trichlorofluoromethane	0.011	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Trichlorotrifluoroethane	0.0056	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Vinyl chloride	0.011	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Xylene (total)	0.0056	U

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15425	MD54-01-0054	10.5–11.5	ALLH	Acenaphthene	0.39	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Acenaphthylene	0.39	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Aniline	0.39	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Anthracene	0.39	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Azobenzene	0.39	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Benzo(a)anthracene	0.39	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Benzo(a)pyrene	0.39	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Benzo(b)fluoranthene	0.39	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Benzo(g,h,i)perylene	0.39	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Benzo(k)fluoranthene	0.39	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Benzoic acid	1.9	UJ
54-15425	MD54-01-0054	10.5–11.5	ALLH	Benzyl alcohol	0.39	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Bis(2-chloroethoxy)methane	0.39	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Bis(2-chloroethyl)ether	0.39	UJ
54-15425	MD54-01-0054	10.5–11.5	ALLH	Bis(2-ethylhexyl)phthalate	0.39	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Butylbenzylphthalate	0.39	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Chrysene	0.39	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Di-n-butylphthalate	0.39	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Di-n-octylphthalate	0.39	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Dibenz(a,h)anthracene	0.39	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Dibenzofuran	0.39	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Diethylphthalate	0.39	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Dimethyl phthalate	0.39	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Fluoranthene	0.39	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Fluorene	0.39	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Hexachlorobenzene	0.39	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Hexachlorobutadiene	0.39	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Hexachlorocyclopentadiene	1.9	UJ
54-15425	MD54-01-0054	10.5–11.5	ALLH	Hexachloroethane	0.39	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Indeno(1,2,3-cd)pyrene	0.39	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Isophorone	0.39	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Tetrachloroethane[1,1,1,2-]	0.0056	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Trichloroethane[1,1,1-]	0.0056	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Tetrachloroethane[1,1,2,2-]	0.0056	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Trichloroethane[1,1,2-]	0.0056	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Dichloroethane[1,1-]	0.0056	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Dichloroethene[1,1-]	0.0056	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Dichloropropene[1,1-]	0.0056	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Trichloropropane[1,2,3-]	0.0056	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Trimethylbenzene[1,2,4-]	0.0056	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Dibromo-3-chloropropane[1,2-]	0.011	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Dibromoethane[1,2-]	0.0056	U
54-15425	MD54-01-0054	10.5–11.5	ALLH	Dichlorobenzene[1,2-]	0.0056	U
54-15424	MD54-01-0025	10.5–11.5	ALLH	pH	8.27[b]	None
54-15424	MD54-01-0025	10.5–11.5	ALLH	Dibromoethane[1,2-]	0.0053	U
54-15424	MD54-01-0025	10.5–11.5	ALLH	Dichlorobenzene[1,2-]	0.0053	U

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15424	MD54-01-0025	10.5–11.5	ALLH	Dichloroethane[1,2-]	0.0053	U
54-15424	MD54-01-0025	10.5–11.5	ALLH	Dichloroethene[cis/trans-1,2-]	0.0053	U
54-15424	MD54-01-0025	10.5–11.5	ALLH	Dichloropropane[1,2-]	0.0053	U
54-15424	MD54-01-0025	10.5–11.5	ALLH	Trimethylbenzene[1,3,5-]	0.0053	U
54-15424	MD54-01-0025	10.5–11.5	ALLH	Dichlorobenzene[1,3-]	0.0053	U
54-15424	MD54-01-0025	10.5–11.5	ALLH	Dichloropropane[1,3-]	0.0053	U
54-15424	MD54-01-0025	10.5–11.5	ALLH	Dichlorobenzene[1,4-]	0.0053	U
54-15424	MD54-01-0025	10.5–11.5	ALLH	Dichloropropane[2,2-]	0.0053	U
54-15424	MD54-01-0025	10.5–11.5	ALLH	Butanone[2-]	0.021	U
54-15424	MD54-01-0025	10.5–11.5	ALLH	Chlorotoluene[2-]	0.0053	U
54-15424	MD54-01-0025	10.5–11.5	ALLH	Hexanone[2-]	0.021	U
54-15424	MD54-01-0025	10.5–11.5	ALLH	Chlorotoluene[4-]	0.0053	U
54-15424	MD54-01-0025	10.5–11.5	ALLH	Isopropyltoluene[4-]	0.0053	U
54-15424	MD54-01-0025	10.5–11.5	ALLH	Methyl-2-pentanone[4-]	0.021	U
54-15424	MD54-01-0025	10.5–11.5	ALLH	Acetone	0.021	UJ
54-15424	MD54-01-0025	10.5–11.5	ALLH	Benzene	0.0053	U
54-15424	MD54-01-0025	10.5–11.5	ALLH	Bromobenzene	0.0053	U
54-15424	MD54-01-0025	10.5–11.5	ALLH	Bromochloromethane	0.0053	U
54-15424	MD54-01-0025	10.5–11.5	ALLH	Bromodichloromethane	0.0053	U
54-15424	MD54-01-0025	10.5–11.5	ALLH	Bromoform	0.0053	U
54-15424	MD54-01-0025	10.5–11.5	ALLH	Bromomethane	0.011	U
54-15424	MD54-01-0025	10.5–11.5	ALLH	Carbon disulfide	0.0053	U
54-15424	MD54-01-0025	10.5–11.5	ALLH	Carbon tetrachloride	0.0053	U
54-15424	MD54-01-0025	10.5–11.5	ALLH	Chloromethane	0.011	U
54-15424	MD54-01-0025	10.5–11.5	ALLH	Dichloropropene[cis-1,3-]	0.0053	U
54-15424	MD54-01-0025	10.5–11.5	ALLH	Dibromomethane	0.0053	U
54-15424	MD54-01-0025	10.5–11.5	ALLH	Dichlorodifluoromethane	0.011	U
54-15424	MD54-01-0025	10.5–11.5	ALLH	Ethylbenzene	0.0053	U
54-15424	MD54-01-0025	10.5–11.5	ALLH	Iodomethane	0.0053	U
54-15424	MD54-01-0025	10.5–11.5	ALLH	Isopropylbenzene	0.0053	U
54-15424	MD54-01-0025	10.5–11.5	ALLH	Methylene chloride	0.0053	U
54-15424	MD54-01-0025	10.5–11.5	ALLH	Butylbenzene[n-]	0.0053	U
54-15424	MD54-01-0025	10.5–11.5	ALLH	Propylbenzene[1-]	0.0053	U
54-15424	MD54-01-0025	10.5–11.5	ALLH	Butylbenzene[sec-]	0.0053	U
54-15424	MD54-01-0025	10.5–11.5	ALLH	Styrene	0.0053	U
54-15424	MD54-01-0025	10.5–11.5	ALLH	Butylbenzene[tert-]	0.0053	U
54-15424	MD54-01-0025	10.5–11.5	ALLH	Tetrachloroethene	0.0053	U
54-15424	MD54-01-0025	10.5–11.5	ALLH	Toluene	0.0053	U
54-15424	MD54-01-0025	10.5–11.5	ALLH	Dichloropropene[trans-1,3-]	0.0053	U
54-15424	MD54-01-0025	10.5–11.5	ALLH	Trichloroethene	0.0053	U
54-15424	MD54-01-0025	10.5–11.5	ALLH	Trichlorofluoromethane	0.011	U
54-15424	MD54-01-0025	10.5–11.5	ALLH	Trichlorotrifluoroethane	0.0053	U
54-15424	MD54-01-0025	10.5–11.5	ALLH	Vinyl chloride	0.011	U
54-15424	MD54-01-0025	10.5–11.5	ALLH	Xylene (total)	0.0053	U
54-15424	MD54-01-0025	10.5–11.5	ALLH	Benzyl alcohol	0.4	UJ
54-15424	MD54-01-0025	10.5–11.5	ALLH	Bis(2-chloroethoxy)methane	0.4	UJ

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15424	MD54-01-0025	10.5–11.5	ALLH	Bis(2-chloroethyl)ether	0.4	UJ
54-15424	MD54-01-0025	10.5–11.5	ALLH	Bis(2-ethylhexyl)phthalate	0.4	UJ
54-15424	MD54-01-0025	10.5–11.5	ALLH	Butylbenzylphthalate	0.4	UJ
54-15424	MD54-01-0025	10.5–11.5	ALLH	Chrysene	0.4	UJ
54-15424	MD54-01-0025	10.5–11.5	ALLH	Tetrachloroethane[1,1,1,2-]	0.0053	U
54-15424	MD54-01-0025	10.5–11.5	ALLH	Trichloroethane[1,1,1-]	0.0053	U
54-15424	MD54-01-0025	10.5–11.5	ALLH	Tetrachloroethane[1,1,2,2-]	0.0053	U
54-15424	MD54-01-0025	10.5–11.5	ALLH	Trichloroethane[1,1,2-]	0.0053	U
54-15424	MD54-01-0025	10.5–11.5	ALLH	Dichloroethane[1,1-]	0.0053	U
54-15424	MD54-01-0025	10.5–11.5	ALLH	Dichloroethene[1,1-]	0.0053	U
54-15424	MD54-01-0025	10.5–11.5	ALLH	Dichloropropene[1,1-]	0.0053	U
54-15424	MD54-01-0025	10.5–11.5	ALLH	Trichloropropane[1,2,3-]	0.0053	U
54-15424	MD54-01-0025	10.5–11.5	ALLH	Trimethylbenzene[1,2,4-]	0.0053	U
54-15424	MD54-01-0025	10.5–11.5	ALLH	Dibromo-3-chloropropane[1,2-]	0.011	U
54-15424	MD54-01-0025	10.5–11.5	ALLH	Chlorobenzene	0.0053	U
54-15424	MD54-01-0025	10.5–11.5	ALLH	Chlorodibromomethane	0.0053	U
54-15424	MD54-01-0025	10.5–11.5	ALLH	Chloroethane	0.011	U
54-15424	MD54-01-0025	10.5–11.5	ALLH	Chloroform	0.0053	U
54-15424	MD54-01-0025	10.5–11.5	ALLH	Di-n-butylphthalate	0.4	UJ
54-15424	MD54-01-0025	10.5–11.5	ALLH	Di-n-octylphthalate	0.4	UJ
54-15424	MD54-01-0025	10.5–11.5	ALLH	Dibenz(a,h)anthracene	0.4	UJ
54-15424	MD54-01-0025	10.5–11.5	ALLH	Dibenzofuran	0.4	UJ
54-15424	MD54-01-0025	10.5–11.5	ALLH	Diethylphthalate	0.4	UJ
54-15424	MD54-01-0025	10.5–11.5	ALLH	Dimethyl phthalate	0.4	UJ
54-15424	MD54-01-0025	10.5–11.5	ALLH	Fluoranthene	0.4	UJ
54-15424	MD54-01-0025	10.5–11.5	ALLH	Fluorene	0.4	UJ
54-15424	MD54-01-0025	10.5–11.5	ALLH	Hexachlorobenzene	0.4	UJ
54-15424	MD54-01-0025	10.5–11.5	ALLH	Hexachlorobutadiene	0.4	UJ
54-15424	MD54-01-0025	10.5–11.5	ALLH	Hexachlorocyclopentadiene	1.9	UJ
54-15424	MD54-01-0025	10.5–11.5	ALLH	Hexachloroethane	0.4	UJ
54-15424	MD54-01-0025	10.5–11.5	ALLH	Indeno(1,2,3-cd)pyrene	0.4	UJ
54-15424	MD54-01-0025	10.5–11.5	ALLH	Isophorone	0.4	UJ
54-15424	MD54-01-0025	10.5–11.5	ALLH	Nitroso-di-n-propylamine[N-]	0.4	UJ
54-15424	MD54-01-0025	10.5–11.5	ALLH	Nitrosodimethylamine[N-]	0.4	UJ
54-15424	MD54-01-0025	10.5–11.5	ALLH	Nitrosodiphenylamine[N-]	0.4	UJ
54-15424	MD54-01-0025	10.5–11.5	ALLH	Naphthalene	0.4	UJ
54-15424	MD54-01-0025	10.5–11.5	ALLH	Nitrobenzene	0.4	UJ
54-15424	MD54-01-0025	10.5–11.5	ALLH	Pentachlorophenol	1.9	UJ
54-15424	MD54-01-0025	10.5–11.5	ALLH	Phenanthrene	0.4	UJ
54-15424	MD54-01-0025	10.5–11.5	ALLH	Phenol	0.4	UJ
54-15424	MD54-01-0025	10.5–11.5	ALLH	Pyrene	0.4	UJ
54-15424	MD54-01-0025	10.5–11.5	ALLH	Trichlorobenzene[1,2,4-]	0.4	UJ
54-15424	MD54-01-0025	10.5–11.5	ALLH	Dichlorobenzene[1,2-]	0.4	UJ
54-15424	MD54-01-0025	10.5–11.5	ALLH	Dichlorobenzene[1,3-]	0.4	UJ
54-15424	MD54-01-0025	10.5–11.5	ALLH	Dichlorobenzene[1,4-]	0.4	UJ
54-15424	MD54-01-0025	10.5–11.5	ALLH	Oxybis(1-chloropropane)[2,2'-]	0.4	UJ

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15424	MD54-01-0025	10.5–11.5	ALLH	Trichlorophenol[2,4,5-]	0.4	UJ
54-15424	MD54-01-0025	10.5–11.5	ALLH	Nitrophenol[4-]	1.9	UJ
54-15424	MD54-01-0025	10.5–11.5	ALLH	Acenaphthene	0.4	UJ
54-15424	MD54-01-0025	10.5–11.5	ALLH	Acenaphthylene	0.4	UJ
54-15424	MD54-01-0025	10.5–11.5	ALLH	Aniline	0.4	UJ
54-15424	MD54-01-0025	10.5–11.5	ALLH	Anthracene	0.4	UJ
54-15424	MD54-01-0025	10.5–11.5	ALLH	Azobenzene	0.4	UJ
54-15424	MD54-01-0025	10.5–11.5	ALLH	Benzo(a)anthracene	0.4	UJ
54-15424	MD54-01-0025	10.5–11.5	ALLH	Benzo(a)pyrene	0.4	UJ
54-15424	MD54-01-0025	10.5–11.5	ALLH	Benzo(b)fluoranthene	0.4	UJ
54-15424	MD54-01-0025	10.5–11.5	ALLH	Benzo(g,h,i)perylene	0.4	UJ
54-15424	MD54-01-0025	10.5–11.5	ALLH	Benzo(k)fluoranthene	0.4	UJ
54-15424	MD54-01-0025	10.5–11.5	ALLH	Benzoic acid	1.9	UJ
54-15424	MD54-01-0025	10.5–11.5	ALLH	Trichlorophenol[2,4,6-]	0.4	UJ
54-15424	MD54-01-0025	10.5–11.5	ALLH	Dichlorophenol[2,4-]	0.4	UJ
54-15424	MD54-01-0025	10.5–11.5	ALLH	Dimethylphenol[2,4-]	0.4	UJ
54-15424	MD54-01-0025	10.5–11.5	ALLH	Dinitrophenol[2,4-]	1.9	UJ
54-15424	MD54-01-0025	10.5–11.5	ALLH	Dinitrotoluene[2,4-]	0.4	UJ
54-15424	MD54-01-0025	10.5–11.5	ALLH	Dinitrotoluene[2,6-]	0.4	UJ
54-15424	MD54-01-0025	10.5–11.5	ALLH	Chloronaphthalene[2-]	0.4	UJ
54-15424	MD54-01-0025	10.5–11.5	ALLH	Chlorophenol[2-]	0.4	UJ
54-15424	MD54-01-0025	10.5–11.5	ALLH	Methylnaphthalene[2-]	0.4	UJ
54-15424	MD54-01-0025	10.5–11.5	ALLH	Methylphenol[2-]	0.4	UJ
54-15424	MD54-01-0025	10.5–11.5	ALLH	Nitroaniline[2-]	1.9	UJ
54-15424	MD54-01-0025	10.5–11.5	ALLH	Nitrophenol[2-]	0.4	UJ
54-15424	MD54-01-0025	10.5–11.5	ALLH	Dichlorobenzidine[3,3'-]	1.9	UJ
54-15424	MD54-01-0025	10.5–11.5	ALLH	Nitroaniline[3-]	1.9	UJ
54-15424	MD54-01-0025	10.5–11.5	ALLH	Dinitro-2-methylphenol[4,6-]	1.9	UJ
54-15424	MD54-01-0025	10.5–11.5	ALLH	Bromophenyl-phenylether[4-]	0.4	UJ
54-15424	MD54-01-0025	10.5–11.5	ALLH	Chloro-3-methylphenol[4-]	0.4	UJ
54-15424	MD54-01-0025	10.5–11.5	ALLH	Chloroaniline[4-]	0.4	UJ
54-15424	MD54-01-0025	10.5–11.5	ALLH	Chlorophenyl-phenyl[4-] ether	0.4	UJ
54-15424	MD54-01-0025	10.5–11.5	ALLH	Methylphenol[4-]	0.4	UJ
54-15424	MD54-01-0025	10.5–11.5	ALLH	Nitroaniline[4-]	1.9	UJ
54-15425	MD54-01-0027	10.5–11.5	ALLH	pH	7.96[b]	None
54-15425	MD54-01-0027	10.5–11.5	ALLH	Tetrachloroethane[1,1,1,2-]	0.0051	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Trichloroethane[1,1,1-]	0.0051	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Tetrachloroethane[1,1,2,2-]	0.0051	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Trichloroethane[1,1,2-]	0.0051	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Dichloroethane[1,1-]	0.0051	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Dichloroethene[1,1-]	0.0051	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Dichloropropene[1,1-]	0.0051	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Trichloropropane[1,2,3-]	0.0051	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Trimethylbenzene[1,2,4-]	0.0051	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Dibromo-3-chloropropane[1,2-]	0.01	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Dibromoethane[1,2-]	0.0051	U

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15425	MD54-01-0027	10.5–11.5	ALLH	Dichlorobenzene[1,2-]	0.0051	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Dichloroethane[1,2-]	0.0051	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Dichloroethene[cis/trans-1,2-]	0.0051	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Dichloropropane[1,2-]	0.0051	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Trimethylbenzene[1,3,5-]	0.0051	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Dichlorobenzene[1,3-]	0.0051	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Dichloropropane[1,3-]	0.0051	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Dichlorobenzene[1,4-]	0.0051	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Dichloropropane[2,2-]	0.0051	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Butanone[2-]	0.02	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Chlorotoluene[2-]	0.0051	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Hexanone[2-]	0.02	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Chlorotoluene[4-]	0.0051	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Isopropyltoluene[4-]	0.0051	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Methyl-2-pentanone[4-]	0.02	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Acetone	0.015	J
54-15425	MD54-01-0027	10.5–11.5	ALLH	Benzene	0.0051	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Bromobenzene	0.0051	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Bromochloromethane	0.0051	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Bromodichloromethane	0.0051	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Bromoform	0.0051	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Bromomethane	0.01	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Carbon disulfide	0.0051	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Carbon tetrachloride	0.0051	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Chlorobenzene	0.0051	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Chlorodibromomethane	0.0051	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Chloroethane	0.01	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Chloroform	0.0051	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Chloromethane	0.01	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Dichloropropene[cis-1,3-]	0.0051	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Dibromomethane	0.0051	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Dichlorodifluoromethane	0.01	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Ethylbenzene	0.0051	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Iodomethane	0.0051	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Isopropylbenzene	0.0051	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Methylene chloride	0.0051	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Butylbenzene[n-]	0.0051	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Propylbenzene[1-]	0.0051	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Butylbenzene[sec-]	0.0051	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Styrene	0.0051	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Butylbenzene[tert-]	0.0051	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Tetrachloroethene	0.0051	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Toluene	0.0051	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Dichloropropene[trans-1,3-]	0.0051	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Trichloroethene	0.0051	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Trichlorofluoromethane	0.01	U

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15425	MD54-01-0027	10.5–11.5	ALLH	Trichlorotrifluoroethane	0.0051	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Vinyl chloride	0.01	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Xylene (total)	0.0051	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Pentachlorophenol	1.9	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Phenanthrene	0.38	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Phenol	0.38	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Pyrene	0.38	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Trichlorobenzene[1,2,4-]	0.38	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Dichlorobenzene[1,2-]	0.38	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Dichlorobenzene[1,3-]	0.38	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Dichlorobenzene[1,4-]	0.38	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Oxybis(1-chloropropane)[2,2'-]	0.38	UJ
54-15425	MD54-01-0027	10.5–11.5	ALLH	Trichlorophenol[2,4,5-]	0.38	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Trichlorophenol[2,4,6-]	0.38	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Dichlorophenol[2,4-]	0.38	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Dimethylphenol[2,4-]	0.38	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Dinitrophenol[2,4-]	1.9	UJ
54-15425	MD54-01-0027	10.5–11.5	ALLH	Dinitrotoluene[2,4-]	0.38	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Dinitrotoluene[2,6-]	0.38	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Chloronaphthalene[2-]	0.38	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Chlorophenol[2-]	0.38	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Methylnaphthalene[2-]	0.38	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Methylphenol[2-]	0.38	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Nitroaniline[2-]	1.9	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Nitrophenol[2-]	0.38	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Dichlorobenzidine[3,3'-]	1.9	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Nitroaniline[3-]	1.9	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Dinitro-2-methylphenol[4,6-]	1.9	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Bromophenyl-phenylether[4-]	0.38	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Chloro-3-methylphenol[4-]	0.38	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Chloroaniline[4-]	0.38	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Chlorophenyl-phenyl[4-] ether	0.38	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Methylphenol[4-]	0.38	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Nitroaniline[4-]	1.9	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Nitrophenol[4-]	1.9	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Acenaphthene	0.38	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Acenaphthylene	0.38	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Aniline	0.38	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Anthracene	0.38	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Azobenzene	0.38	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Benzo(a)anthracene	0.38	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Benzo(a)pyrene	0.38	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Benzo(b)fluoranthene	0.38	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Benzo(g,h,i)perylene	0.38	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Benzo(k)fluoranthene	0.38	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Benzoic acid	1.9	UJ

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15425	MD54-01-0027	10.5–11.5	ALLH	Benzyl alcohol	0.38	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Bis(2-chloroethoxy)methane	0.38	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Bis(2-chloroethyl)ether	0.38	UJ
54-15425	MD54-01-0027	10.5–11.5	ALLH	Bis(2-ethylhexyl)phthalate	0.38	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Butylbenzylphthalate	0.38	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Chrysene	0.38	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Di-n-butylphthalate	0.38	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Di-n-octylphthalate	0.38	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Dibenz(a,h)anthracene	0.38	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Dibenzofuran	0.38	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Diethylphthalate	0.38	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Dimethyl phthalate	0.38	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Fluoranthene	0.38	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Fluorene	0.38	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Hexachlorobenzene	0.38	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Hexachlorobutadiene	0.38	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Hexachlorocyclopentadiene	1.9	UJ
54-15425	MD54-01-0027	10.5–11.5	ALLH	Hexachloroethane	0.38	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Indeno(1,2,3-cd)pyrene	0.38	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Isophorone	0.38	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Nitroso-di-n-propylamine[N-]	0.38	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Nitrosodimethylamine[N-]	0.38	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Nitrosodiphenylamine[N-]	0.38	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Naphthalene	0.38	U
54-15425	MD54-01-0027	10.5–11.5	ALLH	Nitrobenzene	0.38	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	pH	7.25[b]	None
54-15426	MD54-01-0029	10.5–11.5	ALLH	Trimethylbenzene[1,2,4-]	0.0051	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Dibromo-3-chloropropane[1,2-]	0.01	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Dibromoethane[1,2-]	0.0051	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Dichlorobenzene[1,2-]	0.0051	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Dichloroethane[1,2-]	0.0051	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Dichloroethene[cis/trans-1,2-]	0.0051	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Dichloropropane[1,2-]	0.0051	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Trimethylbenzene[1,3,5-]	0.0051	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Dichlorobenzene[1,3-]	0.0051	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Dichloropropane[1,3-]	0.0051	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Dichlorobenzene[1,4-]	0.0051	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Dichloropropane[2,2-]	0.0051	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Butanone[2-]	0.021	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Chlorotoluene[2-]	0.0051	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Hexanone[2-]	0.021	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Chlorotoluene[4-]	0.0051	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Isopropyltoluene[4-]	0.0051	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Methyl-2-pentanone[4-]	0.021	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Acetone	0.028	J
54-15426	MD54-01-0029	10.5–11.5	ALLH	Benzene	0.0051	U

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15426	MD54-01-0029	10.5–11.5	ALLH	Bromobenzene	0.0051	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Bromochloromethane	0.0051	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Bromodichloromethane	0.0051	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Bromoform	0.0051	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Bromomethane	0.01	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Carbon disulfide	0.0051	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Carbon tetrachloride	0.0051	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Chlorobenzene	0.0051	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Chlorodibromomethane	0.0051	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Chloroethane	0.01	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Chloroform	0.0051	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Chloromethane	0.01	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Dichloropropene[cis-1,3-]	0.0051	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Dibromomethane	0.0051	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Dichlorodifluoromethane	0.01	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Ethylbenzene	0.0051	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Iodomethane	0.0051	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Isopropylbenzene	0.0051	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Methylene chloride	0.0051	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Butylbenzene[n-]	0.0051	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Propylbenzene[1-]	0.0051	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Butylbenzene[sec-]	0.0051	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Styrene	0.0051	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Butylbenzene[tert-]	0.0051	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Tetrachloroethene	0.0051	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Fluoranthene	0.37	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Fluorene	0.37	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Hexachlorobenzene	0.37	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Hexachlorobutadiene	0.37	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Hexachlorocyclopentadiene	1.8	UJ
54-15426	MD54-01-0029	10.5–11.5	ALLH	Hexachloroethane	0.37	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Indeno(1,2,3-cd)pyrene	0.37	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Isophorone	0.37	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Nitroso-di-n-propylamine[N-]	0.37	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Nitrosodimethylamine[N-]	0.37	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Nitrosodiphenylamine[N-]	0.37	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Naphthalene	0.37	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Trichlorobenzene[1,2,4-]	0.37	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Dichlorobenzene[1,2-]	0.37	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Dichlorobenzene[1,3-]	0.37	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Dichlorobenzene[1,4-]	0.37	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Oxybis(1-chloropropane)[2,2'-]	0.37	UJ
54-15426	MD54-01-0029	10.5–11.5	ALLH	Trichlorophenol[2,4,5-]	0.37	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Trichlorophenol[2,4,6-]	0.37	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Dichlorophenol[2,4-]	0.37	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Dimethylphenol[2,4-]	0.37	U

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15426	MD54-01-0029	10.5–11.5	ALLH	Dinitrophenol[2,4-]	1.8	UJ
54-15426	MD54-01-0029	10.5–11.5	ALLH	Dinitrotoluene[2,4-]	0.37	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Dinitrotoluene[2,6-]	0.37	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Chloronaphthalene[2-]	0.37	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Trichlorofluoromethane	0.01	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Trichlorotrifluoroethane	0.0051	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Vinyl chloride	0.01	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Xylene (total)	0.0051	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Toluene	0.0051	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Dichloropropene[trans-1,3-]	0.0051	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Trichloroethene	0.0051	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Tetrachloroethane[1,1,1,2-]	0.0051	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Trichloroethane[1,1,1-]	0.0051	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Tetrachloroethane[1,1,2,2-]	0.0051	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Trichloroethane[1,1,2-]	0.0051	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Dichloroethane[1,1-]	0.0051	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Dichloroethene[1,1-]	0.0051	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Dichloropropene[1,1-]	0.0051	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Trichloropropane[1,2,3-]	0.0051	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Benzo(b)fluoranthene	0.37	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Benzo(g,h,i)perylene	0.37	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Benzo(k)fluoranthene	0.37	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Benzoic acid	1.8	UJ
54-15426	MD54-01-0029	10.5–11.5	ALLH	Benzyl alcohol	0.37	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Bis(2-chloroethoxy)methane	0.37	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Bis(2-chloroethyl)ether	0.37	UJ
54-15426	MD54-01-0029	10.5–11.5	ALLH	Bis(2-ethylhexyl)phthalate	0.37	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Butylbenzylphthalate	0.37	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Chrysene	0.37	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Di-n-butylphthalate	0.37	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Di-n-octylphthalate	0.37	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Dibenz(a,h)anthracene	0.37	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Dibenzofuran	0.37	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Diethylphthalate	0.37	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Dimethyl phthalate	0.37	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Chlorophenol[2-]	0.37	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Methylnaphthalene[2-]	0.37	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Methylphenol[2-]	0.37	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Nitroaniline[2-]	1.8	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Nitrophenol[2-]	0.37	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Dichlorobenzidine[3,3'-]	1.8	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Nitroaniline[3-]	1.8	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Dinitro-2-methylphenol[4,6-]	1.8	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Bromophenyl-phenylether[4-]	0.37	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Chloro-3-methylphenol[4-]	0.37	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Chloroaniline[4-]	0.37	U

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15426	MD54-01-0029	10.5–11.5	ALLH	Chlorophenyl-phenyl[4-] ether	0.37	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Methylphenol[4-]	0.37	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Nitroaniline[4-]	1.8	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Nitrophenol[4-]	1.8	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Acenaphthene	0.37	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Acenaphthylene	0.37	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Aniline	0.37	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Anthracene	0.37	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Azobenzene	0.37	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Benzo(a)anthracene	0.37	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Benzo(a)pyrene	0.37	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Nitrobenzene	0.37	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Pentachlorophenol	1.8	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Phenanthrene	0.37	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Phenol	0.37	U
54-15426	MD54-01-0029	10.5–11.5	ALLH	Pyrene	0.37	U
54-15424	MD54-01-0026	11.5–12.5	ALLH	pH	7.66[b]	None
54-15424	MD54-01-0026	11.5–12.5	ALLH	Dichloroethene[1,1-]	0.0053	UJ
54-15424	MD54-01-0026	11.5–12.5	ALLH	Dichloropropene[1,1-]	0.0053	UJ
54-15424	MD54-01-0026	11.5–12.5	ALLH	Trichloropropane[1,2,3-]	0.0053	UJ
54-15424	MD54-01-0026	11.5–12.5	ALLH	Trimethylbenzene[1,2,4-]	0.0053	UJ
54-15424	MD54-01-0026	11.5–12.5	ALLH	Dibromo-3-chloropropane[1,2-]	0.011	UJ
54-15424	MD54-01-0026	11.5–12.5	ALLH	Dibromoethane[1,2-]	0.0053	UJ
54-15424	MD54-01-0026	11.5–12.5	ALLH	Dichlorobenzene[1,2-]	0.0053	UJ
54-15424	MD54-01-0026	11.5–12.5	ALLH	Dichloroethane[1,2-]	0.0053	UJ
54-15424	MD54-01-0026	11.5–12.5	ALLH	Dichloroethene[cis/trans-1,2-]	0.0053	UJ
54-15424	MD54-01-0026	11.5–12.5	ALLH	Dichloropropane[1,2-]	0.0053	UJ
54-15424	MD54-01-0026	11.5–12.5	ALLH	Trimethylbenzene[1,3,5-]	0.0053	UJ
54-15424	MD54-01-0026	11.5–12.5	ALLH	Dichlorobenzene[1,3-]	0.0053	UJ
54-15424	MD54-01-0026	11.5–12.5	ALLH	Dichloropropane[1,3-]	0.0053	UJ
54-15424	MD54-01-0026	11.5–12.5	ALLH	Dichlorobenzene[1,4-]	0.0053	UJ
54-15424	MD54-01-0026	11.5–12.5	ALLH	Dichloropropane[2,2-]	0.0053	UJ
54-15424	MD54-01-0026	11.5–12.5	ALLH	Butanone[2-]	0.021	UJ
54-15424	MD54-01-0026	11.5–12.5	ALLH	Chlorotoluene[2-]	0.0053	UJ
54-15424	MD54-01-0026	11.5–12.5	ALLH	Hexanone[2-]	0.021	UJ
54-15424	MD54-01-0026	11.5–12.5	ALLH	Chlorotoluene[4-]	0.0053	UJ
54-15424	MD54-01-0026	11.5–12.5	ALLH	Isopropyltoluene[4-]	0.0053	UJ
54-15424	MD54-01-0026	11.5–12.5	ALLH	Methyl-2-pentanone[4-]	0.021	UJ
54-15424	MD54-01-0026	11.5–12.5	ALLH	Acetone	0.021	UJ
54-15424	MD54-01-0026	11.5–12.5	ALLH	Benzene	0.0053	UJ
54-15424	MD54-01-0026	11.5–12.5	ALLH	Bromobenzene	0.0053	UJ
54-15424	MD54-01-0026	11.5–12.5	ALLH	Bromochloromethane	0.0053	UJ
54-15424	MD54-01-0026	11.5–12.5	ALLH	Trichloroethene	0.0053	UJ
54-15424	MD54-01-0026	11.5–12.5	ALLH	Trichlorofluoromethane	0.011	UJ
54-15424	MD54-01-0026	11.5–12.5	ALLH	Trichloro-1,2,2-trifluoroethane[1,1,2-]	0.0053	UJ
54-15424	MD54-01-0026	11.5–12.5	ALLH	Vinyl chloride	0.011	UJ

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15424	MD54-01-0026	11.5–12.5	ALLH	Xylene (total)	0.0053	UJ
54-15424	MD54-01-0026	11.5–12.5	ALLH	Trichlorobenzene[1,2,4-]	0.4	U
54-15424	MD54-01-0026	11.5–12.5	ALLH	Dichlorobenzene[1,2-]	0.4	U
54-15424	MD54-01-0026	11.5–12.5	ALLH	Dichlorobenzene[1,3-]	0.4	U
54-15424	MD54-01-0026	11.5–12.5	ALLH	Dichlorobenzene[1,4-]	0.4	U
54-15424	MD54-01-0026	11.5–12.5	ALLH	Oxybis(1-chloropropane)[2,2'-]	0.4	UJ
54-15424	MD54-01-0026	11.5–12.5	ALLH	Trichlorophenol[2,4,5-]	0.4	U
54-15424	MD54-01-0026	11.5–12.5	ALLH	Trichlorophenol[2,4,6-]	0.4	U
54-15424	MD54-01-0026	11.5–12.5	ALLH	Dichlorophenol[2,4-]	0.4	U
54-15424	MD54-01-0026	11.5–12.5	ALLH	Dimethylphenol[2,4-]	0.4	U
54-15424	MD54-01-0026	11.5–12.5	ALLH	Dinitrophenol[2,4-]	1.9	UJ
54-15424	MD54-01-0026	11.5–12.5	ALLH	Dinitrotoluene[2,4-]	0.4	U
54-15424	MD54-01-0026	11.5–12.5	ALLH	Dinitrotoluene[2,6-]	0.4	U
54-15424	MD54-01-0026	11.5–12.5	ALLH	Chloronaphthalene[2-]	0.4	U
54-15424	MD54-01-0026	11.5–12.5	ALLH	Chlorophenol[2-]	0.4	U
54-15424	MD54-01-0026	11.5–12.5	ALLH	Methylnaphthalene[2-]	0.4	U
54-15424	MD54-01-0026	11.5–12.5	ALLH	Methylphenol[2-]	0.4	U
54-15424	MD54-01-0026	11.5–12.5	ALLH	Nitroaniline[2-]	1.9	U
54-15424	MD54-01-0026	11.5–12.5	ALLH	Nitrophenol[2-]	0.4	U
54-15424	MD54-01-0026	11.5–12.5	ALLH	Dichlorobenzidine[3,3'-]	1.9	U
54-15424	MD54-01-0026	11.5–12.5	ALLH	Nitroaniline[3-]	1.9	U
54-15424	MD54-01-0026	11.5–12.5	ALLH	Dinitro-2-methylphenol[4,6-]	1.9	U
54-15424	MD54-01-0026	11.5–12.5	ALLH	Bromophenyl-phenylether[4-]	0.4	U
54-15424	MD54-01-0026	11.5–12.5	ALLH	Trichloroethane[1,1,2-]	0.0053	UJ
54-15424	MD54-01-0026	11.5–12.5	ALLH	Dichloroethane[1,1-]	0.0053	UJ
54-15424	MD54-01-0026	11.5–12.5	ALLH	Bromodichloromethane	0.0053	UJ
54-15424	MD54-01-0026	11.5–12.5	ALLH	Bromoform	0.0053	UJ
54-15424	MD54-01-0026	11.5–12.5	ALLH	Bromomethane	0.011	UJ
54-15424	MD54-01-0026	11.5–12.5	ALLH	Carbon disulfide	0.0053	UJ
54-15424	MD54-01-0026	11.5–12.5	ALLH	Carbon tetrachloride	0.0053	UJ
54-15424	MD54-01-0026	11.5–12.5	ALLH	Chlorobenzene	0.0053	UJ
54-15424	MD54-01-0026	11.5–12.5	ALLH	Chlorodibromomethane	0.0053	UJ
54-15424	MD54-01-0026	11.5–12.5	ALLH	Chloroethane	0.011	UJ
54-15424	MD54-01-0026	11.5–12.5	ALLH	Chloroform	0.0053	UJ
54-15424	MD54-01-0026	11.5–12.5	ALLH	Chloromethane	0.011	UJ
54-15424	MD54-01-0026	11.5–12.5	ALLH	Dichloropropene[cis-1,3-]	0.0053	UJ
54-15424	MD54-01-0026	11.5–12.5	ALLH	Dibromomethane	0.0053	UJ
54-15424	MD54-01-0026	11.5–12.5	ALLH	Dichlorodifluoromethane	0.011	UJ
54-15424	MD54-01-0026	11.5–12.5	ALLH	Ethylbenzene	0.0053	UJ
54-15424	MD54-01-0026	11.5–12.5	ALLH	Iodomethane	0.0053	UJ
54-15424	MD54-01-0026	11.5–12.5	ALLH	Isopropylbenzene	0.0053	UJ
54-15424	MD54-01-0026	11.5–12.5	ALLH	Methylene chloride	0.0053	UJ
54-15424	MD54-01-0026	11.5–12.5	ALLH	Butylbenzene[n-]	0.0053	UJ
54-15424	MD54-01-0026	11.5–12.5	ALLH	Propylbenzene[1-]	0.0053	UJ
54-15424	MD54-01-0026	11.5–12.5	ALLH	Butylbenzene[sec-]	0.0053	UJ
54-15424	MD54-01-0026	11.5–12.5	ALLH	Styrene	0.0053	UJ

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15424	MD54-01-0026	11.5–12.5	ALLH	Butylbenzene[tert-]	0.0053	UJ
54-15424	MD54-01-0026	11.5–12.5	ALLH	Tetrachloroethene	0.0053	UJ
54-15424	MD54-01-0026	11.5–12.5	ALLH	Toluene	0.0053	UJ
54-15424	MD54-01-0026	11.5–12.5	ALLH	Dichloropropene[trans-1,3-]	0.0053	UJ
54-15424	MD54-01-0026	11.5–12.5	ALLH	Chloro-3-methylphenol[4-]	0.4	U
54-15424	MD54-01-0026	11.5–12.5	ALLH	Chloroaniline[4-]	0.4	U
54-15424	MD54-01-0026	11.5–12.5	ALLH	Chlorophenyl-phenyl[4-] ether	0.4	U
54-15424	MD54-01-0026	11.5–12.5	ALLH	Methylphenol[4-]	0.4	U
54-15424	MD54-01-0026	11.5–12.5	ALLH	Nitroaniline[4-]	1.9	U
54-15424	MD54-01-0026	11.5–12.5	ALLH	Nitrophenol[4-]	1.9	U
54-15424	MD54-01-0026	11.5–12.5	ALLH	Acenaphthene	0.4	U
54-15424	MD54-01-0026	11.5–12.5	ALLH	Acenaphthylene	0.4	U
54-15424	MD54-01-0026	11.5–12.5	ALLH	Aniline	0.4	U
54-15424	MD54-01-0026	11.5–12.5	ALLH	Anthracene	0.4	U
54-15424	MD54-01-0026	11.5–12.5	ALLH	Azobenzene	0.4	U
54-15424	MD54-01-0026	11.5–12.5	ALLH	Benzo(a)anthracene	0.4	U
54-15424	MD54-01-0026	11.5–12.5	ALLH	Benzo(a)pyrene	0.4	U
54-15424	MD54-01-0026	11.5–12.5	ALLH	Benzo(b)fluoranthene	0.4	U
54-15424	MD54-01-0026	11.5–12.5	ALLH	Benzo(g,h,i)perylene	0.4	U
54-15424	MD54-01-0026	11.5–12.5	ALLH	Benzo(k)fluoranthene	0.4	U
54-15424	MD54-01-0026	11.5–12.5	ALLH	Benzoic acid	1.9	UJ
54-15424	MD54-01-0026	11.5–12.5	ALLH	Benzyl alcohol	0.4	U
54-15424	MD54-01-0026	11.5–12.5	ALLH	Bis(2-chloroethoxy)methane	0.4	U
54-15424	MD54-01-0026	11.5–12.5	ALLH	Bis(2-chloroethyl)ether	0.4	UJ
54-15424	MD54-01-0026	11.5–12.5	ALLH	Bis(2-ethylhexyl)phthalate	0.4	U
54-15424	MD54-01-0026	11.5–12.5	ALLH	Butylbenzylphthalate	0.4	U
54-15424	MD54-01-0026	11.5–12.5	ALLH	Chrysene	0.4	U
54-15424	MD54-01-0026	11.5–12.5	ALLH	Di-n-butylphthalate	0.4	U
54-15424	MD54-01-0026	11.5–12.5	ALLH	Di-n-octylphthalate	0.4	U
54-15424	MD54-01-0026	11.5–12.5	ALLH	Dibenz(a,h)anthracene	0.4	U
54-15424	MD54-01-0026	11.5–12.5	ALLH	Dibenzofuran	0.4	U
54-15424	MD54-01-0026	11.5–12.5	ALLH	Diethylphthalate	0.4	U
54-15424	MD54-01-0026	11.5–12.5	ALLH	Dimethyl phthalate	0.4	U
54-15424	MD54-01-0026	11.5–12.5	ALLH	Fluoranthene	0.4	U
54-15424	MD54-01-0026	11.5–12.5	ALLH	Fluorene	0.4	U
54-15424	MD54-01-0026	11.5–12.5	ALLH	Hexachlorobenzene	0.4	U
54-15424	MD54-01-0026	11.5–12.5	ALLH	Hexachlorobutadiene	0.4	U
54-15424	MD54-01-0026	11.5–12.5	ALLH	Hexachlorocyclopentadiene	1.9	UJ
54-15424	MD54-01-0026	11.5–12.5	ALLH	Hexachloroethane	0.4	U
54-15424	MD54-01-0026	11.5–12.5	ALLH	Indeno(1,2,3-cd)pyrene	0.4	U
54-15424	MD54-01-0026	11.5–12.5	ALLH	Isophorone	0.4	U
54-15424	MD54-01-0026	11.5–12.5	ALLH	Nitroso-di-n-propylamine[N-]	0.4	U
54-15424	MD54-01-0026	11.5–12.5	ALLH	Nitrosodimethylamine[N-]	0.4	U
54-15424	MD54-01-0026	11.5–12.5	ALLH	Nitrosodiphenylamine[N-]	0.4	U
54-15424	MD54-01-0026	11.5–12.5	ALLH	Naphthalene	0.4	U
54-15424	MD54-01-0026	11.5–12.5	ALLH	Nitrobenzene	0.4	U

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15424	MD54-01-0026	11.5–12.5	ALLH	Pentachlorophenol	1.9	U
54-15424	MD54-01-0026	11.5–12.5	ALLH	Phenanthrene	0.4	U
54-15424	MD54-01-0026	11.5–12.5	ALLH	Phenol	0.4	U
54-15424	MD54-01-0026	11.5–12.5	ALLH	Pyrene	0.4	U
54-15424	MD54-01-0026	11.5–12.5	ALLH	Tetrachloroethane[1,1,1,2-]	0.0053	UJ
54-15424	MD54-01-0026	11.5–12.5	ALLH	Trichloroethane[1,1,1-]	0.0053	UJ
54-15424	MD54-01-0026	11.5–12.5	ALLH	Tetrachloroethane[1,1,2,2-]	0.0053	UJ
54-15425	MD54-01-0028	11.5–12.5	ALLH	pH	7.7[b]	None
54-15425	MD54-01-0028	11.5–12.5	ALLH	Chloroethane	0.01	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Chloroform	0.0052	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Chloromethane	0.01	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Dichloropropene[cis-1,3-]	0.0052	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Dibromomethane	0.0052	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Dichlorodifluoromethane	0.01	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Ethylbenzene	0.0052	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Iodomethane	0.0052	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Isopropylbenzene	0.0052	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Methylene chloride	0.0052	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Butylbenzene[n-]	0.0052	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Propylbenzene[1-]	0.0052	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Butylbenzene[sec-]	0.0052	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Styrene	0.0052	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Butylbenzene[tert-]	0.0052	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Tetrachloroethene	0.0052	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Toluene	0.0052	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Dichloropropene[trans-1,3-]	0.0052	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Trichloroethene	0.0052	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Trichlorofluoromethane	0.01	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Benzene	0.0052	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Bromobenzene	0.0052	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Bromochloromethane	0.0052	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Bromodichloromethane	0.0052	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Trichlorotrifluoroethane	0.0052	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Vinyl chloride	0.01	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Xylene (total)	0.0052	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Bromoform	0.0052	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Bromomethane	0.01	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Carbon disulfide	0.0052	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Carbon tetrachloride	0.0052	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Chlorobenzene	0.0052	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Chlorodibromomethane	0.0052	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Trichlorobenzene[1,2,4-]	0.39	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Dichlorobenzene[1,2-]	0.39	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Dichlorobenzene[1,3-]	0.39	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Dichlorobenzene[1,4-]	0.39	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Oxybis(1-chloropropane)[2,2'-]	0.39	UJ

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15425	MD54-01-0028	11.5–12.5	ALLH	Trichlorophenol[2,4,5-]	0.39	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Trichlorophenol[2,4,6-]	0.39	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Dichlorophenol[2,4-]	0.39	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Dimethylphenol[2,4-]	0.39	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Dinitrophenol[2,4-]	1.9	UJ
54-15425	MD54-01-0028	11.5–12.5	ALLH	Dinitrotoluene[2,4-]	0.39	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Dinitrotoluene[2,6-]	0.39	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Chloronaphthalene[2-]	0.39	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Chlorophenol[2-]	0.39	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Methylnaphthalene[2-]	0.39	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Methylphenol[2-]	0.39	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Nitroaniline[2-]	1.9	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Nitrophenol[2-]	0.39	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Dichlorobenzidine[3,3'-]	1.9	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Nitroaniline[3-]	1.9	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Dinitro-2-methylphenol[4,6-]	1.9	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Bromophenyl-phenylether[4-]	0.39	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Chloro-3-methylphenol[4-]	0.39	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Chloroaniline[4-]	0.39	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Chlorophenyl-phenyl[4-] ether	0.39	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Methylphenol[4-]	0.39	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Nitroaniline[4-]	1.9	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Nitrophenol[4-]	1.9	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Acenaphthene	0.39	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Acenaphthylene	0.39	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Aniline	0.39	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Anthracene	0.39	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Azobenzene	0.39	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Benzo(a)anthracene	0.39	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Benzo(a)pyrene	0.39	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Benzo(b)fluoranthene	0.39	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Benzo(g,h,i)perylene	0.39	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Benzo(k)fluoranthene	0.39	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Benzoic acid	1.9	UJ
54-15425	MD54-01-0028	11.5–12.5	ALLH	Benzyl alcohol	0.39	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Bis(2-chloroethoxy)methane	0.39	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Bis(2-chloroethyl)ether	0.39	UJ
54-15425	MD54-01-0028	11.5–12.5	ALLH	Bis(2-ethylhexyl)phthalate	0.39	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Butylbenzylphthalate	0.39	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Chrysene	0.39	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Di-n-butylphthalate	0.39	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Di-n-octylphthalate	0.39	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Dibenz(a,h)anthracene	0.39	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Dibenzofuran	0.39	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Diethylphthalate	0.39	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Dimethyl phthalate	0.39	U

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15425	MD54-01-0028	11.5–12.5	ALLH	Fluoranthene	0.39	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Fluorene	0.39	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Hexachlorobenzene	0.39	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Hexachlorobutadiene	0.39	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Hexachlorocyclopentadiene	1.9	UJ
54-15425	MD54-01-0028	11.5–12.5	ALLH	Hexachloroethane	0.39	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Indeno(1,2,3-cd)pyrene	0.39	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Isophorone	0.39	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Nitroso-di-n-propylamine[N-]	0.39	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Nitrosodimethylamine[N-]	0.39	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Nitrosodiphenylamine[N-]	0.39	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Naphthalene	0.39	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Nitrobenzene	0.39	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Pentachlorophenol	1.9	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Phenanthrene	0.39	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Phenol	0.39	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Pyrene	0.39	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Trichloroethane[1,1,2-]	0.0052	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Dichloroethane[1,1-]	0.0052	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Tetrachloroethane[1,1,1,2-]	0.0052	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Trichloroethane[1,1,1-]	0.0052	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Tetrachloroethane[1,1,2,2-]	0.0052	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Dichloroethene[1,1-]	0.0052	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Dichloropropene[1,1-]	0.0052	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Trichloropropane[1,2,3-]	0.0052	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Trimethylbenzene[1,2,4-]	0.0052	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Dibromo-3-chloropropane[1,2-]	0.01	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Dibromoethane[1,2-]	0.0052	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Dichlorobenzene[1,2-]	0.0052	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Dichloroethane[1,2-]	0.0052	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Dichloroethene[cis/trans-1,2-]	0.0052	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Dichloropropane[1,2-]	0.0052	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Trimethylbenzene[1,3,5-]	0.0052	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Dichlorobenzene[1,3-]	0.0052	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Dichloropropane[1,3-]	0.0052	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Dichlorobenzene[1,4-]	0.0052	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Dichloropropane[2,2-]	0.0052	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Butanone[2-]	0.021	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Chlorotoluene[2-]	0.0052	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Hexanone[2-]	0.021	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Chlorotoluene[4-]	0.0052	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Isopropyltoluene[4-]	0.0052	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Methyl-2-pentanone[4-]	0.021	U
54-15425	MD54-01-0028	11.5–12.5	ALLH	Acetone	0.021	UJ
54-15426	MD54-01-0030	11.5–12.5	ALLH	pH	7.05[b]	None
54-15426	MD54-01-0030	11.5–12.5	ALLH	Bromoform	0.0056	U

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15426	MD54-01-0030	11.5–12.5	ALLH	Bromomethane	0.011	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Carbon disulfide	0.0056	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Carbon tetrachloride	0.0056	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Chlorobenzene	0.0056	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Chlorodibromomethane	0.0056	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Chloroethane	0.011	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Chloroform	0.0056	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Chloromethane	0.011	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Trichlorobenzene[1,2,4-]	0.37	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Dichlorobenzene[1,2-]	0.37	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Dichlorobenzene[1,3-]	0.37	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Dichlorobenzene[1,4-]	0.37	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Oxybis(1-chloropropane)[2,2'-]	0.37	UJ
54-15426	MD54-01-0030	11.5–12.5	ALLH	Trichlorophenol[2,4,5-]	0.37	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Dichloropropene[cis-1,3-]	0.0056	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Dibromomethane	0.0056	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Dichlorodifluoromethane	0.011	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Ethylbenzene	0.0056	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Iodomethane	0.0056	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Isopropylbenzene	0.0056	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Methylene chloride	0.0056	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Butylbenzene[n-]	0.0056	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Propylbenzene[1-]	0.0056	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Butylbenzene[sec-]	0.0056	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Styrene	0.0056	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Butylbenzene[tert-]	0.0056	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Tetrachloroethene	0.0056	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Toluene	0.0056	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Dichloropropene[trans-1,3-]	0.0056	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Trichloroethene	0.0056	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Trichlorofluoromethane	0.011	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Trichlorotrifluoroethane	0.0056	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Vinyl chloride	0.011	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Xylene (total)	0.0056	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Trichlorophenol[2,4,6-]	0.37	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Dichlorophenol[2,4-]	0.37	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Dimethylphenol[2,4-]	0.37	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Dinitrophenol[2,4-]	1.8	UJ
54-15426	MD54-01-0030	11.5–12.5	ALLH	Dinitrotoluene[2,4-]	0.37	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Dinitrotoluene[2,6-]	0.37	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Chloronaphthalene[2-]	0.37	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Chlorophenol[2-]	0.37	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Methylnaphthalene[2-]	0.37	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Methylphenol[2-]	0.37	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Nitroaniline[2-]	1.8	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Nitrophenol[2-]	0.37	U

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15426	MD54-01-0030	11.5–12.5	ALLH	Dichlorobenzidine[3,3'-]	1.8	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Nitroaniline[3-]	1.8	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Dinitro-2-methylphenol[4,6-]	1.8	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Bromophenyl-phenylether[4-]	0.37	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Chloro-3-methylphenol[4-]	0.37	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Chloroaniline[4-]	0.37	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Chlorophenyl-phenyl[4-] ether	0.37	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Methylphenol[4-]	0.37	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Nitroaniline[4-]	1.8	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Nitrophenol[4-]	1.8	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Acenaphthene	0.37	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Acenaphthylene	0.37	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Aniline	0.37	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Anthracene	0.37	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Azobenzene	0.37	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Benzo(a)anthracene	0.37	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Benzo(a)pyrene	0.37	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Benzo(b)fluoranthene	0.37	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Benzo(g,h,i)perylene	0.37	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Benzo(k)fluoranthene	0.37	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Benzoic acid	1.8	UJ
54-15426	MD54-01-0030	11.5–12.5	ALLH	Benzyl alcohol	0.37	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Bis(2-chloroethoxy)methane	0.37	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Bis(2-chloroethyl)ether	0.37	UJ
54-15426	MD54-01-0030	11.5–12.5	ALLH	Bis(2-ethylhexyl)phthalate	0.37	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Butylbenzylphthalate	0.37	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Chrysene	0.37	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Di-n-butylphthalate	0.37	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Di-n-octylphthalate	0.37	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Dibenz(a,h)anthracene	0.37	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Dibenzofuran	0.37	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Diethylphthalate	0.37	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Dimethyl phthalate	0.37	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Fluoranthene	0.37	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Fluorene	0.37	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Hexachlorobenzene	0.37	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Hexachlorobutadiene	0.37	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Hexachlorocyclopentadiene	1.8	UJ
54-15426	MD54-01-0030	11.5–12.5	ALLH	Hexachloroethane	0.37	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Indeno(1,2,3-cd)pyrene	0.37	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Isophorone	0.37	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Nitroso-di-n-propylamine[N-]	0.37	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Nitrosodimethylamine[N-]	0.37	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Nitrosodiphenylamine[N-]	0.37	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Naphthalene	0.37	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Nitrobenzene	0.37	U

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15426	MD54-01-0030	11.5–12.5	ALLH	Pentachlorophenol	1.8	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Phenanthrene	0.37	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Phenol	0.37	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Pyrene	0.37	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Tetrachloroethane[1,1,1,2-]	0.0056	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Trichloroethane[1,1,1-]	0.0056	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Tetrachloroethane[1,1,2,2-]	0.0056	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Trichloroethane[1,1,2-]	0.0056	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Dichloroethane[1,1-]	0.0056	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Dichloroethene[1,1-]	0.0056	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Dichloropropene[1,1-]	0.0056	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Trichloropropane[1,2,3-]	0.0056	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Trimethylbenzene[1,2,4-]	0.0056	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Dibromo-3-chloropropane[1,2-]	0.011	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Dibromoethane[1,2-]	0.0056	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Dichlorobenzene[1,2-]	0.0056	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Dichloroethane[1,2-]	0.0056	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Dichloroethene[cis/trans-1,2-]	0.0056	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Dichloropropane[1,2-]	0.0056	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Trimethylbenzene[1,3,5-]	0.0056	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Dichlorobenzene[1,3-]	0.0056	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Dichloropropane[1,3-]	0.0056	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Dichlorobenzene[1,4-]	0.0056	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Dichloropropane[2,2-]	0.0056	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Butanone[2-]	0.023	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Chlorotoluene[2-]	0.0056	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Hexanone[2-]	0.023	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Chlorotoluene[4-]	0.0056	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Isopropyltoluene[4-]	0.0056	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Methyl-2-pentanone[4-]	0.023	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Acetone	0.023	UJ
54-15426	MD54-01-0030	11.5–12.5	ALLH	Benzene	0.0056	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Bromobenzene	0.0056	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Bromochloromethane	0.0056	U
54-15426	MD54-01-0030	11.5–12.5	ALLH	Bromodichloromethane	0.0056	U
54-15422	MD54-01-0021	3.67–4.17	FILL	pH	7.2[b]	None
54-15422	MD54-01-0021	3.67–4.17	FILL	Dibromo-3-chloropropane[1,2-]	0.011	U
54-15422	MD54-01-0021	3.67–4.17	FILL	Dibromoethane[1,2-]	0.0054	U
54-15422	MD54-01-0021	3.67–4.17	FILL	Dichlorobenzene[1,2-]	0.0054	U
54-15422	MD54-01-0021	3.67–4.17	FILL	Dichloroethane[1,2-]	0.0054	U
54-15422	MD54-01-0021	3.67–4.17	FILL	Dichloroethene[cis/trans-1,2-]	0.0054	U
54-15422	MD54-01-0021	3.67–4.17	FILL	Dichloropropane[1,2-]	0.0054	U
54-15422	MD54-01-0021	3.67–4.17	FILL	Trimethylbenzene[1,3,5-]	0.0054	U
54-15422	MD54-01-0021	3.67–4.17	FILL	Dichlorobenzene[1,3-]	0.0054	U
54-15422	MD54-01-0021	3.67–4.17	FILL	Dichloropropane[1,3-]	0.0054	U
54-15422	MD54-01-0021	3.67–4.17	FILL	Dichlorobenzene[1,4-]	0.0054	U

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15422	MD54-01-0021	3.67–4.17	Fill	Dichloropropane[2,2-]	0.0054	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Butanone[2-]	0.0084	J+
54-15422	MD54-01-0021	3.67–4.17	Fill	Chlorotoluene[2-]	0.0054	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Hexanone[2-]	0.022	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Chlorotoluene[4-]	0.0054	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Isopropyltoluene[4-]	0.0054	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Methyl-2-pentanone[4-]	0.022	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Phenanthrene	0.35	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Phenol	0.35	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Pyrene	0.35	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Acenaphthene	0.35	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Acenaphthylene	0.35	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Aniline	0.35	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Anthracene	0.35	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Azobenzene	0.35	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Benzo(a)anthracene	0.35	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Benzo(a)pyrene	0.35	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Benzo(b)fluoranthene	0.35	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Benzo(g,h,i)perylene	0.35	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Benzo(k)fluoranthene	0.35	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Benzoic acid	1.7	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Benzyl alcohol	0.35	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Trichlorobenzene[1,2,4-]	0.35	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Dichlorobenzene[1,2-]	0.35	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Dichlorobenzene[1,3-]	0.35	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Dichlorobenzene[1,4-]	0.35	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Oxybis(1-chloropropane)[2,2'-]	0.35	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Trichlorophenol[2,4,5-]	0.35	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Trichlorophenol[2,4,6-]	0.35	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Dichlorophenol[2,4-]	0.35	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Dimethylphenol[2,4-]	0.35	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Dinitrophenol[2,4-]	1.7	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Dinitrotoluene[2,4-]	0.35	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Dinitrotoluene[2,6-]	1.7	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Chloronaphthalene[2-]	0.35	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Chlorophenol[2-]	0.35	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Methylnaphthalene[2-]	0.35	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Methylphenol[2-]	0.35	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Nitroaniline[2-]	1.7	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Nitrophenol[2-]	0.35	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Dichlorobenzidine[3,3'-]	1.7	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Nitrosodimethylamine[N-]	0.35	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Nitrosodiphenylamine[N-]	0.35	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Naphthalene	0.35	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Nitrobenzene	0.35	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Pentachlorophenol	1.7	U

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15422	MD54-01-0021	3.67–4.17	Fill	Acetone	0.069	J+
54-15422	MD54-01-0021	3.67–4.17	Fill	Benzene	0.0016	J+
54-15422	MD54-01-0021	3.67–4.17	Fill	Bromobenzene	0.0054	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Bromochloromethane	0.0054	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Bromodichloromethane	0.0054	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Bromoform	0.0054	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Bromomethane	0.0023	J+
54-15422	MD54-01-0021	3.67–4.17	Fill	Carbon disulfide	0.002	J+
54-15422	MD54-01-0021	3.67–4.17	Fill	Carbon tetrachloride	0.0054	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Chlorobenzene	0.0054	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Chlorodibromomethane	0.0054	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Chloroethane	0.011	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Chloroform	0.0054	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Chloromethane	0.0054	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Dichloropropene[cis-1,3-]	0.0054	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Dibromomethane	0.0054	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Dichlorodifluoromethane	0.011	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Ethylbenzene	0.0054	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Iodomethane	0.0054	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Isopropylbenzene	0.0054	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Methylene chloride	0.0054	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Butylbenzene[n-]	0.0054	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Propylbenzene[1-]	0.0054	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Styrene	0.0054	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Butylbenzene[tert-]	0.0054	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Tetrachloroethene	0.0054	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Toluene	0.0054	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Dichloropropene[trans-1,3-]	0.0054	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Trichloroethene	0.0054	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Trichlorofluoromethane	0.011	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Trichlorotrifluoroethane	0.0054	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Vinyl chloride	0.011	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Xylene (total)	0.0054	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Tetrachloroethane[1,1,1,2-]	0.0054	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Trichloroethane[1,1,1-]	0.0054	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Tetrachloroethane[1,1,2,2-]	0.0054	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Trichloroethane[1,1,2-]	0.0054	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Dichloroethane[1,1-]	0.0054	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Dichloroethene[1,1-]	0.0054	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Dichloropropene[1,1-]	0.0054	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Trichloropropane[1,2,3-]	0.0054	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Nitroaniline[3-]	0.35	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Dinitro-2-methylphenol[4,6-]	1.7	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Bromophenyl-phenylether[4-]	0.35	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Chloro-3-methylphenol[4-]	0.35	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Chloroaniline[4-]	0.35	U

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15422	MD54-01-0021	3.67–4.17	Fill	Chlorophenyl-phenyl[4-] ether	0.35	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Methylphenol[4-]	0.35	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Nitroaniline[4-]	1.7	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Nitrophenol[4-]	1.7	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Bis(2-chloroethoxy)methane	0.35	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Bis(2-chloroethyl)ether	0.35	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Bis(2-ethylhexyl)phthalate	0.35	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Butylbenzylphthalate	0.35	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Chrysene	0.35	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Di-n-butylphthalate	0.35	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Di-n-octylphthalate	0.35	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Dibenz(a,h)anthracene	0.35	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Dibenzofuran	0.35	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Diethylphthalate	0.35	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Dimethyl phthalate	0.35	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Fluoranthene	0.35	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Fluorene	0.35	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Hexachlorobenzene	1.7	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Hexachlorobutadiene	0.35	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Hexachlorocyclopentadiene	1.7	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Hexachloroethane	0.35	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Indeno(1,2,3-cd)pyrene	0.35	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Isophorone	0.35	U
54-15422	MD54-01-0021	3.67–4.17	Fill	Nitroso-di-n-propylamine[N-]	0.35	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	pH	8.62[b]	None
54-15427	MD54-01-0031	5.25–6.25	ALLH	Tetrachloroethane[1,1,1,2-]	0.0057	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Trichloroethane[1,1,1-]	0.0057	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Tetrachloroethane[1,1,2,2-]	0.0057	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Trichloroethane[1,1,2-]	0.0057	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Dichloroethane[1,1-]	0.0057	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Isopropyltoluene[4-]	0.0057	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Methyl-2-pentanone[4-]	0.023	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Acetone	0.027	J
54-15427	MD54-01-0031	5.25–6.25	ALLH	Benzene	0.0057	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Bromobenzene	0.0057	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Bromochloromethane	0.0057	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Bromodichloromethane	0.0057	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Bromoform	0.0057	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Bromomethane	0.011	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Carbon disulfide	0.0057	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Carbon tetrachloride	0.0057	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Chlorobenzene	0.0057	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Chlorodibromomethane	0.0057	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Chloroethane	0.011	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Chloroform	0.0057	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Chloromethane	0.011	U

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15427	MD54-01-0031	5.25–6.25	ALLH	Trichlorobenzene[1,2,4-]	0.39	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Dichlorobenzene[1,2-]	0.39	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Dichlorobenzene[1,3-]	0.39	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Dichlorobenzene[1,4-]	0.39	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Oxybis(1-chloropropane)[2,2'-]	0.39	UJ
54-15427	MD54-01-0031	5.25–6.25	ALLH	Trichlorophenol[2,4,5-]	0.39	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Trichlorophenol[2,4,6-]	0.39	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Dichlorophenol[2,4-]	0.39	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Dimethylphenol[2,4-]	0.39	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Dinitrophenol[2,4-]	1.9	UJ
54-15427	MD54-01-0031	5.25–6.25	ALLH	Dinitrotoluene[2,4-]	0.39	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Bis(2-ethylhexyl)phthalate	0.39	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Butylbenzylphthalate	0.39	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Chrysene	0.39	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Di-n-butylphthalate	0.39	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Di-n-octylphthalate	0.39	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Dibenz(a,h)anthracene	0.39	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Dibenzofuran	0.39	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Diethylphthalate	0.39	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Dimethyl phthalate	0.39	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Fluoranthene	0.39	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Fluorene	0.39	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Hexachlorobenzene	0.39	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Hexachlorobutadiene	0.39	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Hexachlorocyclopentadiene	1.9	UJ
54-15427	MD54-01-0031	5.25–6.25	ALLH	Hexachloroethane	0.39	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Indeno(1,2,3-cd)pyrene	0.39	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Isophorone	0.39	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Nitroso-di-n-propylamine[N-]	0.39	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Nitrosodimethylamine[N-]	0.39	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Nitrosodiphenylamine[N-]	0.39	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Naphthalene	0.39	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Nitrobenzene	0.39	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Pentachlorophenol	1.9	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Phenanthrene	0.39	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Phenol	0.39	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Dichloroethene[1,1-]	0.0057	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Dichloropropene[1,1-]	0.0057	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Trichloropropane[1,2,3-]	0.0057	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Trimethylbenzene[1,2,4-]	0.0057	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Dibromo-3-chloropropane[1,2-]	0.011	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Dibromoethane[1,2-]	0.0057	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Dichlorobenzene[1,2-]	0.0057	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Dichloroethane[1,2-]	0.0057	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Dichloroethene[cis/trans-1,2-]	0.0057	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Dichloropropane[1,2-]	0.0057	U

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15427	MD54-01-0031	5.25–6.25	ALLH	Trimethylbenzene[1,3,5-]	0.0057	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Dichlorobenzene[1,3-]	0.0057	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Dichloropropane[1,3-]	0.0057	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Dichlorobenzene[1,4-]	0.0057	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Dichloropropane[2,2-]	0.0057	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Butanone[2-]	0.023	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Chlorotoluene[2-]	0.0057	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Hexanone[2-]	0.023	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Chlorotoluene[4-]	0.0057	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Dinitrotoluene[2,6-]	0.39	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Chloronaphthalene[2-]	0.39	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Chlorophenol[2-]	0.39	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Methylnaphthalene[2-]	0.39	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Chloroaniline[4-]	0.39	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Methylphenol[2-]	0.39	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Nitroaniline[2-]	1.9	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Nitrophenol[2-]	0.39	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Dichlorobenzidine[3,3'-]	1.9	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Nitroaniline[3-]	1.9	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Dinitro-2-methylphenol[4,6-]	1.9	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Bromophenyl-phenylether[4-]	0.39	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Chloro-3-methylphenol[4-]	0.39	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Chlorophenyl-phenyl[4-] ether	0.39	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Methylphenol[4-]	0.39	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Nitroaniline[4-]	1.9	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Nitrophenol[4-]	1.9	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Acenaphthene	0.39	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Acenaphthylene	0.39	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Aniline	0.39	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Anthracene	0.39	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Azobenzene	0.39	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Benzo(a)anthracene	0.39	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Benzo(a)pyrene	0.39	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Benzo(b)fluoranthene	0.39	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Benzo(g,h,i)perylene	0.39	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Benzo(k)fluoranthene	0.39	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Benzoic acid	1.9	UJ
54-15427	MD54-01-0031	5.25–6.25	ALLH	Benzyl alcohol	0.39	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Bis(2-chloroethoxy)methane	0.39	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Bis(2-chloroethyl)ether	0.39	UJ
54-15427	MD54-01-0031	5.25–6.25	ALLH	Pyrene	0.39	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Dichloropropene[cis-1,3-]	0.0057	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Dibromomethane	0.0057	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Dichlorodifluoromethane	0.011	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Ethylbenzene	0.0057	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Iodomethane	0.0057	U

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15427	MD54-01-0031	5.25–6.25	ALLH	Isopropylbenzene	0.0057	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Methylene chloride	0.0057	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Butylbenzene[n-]	0.0057	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Propylbenzene[1-]	0.0057	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Butylbenzene[sec-]	0.0057	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Styrene	0.0057	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Butylbenzene[tert-]	0.0057	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Tetrachloroethene	0.0057	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Toluene	0.0057	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Dichloropropene[trans-1,3-]	0.0057	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Trichloroethene	0.0057	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Trichlorofluoromethane	0.011	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Trichlorotrifluoroethane	0.0057	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Vinyl chloride	0.011	U
54-15427	MD54-01-0031	5.25–6.25	ALLH	Xylene (total)	0.0057	U
54-15448	MD54-01-0068	5.33–6	Fill	pH	6.33[b]	None
54-15448	MD54-01-0068	5.33–6	Fill	Dichloropropene[cis-1,3-]	0.0059	U
54-15448	MD54-01-0068	5.33–6	Fill	Dibromomethane	0.0059	U
54-15448	MD54-01-0068	5.33–6	Fill	Dichlorodifluoromethane	0.012	U
54-15448	MD54-01-0068	5.33–6	Fill	Ethylbenzene	0.0059	U
54-15448	MD54-01-0068	5.33–6	Fill	Iodomethane	0.0059	U
54-15448	MD54-01-0068	5.33–6	Fill	Isopropylbenzene	0.0059	U
54-15448	MD54-01-0068	5.33–6	Fill	Methylene chloride	0.0059	U
54-15448	MD54-01-0068	5.33–6	Fill	Butylbenzene[n-]	0.0059	U
54-15448	MD54-01-0068	5.33–6	Fill	Propylbenzene[1-]	0.0059	U
54-15448	MD54-01-0068	5.33–6	Fill	Butylbenzene[sec-]	0.0059	U
54-15448	MD54-01-0068	5.33–6	Fill	Styrene	0.0059	U
54-15448	MD54-01-0068	5.33–6	Fill	Butylbenzene[tert-]	0.0059	U
54-15448	MD54-01-0068	5.33–6	Fill	Tetrachloroethene	0.0059	U
54-15448	MD54-01-0068	5.33–6	Fill	Toluene	0.0059	U
54-15448	MD54-01-0068	5.33–6	Fill	Dichloropropene[trans-1,3-]	0.0059	U
54-15448	MD54-01-0068	5.33–6	Fill	Trichloroethene	0.0059	U
54-15448	MD54-01-0068	5.33–6	Fill	Trichlorofluoromethane	0.0032	J
54-15448	MD54-01-0068	5.33–6	Fill	Trichlorotrifluoroethane	0.0059	U
54-15448	MD54-01-0068	5.33–6	Fill	Vinyl chloride	0.012	U
54-15448	MD54-01-0068	5.33–6	Fill	Xylene (total)	0.0059	U
54-15448	MD54-01-0068	5.33–6	Fill	Tetrachloroethane[1,1,1,2-]	0.0059	U
54-15448	MD54-01-0068	5.33–6	Fill	Trichloroethane[1,1,1-]	0.0059	U
54-15448	MD54-01-0068	5.33–6	Fill	Tetrachloroethane[1,1,2,2-]	0.0059	U
54-15448	MD54-01-0068	5.33–6	Fill	Trichloroethane[1,1,2-]	0.0059	U
54-15448	MD54-01-0068	5.33–6	Fill	Dichloroethane[1,1-]	0.0059	U
54-15448	MD54-01-0068	5.33–6	Fill	Dichloroethene[1,1-]	0.0059	U
54-15448	MD54-01-0068	5.33–6	Fill	Dichloropropene[1,1-]	0.0059	U
54-15448	MD54-01-0068	5.33–6	Fill	Trichloropropane[1,2,3-]	0.0059	U
54-15448	MD54-01-0068	5.33–6	Fill	Trimethylbenzene[1,2,4-]	0.0059	U
54-15448	MD54-01-0068	5.33–6	Fill	Dibromo-3-chloropropane[1,2-]	0.012	U

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15448	MD54-01-0068	5.33–6	Fill	Dibromoethane[1,2-]	0.0059	U
54-15448	MD54-01-0068	5.33–6	Fill	Dichlorobenzene[1,2-]	0.0059	U
54-15448	MD54-01-0068	5.33–6	Fill	Dichloroethane[1,2-]	0.0059	U
54-15448	MD54-01-0068	5.33–6	Fill	Dichloroethene[cis/trans-1,2-]	0.0059	U
54-15448	MD54-01-0068	5.33–6	Fill	Dichloropropane[1,2-]	0.0059	U
54-15448	MD54-01-0068	5.33–6	Fill	Trimethylbenzene[1,3,5-]	0.0059	U
54-15448	MD54-01-0068	5.33–6	Fill	Dichlorobenzene[1,3-]	0.0059	U
54-15448	MD54-01-0068	5.33–6	Fill	Dichloropropane[1,3-]	0.0059	U
54-15448	MD54-01-0068	5.33–6	Fill	Dichlorobenzene[1,4-]	0.0059	U
54-15448	MD54-01-0068	5.33–6	Fill	Dichloropropane[2,2-]	0.0059	U
54-15448	MD54-01-0068	5.33–6	Fill	Butanone[2-]	0.023	U
54-15448	MD54-01-0068	5.33–6	Fill	Chlorotoluene[2-]	0.0059	U
54-15448	MD54-01-0068	5.33–6	Fill	Hexanone[2-]	0.023	U
54-15448	MD54-01-0068	5.33–6	Fill	Chlorotoluene[4-]	0.0059	U
54-15448	MD54-01-0068	5.33–6	Fill	Isopropyltoluene[4-]	0.0059	U
54-15448	MD54-01-0068	5.33–6	Fill	Methyl-2-pentanone[4-]	0.023	U
54-15448	MD54-01-0068	5.33–6	Fill	Acetone	0.014	J
54-15448	MD54-01-0068	5.33–6	Fill	Benzene	0.0059	U
54-15448	MD54-01-0068	5.33–6	Fill	Bromobenzene	0.0059	U
54-15448	MD54-01-0068	5.33–6	Fill	Bromochloromethane	0.0059	U
54-15448	MD54-01-0068	5.33–6	Fill	Bromodichloromethane	0.0059	U
54-15448	MD54-01-0068	5.33–6	Fill	Bromoform	0.0059	U
54-15448	MD54-01-0068	5.33–6	Fill	Bromomethane	0.012	U
54-15448	MD54-01-0068	5.33–6	Fill	Carbon disulfide	0.0059	U
54-15448	MD54-01-0068	5.33–6	Fill	Carbon tetrachloride	0.0059	U
54-15448	MD54-01-0068	5.33–6	Fill	Chlorobenzene	0.0059	U
54-15448	MD54-01-0068	5.33–6	Fill	Chlorodibromomethane	0.0059	U
54-15448	MD54-01-0068	5.33–6	Fill	Chloroethane	0.012	U
54-15448	MD54-01-0068	5.33–6	Fill	Chloroform	0.0059	U
54-15448	MD54-01-0068	5.33–6	Fill	Chloromethane	0.012	U
54-15448	MD54-01-0068	5.33–6	Fill	Trichlorobenzene[1,2,4-]	0.35	U
54-15448	MD54-01-0068	5.33–6	Fill	Dichlorobenzene[1,2-]	0.35	U
54-15448	MD54-01-0068	5.33–6	Fill	Dichlorobenzene[1,3-]	0.35	U
54-15448	MD54-01-0068	5.33–6	Fill	Dichlorobenzene[1,4-]	0.35	U
54-15448	MD54-01-0068	5.33–6	Fill	Oxybis(1-chloropropane)[2,2'-]	0.35	U
54-15448	MD54-01-0068	5.33–6	Fill	Trichlorophenol[2,4,5-]	0.35	U
54-15448	MD54-01-0068	5.33–6	Fill	Trichlorophenol[2,4,6-]	0.35	U
54-15448	MD54-01-0068	5.33–6	Fill	Dichlorophenol[2,4-]	0.35	U
54-15448	MD54-01-0068	5.33–6	Fill	Dimethylphenol[2,4-]	0.35	U
54-15448	MD54-01-0068	5.33–6	Fill	Dinitrophenol[2,4-]	1.7	U
54-15448	MD54-01-0068	5.33–6	Fill	Dinitrotoluene[2,4-]	0.35	U
54-15448	MD54-01-0068	5.33–6	Fill	Dinitrotoluene[2,6-]	0.35	U
54-15448	MD54-01-0068	5.33–6	Fill	Chloronaphthalene[2-]	0.35	U
54-15448	MD54-01-0068	5.33–6	Fill	Chlorophenol[2-]	0.35	U
54-15448	MD54-01-0068	5.33–6	Fill	Methylnaphthalene[2-]	0.35	U
54-15448	MD54-01-0068	5.33–6	Fill	Methylphenol[2-]	0.35	U

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15448	MD54-01-0068	5.33–6	Fill	Nitroaniline[2-]	1.7	U
54-15448	MD54-01-0068	5.33–6	Fill	Nitrophenol[2-]	0.35	U
54-15448	MD54-01-0068	5.33–6	Fill	Dichlorobenzidine[3,3'-]	1.7	U
54-15448	MD54-01-0068	5.33–6	Fill	Nitroaniline[3-]	1.7	U
54-15448	MD54-01-0068	5.33–6	Fill	Dinitro-2-methylphenol[4,6-]	1.7	U
54-15448	MD54-01-0068	5.33–6	Fill	Bromophenyl-phenylether[4-]	0.35	U
54-15448	MD54-01-0068	5.33–6	Fill	Chloro-3-methylphenol[4-]	0.35	U
54-15448	MD54-01-0068	5.33–6	Fill	Chloroaniline[4-]	0.35	U
54-15448	MD54-01-0068	5.33–6	Fill	Chlorophenyl-phenyl[4-] ether	0.35	U
54-15448	MD54-01-0068	5.33–6	Fill	Methylphenol[4-]	0.35	U
54-15448	MD54-01-0068	5.33–6	Fill	Nitroaniline[4-]	1.7	U
54-15448	MD54-01-0068	5.33–6	Fill	Nitrophenol[4-]	1.7	U
54-15448	MD54-01-0068	5.33–6	Fill	Acenaphthene	0.35	U
54-15448	MD54-01-0068	5.33–6	Fill	Acenaphthylene	0.35	U
54-15448	MD54-01-0068	5.33–6	Fill	Aniline	0.35	U
54-15448	MD54-01-0068	5.33–6	Fill	Anthracene	0.35	U
54-15448	MD54-01-0068	5.33–6	Fill	Azobenzene	0.35	U
54-15448	MD54-01-0068	5.33–6	Fill	Benzo(a)anthracene	0.35	U
54-15448	MD54-01-0068	5.33–6	Fill	Benzo(a)pyrene	0.35	U
54-15448	MD54-01-0068	5.33–6	Fill	Benzo(b)fluoranthene	0.35	U
54-15448	MD54-01-0068	5.33–6	Fill	Benzo(g,h,i)perylene	0.35	U
54-15448	MD54-01-0068	5.33–6	Fill	Benzo(k)fluoranthene	0.35	U
54-15448	MD54-01-0068	5.33–6	Fill	Benzoic acid	1.7	U
54-15448	MD54-01-0068	5.33–6	Fill	Benzyl alcohol	0.35	U
54-15448	MD54-01-0068	5.33–6	Fill	Bis(2-chloroethoxy)methane	0.35	U
54-15448	MD54-01-0068	5.33–6	Fill	Bis(2-chloroethyl)ether	0.35	U
54-15448	MD54-01-0068	5.33–6	Fill	Bis(2-ethylhexyl)phthalate	0.35	U
54-15448	MD54-01-0068	5.33–6	Fill	Butylbenzylphthalate	0.35	U
54-15448	MD54-01-0068	5.33–6	Fill	Chrysene	0.35	U
54-15448	MD54-01-0068	5.33–6	Fill	Di-n-butylphthalate	0.35	U
54-15448	MD54-01-0068	5.33–6	Fill	Di-n-octylphthalate	0.35	U
54-15448	MD54-01-0068	5.33–6	Fill	Dibenz(a,h)anthracene	0.35	U
54-15448	MD54-01-0068	5.33–6	Fill	Dibenzofuran	0.35	U
54-15448	MD54-01-0068	5.33–6	Fill	Diethylphthalate	0.35	U
54-15448	MD54-01-0068	5.33–6	Fill	Dimethyl phthalate	0.35	U
54-15448	MD54-01-0068	5.33–6	Fill	Fluoranthene	0.35	U
54-15448	MD54-01-0068	5.33–6	Fill	Fluorene	0.35	U
54-15448	MD54-01-0068	5.33–6	Fill	Hexachlorobenzene	0.35	U
54-15448	MD54-01-0068	5.33–6	Fill	Hexachlorobutadiene	0.35	U
54-15448	MD54-01-0068	5.33–6	Fill	Hexachlorocyclopentadiene	1.7	U
54-15448	MD54-01-0068	5.33–6	Fill	Hexachloroethane	0.35	U
54-15448	MD54-01-0068	5.33–6	Fill	Indeno(1,2,3-cd)pyrene	0.35	U
54-15448	MD54-01-0068	5.33–6	Fill	Isophorone	0.35	U
54-15448	MD54-01-0068	5.33–6	Fill	Nitroso-di-n-propylamine[N-]	0.35	U
54-15448	MD54-01-0068	5.33–6	Fill	Nitrosodimethylamine[N-]	0.35	U
54-15448	MD54-01-0068	5.33–6	Fill	Nitrosodiphenylamine[N-]	0.35	U

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15448	MD54-01-0068	5.33–6	Fill	Naphthalene	0.35	U
54-15448	MD54-01-0068	5.33–6	Fill	Nitrobenzene	0.35	U
54-15448	MD54-01-0068	5.33–6	Fill	Pentachlorophenol	1.7	U
54-15448	MD54-01-0068	5.33–6	Fill	Phenanthrene	0.35	U
54-15448	MD54-01-0068	5.33–6	Fill	Phenol	0.35	U
54-15448	MD54-01-0068	5.33–6	Fill	Pyrene	0.35	U
54-15449	MD54-01-0070	5–6	Fill	Methylene chloride	0.0056	U
54-15449	MD54-01-0070	5–6	Fill	Butylbenzene[n-]	0.0056	U
54-15449	MD54-01-0070	5–6	Fill	Propylbenzene[1-]	0.0056	U
54-15449	MD54-01-0070	5–6	Fill	Butylbenzene[sec-]	0.0056	U
54-15449	MD54-01-0070	5–6	Fill	Styrene	0.0056	U
54-15449	MD54-01-0070	5–6	Fill	Butylbenzene[tert-]	0.0056	U
54-15449	MD54-01-0070	5–6	Fill	Tetrachloroethene	0.0056	U
54-15449	MD54-01-0070	5–6	Fill	Toluene	0.0025	J
54-15449	MD54-01-0070	5–6	Fill	Dichloropropene[trans-1,3-]	0.0056	U
54-15449	MD54-01-0070	5–6	Fill	Trichloroethene	0.0056	U
54-15449	MD54-01-0070	5–6	Fill	Trichlorofluoromethane	0.011	U
54-15449	MD54-01-0070	5–6	Fill	Trichlorotrifluoroethane	0.0056	U
54-15449	MD54-01-0070	5–6	Fill	Vinyl chloride	0.011	U
54-15449	MD54-01-0070	5–6	Fill	Xylene (total)	0.0056	U
54-15449	MD54-01-0070	5–6	Fill	pH	6.93[b]	None
54-15449	MD54-01-0070	5–6	Fill	Tetrachloroethane[1,1,1,2-]	0.0056	U
54-15449	MD54-01-0070	5–6	Fill	Trichloroethane[1,1,1-]	0.0056	U
54-15449	MD54-01-0070	5–6	Fill	Tetrachloroethane[1,1,2,2-]	0.0056	U
54-15449	MD54-01-0070	5–6	Fill	Trichloroethane[1,1,2-]	0.0056	U
54-15449	MD54-01-0070	5–6	Fill	Dichloroethane[1,1-]	0.0056	U
54-15449	MD54-01-0070	5–6	Fill	Dichloroethene[1,1-]	0.0056	U
54-15449	MD54-01-0070	5–6	Fill	Dichloropropene[1,1-]	0.0056	U
54-15449	MD54-01-0070	5–6	Fill	Trichloropropane[1,2,3-]	0.0056	U
54-15449	MD54-01-0070	5–6	Fill	Trimethylbenzene[1,2,4-]	0.0032	J
54-15449	MD54-01-0070	5–6	Fill	Dibromo-3-chloropropane[1,2-]	0.011	U
54-15449	MD54-01-0070	5–6	Fill	Dibromoethane[1,2-]	0.0056	U
54-15449	MD54-01-0070	5–6	Fill	Dichlorobenzene[1,2-]	0.0056	U
54-15449	MD54-01-0070	5–6	Fill	Dichloroethane[1,2-]	0.0056	U
54-15449	MD54-01-0070	5–6	Fill	Dichloroethene[cis/trans-1,2-]	0.0056	U
54-15449	MD54-01-0070	5–6	Fill	Dichloropropane[1,2-]	0.0056	U
54-15449	MD54-01-0070	5–6	Fill	Trimethylbenzene[1,3,5-]	0.0056	U
54-15449	MD54-01-0070	5–6	Fill	Dichlorobenzene[1,3-]	0.0056	U
54-15449	MD54-01-0070	5–6	Fill	Dichloropropane[1,3-]	0.0056	U
54-15449	MD54-01-0070	5–6	Fill	Dichlorobenzene[1,4-]	0.0056	U
54-15449	MD54-01-0070	5–6	Fill	Dichloropropane[2,2-]	0.0056	U
54-15449	MD54-01-0070	5–6	Fill	Butanone[2-]	0.0095	J
54-15449	MD54-01-0070	5–6	Fill	Chlorotoluene[2-]	0.0056	U
54-15449	MD54-01-0070	5–6	Fill	Hexanone[2-]	0.023	U
54-15449	MD54-01-0070	5–6	Fill	Chlorotoluene[4-]	0.0056	U
54-15449	MD54-01-0070	5–6	Fill	Isopropyltoluene[4-]	0.0048	J

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15449	MD54-01-0070	5–6	Fill	Methyl-2-pentanone[4-]	0.0063	J
54-15449	MD54-01-0070	5–6	Fill	Acetone	0.037	None
54-15449	MD54-01-0070	5–6	Fill	Benzene	0.0056	U
54-15449	MD54-01-0070	5–6	Fill	Bromobenzene	0.0056	U
54-15449	MD54-01-0070	5–6	Fill	Bromochloromethane	0.0056	U
54-15449	MD54-01-0070	5–6	Fill	Bromodichloromethane	0.0056	U
54-15449	MD54-01-0070	5–6	Fill	Bromoform	0.0056	U
54-15449	MD54-01-0070	5–6	Fill	Bromomethane	0.011	U
54-15449	MD54-01-0070	5–6	Fill	Carbon disulfide	0.0056	U
54-15449	MD54-01-0070	5–6	Fill	Carbon tetrachloride	0.0056	U
54-15449	MD54-01-0070	5–6	Fill	Chlorobenzene	0.0056	U
54-15449	MD54-01-0070	5–6	Fill	Chlorodibromomethane	0.0056	U
54-15449	MD54-01-0070	5–6	Fill	Chloroethane	0.011	U
54-15449	MD54-01-0070	5–6	Fill	Chloroform	0.0056	U
54-15449	MD54-01-0070	5–6	Fill	Chloromethane	0.011	U
54-15449	MD54-01-0070	5–6	Fill	Dichloropropene[cis-1,3-]	0.0056	U
54-15449	MD54-01-0070	5–6	Fill	Dibromomethane	0.0056	U
54-15449	MD54-01-0070	5–6	Fill	Dichlorodifluoromethane	0.011	U
54-15449	MD54-01-0070	5–6	Fill	Ethylbenzene	0.0056	U
54-15449	MD54-01-0070	5–6	Fill	Iodomethane	0.0056	U
54-15449	MD54-01-0070	5–6	Fill	Isopropylbenzene	0.0017	J
54-15449	MD54-01-0070	5–6	Fill	Trichlorobenzene[1,2,4-]	0.35	U
54-15449	MD54-01-0070	5–6	Fill	Dichlorobenzene[1,2-]	0.35	U
54-15449	MD54-01-0070	5–6	Fill	Dichlorobenzene[1,3-]	0.35	U
54-15449	MD54-01-0070	5–6	Fill	Dichlorobenzene[1,4-]	0.35	U
54-15449	MD54-01-0070	5–6	Fill	Oxybis(1-chloropropane)[2,2'-]	0.35	U
54-15449	MD54-01-0070	5–6	Fill	Trichlorophenol[2,4,5-]	0.35	U
54-15449	MD54-01-0070	5–6	Fill	Trichlorophenol[2,4,6-]	0.35	U
54-15449	MD54-01-0070	5–6	Fill	Dichlorophenol[2,4-]	0.35	U
54-15449	MD54-01-0070	5–6	Fill	Dimethylphenol[2,4-]	0.35	U
54-15449	MD54-01-0070	5–6	Fill	Dinitrophenol[2,4-]	1.7	U
54-15449	MD54-01-0070	5–6	Fill	Dinitrotoluene[2,4-]	0.35	U
54-15449	MD54-01-0070	5–6	Fill	Dinitrotoluene[2,6-]	0.35	U
54-15449	MD54-01-0070	5–6	Fill	Chloronaphthalene[2-]	0.35	U
54-15449	MD54-01-0070	5–6	Fill	Chlorophenol[2-]	0.35	U
54-15449	MD54-01-0070	5–6	Fill	Methylnaphthalene[2-]	0.35	U
54-15449	MD54-01-0070	5–6	Fill	Methylphenol[2-]	0.35	U
54-15449	MD54-01-0070	5–6	Fill	Nitroaniline[2-]	1.7	U
54-15449	MD54-01-0070	5–6	Fill	Nitrophenol[2-]	0.35	U
54-15449	MD54-01-0070	5–6	Fill	Dichlorobenzidine[3,3'-]	1.7	U
54-15449	MD54-01-0070	5–6	Fill	Nitroaniline[3-]	1.7	U
54-15449	MD54-01-0070	5–6	Fill	Dinitro-2-methylphenol[4,6-]	1.7	U
54-15449	MD54-01-0070	5–6	Fill	Bromophenyl-phenylether[4-]	0.35	U
54-15449	MD54-01-0070	5–6	Fill	Chloro-3-methylphenol[4-]	0.35	U
54-15449	MD54-01-0070	5–6	Fill	Chloroaniline[4-]	0.35	U
54-15449	MD54-01-0070	5–6	Fill	Chlorophenyl-phenyl[4-] ether	0.35	U

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15449	MD54-01-0070	5–6	Fill	Methylphenol[4-]	0.35	U
54-15449	MD54-01-0070	5–6	Fill	Nitroaniline[4-]	1.7	U
54-15449	MD54-01-0070	5–6	Fill	Nitrophenol[4-]	1.7	U
54-15449	MD54-01-0070	5–6	Fill	Acenaphthene	0.35	U
54-15449	MD54-01-0070	5–6	Fill	Acenaphthylene	0.35	U
54-15449	MD54-01-0070	5–6	Fill	Aniline	0.35	U
54-15449	MD54-01-0070	5–6	Fill	Anthracene	0.35	U
54-15449	MD54-01-0070	5–6	Fill	Azobenzene	0.35	U
54-15449	MD54-01-0070	5–6	Fill	Benzo(a)anthracene	0.35	U
54-15449	MD54-01-0070	5–6	Fill	Benzo(a)pyrene	0.35	U
54-15449	MD54-01-0070	5–6	Fill	Benzo(b)fluoranthene	0.35	U
54-15449	MD54-01-0070	5–6	Fill	Benzo(g,h,i)perylene	0.35	U
54-15449	MD54-01-0070	5–6	Fill	Benzo(k)fluoranthene	0.35	U
54-15449	MD54-01-0070	5–6	Fill	Benzoic acid	1.7	U
54-15449	MD54-01-0070	5–6	Fill	Benzyl alcohol	0.35	U
54-15449	MD54-01-0070	5–6	Fill	Bis(2-chloroethoxy)methane	0.35	U
54-15449	MD54-01-0070	5–6	Fill	Bis(2-chloroethyl)ether	0.35	U
54-15449	MD54-01-0070	5–6	Fill	Bis(2-ethylhexyl)phthalate	0.31	J
54-15449	MD54-01-0070	5–6	Fill	Butylbenzylphthalate	0.35	U
54-15449	MD54-01-0070	5–6	Fill	Chrysene	0.35	U
54-15449	MD54-01-0070	5–6	Fill	Di-n-butylphthalate	0.35	U
54-15449	MD54-01-0070	5–6	Fill	Di-n-octylphthalate	0.35	U
54-15449	MD54-01-0070	5–6	Fill	Dibenz(a,h)anthracene	0.35	U
54-15449	MD54-01-0070	5–6	Fill	Dibenzofuran	0.35	U
54-15449	MD54-01-0070	5–6	Fill	Diethylphthalate	0.35	U
54-15449	MD54-01-0070	5–6	Fill	Dimethyl phthalate	0.35	U
54-15449	MD54-01-0070	5–6	Fill	Fluoranthene	0.35	U
54-15449	MD54-01-0070	5–6	Fill	Fluorene	0.35	U
54-15449	MD54-01-0070	5–6	Fill	Hexachlorobenzene	0.35	U
54-15449	MD54-01-0070	5–6	Fill	Hexachlorobutadiene	0.35	U
54-15449	MD54-01-0070	5–6	Fill	Hexachlorocyclopentadiene	1.7	U
54-15449	MD54-01-0070	5–6	Fill	Hexachloroethane	0.35	U
54-15449	MD54-01-0070	5–6	Fill	Indeno(1,2,3-cd)pyrene	0.35	U
54-15449	MD54-01-0070	5–6	Fill	Isophorone	0.35	U
54-15449	MD54-01-0070	5–6	Fill	Nitroso-di-n-propylamine[N-]	0.35	U
54-15449	MD54-01-0070	5–6	Fill	Nitrosodimethylamine[N-]	0.35	U
54-15449	MD54-01-0070	5–6	Fill	Nitrosodiphenylamine[N-]	0.35	U
54-15449	MD54-01-0070	5–6	Fill	Naphthalene	0.35	U
54-15449	MD54-01-0070	5–6	Fill	Nitrobenzene	0.35	U
54-15449	MD54-01-0070	5–6	Fill	Pentachlorophenol	1.7	U
54-15449	MD54-01-0070	5–6	Fill	Phenanthrene	0.35	U
54-15449	MD54-01-0070	5–6	Fill	Phenol	0.35	U
54-15449	MD54-01-0070	5–6	Fill	Pyrene	0.35	U
54-15450	MD54-01-0072	5–6	Fill	Tetrachloroethane[1,1,2,2-]	0.006	U
54-15450	MD54-01-0072	5–6	Fill	Trichloroethane[1,1,2-]	0.006	U
54-15450	MD54-01-0072	5–6	Fill	Dichloroethane[1,1-]	0.006	U

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15450	MD54-01-0072	5-6	Fill	Dichloroethene[1,1-]	0.006	U
54-15450	MD54-01-0072	5-6	Fill	Dichloropropene[1,1-]	0.006	U
54-15450	MD54-01-0072	5-6	Fill	Trichloropropane[1,2,3-]	0.006	U
54-15450	MD54-01-0072	5-6	Fill	Trimethylbenzene[1,2,4-]	0.006	U
54-15450	MD54-01-0072	5-6	Fill	Dibromo-3-chloropropane[1,2-]	0.012	U
54-15450	MD54-01-0072	5-6	Fill	Dibromoethane[1,2-]	0.006	U
54-15450	MD54-01-0072	5-6	Fill	Dichlorobenzene[1,2-]	0.006	U
54-15450	MD54-01-0072	5-6	Fill	Dichloroethane[1,2-]	0.006	U
54-15450	MD54-01-0072	5-6	Fill	Dichloroethene[cis/trans-1,2-]	0.006	U
54-15450	MD54-01-0072	5-6	Fill	Dichloropropane[1,2-]	0.006	U
54-15450	MD54-01-0072	5-6	Fill	Trimethylbenzene[1,3,5-]	0.006	U
54-15450	MD54-01-0072	5-6	Fill	Dichlorobenzene[1,3-]	0.006	U
54-15450	MD54-01-0072	5-6	Fill	Dichloropropane[1,3-]	0.006	U
54-15450	MD54-01-0072	5-6	Fill	Dichlorobenzene[1,4-]	0.006	U
54-15450	MD54-01-0072	5-6	Fill	Dichloropropane[2,2-]	0.006	U
54-15450	MD54-01-0072	5-6	Fill	Butanone[2-]	0.024	U
54-15450	MD54-01-0072	5-6	Fill	Chlorotoluene[2-]	0.006	U
54-15450	MD54-01-0072	5-6	Fill	Hexanone[2-]	0.024	U
54-15450	MD54-01-0072	5-6	Fill	Chlorotoluene[4-]	0.006	U
54-15450	MD54-01-0072	5-6	Fill	Isopropyltoluene[4-]	0.0033	J
54-15450	MD54-01-0072	5-6	Fill	Methyl-2-pentanone[4-]	0.024	U
54-15450	MD54-01-0072	5-6	Fill	Acetone	0.045	None
54-15450	MD54-01-0072	5-6	Fill	Benzene	0.006	U
54-15450	MD54-01-0072	5-6	Fill	Bromobenzene	0.006	U
54-15450	MD54-01-0072	5-6	Fill	Bromochloromethane	0.006	U
54-15450	MD54-01-0072	5-6	Fill	Bromodichloromethane	0.006	U
54-15450	MD54-01-0072	5-6	Fill	Bromoform	0.006	U
54-15450	MD54-01-0072	5-6	Fill	Bromomethane	0.012	U
54-15450	MD54-01-0072	5-6	Fill	Carbon disulfide	0.006	U
54-15450	MD54-01-0072	5-6	Fill	pH	6.74[b]	None
54-15450	MD54-01-0072	5-6	Fill	Phenanthrene	0.36	U
54-15450	MD54-01-0072	5-6	Fill	Phenol	0.36	U
54-15450	MD54-01-0072	5-6	Fill	Pyrene	0.36	U
54-15450	MD54-01-0072	5-6	Fill	Dinitrotoluene[2,4-]	0.36	U
54-15450	MD54-01-0072	5-6	Fill	Dinitrotoluene[2,6-]	0.36	U
54-15450	MD54-01-0072	5-6	Fill	Chloronaphthalene[2-]	0.36	U
54-15450	MD54-01-0072	5-6	Fill	Chlorophenol[2-]	0.36	U
54-15450	MD54-01-0072	5-6	Fill	Methylnaphthalene[2-]	0.36	U
54-15450	MD54-01-0072	5-6	Fill	Methylphenol[2-]	0.36	U
54-15450	MD54-01-0072	5-6	Fill	Nitroaniline[2-]	1.7	U
54-15450	MD54-01-0072	5-6	Fill	Nitrophenol[2-]	0.36	U
54-15450	MD54-01-0072	5-6	Fill	Dichlorobenzidine[3,3'-]	1.7	U
54-15450	MD54-01-0072	5-6	Fill	Nitroaniline[3-]	1.7	U
54-15450	MD54-01-0072	5-6	Fill	Dinitro-2-methylphenol[4,6-]	1.7	U
54-15450	MD54-01-0072	5-6	Fill	Bromophenyl-phenylether[4-]	0.36	U
54-15450	MD54-01-0072	5-6	Fill	Chloro-3-methylphenol[4-]	0.36	U

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15450	MD54-01-0072	5–6	Fill	Chloroaniline[4-]	0.36	U
54-15450	MD54-01-0072	5–6	Fill	Chlorophenyl-phenyl[4-] ether	0.36	U
54-15450	MD54-01-0072	5–6	Fill	Methylphenol[4-]	0.36	U
54-15450	MD54-01-0072	5–6	Fill	Nitroaniline[4-]	1.7	U
54-15450	MD54-01-0072	5–6	Fill	Nitrophenol[4-]	1.7	U
54-15450	MD54-01-0072	5–6	Fill	Acenaphthene	0.36	U
54-15450	MD54-01-0072	5–6	Fill	Acenaphthylene	0.36	U
54-15450	MD54-01-0072	5–6	Fill	Aniline	0.36	U
54-15450	MD54-01-0072	5–6	Fill	Anthracene	0.36	U
54-15450	MD54-01-0072	5–6	Fill	Azobenzene	0.36	U
54-15450	MD54-01-0072	5–6	Fill	Benzo(a)anthracene	0.36	U
54-15450	MD54-01-0072	5–6	Fill	Benzo(a)pyrene	0.36	U
54-15450	MD54-01-0072	5–6	Fill	Benzo(b)fluoranthene	0.36	U
54-15450	MD54-01-0072	5–6	Fill	Benzo(g,h,i)perylene	0.36	U
54-15450	MD54-01-0072	5–6	Fill	Benzo(k)fluoranthene	0.36	U
54-15450	MD54-01-0072	5–6	Fill	Benzoic acid	1.7	U
54-15450	MD54-01-0072	5–6	Fill	Benzyl alcohol	0.36	U
54-15450	MD54-01-0072	5–6	Fill	Bis(2-chloroethoxy)methane	0.36	U
54-15450	MD54-01-0072	5–6	Fill	Bis(2-chloroethyl)ether	0.36	U
54-15450	MD54-01-0072	5–6	Fill	Bis(2-ethylhexyl)phthalate	0.36	U
54-15450	MD54-01-0072	5–6	Fill	Butylbenzylphthalate	0.36	U
54-15450	MD54-01-0072	5–6	Fill	Chrysene	0.36	U
54-15450	MD54-01-0072	5–6	Fill	Di-n-butylphthalate	0.36	U
54-15450	MD54-01-0072	5–6	Fill	Di-n-octylphthalate	0.36	U
54-15450	MD54-01-0072	5–6	Fill	Dibenz(a,h)anthracene	0.36	U
54-15450	MD54-01-0072	5–6	Fill	Dibenzofuran	0.36	U
54-15450	MD54-01-0072	5–6	Fill	Diethylphthalate	0.36	U
54-15450	MD54-01-0072	5–6	Fill	Dimethyl phthalate	0.36	U
54-15450	MD54-01-0072	5–6	Fill	Fluoranthene	0.36	U
54-15450	MD54-01-0072	5–6	Fill	Fluorene	0.36	U
54-15450	MD54-01-0072	5–6	Fill	Hexachlorobenzene	0.36	U
54-15450	MD54-01-0072	5–6	Fill	Hexachlorobutadiene	0.36	U
54-15450	MD54-01-0072	5–6	Fill	Hexachlorocyclopentadiene	1.7	U
54-15450	MD54-01-0072	5–6	Fill	Hexachloroethane	0.36	U
54-15450	MD54-01-0072	5–6	Fill	Indeno(1,2,3-cd)pyrene	0.36	U
54-15450	MD54-01-0072	5–6	Fill	Isophorone	0.36	U
54-15450	MD54-01-0072	5–6	Fill	Nitroso-di-n-propylamine[N-]	0.36	U
54-15450	MD54-01-0072	5–6	Fill	Nitrosodimethylamine[N-]	0.36	U
54-15450	MD54-01-0072	5–6	Fill	Nitrosodiphenylamine[N-]	0.36	U
54-15450	MD54-01-0072	5–6	Fill	Naphthalene	0.36	U
54-15450	MD54-01-0072	5–6	Fill	Nitrobenzene	0.36	U
54-15450	MD54-01-0072	5–6	Fill	Pentachlorophenol	1.7	U
54-15450	MD54-01-0072	5–6	Fill	Carbon tetrachloride	0.006	U
54-15450	MD54-01-0072	5–6	Fill	Chlorobenzene	0.006	U
54-15450	MD54-01-0072	5–6	Fill	Chlorodibromomethane	0.006	U
54-15450	MD54-01-0072	5–6	Fill	Chloroethane	0.012	U

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15450	MD54-01-0072	5-6	Fill	Chloroform	0.006	U
54-15450	MD54-01-0072	5-6	Fill	Chloromethane	0.012	U
54-15450	MD54-01-0072	5-6	Fill	Dichloropropene[cis-1,3-]	0.006	U
54-15450	MD54-01-0072	5-6	Fill	Dibromomethane	0.006	U
54-15450	MD54-01-0072	5-6	Fill	Dichlorodifluoromethane	0.012	U
54-15450	MD54-01-0072	5-6	Fill	Ethylbenzene	0.006	U
54-15450	MD54-01-0072	5-6	Fill	Iodomethane	0.006	U
54-15450	MD54-01-0072	5-6	Fill	Isopropylbenzene	0.006	U
54-15450	MD54-01-0072	5-6	Fill	Methylene chloride	0.006	U
54-15450	MD54-01-0072	5-6	Fill	Butylbenzene[n-]	0.006	U
54-15450	MD54-01-0072	5-6	Fill	Propylbenzene[1-]	0.006	U
54-15450	MD54-01-0072	5-6	Fill	Butylbenzene[sec-]	0.006	U
54-15450	MD54-01-0072	5-6	Fill	Styrene	0.006	U
54-15450	MD54-01-0072	5-6	Fill	Butylbenzene[tert-]	0.006	U
54-15450	MD54-01-0072	5-6	Fill	Tetrachloroethene	0.006	U
54-15450	MD54-01-0072	5-6	Fill	Toluene	0.0073	None
54-15450	MD54-01-0072	5-6	Fill	Dichloropropene[trans-1,3-]	0.006	U
54-15450	MD54-01-0072	5-6	Fill	Trichloroethene	0.006	U
54-15450	MD54-01-0072	5-6	Fill	Trichlorofluoromethane	0.012	U
54-15450	MD54-01-0072	5-6	Fill	Trichlorotrifluoroethane	0.006	U
54-15450	MD54-01-0072	5-6	Fill	Vinyl chloride	0.012	U
54-15450	MD54-01-0072	5-6	Fill	Xylene (total)	0.006	U
54-15450	MD54-01-0072	5-6	Fill	Trichlorobenzene[1,2,4-]	0.36	U
54-15450	MD54-01-0072	5-6	Fill	Dichlorobenzene[1,2-]	0.36	U
54-15450	MD54-01-0072	5-6	Fill	Dichlorobenzene[1,3-]	0.36	U
54-15450	MD54-01-0072	5-6	Fill	Dichlorobenzene[1,4-]	0.36	U
54-15450	MD54-01-0072	5-6	Fill	Oxybis(1-chloropropane)[2,2'-]	0.36	U
54-15450	MD54-01-0072	5-6	Fill	Trichlorophenol[2,4,5-]	0.36	U
54-15450	MD54-01-0072	5-6	Fill	Trichlorophenol[2,4,6-]	0.36	U
54-15450	MD54-01-0072	5-6	Fill	Dichlorophenol[2,4-]	0.36	U
54-15450	MD54-01-0072	5-6	Fill	Dimethylphenol[2,4-]	0.36	U
54-15450	MD54-01-0072	5-6	Fill	Dinitrophenol[2,4-]	1.7	U
54-15450	MD54-01-0072	5-6	Fill	Tetrachloroethane[1,1,1,2-]	0.006	U
54-15450	MD54-01-0072	5-6	Fill	Trichloroethane[1,1,1-]	0.006	U
54-15451	MD54-01-0074	5-6	Fill	pH	6.92[b]	None
54-15451	MD54-01-0074	5-6	Fill	Chlorodibromomethane	0.0068	U
54-15451	MD54-01-0074	5-6	Fill	Chloroethane	0.014	U
54-15451	MD54-01-0074	5-6	Fill	Chloroform	0.0068	U
54-15451	MD54-01-0074	5-6	Fill	Chloromethane	0.014	U
54-15451	MD54-01-0074	5-6	Fill	Dichloropropene[cis-1,3-]	0.0068	U
54-15451	MD54-01-0074	5-6	Fill	Dibromomethane	0.0068	U
54-15451	MD54-01-0074	5-6	Fill	Dichlorodifluoromethane	0.014	U
54-15451	MD54-01-0074	5-6	Fill	Ethylbenzene	0.0068	U
54-15451	MD54-01-0074	5-6	Fill	Iodomethane	0.0068	U
54-15451	MD54-01-0074	5-6	Fill	Isopropylbenzene	0.0068	U
54-15451	MD54-01-0074	5-6	Fill	Methylene chloride	0.0068	U

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15451	MD54-01-0074	5–6	Fill	Butylbenzene[n-]	0.0068	U
54-15451	MD54-01-0074	5–6	Fill	Propylbenzene[1-]	0.0068	U
54-15451	MD54-01-0074	5–6	Fill	Butylbenzene[sec-]	0.0068	U
54-15451	MD54-01-0074	5–6	Fill	Styrene	0.0068	U
54-15451	MD54-01-0074	5–6	Fill	Butylbenzene[tert-]	0.0068	U
54-15451	MD54-01-0074	5–6	Fill	Tetrachloroethene	0.0068	U
54-15451	MD54-01-0074	5–6	Fill	Toluene	0.0068	U
54-15451	MD54-01-0074	5–6	Fill	Dichloropropene[trans-1,3-]	0.0068	U
54-15451	MD54-01-0074	5–6	Fill	Trichloroethene	0.0068	U
54-15451	MD54-01-0074	5–6	Fill	Trichlorofluoromethane	0.014	U
54-15451	MD54-01-0074	5–6	Fill	Trichlorotrifluoroethane	0.0068	U
54-15451	MD54-01-0074	5–6	Fill	Vinyl chloride	0.014	U
54-15451	MD54-01-0074	5–6	Fill	Xylene (total)	0.0068	U
54-15451	MD54-01-0074	5–6	Fill	Bis(2-chloroethyl)ether	0.36	UJ
54-15451	MD54-01-0074	5–6	Fill	Bis(2-ethylhexyl)phthalate	0.36	UJ
54-15451	MD54-01-0074	5–6	Fill	Butylbenzylphthalate	0.36	UJ
54-15451	MD54-01-0074	5–6	Fill	Chrysene	0.36	UJ
54-15451	MD54-01-0074	5–6	Fill	Di-n-butylphthalate	0.36	UJ
54-15451	MD54-01-0074	5–6	Fill	Di-n-octylphthalate	0.36	UJ
54-15451	MD54-01-0074	5–6	Fill	Dibenz(a,h)anthracene	0.36	UJ
54-15451	MD54-01-0074	5–6	Fill	Dibenzofuran	0.36	UJ
54-15451	MD54-01-0074	5–6	Fill	Diethylphthalate	0.36	UJ
54-15451	MD54-01-0074	5–6	Fill	Dimethyl phthalate	0.36	UJ
54-15451	MD54-01-0074	5–6	Fill	Fluoranthene	0.36	UJ
54-15451	MD54-01-0074	5–6	Fill	Fluorene	0.36	UJ
54-15451	MD54-01-0074	5–6	Fill	Hexachlorobenzene	0.36	UJ
54-15451	MD54-01-0074	5–6	Fill	Hexachlorobutadiene	0.36	UJ
54-15451	MD54-01-0074	5–6	Fill	Hexachlorocyclopentadiene	1.8	UJ
54-15451	MD54-01-0074	5–6	Fill	Hexachloroethane	0.36	UJ
54-15451	MD54-01-0074	5–6	Fill	Indeno(1,2,3-cd)pyrene	0.36	UJ
54-15451	MD54-01-0074	5–6	Fill	Isophorone	0.36	UJ
54-15451	MD54-01-0074	5–6	Fill	Nitroso-di-n-propylamine[N-]	0.36	UJ
54-15451	MD54-01-0074	5–6	Fill	Nitrosodimethylamine[N-]	0.36	UJ
54-15451	MD54-01-0074	5–6	Fill	Nitrosodiphenylamine[N-]	0.36	UJ
54-15451	MD54-01-0074	5–6	Fill	Naphthalene	0.36	UJ
54-15451	MD54-01-0074	5–6	Fill	Nitrobenzene	0.36	UJ
54-15451	MD54-01-0074	5–6	Fill	Pentachlorophenol	1.8	UJ
54-15451	MD54-01-0074	5–6	Fill	Phenanthrene	0.36	UJ
54-15451	MD54-01-0074	5–6	Fill	Phenol	0.36	UJ
54-15451	MD54-01-0074	5–6	Fill	Pyrene	0.36	UJ
54-15451	MD54-01-0074	5–6	Fill	Tetrachloroethane[1,1,1,2-]	0.0068	U
54-15451	MD54-01-0074	5–6	Fill	Trichloroethane[1,1,1-]	0.0068	U
54-15451	MD54-01-0074	5–6	Fill	Tetrachloroethane[1,1,2,2-]	0.0068	U
54-15451	MD54-01-0074	5–6	Fill	Trichloroethane[1,1,2-]	0.0068	U
54-15451	MD54-01-0074	5–6	Fill	Dichloroethane[1,1-]	0.0068	U
54-15451	MD54-01-0074	5–6	Fill	Dichloroethene[1,1-]	0.0068	U

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15451	MD54-01-0074	5–6	Fill	Dichloropropane[1,1-]	0.0068	U
54-15451	MD54-01-0074	5–6	Fill	Trichloropropane[1,2,3-]	0.0068	U
54-15451	MD54-01-0074	5–6	Fill	Trimethylbenzene[1,2,4-]	0.0068	U
54-15451	MD54-01-0074	5–6	Fill	Dibromo-3-chloropropane[1,2-]	0.014	U
54-15451	MD54-01-0074	5–6	Fill	Dibromoethane[1,2-]	0.0068	U
54-15451	MD54-01-0074	5–6	Fill	Dichlorobenzene[1,2-]	0.0068	U
54-15451	MD54-01-0074	5–6	Fill	Dichloroethane[1,2-]	0.0068	U
54-15451	MD54-01-0074	5–6	Fill	Dichloroethene[cis/trans-1,2-]	0.0068	U
54-15451	MD54-01-0074	5–6	Fill	Dichloropropane[1,2-]	0.0068	U
54-15451	MD54-01-0074	5–6	Fill	Trimethylbenzene[1,3,5-]	0.0068	U
54-15451	MD54-01-0074	5–6	Fill	Dichlorobenzene[1,3-]	0.0068	U
54-15451	MD54-01-0074	5–6	Fill	Dichloropropane[1,3-]	0.0068	U
54-15451	MD54-01-0074	5–6	Fill	Dichlorobenzene[1,4-]	0.0068	U
54-15451	MD54-01-0074	5–6	Fill	Dichloropropane[2,2-]	0.0068	U
54-15451	MD54-01-0074	5–6	Fill	Butanone[2-]	0.027	U
54-15451	MD54-01-0074	5–6	Fill	Chlorotoluene[2-]	0.0068	U
54-15451	MD54-01-0074	5–6	Fill	Hexanone[2-]	0.027	U
54-15451	MD54-01-0074	5–6	Fill	Chlorotoluene[4-]	0.0068	U
54-15451	MD54-01-0074	5–6	Fill	Isopropyltoluene[4-]	0.0068	U
54-15451	MD54-01-0074	5–6	Fill	Methyl-2-pentanone[4-]	0.027	U
54-15451	MD54-01-0074	5–6	Fill	Acetone	0.031	None
54-15451	MD54-01-0074	5–6	Fill	Benzene	0.0068	U
54-15451	MD54-01-0074	5–6	Fill	Bromobenzene	0.0068	U
54-15451	MD54-01-0074	5–6	Fill	Bromochloromethane	0.0068	U
54-15451	MD54-01-0074	5–6	Fill	Bromodichloromethane	0.0068	U
54-15451	MD54-01-0074	5–6	Fill	Bromoform	0.0068	U
54-15451	MD54-01-0074	5–6	Fill	Bromomethane	0.014	U
54-15451	MD54-01-0074	5–6	Fill	Carbon disulfide	0.0068	U
54-15451	MD54-01-0074	5–6	Fill	Carbon tetrachloride	0.0068	U
54-15451	MD54-01-0074	5–6	Fill	Chlorobenzene	0.0068	U
54-15451	MD54-01-0074	5–6	Fill	Trichlorobenzene[1,2,4-]	0.36	UJ
54-15451	MD54-01-0074	5–6	Fill	Dichlorobenzene[1,2-]	0.36	UJ
54-15451	MD54-01-0074	5–6	Fill	Dichlorobenzene[1,3-]	0.36	UJ
54-15451	MD54-01-0074	5–6	Fill	Dichlorobenzene[1,4-]	0.36	UJ
54-15451	MD54-01-0074	5–6	Fill	Oxybis(1-chloropropane)[2,2'-]	0.36	UJ
54-15451	MD54-01-0074	5–6	Fill	Trichlorophenol[2,4,5-]	0.36	UJ
54-15451	MD54-01-0074	5–6	Fill	Trichlorophenol[2,4,6-]	0.36	UJ
54-15451	MD54-01-0074	5–6	Fill	Dichlorophenol[2,4-]	0.36	UJ
54-15451	MD54-01-0074	5–6	Fill	Dimethylphenol[2,4-]	0.36	UJ
54-15451	MD54-01-0074	5–6	Fill	Dinitrophenol[2,4-]	1.8	UJ
54-15451	MD54-01-0074	5–6	Fill	Dinitrotoluene[2,4-]	0.36	UJ
54-15451	MD54-01-0074	5–6	Fill	Dinitrotoluene[2,6-]	0.36	UJ
54-15451	MD54-01-0074	5–6	Fill	Chloronaphthalene[2-]	0.36	UJ
54-15451	MD54-01-0074	5–6	Fill	Chlorophenol[2-]	0.36	UJ
54-15451	MD54-01-0074	5–6	Fill	Methylnaphthalene[2-]	0.36	UJ
54-15451	MD54-01-0074	5–6	Fill	Methylphenol[2-]	0.36	UJ

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15451	MD54-01-0074	5–6	Fill	Nitroaniline[2-]	1.8	UJ
54-15451	MD54-01-0074	5–6	Fill	Nitrophenol[2-]	0.36	UJ
54-15451	MD54-01-0074	5–6	Fill	Dichlorobenzidine[3,3'-]	1.8	UJ
54-15451	MD54-01-0074	5–6	Fill	Nitroaniline[3-]	1.8	UJ
54-15451	MD54-01-0074	5–6	Fill	Dinitro-2-methylphenol[4,6-]	1.8	UJ
54-15451	MD54-01-0074	5–6	Fill	Bromophenyl-phenylether[4-]	0.36	UJ
54-15451	MD54-01-0074	5–6	Fill	Chloro-3-methylphenol[4-]	0.36	UJ
54-15451	MD54-01-0074	5–6	Fill	Chloroaniline[4-]	0.36	UJ
54-15451	MD54-01-0074	5–6	Fill	Chlorophenyl-phenyl[4-] ether	0.36	UJ
54-15451	MD54-01-0074	5–6	Fill	Methylphenol[4-]	0.36	UJ
54-15451	MD54-01-0074	5–6	Fill	Nitroaniline[4-]	1.8	UJ
54-15451	MD54-01-0074	5–6	Fill	Nitrophenol[4-]	1.8	UJ
54-15451	MD54-01-0074	5–6	Fill	Acenaphthene	0.36	UJ
54-15451	MD54-01-0074	5–6	Fill	Acenaphthylene	0.36	UJ
54-15451	MD54-01-0074	5–6	Fill	Aniline	0.36	UJ
54-15451	MD54-01-0074	5–6	Fill	Anthracene	0.36	UJ
54-15451	MD54-01-0074	5–6	Fill	Azobenzene	0.36	UJ
54-15451	MD54-01-0074	5–6	Fill	Benzo(a)anthracene	0.36	UJ
54-15451	MD54-01-0074	5–6	Fill	Benzo(a)pyrene	0.36	UJ
54-15451	MD54-01-0074	5–6	Fill	Benzo(b)fluoranthene	0.36	UJ
54-15451	MD54-01-0074	5–6	Fill	Benzo(g,h,i)perylene	0.36	UJ
54-15451	MD54-01-0074	5–6	Fill	Benzo(k)fluoranthene	0.36	UJ
54-15451	MD54-01-0074	5–6	Fill	Benzoic acid	1.8	UJ
54-15451	MD54-01-0074	5–6	Fill	Benzyl alcohol	0.36	UJ
54-15451	MD54-01-0074	5–6	Fill	Bis(2-chloroethoxy)methane	0.36	UJ
54-15452	MD54-01-0076	5–6	Fill	pH	6.73[b]	None
54-15452	MD54-01-0076	5–6	Fill	Dichloroethane[1,2-]	0.0084	U
54-15452	MD54-01-0076	5–6	Fill	Dichloroethene[cis/trans-1,2-]	0.0084	U
54-15452	MD54-01-0076	5–6	Fill	Dichloropropane[1,2-]	0.0084	U
54-15452	MD54-01-0076	5–6	Fill	Trimethylbenzene[1,3,5-]	0.0084	U
54-15452	MD54-01-0076	5–6	Fill	Dichlorobenzene[1,3-]	0.0084	U
54-15452	MD54-01-0076	5–6	Fill	Dichloropropane[1,3-]	0.0084	U
54-15452	MD54-01-0076	5–6	Fill	Dichlorobenzene[1,4-]	0.0084	U
54-15452	MD54-01-0076	5–6	Fill	Dichloropropane[2,2-]	0.0084	U
54-15452	MD54-01-0076	5–6	Fill	Butanone[2-]	0.034	U
54-15452	MD54-01-0076	5–6	Fill	Chlorotoluene[2-]	0.0084	U
54-15452	MD54-01-0076	5–6	Fill	Hexanone[2-]	0.034	U
54-15452	MD54-01-0076	5–6	Fill	Chlorotoluene[4-]	0.0084	U
54-15452	MD54-01-0076	5–6	Fill	Isopropyltoluene[4-]	0.0084	U
54-15452	MD54-01-0076	5–6	Fill	Methyl-2-pentanone[4-]	0.034	U
54-15452	MD54-01-0076	5–6	Fill	Acetone	0.035	None
54-15452	MD54-01-0076	5–6	Fill	Benzene	0.0023	J
54-15452	MD54-01-0076	5–6	Fill	Bromobenzene	0.0084	U
54-15452	MD54-01-0076	5–6	Fill	Bromochloromethane	0.0084	U
54-15452	MD54-01-0076	5–6	Fill	Bromodichloromethane	0.0084	U
54-15452	MD54-01-0076	5–6	Fill	Bromoform	0.0084	U

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15452	MD54-01-0076	5-6	Fill	Bromomethane	0.017	U
54-15452	MD54-01-0076	5-6	Fill	Carbon disulfide	0.0084	U
54-15452	MD54-01-0076	5-6	Fill	Carbon tetrachloride	0.0084	U
54-15452	MD54-01-0076	5-6	Fill	Chlorobenzene	0.0084	U
54-15452	MD54-01-0076	5-6	Fill	Chlorodibromomethane	0.0084	U
54-15452	MD54-01-0076	5-6	Fill	Chloroethane	0.017	U
54-15452	MD54-01-0076	5-6	Fill	Chloroform	0.0084	U
54-15452	MD54-01-0076	5-6	Fill	Chloromethane	0.017	U
54-15452	MD54-01-0076	5-6	Fill	Dichloropropene[cis-1,3-]	0.0084	U
54-15452	MD54-01-0076	5-6	Fill	Dibromomethane	0.0084	U
54-15452	MD54-01-0076	5-6	Fill	Dichlorodifluoromethane	0.017	U
54-15452	MD54-01-0076	5-6	Fill	Ethylbenzene	0.0084	U
54-15452	MD54-01-0076	5-6	Fill	Iodomethane	0.0084	U
54-15452	MD54-01-0076	5-6	Fill	Isopropylbenzene	0.0084	U
54-15452	MD54-01-0076	5-6	Fill	Methylene chloride	0.0084	U
54-15452	MD54-01-0076	5-6	Fill	Butylbenzene[n-]	0.0084	U
54-15452	MD54-01-0076	5-6	Fill	Propylbenzene[1-]	0.0084	U
54-15452	MD54-01-0076	5-6	Fill	Butylbenzene[sec-]	0.0084	U
54-15452	MD54-01-0076	5-6	Fill	Styrene	0.0084	U
54-15452	MD54-01-0076	5-6	Fill	Butylbenzene[tert-]	0.0084	U
54-15452	MD54-01-0076	5-6	Fill	Tetrachloroethene	0.0084	U
54-15452	MD54-01-0076	5-6	Fill	Toluene	0.0084	U
54-15452	MD54-01-0076	5-6	Fill	Dichloropropene[trans-1,3-]	0.0084	U
54-15452	MD54-01-0076	5-6	Fill	Trichloroethene	0.0084	U
54-15452	MD54-01-0076	5-6	Fill	Trichlorofluoromethane	0.017	U
54-15452	MD54-01-0076	5-6	Fill	Trichlorotrifluoroethane	0.0084	U
54-15452	MD54-01-0076	5-6	Fill	Vinyl chloride	0.017	U
54-15452	MD54-01-0076	5-6	Fill	Xylene (total)	0.0084	U
54-15452	MD54-01-0076	5-6	Fill	Phenanthrene	0.36	UJ
54-15452	MD54-01-0076	5-6	Fill	Phenol	0.36	UJ
54-15452	MD54-01-0076	5-6	Fill	Pyrene	0.36	UJ
54-15452	MD54-01-0076	5-6	Fill	Naphthalene	0.36	UJ
54-15452	MD54-01-0076	5-6	Fill	Nitrobenzene	0.36	UJ
54-15452	MD54-01-0076	5-6	Fill	Pentachlorophenol	1.8	UJ
54-15452	MD54-01-0076	5-6	Fill	Trichlorobenzene[1,2,4-]	0.36	UJ
54-15452	MD54-01-0076	5-6	Fill	Dichlorobenzene[1,2-]	0.36	UJ
54-15452	MD54-01-0076	5-6	Fill	Dichlorobenzene[1,3-]	0.36	UJ
54-15452	MD54-01-0076	5-6	Fill	Dichlorobenzene[1,4-]	0.36	UJ
54-15452	MD54-01-0076	5-6	Fill	Oxybis(1-chloropropane)[2,2'-]	0.36	UJ
54-15452	MD54-01-0076	5-6	Fill	Trichlorophenol[2,4,5-]	0.36	UJ
54-15452	MD54-01-0076	5-6	Fill	Chloro-3-methylphenol[4-]	0.36	UJ
54-15452	MD54-01-0076	5-6	Fill	Chloroaniline[4-]	0.36	UJ
54-15452	MD54-01-0076	5-6	Fill	Chlorophenyl-phenyl[4-] ether	0.36	UJ
54-15452	MD54-01-0076	5-6	Fill	Methylphenol[4-]	0.36	UJ
54-15452	MD54-01-0076	5-6	Fill	Nitroaniline[4-]	1.8	UJ
54-15452	MD54-01-0076	5-6	Fill	Nitrophenol[4-]	1.8	UJ

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15452	MD54-01-0076	5–6	Fill	Acenaphthene	0.36	UJ
54-15452	MD54-01-0076	5–6	Fill	Acenaphthylene	0.36	UJ
54-15452	MD54-01-0076	5–6	Fill	Aniline	0.36	UJ
54-15452	MD54-01-0076	5–6	Fill	Anthracene	0.36	UJ
54-15452	MD54-01-0076	5–6	Fill	Azobenzene	0.36	UJ
54-15452	MD54-01-0076	5–6	Fill	Benzo(a)anthracene	0.36	UJ
54-15452	MD54-01-0076	5–6	Fill	Benzo(a)pyrene	0.36	UJ
54-15452	MD54-01-0076	5–6	Fill	Benzo(b)fluoranthene	0.36	UJ
54-15452	MD54-01-0076	5–6	Fill	Benzo(g,h,i)perylene	0.36	UJ
54-15452	MD54-01-0076	5–6	Fill	Benzo(k)fluoranthene	0.36	UJ
54-15452	MD54-01-0076	5–6	Fill	Benzoic acid	1.8	UJ
54-15452	MD54-01-0076	5–6	Fill	Benzyl alcohol	0.36	UJ
54-15452	MD54-01-0076	5–6	Fill	Bis(2-chloroethoxy)methane	0.36	UJ
54-15452	MD54-01-0076	5–6	Fill	Bis(2-chloroethyl)ether	0.36	UJ
54-15452	MD54-01-0076	5–6	Fill	Bis(2-ethylhexyl)phthalate	0.36	UJ
54-15452	MD54-01-0076	5–6	Fill	Butylbenzylphthalate	0.36	UJ
54-15452	MD54-01-0076	5–6	Fill	Chrysene	0.36	UJ
54-15452	MD54-01-0076	5–6	Fill	Di-n-butylphthalate	0.36	UJ
54-15452	MD54-01-0076	5–6	Fill	Di-n-octylphthalate	0.36	UJ
54-15452	MD54-01-0076	5–6	Fill	Dibenz(a,h)anthracene	0.36	UJ
54-15452	MD54-01-0076	5–6	Fill	Dibenzofuran	0.36	UJ
54-15452	MD54-01-0076	5–6	Fill	Diethylphthalate	0.36	UJ
54-15452	MD54-01-0076	5–6	Fill	Dimethyl phthalate	0.36	UJ
54-15452	MD54-01-0076	5–6	Fill	Fluoranthene	0.36	UJ
54-15452	MD54-01-0076	5–6	Fill	Fluorene	0.36	UJ
54-15452	MD54-01-0076	5–6	Fill	Trichlorophenol[2,4,6-]	0.36	UJ
54-15452	MD54-01-0076	5–6	Fill	Dichlorophenol[2,4-]	0.36	UJ
54-15452	MD54-01-0076	5–6	Fill	Dimethylphenol[2,4-]	0.36	UJ
54-15452	MD54-01-0076	5–6	Fill	Dinitrophenol[2,4-]	1.8	UJ
54-15452	MD54-01-0076	5–6	Fill	Dinitrotoluene[2,4-]	0.36	UJ
54-15452	MD54-01-0076	5–6	Fill	Dinitrotoluene[2,6-]	0.36	UJ
54-15452	MD54-01-0076	5–6	Fill	Chloronaphthalene[2-]	0.36	UJ
54-15452	MD54-01-0076	5–6	Fill	Chlorophenol[2-]	0.36	UJ
54-15452	MD54-01-0076	5–6	Fill	Methylnaphthalene[2-]	0.36	UJ
54-15452	MD54-01-0076	5–6	Fill	Methylphenol[2-]	0.36	UJ
54-15452	MD54-01-0076	5–6	Fill	Nitroaniline[2-]	1.8	UJ
54-15452	MD54-01-0076	5–6	Fill	Nitrophenol[2-]	0.36	UJ
54-15452	MD54-01-0076	5–6	Fill	Dichlorobenzidine[3,3'-]	1.8	UJ
54-15452	MD54-01-0076	5–6	Fill	Nitroaniline[3-]	1.8	UJ
54-15452	MD54-01-0076	5–6	Fill	Dinitro-2-methylphenol[4,6-]	1.8	UJ
54-15452	MD54-01-0076	5–6	Fill	Bromophenyl-phenylether[4-]	0.36	UJ
54-15452	MD54-01-0076	5–6	Fill	Hexachlorobenzene	0.36	UJ
54-15452	MD54-01-0076	5–6	Fill	Hexachlorobutadiene	0.36	UJ
54-15452	MD54-01-0076	5–6	Fill	Hexachlorocyclopentadiene	1.8	UJ
54-15452	MD54-01-0076	5–6	Fill	Hexachloroethane	0.36	UJ
54-15452	MD54-01-0076	5–6	Fill	Indeno(1,2,3-cd)pyrene	0.36	UJ

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15452	MD54-01-0076	5–6	Fill	Isophorone	0.36	UJ
54-15452	MD54-01-0076	5–6	Fill	Nitroso-di-n-propylamine[N-]	0.36	UJ
54-15452	MD54-01-0076	5–6	Fill	Nitrosodimethylamine[N-]	0.36	UJ
54-15452	MD54-01-0076	5–6	Fill	Nitrosodiphenylamine[N-]	0.36	UJ
54-15452	MD54-01-0076	5–6	Fill	Tetrachloroethane[1,1,1,2-]	0.0084	U
54-15452	MD54-01-0076	5–6	Fill	Trichloroethane[1,1,1-]	0.0084	U
54-15452	MD54-01-0076	5–6	Fill	Tetrachloroethane[1,1,2,2-]	0.0084	U
54-15452	MD54-01-0076	5–6	Fill	Trichloroethane[1,1,2-]	0.0084	U
54-15452	MD54-01-0076	5–6	Fill	Dichloroethane[1,1-]	0.0084	U
54-15452	MD54-01-0076	5–6	Fill	Dichloroethene[1,1-]	0.0084	U
54-15452	MD54-01-0076	5–6	Fill	Dichloropropene[1,1-]	0.0084	U
54-15452	MD54-01-0076	5–6	Fill	Trichloropropane[1,2,3-]	0.0084	U
54-15452	MD54-01-0076	5–6	Fill	Trimethylbenzene[1,2,4-]	0.0084	U
54-15452	MD54-01-0076	5–6	Fill	Dibromo-3-chloropropane[1,2-]	0.017	U
54-15452	MD54-01-0076	5–6	Fill	Dibromoethane[1,2-]	0.0084	U
54-15452	MD54-01-0076	5–6	Fill	Dichlorobenzene[1,2-]	0.0084	U
54-15453	MD54-01-0078	5–6	Fill	Trichloropropane[1,2,3-]	0.0078	U
54-15453	MD54-01-0078	5–6	Fill	Trimethylbenzene[1,2,4-]	0.0078	U
54-15453	MD54-01-0078	5–6	Fill	Dibromo-3-chloropropane[1,2-]	0.016	U
54-15453	MD54-01-0078	5–6	Fill	Dibromoethane[1,2-]	0.0078	U
54-15453	MD54-01-0078	5–6	Fill	Dichlorobenzene[1,2-]	0.0078	U
54-15453	MD54-01-0078	5–6	Fill	Dichloroethane[1,2-]	0.0078	U
54-15453	MD54-01-0078	5–6	Fill	Dichloroethene[cis/trans-1,2-]	0.0078	U
54-15453	MD54-01-0078	5–6	Fill	Dichloropropane[1,2-]	0.0078	U
54-15453	MD54-01-0078	5–6	Fill	Trimethylbenzene[1,3,5-]	0.0078	U
54-15453	MD54-01-0078	5–6	Fill	Dichlorobenzene[1,3-]	0.0078	U
54-15453	MD54-01-0078	5–6	Fill	Dichloropropane[1,3-]	0.0078	U
54-15453	MD54-01-0078	5–6	Fill	Dichlorobenzene[1,4-]	0.0078	U
54-15453	MD54-01-0078	5–6	Fill	Dichloropropane[2,2-]	0.0078	U
54-15453	MD54-01-0078	5–6	Fill	Butanone[2-]	0.006	J+
54-15453	MD54-01-0078	5–6	Fill	Chlorotoluene[2-]	0.0078	U
54-15453	MD54-01-0078	5–6	Fill	Hexanone[2-]	0.031	U
54-15453	MD54-01-0078	5–6	Fill	Chlorotoluene[4-]	0.0078	U
54-15453	MD54-01-0078	5–6	Fill	Isopropyltoluene[4-]	0.0065	J+
54-15453	MD54-01-0078	5–6	Fill	Methyl-2-pentanone[4-]	0.0038	J+
54-15453	MD54-01-0078	5–6	Fill	Acetone	0.018	J+
54-15453	MD54-01-0078	5–6	Fill	Benzene	0.0078	U
54-15453	MD54-01-0078	5–6	Fill	Bromobenzene	0.0078	U
54-15453	MD54-01-0078	5–6	Fill	Bromochloromethane	0.0078	U
54-15453	MD54-01-0078	5–6	Fill	Bromodichloromethane	0.0078	U
54-15453	MD54-01-0078	5–6	Fill	Bromoform	0.0078	U
54-15453	MD54-01-0078	5–6	Fill	Bromomethane	0.016	U
54-15453	MD54-01-0078	5–6	Fill	Carbon disulfide	0.0078	U
54-15453	MD54-01-0078	5–6	Fill	Carbon tetrachloride	0.0078	U
54-15453	MD54-01-0078	5–6	Fill	Chlorobenzene	0.0078	U
54-15453	MD54-01-0078	5–6	Fill	Chlorodibromomethane	0.0078	U

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15453	MD54-01-0078	5–6	Fill	Chloroethane	0.016	U
54-15453	MD54-01-0078	5–6	Fill	Chloroform	0.0078	U
54-15453	MD54-01-0078	5–6	Fill	Chloromethane	0.016	U
54-15453	MD54-01-0078	5–6	Fill	Dichloropropene[cis-1,3-]	0.0078	U
54-15453	MD54-01-0078	5–6	Fill	Dibromomethane	0.0078	U
54-15453	MD54-01-0078	5–6	Fill	Dichlorodifluoromethane	0.016	U
54-15453	MD54-01-0078	5–6	Fill	Ethylbenzene	0.0078	U
54-15453	MD54-01-0078	5–6	Fill	Iodomethane	0.0078	U
54-15453	MD54-01-0078	5–6	Fill	Isopropylbenzene	0.0078	U
54-15453	MD54-01-0078	5–6	Fill	Methylene chloride	0.0078	U
54-15453	MD54-01-0078	5–6	Fill	Butylbenzene[n-]	0.0078	U
54-15453	MD54-01-0078	5–6	Fill	Propylbenzene[1-]	0.0078	U
54-15453	MD54-01-0078	5–6	Fill	Butylbenzene[sec-]	0.0078	U
54-15453	MD54-01-0078	5–6	Fill	Styrene	0.0078	U
54-15453	MD54-01-0078	5–6	Fill	Butylbenzene[tert-]	0.0078	U
54-15453	MD54-01-0078	5–6	Fill	Tetrachloroethene	0.0078	U
54-15453	MD54-01-0078	5–6	Fill	Toluene	0.0018	J+
54-15453	MD54-01-0078	5–6	Fill	Dichloropropene[trans-1,3-]	0.0078	U
54-15453	MD54-01-0078	5–6	Fill	Trichloroethene	0.0078	U
54-15453	MD54-01-0078	5–6	Fill	Trichlorofluoromethane	0.016	U
54-15453	MD54-01-0078	5–6	Fill	Trichlorotrifluoroethane	0.0078	U
54-15453	MD54-01-0078	5–6	Fill	Vinyl chloride	0.016	U
54-15453	MD54-01-0078	5–6	Fill	pH	6.76[b]	None
54-15453	MD54-01-0078	5–6	Fill	Tetrachloroethane[1,1,1,2-]	0.0078	U
54-15453	MD54-01-0078	5–6	Fill	Trichloroethane[1,1,1-]	0.0078	U
54-15453	MD54-01-0078	5–6	Fill	Tetrachloroethane[1,1,2,2-]	0.0078	U
54-15453	MD54-01-0078	5–6	Fill	Trichloroethane[1,1,2-]	0.0078	U
54-15453	MD54-01-0078	5–6	Fill	Dichloroethane[1,1-]	0.0078	U
54-15453	MD54-01-0078	5–6	Fill	Dichloroethene[1,1-]	0.0078	U
54-15453	MD54-01-0078	5–6	Fill	Dichloropropene[1,1-]	0.0078	U
54-15453	MD54-01-0078	5–6	Fill	Trichlorophenol[2,4,6-]	0.36	U
54-15453	MD54-01-0078	5–6	Fill	Dichlorophenol[2,4-]	0.36	U
54-15453	MD54-01-0078	5–6	Fill	Dimethylphenol[2,4-]	0.36	U
54-15453	MD54-01-0078	5–6	Fill	Dinitrophenol[2,4-]	1.8	U
54-15453	MD54-01-0078	5–6	Fill	Dinitrotoluene[2,4-]	0.36	U
54-15453	MD54-01-0078	5–6	Fill	Dinitrotoluene[2,6-]	0.36	U
54-15453	MD54-01-0078	5–6	Fill	Chloronaphthalene[2-]	0.36	U
54-15453	MD54-01-0078	5–6	Fill	Chlorophenol[2-]	0.36	U
54-15453	MD54-01-0078	5–6	Fill	Methylnaphthalene[2-]	0.36	U
54-15453	MD54-01-0078	5–6	Fill	Methylphenol[2-]	0.36	U
54-15453	MD54-01-0078	5–6	Fill	Nitroaniline[2-]	1.8	U
54-15453	MD54-01-0078	5–6	Fill	Nitrophenol[2-]	0.36	U
54-15453	MD54-01-0078	5–6	Fill	Dichlorobenzidine[3,3'-]	1.8	U
54-15453	MD54-01-0078	5–6	Fill	Nitroaniline[3-]	1.8	U
54-15453	MD54-01-0078	5–6	Fill	Dinitro-2-methylphenol[4,6-]	1.8	U
54-15453	MD54-01-0078	5–6	Fill	Bromophenyl-phenylether[4-]	0.36	U

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15453	MD54-01-0078	5–6	Fill	Chloro-3-methylphenol[4-]	0.36	U
54-15453	MD54-01-0078	5–6	Fill	Chloroaniline[4-]	0.36	U
54-15453	MD54-01-0078	5–6	Fill	Chlorophenyl-phenyl[4-] ether	0.36	U
54-15453	MD54-01-0078	5–6	Fill	Methylphenol[4-]	0.36	U
54-15453	MD54-01-0078	5–6	Fill	Nitroaniline[4-]	1.8	U
54-15453	MD54-01-0078	5–6	Fill	Nitrophenol[4-]	1.8	U
54-15453	MD54-01-0078	5–6	Fill	Acenaphthene	0.36	U
54-15453	MD54-01-0078	5–6	Fill	Acenaphthylene	0.36	U
54-15453	MD54-01-0078	5–6	Fill	Aniline	0.36	U
54-15453	MD54-01-0078	5–6	Fill	Anthracene	0.36	U
54-15453	MD54-01-0078	5–6	Fill	Azobenzene	0.36	U
54-15453	MD54-01-0078	5–6	Fill	Benzo(a)anthracene	0.36	U
54-15453	MD54-01-0078	5–6	Fill	Benzo(a)pyrene	0.36	U
54-15453	MD54-01-0078	5–6	Fill	Benzo(b)fluoranthene	0.36	U
54-15453	MD54-01-0078	5–6	Fill	Benzo(g,h,i)perylene	0.36	U
54-15453	MD54-01-0078	5–6	Fill	Benzo(k)fluoranthene	0.36	U
54-15453	MD54-01-0078	5–6	Fill	Benzoic acid	1.8	U
54-15453	MD54-01-0078	5–6	Fill	Benzyl alcohol	0.36	U
54-15453	MD54-01-0078	5–6	Fill	Bis(2-chloroethoxy)methane	0.36	U
54-15453	MD54-01-0078	5–6	Fill	Bis(2-chloroethyl)ether	0.36	U
54-15453	MD54-01-0078	5–6	Fill	Bis(2-ethylhexyl)phthalate	0.36	U
54-15453	MD54-01-0078	5–6	Fill	Butylbenzylphthalate	0.36	U
54-15453	MD54-01-0078	5–6	Fill	Chrysene	0.36	U
54-15453	MD54-01-0078	5–6	Fill	Di-n-butylphthalate	0.36	U
54-15453	MD54-01-0078	5–6	Fill	Di-n-octylphthalate	0.36	U
54-15453	MD54-01-0078	5–6	Fill	Dibenz(a,h)anthracene	0.36	U
54-15453	MD54-01-0078	5–6	Fill	Dibenzofuran	0.36	U
54-15453	MD54-01-0078	5–6	Fill	Diethylphthalate	0.36	U
54-15453	MD54-01-0078	5–6	Fill	Dimethyl phthalate	0.36	U
54-15453	MD54-01-0078	5–6	Fill	Fluoranthene	0.36	U
54-15453	MD54-01-0078	5–6	Fill	Fluorene	0.36	U
54-15453	MD54-01-0078	5–6	Fill	Hexachlorobenzene	0.36	U
54-15453	MD54-01-0078	5–6	Fill	Hexachlorobutadiene	0.36	U
54-15453	MD54-01-0078	5–6	Fill	Hexachlorocyclopentadiene	1.8	U
54-15453	MD54-01-0078	5–6	Fill	Hexachloroethane	0.36	U
54-15453	MD54-01-0078	5–6	Fill	Indeno(1,2,3-cd)pyrene	0.36	U
54-15453	MD54-01-0078	5–6	Fill	Isophorone	0.36	U
54-15453	MD54-01-0078	5–6	Fill	Nitroso-di-n-propylamine[N-]	0.36	U
54-15453	MD54-01-0078	5–6	Fill	Nitrosodimethylamine[N-]	0.36	U
54-15453	MD54-01-0078	5–6	Fill	Nitrosodiphenylamine[N-]	0.36	U
54-15453	MD54-01-0078	5–6	Fill	Naphthalene	0.36	U
54-15453	MD54-01-0078	5–6	Fill	Nitrobenzene	0.36	U
54-15453	MD54-01-0078	5–6	Fill	Pentachlorophenol	1.8	U
54-15453	MD54-01-0078	5–6	Fill	Phenanthrene	0.36	U
54-15453	MD54-01-0078	5–6	Fill	Phenol	0.36	U
54-15453	MD54-01-0078	5–6	Fill	Pyrene	0.36	U

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15453	MD54-01-0078	5–6	Fill	Trichlorobenzene[1,2,4-]	0.36	U
54-15453	MD54-01-0078	5–6	Fill	Dichlorobenzene[1,2-]	0.36	U
54-15453	MD54-01-0078	5–6	Fill	Dichlorobenzene[1,3-]	0.36	U
54-15453	MD54-01-0078	5–6	Fill	Dichlorobenzene[1,4-]	0.36	U
54-15453	MD54-01-0078	5–6	Fill	Oxybis(1-chloropropane)[2,2'-]	0.36	U
54-15453	MD54-01-0078	5–6	Fill	Trichlorophenol[2,4,5-]	0.36	U
54-15453	MD54-01-0078	5–6	Fill	Xylene (total)	0.0078	U
54-15454	MD54-01-0080	5–6	Fill	Tetrachloroethane[1,1,2,2-]	0.0088	U
54-15454	MD54-01-0080	5–6	Fill	Trichloroethane[1,1,2-]	0.0088	U
54-15454	MD54-01-0080	5–6	Fill	Dichloroethane[1,1-]	0.0088	U
54-15454	MD54-01-0080	5–6	Fill	Dichloroethene[1,1-]	0.0088	U
54-15454	MD54-01-0080	5–6	Fill	Dichloropropene[1,1-]	0.0088	U
54-15454	MD54-01-0080	5–6	Fill	Trichloropropane[1,2,3-]	0.0088	U
54-15454	MD54-01-0080	5–6	Fill	Trimethylbenzene[1,2,4-]	0.0088	U
54-15454	MD54-01-0080	5–6	Fill	Dibromo-3-chloropropane[1,2-]	0.018	U
54-15454	MD54-01-0080	5–6	Fill	Dibromoethane[1,2-]	0.0088	U
54-15454	MD54-01-0080	5–6	Fill	Dichlorobenzene[1,2-]	0.0088	U
54-15454	MD54-01-0080	5–6	Fill	Dichloroethane[1,2-]	0.0088	U
54-15454	MD54-01-0080	5–6	Fill	Dichloroethene[cis/trans-1,2-]	0.0088	U
54-15454	MD54-01-0080	5–6	Fill	Dichloropropane[1,2-]	0.0088	U
54-15454	MD54-01-0080	5–6	Fill	Trimethylbenzene[1,3,5-]	0.0088	U
54-15454	MD54-01-0080	5–6	Fill	Dichlorobenzene[1,3-]	0.0088	U
54-15454	MD54-01-0080	5–6	Fill	Dichloropropane[1,3-]	0.0088	U
54-15454	MD54-01-0080	5–6	Fill	Dichlorobenzene[1,4-]	0.0088	U
54-15454	MD54-01-0080	5–6	Fill	Dichloropropane[2,2-]	0.0088	U
54-15454	MD54-01-0080	5–6	Fill	Butanone[2-]	0.006	J+
54-15454	MD54-01-0080	5–6	Fill	Chlorotoluene[2-]	0.0088	U
54-15454	MD54-01-0080	5–6	Fill	Hexanone[2-]	0.035	U
54-15454	MD54-01-0080	5–6	Fill	Chlorotoluene[4-]	0.0088	U
54-15454	MD54-01-0080	5–6	Fill	Isopropyltoluene[4-]	0.0088	U
54-15454	MD54-01-0080	5–6	Fill	Methyl-2-pentanone[4-]	0.035	U
54-15454	MD54-01-0080	5–6	Fill	Acetone	0.031	J+
54-15454	MD54-01-0080	5–6	Fill	Benzene	0.0026	J+
54-15454	MD54-01-0080	5–6	Fill	Bromobenzene	0.0088	U
54-15454	MD54-01-0080	5–6	Fill	Bromochloromethane	0.0088	U
54-15454	MD54-01-0080	5–6	Fill	Bromodichloromethane	0.0088	U
54-15454	MD54-01-0080	5–6	Fill	Bromoform	0.0088	U
54-15454	MD54-01-0080	5–6	Fill	Bromomethane	0.018	U
54-15454	MD54-01-0080	5–6	Fill	Carbon disulfide	0.0088	U
54-15454	MD54-01-0080	5–6	Fill	Carbon tetrachloride	0.0088	U
54-15454	MD54-01-0080	5–6	Fill	Chlorobenzene	0.0088	U
54-15454	MD54-01-0080	5–6	Fill	Chlorodibromomethane	0.0088	U
54-15454	MD54-01-0080	5–6	Fill	Chloroethane	0.018	U
54-15454	MD54-01-0080	5–6	Fill	Chloroform	0.0088	U
54-15454	MD54-01-0080	5–6	Fill	Chloromethane	0.018	U
54-15454	MD54-01-0080	5–6	Fill	Dichloropropene[cis-1,3-]	0.0088	U

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15454	MD54-01-0080	5–6	Fill	Dibromomethane	0.0088	U
54-15454	MD54-01-0080	5–6	Fill	Dichlorodifluoromethane	0.018	U
54-15454	MD54-01-0080	5–6	Fill	Ethylbenzene	0.0088	U
54-15454	MD54-01-0080	5–6	Fill	Iodomethane	0.0088	U
54-15454	MD54-01-0080	5–6	Fill	Isopropylbenzene	0.0088	U
54-15454	MD54-01-0080	5–6	Fill	Methylene chloride	0.0088	U
54-15454	MD54-01-0080	5–6	Fill	Butylbenzene[n-]	0.0088	U
54-15454	MD54-01-0080	5–6	Fill	Propylbenzene[1-]	0.0088	U
54-15454	MD54-01-0080	5–6	Fill	Butylbenzene[sec-]	0.0088	U
54-15454	MD54-01-0080	5–6	Fill	Styrene	0.0088	U
54-15454	MD54-01-0080	5–6	Fill	Butylbenzene[tert-]	0.0088	U
54-15454	MD54-01-0080	5–6	Fill	Tetrachloroethene	0.0088	U
54-15454	MD54-01-0080	5–6	Fill	Toluene	0.0088	U
54-15454	MD54-01-0080	5–6	Fill	Dichloropropene[trans-1,3-]	0.0088	U
54-15454	MD54-01-0080	5–6	Fill	Trichloroethene	0.0088	U
54-15454	MD54-01-0080	5–6	Fill	Trichlorofluoromethane	0.018	U
54-15454	MD54-01-0080	5–6	Fill	Trichlorotrifluoroethane	0.0088	U
54-15454	MD54-01-0080	5–6	Fill	Vinyl chloride	0.018	U
54-15454	MD54-01-0080	5–6	Fill	Xylene (total)	0.0088	U
54-15454	MD54-01-0080	5–6	Fill	pH	7.01[b]	None
54-15454	MD54-01-0080	5–6	Fill	Trichlorobenzene[1,2,4-]	0.38	U
54-15454	MD54-01-0080	5–6	Fill	Dichlorobenzene[1,2-]	0.38	U
54-15454	MD54-01-0080	5–6	Fill	Dichlorobenzene[1,3-]	0.38	U
54-15454	MD54-01-0080	5–6	Fill	Dichlorobenzene[1,4-]	0.38	U
54-15454	MD54-01-0080	5–6	Fill	Oxybis(1-chloropropane)[2,2'-]	0.38	U
54-15454	MD54-01-0080	5–6	Fill	Trichlorophenol[2,4,5-]	0.38	U
54-15454	MD54-01-0080	5–6	Fill	Trichlorophenol[2,4,6-]	0.38	U
54-15454	MD54-01-0080	5–6	Fill	Dichlorophenol[2,4-]	0.38	U
54-15454	MD54-01-0080	5–6	Fill	Dimethylphenol[2,4-]	0.38	U
54-15454	MD54-01-0080	5–6	Fill	Dinitrophenol[2,4-]	1.8	U
54-15454	MD54-01-0080	5–6	Fill	Dinitrotoluene[2,4-]	0.38	U
54-15454	MD54-01-0080	5–6	Fill	Dinitrotoluene[2,6-]	0.38	U
54-15454	MD54-01-0080	5–6	Fill	Chloronaphthalene[2-]	0.38	U
54-15454	MD54-01-0080	5–6	Fill	Chlorophenol[2-]	0.38	U
54-15454	MD54-01-0080	5–6	Fill	Methylnaphthalene[2-]	0.38	U
54-15454	MD54-01-0080	5–6	Fill	Methylphenol[2-]	0.38	U
54-15454	MD54-01-0080	5–6	Fill	Nitroaniline[2-]	1.8	U
54-15454	MD54-01-0080	5–6	Fill	Nitrophenol[2-]	0.38	U
54-15454	MD54-01-0080	5–6	Fill	Dichlorobenzidine[3,3'-]	1.8	U
54-15454	MD54-01-0080	5–6	Fill	Nitroaniline[3-]	1.8	U
54-15454	MD54-01-0080	5–6	Fill	Dinitro-2-methylphenol[4,6-]	1.8	U
54-15454	MD54-01-0080	5–6	Fill	Bromophenyl-phenylether[4-]	0.38	U
54-15454	MD54-01-0080	5–6	Fill	Chloro-3-methylphenol[4-]	0.38	U
54-15454	MD54-01-0080	5–6	Fill	Chloroaniline[4-]	0.38	U
54-15454	MD54-01-0080	5–6	Fill	Chlorophenyl-phenyl[4-] ether	0.38	U
54-15454	MD54-01-0080	5–6	Fill	Methylphenol[4-]	0.38	U

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15454	MD54-01-0080	5–6	Fill	Nitroaniline[4-]	1.8	U
54-15454	MD54-01-0080	5–6	Fill	Nitrophenol[4-]	1.8	U
54-15454	MD54-01-0080	5–6	Fill	Acenaphthene	0.38	U
54-15454	MD54-01-0080	5–6	Fill	Acenaphthylene	0.38	U
54-15454	MD54-01-0080	5–6	Fill	Aniline	0.38	U
54-15454	MD54-01-0080	5–6	Fill	Anthracene	0.38	U
54-15454	MD54-01-0080	5–6	Fill	Azobenzene	0.38	U
54-15454	MD54-01-0080	5–6	Fill	Benzo(a)anthracene	0.38	U
54-15454	MD54-01-0080	5–6	Fill	Benzo(a)pyrene	0.38	U
54-15454	MD54-01-0080	5–6	Fill	Benzo(b)fluoranthene	0.38	U
54-15454	MD54-01-0080	5–6	Fill	Benzo(g,h,i)perylene	0.38	U
54-15454	MD54-01-0080	5–6	Fill	Benzo(k)fluoranthene	0.38	U
54-15454	MD54-01-0080	5–6	Fill	Benzoic acid	1.8	U
54-15454	MD54-01-0080	5–6	Fill	Benzyl alcohol	0.38	U
54-15454	MD54-01-0080	5–6	Fill	Bis(2-chloroethoxy)methane	0.38	U
54-15454	MD54-01-0080	5–6	Fill	Bis(2-chloroethyl)ether	0.38	U
54-15454	MD54-01-0080	5–6	Fill	Bis(2-ethylhexyl)phthalate	0.38	U
54-15454	MD54-01-0080	5–6	Fill	Butylbenzylphthalate	0.38	U
54-15454	MD54-01-0080	5–6	Fill	Chrysene	0.38	U
54-15454	MD54-01-0080	5–6	Fill	Di-n-butylphthalate	0.38	U
54-15454	MD54-01-0080	5–6	Fill	Di-n-octylphthalate	0.38	U
54-15454	MD54-01-0080	5–6	Fill	Dibenz(a,h)anthracene	0.38	U
54-15454	MD54-01-0080	5–6	Fill	Dibenzofuran	0.38	U
54-15454	MD54-01-0080	5–6	Fill	Diethylphthalate	0.38	U
54-15454	MD54-01-0080	5–6	Fill	Dimethyl phthalate	0.38	U
54-15454	MD54-01-0080	5–6	Fill	Fluoranthene	0.38	U
54-15454	MD54-01-0080	5–6	Fill	Fluorene	0.38	U
54-15454	MD54-01-0080	5–6	Fill	Hexachlorobenzene	0.38	U
54-15454	MD54-01-0080	5–6	Fill	Hexachlorobutadiene	0.38	U
54-15454	MD54-01-0080	5–6	Fill	Hexachlorocyclopentadiene	1.8	U
54-15454	MD54-01-0080	5–6	Fill	Hexachloroethane	0.38	U
54-15454	MD54-01-0080	5–6	Fill	Indeno(1,2,3-cd)pyrene	0.38	U
54-15454	MD54-01-0080	5–6	Fill	Isophorone	0.38	U
54-15454	MD54-01-0080	5–6	Fill	Nitroso-di-n-propylamine[N-]	0.38	U
54-15454	MD54-01-0080	5–6	Fill	Nitrosodimethylamine[N-]	0.38	U
54-15454	MD54-01-0080	5–6	Fill	Nitrosodiphenylamine[N-]	0.38	U
54-15454	MD54-01-0080	5–6	Fill	Naphthalene	0.38	U
54-15454	MD54-01-0080	5–6	Fill	Nitrobenzene	0.38	U
54-15454	MD54-01-0080	5–6	Fill	Pentachlorophenol	1.8	U
54-15454	MD54-01-0080	5–6	Fill	Phenanthrene	0.38	U
54-15454	MD54-01-0080	5–6	Fill	Phenol	0.38	U
54-15454	MD54-01-0080	5–6	Fill	Pyrene	0.38	U
54-15454	MD54-01-0080	5–6	Fill	Tetrachloroethane[1,1,1,2-]	0.0088	U
54-15454	MD54-01-0080	5–6	Fill	Trichloroethane[1,1,1-]	0.0088	U
54-15455	MD54-01-0082	5–6	Fill	Tetrachloroethane[1,1,1,2-]	0.0078	U
54-15455	MD54-01-0082	5–6	Fill	Trichloroethane[1,1,1-]	0.0078	U

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15455	MD54-01-0082	5–6	Fill	Tetrachloroethane[1,1,2,2-]	0.0078	U
54-15455	MD54-01-0082	5–6	Fill	Trichloroethane[1,1,2-]	0.0078	U
54-15455	MD54-01-0082	5–6	Fill	Dichloroethane[1,1-]	0.0078	U
54-15455	MD54-01-0082	5–6	Fill	Dichloroethene[1,1-]	0.0078	U
54-15455	MD54-01-0082	5–6	Fill	Dichloropropene[1,1-]	0.0078	U
54-15455	MD54-01-0082	5–6	Fill	Trichloropropane[1,2,3-]	0.0078	U
54-15455	MD54-01-0082	5–6	Fill	Trimethylbenzene[1,2,4-]	0.0078	U
54-15455	MD54-01-0082	5–6	Fill	Dibromo-3-chloropropane[1,2-]	0.016	U
54-15455	MD54-01-0082	5–6	Fill	Dibromoethane[1,2-]	0.0078	U
54-15455	MD54-01-0082	5–6	Fill	Dichlorobenzene[1,2-]	0.0078	U
54-15455	MD54-01-0082	5–6	Fill	Dichloroethane[1,2-]	0.0078	U
54-15455	MD54-01-0082	5–6	Fill	Dichloroethene[cis/trans-1,2-]	0.0078	U
54-15455	MD54-01-0082	5–6	Fill	Dichloropropane[1,2-]	0.0078	U
54-15455	MD54-01-0082	5–6	Fill	Trimethylbenzene[1,3,5-]	0.0078	U
54-15455	MD54-01-0082	5–6	Fill	Dichlorobenzene[1,3-]	0.0078	U
54-15455	MD54-01-0082	5–6	Fill	Dichloropropane[1,3-]	0.0078	U
54-15455	MD54-01-0082	5–6	Fill	Dichlorobenzene[1,4-]	0.0078	U
54-15455	MD54-01-0082	5–6	Fill	Dichloropropane[2,2-]	0.0078	U
54-15455	MD54-01-0082	5–6	Fill	Butanone[2-]	0.01	J
54-15455	MD54-01-0082	5–6	Fill	Chlorotoluene[2-]	0.0078	U
54-15455	MD54-01-0082	5–6	Fill	Hexanone[2-]	0.031	U
54-15455	MD54-01-0082	5–6	Fill	Chlorotoluene[4-]	0.0078	U
54-15455	MD54-01-0082	5–6	Fill	Isopropyltoluene[4-]	0.0078	U
54-15455	MD54-01-0082	5–6	Fill	Methyl-2-pentanone[4-]	0.031	U
54-15455	MD54-01-0082	5–6	Fill	Acetone	0.046	None
54-15455	MD54-01-0082	5–6	Fill	Benzene	0.0023	J
54-15455	MD54-01-0082	5–6	Fill	Bromobenzene	0.0078	U
54-15455	MD54-01-0082	5–6	Fill	Bromochloromethane	0.0078	U
54-15455	MD54-01-0082	5–6	Fill	Bromodichloromethane	0.0078	U
54-15455	MD54-01-0082	5–6	Fill	Bromoform	0.0078	U
54-15455	MD54-01-0082	5–6	Fill	Bromomethane	0.016	U
54-15455	MD54-01-0082	5–6	Fill	Carbon disulfide	0.0078	U
54-15455	MD54-01-0082	5–6	Fill	Carbon tetrachloride	0.0078	U
54-15455	MD54-01-0082	5–6	Fill	Chlorobenzene	0.0078	U
54-15455	MD54-01-0082	5–6	Fill	Chlorodibromomethane	0.0078	U
54-15455	MD54-01-0082	5–6	Fill	Chloroethane	0.016	U
54-15455	MD54-01-0082	5–6	Fill	Chloroform	0.0078	U
54-15455	MD54-01-0082	5–6	Fill	Chloromethane	0.016	U
54-15455	MD54-01-0082	5–6	Fill	Dichloropropene[cis-1,3-]	0.0078	U
54-15455	MD54-01-0082	5–6	Fill	Dibromomethane	0.0078	U
54-15455	MD54-01-0082	5–6	Fill	Dichlorodifluoromethane	0.016	U
54-15455	MD54-01-0082	5–6	Fill	Ethylbenzene	0.0078	U
54-15455	MD54-01-0082	5–6	Fill	Iodomethane	0.0078	U
54-15455	MD54-01-0082	5–6	Fill	Isopropylbenzene	0.0078	U
54-15455	MD54-01-0082	5–6	Fill	Methylene chloride	0.0078	U
54-15455	MD54-01-0082	5–6	Fill	Butylbenzene[n-]	0.0078	U

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15455	MD54-01-0082	5–6	Fill	Propylbenzene[1-]	0.0078	U
54-15455	MD54-01-0082	5–6	Fill	Butylbenzene[sec-]	0.0078	U
54-15455	MD54-01-0082	5–6	Fill	Styrene	0.0078	U
54-15455	MD54-01-0082	5–6	Fill	Butylbenzene[tert-]	0.0078	U
54-15455	MD54-01-0082	5–6	Fill	Tetrachloroethene	0.0078	U
54-15455	MD54-01-0082	5–6	Fill	Toluene	0.0078	U
54-15455	MD54-01-0082	5–6	Fill	Dichloropropene[trans-1,3-]	0.0078	U
54-15455	MD54-01-0082	5–6	Fill	Trichloroethene	0.0078	U
54-15455	MD54-01-0082	5–6	Fill	Trichlorofluoromethane	0.016	U
54-15455	MD54-01-0082	5–6	Fill	Trichlorotrifluoroethane	0.0078	U
54-15455	MD54-01-0082	5–6	Fill	Vinyl chloride	0.016	U
54-15455	MD54-01-0082	5–6	Fill	Xylene (total)	0.0078	U
54-15455	MD54-01-0082	5–6	Fill	pH	6.77[b]	None
54-15455	MD54-01-0082	5–6	Fill	Trichlorobenzene[1,2,4-]	0.38	U
54-15455	MD54-01-0082	5–6	Fill	Dichlorobenzene[1,2-]	0.38	U
54-15455	MD54-01-0082	5–6	Fill	Dichlorobenzene[1,3-]	0.38	U
54-15455	MD54-01-0082	5–6	Fill	Dichlorobenzene[1,4-]	0.38	U
54-15455	MD54-01-0082	5–6	Fill	Oxybis(1-chloropropane)[2,2'-]	0.38	U
54-15455	MD54-01-0082	5–6	Fill	Trichlorophenol[2,4,5-]	0.38	U
54-15455	MD54-01-0082	5–6	Fill	Trichlorophenol[2,4,6-]	0.38	U
54-15455	MD54-01-0082	5–6	Fill	Dichlorophenol[2,4-]	0.38	U
54-15455	MD54-01-0082	5–6	Fill	Dimethylphenol[2,4-]	0.38	U
54-15455	MD54-01-0082	5–6	Fill	Dinitrophenol[2,4-]	1.8	U
54-15455	MD54-01-0082	5–6	Fill	Dinitrotoluene[2,4-]	0.38	U
54-15455	MD54-01-0082	5–6	Fill	Dinitrotoluene[2,6-]	0.38	U
54-15455	MD54-01-0082	5–6	Fill	Chloronaphthalene[2-]	0.38	U
54-15455	MD54-01-0082	5–6	Fill	Chlorophenol[2-]	0.38	U
54-15455	MD54-01-0082	5–6	Fill	Methylnaphthalene[2-]	0.38	U
54-15455	MD54-01-0082	5–6	Fill	Methylphenol[2-]	0.38	U
54-15455	MD54-01-0082	5–6	Fill	Nitroaniline[2-]	1.8	U
54-15455	MD54-01-0082	5–6	Fill	Nitrophenol[2-]	0.38	U
54-15455	MD54-01-0082	5–6	Fill	Dichlorobenzidine[3,3'-]	1.8	U
54-15455	MD54-01-0082	5–6	Fill	Nitroaniline[3-]	1.8	U
54-15455	MD54-01-0082	5–6	Fill	Dinitro-2-methylphenol[4,6-]	1.8	U
54-15455	MD54-01-0082	5–6	Fill	Bromophenyl-phenylether[4-]	0.38	U
54-15455	MD54-01-0082	5–6	Fill	Chloro-3-methylphenol[4-]	0.38	U
54-15455	MD54-01-0082	5–6	Fill	Chloroaniline[4-]	0.38	U
54-15455	MD54-01-0082	5–6	Fill	Chlorophenyl-phenyl[4-] ether	0.38	U
54-15455	MD54-01-0082	5–6	Fill	Methylphenol[4-]	0.38	U
54-15455	MD54-01-0082	5–6	Fill	Nitroaniline[4-]	1.8	U
54-15455	MD54-01-0082	5–6	Fill	Nitrophenol[4-]	1.8	U
54-15455	MD54-01-0082	5–6	Fill	Acenaphthene	0.38	U
54-15455	MD54-01-0082	5–6	Fill	Acenaphthylene	0.38	U
54-15455	MD54-01-0082	5–6	Fill	Aniline	0.38	U
54-15455	MD54-01-0082	5–6	Fill	Anthracene	0.38	U
54-15455	MD54-01-0082	5–6	Fill	Azobenzene	0.38	U

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15455	MD54-01-0082	5–6	Fill	Benzo(a)anthracene	0.38	U
54-15455	MD54-01-0082	5–6	Fill	Benzo(a)pyrene	0.38	U
54-15455	MD54-01-0082	5–6	Fill	Benzo(b)fluoranthene	0.38	U
54-15455	MD54-01-0082	5–6	Fill	Benzo(g,h,i)perylene	0.38	U
54-15455	MD54-01-0082	5–6	Fill	Benzo(k)fluoranthene	0.38	U
54-15455	MD54-01-0082	5–6	Fill	Benzoic acid	1.8	U
54-15455	MD54-01-0082	5–6	Fill	Benzyl alcohol	0.38	U
54-15455	MD54-01-0082	5–6	Fill	Bis(2-chloroethoxy)methane	0.38	U
54-15455	MD54-01-0082	5–6	Fill	Bis(2-chloroethyl)ether	0.38	U
54-15455	MD54-01-0082	5–6	Fill	Bis(2-ethylhexyl)phthalate	0.38	U
54-15455	MD54-01-0082	5–6	Fill	Butylbenzylphthalate	0.38	U
54-15455	MD54-01-0082	5–6	Fill	Chrysene	0.38	U
54-15455	MD54-01-0082	5–6	Fill	Di-n-butylphthalate	0.38	U
54-15455	MD54-01-0082	5–6	Fill	Di-n-octylphthalate	0.38	U
54-15455	MD54-01-0082	5–6	Fill	Dibenz(a,h)anthracene	0.38	U
54-15455	MD54-01-0082	5–6	Fill	Dibenzofuran	0.38	U
54-15455	MD54-01-0082	5–6	Fill	Diethylphthalate	0.38	U
54-15455	MD54-01-0082	5–6	Fill	Dimethyl phthalate	0.38	U
54-15455	MD54-01-0082	5–6	Fill	Fluoranthene	0.38	U
54-15455	MD54-01-0082	5–6	Fill	Fluorene	0.38	U
54-15455	MD54-01-0082	5–6	Fill	Hexachlorobenzene	0.38	U
54-15455	MD54-01-0082	5–6	Fill	Hexachlorobutadiene	0.38	U
54-15455	MD54-01-0082	5–6	Fill	Hexachlorocyclopentadiene	1.8	U
54-15455	MD54-01-0082	5–6	Fill	Hexachloroethane	0.38	U
54-15455	MD54-01-0082	5–6	Fill	Indeno(1,2,3-cd)pyrene	0.38	U
54-15455	MD54-01-0082	5–6	Fill	Isophorone	0.38	U
54-15455	MD54-01-0082	5–6	Fill	Nitroso-di-n-propylamine[N-]	0.38	U
54-15455	MD54-01-0082	5–6	Fill	Nitrosodimethylamine[N-]	0.38	U
54-15455	MD54-01-0082	5–6	Fill	Nitrosodiphenylamine[N-]	0.38	U
54-15455	MD54-01-0082	5–6	Fill	Naphthalene	0.38	U
54-15455	MD54-01-0082	5–6	Fill	Nitrobenzene	0.38	U
54-15455	MD54-01-0082	5–6	Fill	Pentachlorophenol	1.8	U
54-15455	MD54-01-0082	5–6	Fill	Phenanthrene	0.38	U
54-15455	MD54-01-0082	5–6	Fill	Phenol	0.38	U
54-15455	MD54-01-0082	5–6	Fill	Pyrene	0.38	U
54-15456	MD54-01-0084	5–6	Fill	Chloromethane	0.016	U
54-15456	MD54-01-0084	5–6	Fill	Dichloropropene[cis-1,3-]	0.008	U
54-15456	MD54-01-0084	5–6	Fill	Iodomethane	0.008	U
54-15456	MD54-01-0084	5–6	Fill	Isopropylbenzene	0.008	U
54-15456	MD54-01-0084	5–6	Fill	Methylene chloride	0.008	U
54-15456	MD54-01-0084	5–6	Fill	Butylbenzene[n-]	0.008	U
54-15456	MD54-01-0084	5–6	Fill	Dibromomethane	0.008	U
54-15456	MD54-01-0084	5–6	Fill	Dichlorodifluoromethane	0.016	U
54-15456	MD54-01-0084	5–6	Fill	Ethylbenzene	0.008	U
54-15456	MD54-01-0084	5–6	Fill	Propylbenzene[1-]	0.008	U
54-15456	MD54-01-0084	5–6	Fill	Butylbenzene[sec-]	0.008	U

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15456	MD54-01-0084	5-6	Fill	pH	7.11[b]	None
54-15456	MD54-01-0084	5-6	Fill	Trichlorobenzene[1,2,4-]	0.36	U
54-15456	MD54-01-0084	5-6	Fill	Dichlorobenzene[1,2-]	0.36	U
54-15456	MD54-01-0084	5-6	Fill	Dichlorobenzene[1,3-]	0.36	U
54-15456	MD54-01-0084	5-6	Fill	Dichlorobenzene[1,4-]	0.36	U
54-15456	MD54-01-0084	5-6	Fill	Oxybis(1-chloropropane)[2,2'-]	0.36	U
54-15456	MD54-01-0084	5-6	Fill	Trichlorophenol[2,4,5-]	0.36	U
54-15456	MD54-01-0084	5-6	Fill	Trichlorophenol[2,4,6-]	0.36	U
54-15456	MD54-01-0084	5-6	Fill	Dichlorophenol[2,4-]	0.36	U
54-15456	MD54-01-0084	5-6	Fill	Dimethylphenol[2,4-]	0.36	U
54-15456	MD54-01-0084	5-6	Fill	Dinitrophenol[2,4-]	1.8	U
54-15456	MD54-01-0084	5-6	Fill	Dinitrotoluene[2,4-]	0.36	U
54-15456	MD54-01-0084	5-6	Fill	Dinitrotoluene[2,6-]	0.36	U
54-15456	MD54-01-0084	5-6	Fill	Chloronaphthalene[2-]	0.36	U
54-15456	MD54-01-0084	5-6	Fill	Chlorophenol[2-]	0.36	U
54-15456	MD54-01-0084	5-6	Fill	Methylnaphthalene[2-]	0.36	U
54-15456	MD54-01-0084	5-6	Fill	Methylphenol[2-]	0.36	U
54-15456	MD54-01-0084	5-6	Fill	Nitroaniline[2-]	1.8	U
54-15456	MD54-01-0084	5-6	Fill	Nitrophenol[2-]	0.36	U
54-15456	MD54-01-0084	5-6	Fill	Dichlorobenzidine[3,3'-]	1.8	U
54-15456	MD54-01-0084	5-6	Fill	Nitroaniline[3-]	1.8	U
54-15456	MD54-01-0084	5-6	Fill	Dinitro-2-methylphenol[4,6-]	1.8	U
54-15456	MD54-01-0084	5-6	Fill	Bromophenyl-phenylether[4-]	0.36	U
54-15456	MD54-01-0084	5-6	Fill	Chloro-3-methylphenol[4-]	0.36	U
54-15456	MD54-01-0084	5-6	Fill	Fluorene	0.36	U
54-15456	MD54-01-0084	5-6	Fill	Hexachlorobenzene	0.36	U
54-15456	MD54-01-0084	5-6	Fill	Hexachlorobutadiene	0.36	U
54-15456	MD54-01-0084	5-6	Fill	Hexachlorocyclopentadiene	1.8	U
54-15456	MD54-01-0084	5-6	Fill	Hexachloroethane	0.36	U
54-15456	MD54-01-0084	5-6	Fill	Indeno(1,2,3-cd)pyrene	0.36	U
54-15456	MD54-01-0084	5-6	Fill	Isophorone	0.36	U
54-15456	MD54-01-0084	5-6	Fill	Nitroso-di-n-propylamine[N-]	0.36	U
54-15456	MD54-01-0084	5-6	Fill	Nitrosodimethylamine[N-]	0.36	U
54-15456	MD54-01-0084	5-6	Fill	Nitrosodiphenylamine[N-]	0.36	U
54-15456	MD54-01-0084	5-6	Fill	Naphthalene	0.36	U
54-15456	MD54-01-0084	5-6	Fill	Nitrobenzene	0.36	U
54-15456	MD54-01-0084	5-6	Fill	Pentachlorophenol	1.8	U
54-15456	MD54-01-0084	5-6	Fill	Phenanthrene	0.36	U
54-15456	MD54-01-0084	5-6	Fill	Phenol	0.36	U
54-15456	MD54-01-0084	5-6	Fill	Pyrene	0.36	U
54-15456	MD54-01-0084	5-6	Fill	Chloroaniline[4-]	0.36	U
54-15456	MD54-01-0084	5-6	Fill	Chlorophenyl-phenyl[4-] ether	0.36	U
54-15456	MD54-01-0084	5-6	Fill	Methylphenol[4-]	0.36	U
54-15456	MD54-01-0084	5-6	Fill	Nitroaniline[4-]	1.8	U
54-15456	MD54-01-0084	5-6	Fill	Nitrophenol[4-]	1.8	U
54-15456	MD54-01-0084	5-6	Fill	Acenaphthene	0.36	U

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15456	MD54-01-0084	5–6	Fill	Acenaphthylene	0.36	U
54-15456	MD54-01-0084	5–6	Fill	Aniline	0.36	U
54-15456	MD54-01-0084	5–6	Fill	Anthracene	0.36	U
54-15456	MD54-01-0084	5–6	Fill	Azobenzene	0.36	U
54-15456	MD54-01-0084	5–6	Fill	Benzo(a)anthracene	0.36	U
54-15456	MD54-01-0084	5–6	Fill	Benzo(a)pyrene	0.36	U
54-15456	MD54-01-0084	5–6	Fill	Benzo(b)fluoranthene	0.36	U
54-15456	MD54-01-0084	5–6	Fill	Benzo(g,h,i)perylene	0.36	U
54-15456	MD54-01-0084	5–6	Fill	Benzo(k)fluoranthene	0.36	U
54-15456	MD54-01-0084	5–6	Fill	Benzoic acid	1.8	U
54-15456	MD54-01-0084	5–6	Fill	Benzyl alcohol	0.36	U
54-15456	MD54-01-0084	5–6	Fill	Bis(2-chloroethoxy)methane	0.36	U
54-15456	MD54-01-0084	5–6	Fill	Bis(2-chloroethyl)ether	0.36	U
54-15456	MD54-01-0084	5–6	Fill	Bis(2-ethylhexyl)phthalate	0.36	U
54-15456	MD54-01-0084	5–6	Fill	Butylbenzylphthalate	0.36	U
54-15456	MD54-01-0084	5–6	Fill	Chrysene	0.36	U
54-15456	MD54-01-0084	5–6	Fill	Di-n-butylphthalate	0.36	U
54-15456	MD54-01-0084	5–6	Fill	Di-n-octylphthalate	0.36	U
54-15456	MD54-01-0084	5–6	Fill	Dibenz(a,h)anthracene	0.36	U
54-15456	MD54-01-0084	5–6	Fill	Dibenzofuran	0.36	U
54-15456	MD54-01-0084	5–6	Fill	Diethylphthalate	0.36	U
54-15456	MD54-01-0084	5–6	Fill	Dimethyl phthalate	0.36	U
54-15456	MD54-01-0084	5–6	Fill	Fluoranthene	0.36	U
54-15456	MD54-01-0084	5–6	Fill	Trichloropropane[1,2,3-]	0.008	U
54-15456	MD54-01-0084	5–6	Fill	Trimethylbenzene[1,2,4-]	0.008	U
54-15456	MD54-01-0084	5–6	Fill	Dibromo-3-chloropropane[1,2-]	0.016	U
54-15456	MD54-01-0084	5–6	Fill	Dibromoethane[1,2-]	0.008	U
54-15456	MD54-01-0084	5–6	Fill	Dichlorobenzene[1,2-]	0.008	U
54-15456	MD54-01-0084	5–6	Fill	Dichloroethane[1,2-]	0.008	U
54-15456	MD54-01-0084	5–6	Fill	Dichloroethene[cis/trans-1,2-]	0.008	U
54-15456	MD54-01-0084	5–6	Fill	Dichloropropane[1,2-]	0.008	U
54-15456	MD54-01-0084	5–6	Fill	Trimethylbenzene[1,3,5-]	0.008	U
54-15456	MD54-01-0084	5–6	Fill	Dichlorobenzene[1,3-]	0.008	U
54-15456	MD54-01-0084	5–6	Fill	Dichloropropane[1,3-]	0.008	U
54-15456	MD54-01-0084	5–6	Fill	Dichlorobenzene[1,4-]	0.008	U
54-15456	MD54-01-0084	5–6	Fill	Dichloropropane[2,2-]	0.008	U
54-15456	MD54-01-0084	5–6	Fill	Butanone[2-]	0.0078	J
54-15456	MD54-01-0084	5–6	Fill	Chlorotoluene[2-]	0.008	U
54-15456	MD54-01-0084	5–6	Fill	Hexanone[2-]	0.032	U
54-15456	MD54-01-0084	5–6	Fill	Chlorotoluene[4-]	0.008	U
54-15456	MD54-01-0084	5–6	Fill	Isopropyltoluene[4-]	0.008	U
54-15456	MD54-01-0084	5–6	Fill	Methyl-2-pentanone[4-]	0.032	U
54-15456	MD54-01-0084	5–6	Fill	Acetone	0.028	J
54-15456	MD54-01-0084	5–6	Fill	Benzene	0.0027	J
54-15456	MD54-01-0084	5–6	Fill	Bromobenzene	0.008	U
54-15456	MD54-01-0084	5–6	Fill	Bromochloromethane	0.008	U

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15456	MD54-01-0084	5–6	Fill	Bromodichloromethane	0.008	U
54-15456	MD54-01-0084	5–6	Fill	Bromoform	0.008	U
54-15456	MD54-01-0084	5–6	Fill	Bromomethane	0.016	U
54-15456	MD54-01-0084	5–6	Fill	Carbon disulfide	0.008	U
54-15456	MD54-01-0084	5–6	Fill	Carbon tetrachloride	0.008	U
54-15456	MD54-01-0084	5–6	Fill	Chlorobenzene	0.008	U
54-15456	MD54-01-0084	5–6	Fill	Chlorodibromomethane	0.008	U
54-15456	MD54-01-0084	5–6	Fill	Chloroethane	0.016	U
54-15456	MD54-01-0084	5–6	Fill	Chloroform	0.008	U
54-15456	MD54-01-0084	5–6	Fill	Styrene	0.008	U
54-15456	MD54-01-0084	5–6	Fill	Butylbenzene[tert-]	0.008	U
54-15456	MD54-01-0084	5–6	Fill	Tetrachloroethene	0.008	U
54-15456	MD54-01-0084	5–6	Fill	Tetrachloroethane[1,1,1,2-]	0.008	U
54-15456	MD54-01-0084	5–6	Fill	Trichloroethane[1,1,1-]	0.008	U
54-15456	MD54-01-0084	5–6	Fill	Tetrachloroethane[1,1,2,2-]	0.008	U
54-15456	MD54-01-0084	5–6	Fill	Trichloroethane[1,1,2-]	0.008	U
54-15456	MD54-01-0084	5–6	Fill	Dichloroethane[1,1-]	0.008	U
54-15456	MD54-01-0084	5–6	Fill	Dichloroethene[1,1-]	0.008	U
54-15456	MD54-01-0084	5–6	Fill	Dichloropropene[1,1-]	0.008	U
54-15456	MD54-01-0084	5–6	Fill	Toluene	0.008	U
54-15456	MD54-01-0084	5–6	Fill	Dichloropropene[trans-1,3-]	0.008	U
54-15456	MD54-01-0084	5–6	Fill	Trichloroethene	0.008	U
54-15456	MD54-01-0084	5–6	Fill	Trichlorofluoromethane	0.016	U
54-15456	MD54-01-0084	5–6	Fill	Trichlorotrifluoroethane	0.008	U
54-15456	MD54-01-0084	5–6	Fill	Vinyl chloride	0.016	U
54-15456	MD54-01-0084	5–6	Fill	Xylene (total)	0.008	U
54-15457	MD54-01-0086	5–6	Fill	pH	7[a]	None
54-15457	MD54-01-0086	5–6	Fill	Tetrachloroethane[1,1,1,2-]	0.0055	U
54-15457	MD54-01-0086	5–6	Fill	Trichloroethane[1,1,1-]	0.0055	U
54-15457	MD54-01-0086	5–6	Fill	Tetrachloroethane[1,1,2,2-]	0.0055	U
54-15457	MD54-01-0086	5–6	Fill	Trichloroethane[1,1,2-]	0.0055	U
54-15457	MD54-01-0086	5–6	Fill	Dichloroethane[1,1-]	0.0055	U
54-15457	MD54-01-0086	5–6	Fill	Dichloroethene[1,1-]	0.0055	U
54-15457	MD54-01-0086	5–6	Fill	Dichloropropene[1,1-]	0.0055	U
54-15457	MD54-01-0086	5–6	Fill	Trichloropropane[1,2,3-]	0.0055	U
54-15457	MD54-01-0086	5–6	Fill	Trimethylbenzene[1,2,4-]	0.0055	U
54-15457	MD54-01-0086	5–6	Fill	Dibromo-3-chloropropane[1,2-]	0.011	U
54-15457	MD54-01-0086	5–6	Fill	Dibromoethane[1,2-]	0.0055	U
54-15457	MD54-01-0086	5–6	Fill	Dichlorobenzene[1,2-]	0.0055	U
54-15457	MD54-01-0086	5–6	Fill	Dichloroethane[1,2-]	0.0055	U
54-15457	MD54-01-0086	5–6	Fill	Dichloroethene[cis/trans-1,2-]	0.0055	U
54-15457	MD54-01-0086	5–6	Fill	Dichloropropane[1,2-]	0.0055	U
54-15457	MD54-01-0086	5–6	Fill	Trimethylbenzene[1,3,5-]	0.0055	U
54-15457	MD54-01-0086	5–6	Fill	Dichlorobenzene[1,3-]	0.0055	U
54-15457	MD54-01-0086	5–6	Fill	Dichloropropane[1,3-]	0.0055	U
54-15457	MD54-01-0086	5–6	Fill	Dichlorobenzene[1,4-]	0.0055	U

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15457	MD54-01-0086	5–6	Fill	Dichloropropane[2,2-]	0.0055	U
54-15457	MD54-01-0086	5–6	Fill	Butanone[2-]	0.022	U
54-15457	MD54-01-0086	5–6	Fill	Chlorotoluene[2-]	0.0055	U
54-15457	MD54-01-0086	5–6	Fill	Hexanone[2-]	0.022	U
54-15457	MD54-01-0086	5–6	Fill	Chlorotoluene[4-]	0.0055	U
54-15457	MD54-01-0086	5–6	Fill	Isopropyltoluene[4-]	0.0055	U
54-15457	MD54-01-0086	5–6	Fill	Methyl-2-pentanone[4-]	0.022	U
54-15457	MD54-01-0086	5–6	Fill	Acetone	0.022	None
54-15457	MD54-01-0086	5–6	Fill	Benzene	0.0055	U
54-15457	MD54-01-0086	5–6	Fill	Bromobenzene	0.0055	U
54-15457	MD54-01-0086	5–6	Fill	Bromochloromethane	0.0055	U
54-15457	MD54-01-0086	5–6	Fill	Bromodichloromethane	0.0055	U
54-15457	MD54-01-0086	5–6	Fill	Bromoform	0.0055	U
54-15457	MD54-01-0086	5–6	Fill	Bromomethane	0.011	U
54-15457	MD54-01-0086	5–6	Fill	Carbon disulfide	0.0055	U
54-15457	MD54-01-0086	5–6	Fill	Carbon tetrachloride	0.0055	U
54-15457	MD54-01-0086	5–6	Fill	Chlorobenzene	0.0055	U
54-15457	MD54-01-0086	5–6	Fill	Chlorodibromomethane	0.0055	U
54-15457	MD54-01-0086	5–6	Fill	Chloroethane	0.011	U
54-15457	MD54-01-0086	5–6	Fill	Chloroform	0.0055	U
54-15457	MD54-01-0086	5–6	Fill	Chloromethane	0.011	U
54-15457	MD54-01-0086	5–6	Fill	Dichloropropene[cis-1,3-]	0.0055	U
54-15457	MD54-01-0086	5–6	Fill	Dibromomethane	0.0055	U
54-15457	MD54-01-0086	5–6	Fill	Dichlorodifluoromethane	0.011	U
54-15457	MD54-01-0086	5–6	Fill	Ethylbenzene	0.0055	U
54-15457	MD54-01-0086	5–6	Fill	Iodomethane	0.0055	U
54-15457	MD54-01-0086	5–6	Fill	Isopropylbenzene	0.0055	U
54-15457	MD54-01-0086	5–6	Fill	Methylene chloride	0.0055	U
54-15457	MD54-01-0086	5–6	Fill	Butylbenzene[n-]	0.0055	U
54-15457	MD54-01-0086	5–6	Fill	Propylbenzene[1-]	0.0055	U
54-15457	MD54-01-0086	5–6	Fill	Butylbenzene[sec-]	0.0055	U
54-15457	MD54-01-0086	5–6	Fill	Styrene	0.0055	U
54-15457	MD54-01-0086	5–6	Fill	Butylbenzene[tert-]	0.0055	U
54-15457	MD54-01-0086	5–6	Fill	Tetrachloroethene	0.0055	U
54-15457	MD54-01-0086	5–6	Fill	Toluene	0 0055	U
54-15457	MD54-01-0086	5–6	Fill	Dichloropropene[trans-1,3-]	0.0055	U
54-15457	MD54-01-0086	5–6	Fill	Trichloroethene	0.0055	U
54-15457	MD54-01-0086	5–6	Fill	Trichlorofluoromethane	0.011	U
54-15457	MD54-01-0086	5–6	Fill	Trichlorotrifluoroethane	0.0055	U
54-15457	MD54-01-0086	5–6	Fill	Vinyl chloride	0.011	U
54-15457	MD54-01-0086	5–6	Fill	Xylene (total)	0.0055	U
54-15457	MD54-01-0086	5–6	Fill	Trichlorobenzene[1,2,4-]	0.36	U
54-15457	MD54-01-0086	5–6	Fill	Dichlorobenzene[1,2-]	0.36	U
54-15457	MD54-01-0086	5–6	Fill	Dichlorobenzene[1,3-]	0.36	U
54-15457	MD54-01-0086	5–6	Fill	Dichlorobenzene[1,4-]	0.36	U
54-15457	MD54-01-0086	5–6	Fill	Oxybis(1-chloropropane)[2,2'-]	0.36	U

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15457	MD54-01-0086	5–6	Fill	Trichlorophenol[2,4,5-]	0.36	U
54-15457	MD54-01-0086	5–6	Fill	Trichlorophenol[2,4,6-]	0.36	U
54-15457	MD54-01-0086	5–6	Fill	Dichlorophenol[2,4-]	0.36	U
54-15457	MD54-01-0086	5–6	Fill	Dimethylphenol[2,4-]	0.36	U
54-15457	MD54-01-0086	5–6	Fill	Dinitrophenol[2,4-]	1.7	U
54-15457	MD54-01-0086	5–6	Fill	Dinitrotoluene[2,4-]	0.36	U
54-15457	MD54-01-0086	5–6	Fill	Dinitrotoluene[2,6-]	0.36	U
54-15457	MD54-01-0086	5–6	Fill	Chloronaphthalene[2-]	0.36	U
54-15457	MD54-01-0086	5–6	Fill	Chlorophenol[2-]	0.36	U
54-15457	MD54-01-0086	5–6	Fill	Methylnaphthalene[2-]	0.36	U
54-15457	MD54-01-0086	5–6	Fill	Methylphenol[2-]	0.36	U
54-15457	MD54-01-0086	5–6	Fill	Nitroaniline[2-]	1.7	U
54-15457	MD54-01-0086	5–6	Fill	Nitrophenol[2-]	0.36	U
54-15457	MD54-01-0086	5–6	Fill	Dichlorobenzidine[3,3'-]	1.7	U
54-15457	MD54-01-0086	5–6	Fill	Nitroaniline[3-]	1.7	U
54-15457	MD54-01-0086	5–6	Fill	Dinitro-2-methylphenol[4,6-]	1.7	U
54-15457	MD54-01-0086	5–6	Fill	Bromophenyl-phenylether[4-]	0.36	U
54-15457	MD54-01-0086	5–6	Fill	Chloro-3-methylphenol[4-]	0.36	U
54-15457	MD54-01-0086	5–6	Fill	Chloroaniline[4-]	0.36	U
54-15457	MD54-01-0086	5–6	Fill	Chlorophenyl-phenyl[4-] ether	0.36	U
54-15457	MD54-01-0086	5–6	Fill	Methylphenol[4-]	0.36	U
54-15457	MD54-01-0086	5–6	Fill	Nitroaniline[4-]	1.7	U
54-15457	MD54-01-0086	5–6	Fill	Nitrophenol[4-]	1.7	U
54-15457	MD54-01-0086	5–6	Fill	Acenaphthene	0.36	U
54-15457	MD54-01-0086	5–6	Fill	Acenaphthylene	0.36	U
54-15457	MD54-01-0086	5–6	Fill	Aniline	0.36	U
54-15457	MD54-01-0086	5–6	Fill	Anthracene	0.36	U
54-15457	MD54-01-0086	5–6	Fill	Azobenzene	0.36	U
54-15457	MD54-01-0086	5–6	Fill	Benzo(a)anthracene	0.36	U
54-15457	MD54-01-0086	5–6	Fill	Benzo(a)pyrene	0.36	U
54-15457	MD54-01-0086	5–6	Fill	Benzo(b)fluoranthene	0.36	U
54-15457	MD54-01-0086	5–6	Fill	Benzo(g,h,i)perylene	0.36	U
54-15457	MD54-01-0086	5–6	Fill	Benzo(k)fluoranthene	0.36	U
54-15457	MD54-01-0086	5–6	Fill	Benzoic acid	1.7	U
54-15457	MD54-01-0086	5–6	Fill	Benzyl alcohol	0.36	U
54-15457	MD54-01-0086	5–6	Fill	Bis(2-chloroethoxy)methane	0.36	U
54-15457	MD54-01-0086	5–6	Fill	Bis(2-chloroethyl)ether	0.36	U
54-15457	MD54-01-0086	5–6	Fill	Bis(2-ethylhexyl)phthalate	0.36	U
54-15457	MD54-01-0086	5–6	Fill	Butylbenzylphthalate	0.36	U
54-15457	MD54-01-0086	5–6	Fill	Chrysene	0.36	U
54-15457	MD54-01-0086	5–6	Fill	Di-n-butylphthalate	0.36	U
54-15457	MD54-01-0086	5–6	Fill	Di-n-octylphthalate	0.36	U
54-15457	MD54-01-0086	5–6	Fill	Dibenz(a,h)anthracene	0.36	U
54-15457	MD54-01-0086	5–6	Fill	Dibenzofuran	0.36	U
54-15457	MD54-01-0086	5–6	Fill	Diethylphthalate	0.36	U
54-15457	MD54-01-0086	5–6	Fill	Dimethyl phthalate	0.36	U

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15457	MD54-01-0086	5–6	Fill	Fluoranthene	0.36	U
54-15457	MD54-01-0086	5–6	Fill	Fluorene	0.36	U
54-15457	MD54-01-0086	5–6	Fill	Hexachlorobenzene	0.36	U
54-15457	MD54-01-0086	5–6	Fill	Hexachlorobutadiene	0.36	U
54-15457	MD54-01-0086	5–6	Fill	Hexachlorocyclopentadiene	1.7	U
54-15457	MD54-01-0086	5–6	Fill	Hexachloroethane	0.36	U
54-15457	MD54-01-0086	5–6	Fill	Indeno(1,2,3-cd)pyrene	0.36	U
54-15457	MD54-01-0086	5–6	Fill	Isophorone	0.36	U
54-15457	MD54-01-0086	5–6	Fill	Nitroso-di-n-propylamine[N-]	0.36	U
54-15457	MD54-01-0086	5–6	Fill	Nitrosodimethylamine[N-]	0.36	U
54-15457	MD54-01-0086	5–6	Fill	Nitrosodiphenylamine[N-]	0.36	U
54-15457	MD54-01-0086	5–6	Fill	Naphthalene	0.36	U
54-15457	MD54-01-0086	5–6	Fill	Nitrobenzene	0.36	U
54-15457	MD54-01-0086	5–6	Fill	Pentachlorophenol	1.7	U
54-15457	MD54-01-0086	5–6	Fill	Phenanthrene	0.36	U
54-15457	MD54-01-0086	5–6	Fill	Phenol	0.36	U
54-15457	MD54-01-0086	5–6	Fill	Pyrene	0.36	U
54-15458	MD54-01-0088	5–6	Fill	pH	7.14[b]	None
54-15458	MD54-01-0088	5–6	Fill	Tetrachloroethane[1,1,1,2-]	0.0057	U
54-15458	MD54-01-0088	5–6	Fill	Trichloroethane[1,1,1-]	0.0057	U
54-15458	MD54-01-0088	5–6	Fill	Tetrachloroethane[1,1,2,2-]	0.0057	U
54-15458	MD54-01-0088	5–6	Fill	Trichloroethane[1,1,2-]	0.0057	U
54-15458	MD54-01-0088	5–6	Fill	Dichloroethane[1,1-]	0.0057	U
54-15458	MD54-01-0088	5–6	Fill	Dichloroethene[1,1-]	0.0057	U
54-15458	MD54-01-0088	5–6	Fill	Dichloropropene[1,1-]	0.0057	U
54-15458	MD54-01-0088	5–6	Fill	Trichloropropane[1,2,3-]	0.0057	U
54-15458	MD54-01-0088	5–6	Fill	Trimethylbenzene[1,2,4-]	0.0057	U
54-15458	MD54-01-0088	5–6	Fill	Dibromo-3-chloropropane[1,2-]	0.011	U
54-15458	MD54-01-0088	5–6	Fill	Dibromoethane[1,2-]	0.0057	U
54-15458	MD54-01-0088	5–6	Fill	Dichlorobenzene[1,2-]	0.0057	U
54-15458	MD54-01-0088	5–6	Fill	Dichloroethane[1,2-]	0.0057	U
54-15458	MD54-01-0088	5–6	Fill	Dichloroethene[cis/trans-1,2-]	0.0057	U
54-15458	MD54-01-0088	5–6	Fill	Dichloropropane[1,2-]	0.0057	U
54-15458	MD54-01-0088	5–6	Fill	Trimethylbenzene[1,3,5-]	0.0057	U
54-15458	MD54-01-0088	5–6	Fill	Dichlorobenzene[1,3-]	0.0057	U
54-15458	MD54-01-0088	5–6	Fill	Dichloropropane[1,3-]	0.0057	U
54-15458	MD54-01-0088	5–6	Fill	Dichlorobenzene[1,4-]	0.0057	U
54-15458	MD54-01-0088	5–6	Fill	Dichloropropane[2,2-]	0.0057	U
54-15458	MD54-01-0088	5–6	Fill	Butanone[2-]	0.023	U
54-15458	MD54-01-0088	5–6	Fill	Chlorotoluene[2-]	0.0057	U
54-15458	MD54-01-0088	5–6	Fill	Hexanone[2-]	0.023	U
54-15458	MD54-01-0088	5–6	Fill	Chlorotoluene[4-]	0.0057	U
54-15458	MD54-01-0088	5–6	Fill	Isopropyltoluene[4-]	0.0057	U
54-15458	MD54-01-0088	5–6	Fill	Methyl-2-pentanone[4-]	0.023	U
54-15458	MD54-01-0088	5–6	Fill	Acetone	0.018	J
54-15458	MD54-01-0088	5–6	Fill	Benzene	0.0057	U

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15458	MD54-01-0088	5-6	Fill	Bromobenzene	0.0057	U
54-15458	MD54-01-0088	5-6	Fill	Bromochloromethane	0.0057	U
54-15458	MD54-01-0088	5-6	Fill	Bromodichloromethane	0.0057	U
54-15458	MD54-01-0088	5-6	Fill	Bromoform	0.0057	U
54-15458	MD54-01-0088	5-6	Fill	Bromomethane	0.011	U
54-15458	MD54-01-0088	5-6	Fill	Carbon disulfide	0.0057	U
54-15458	MD54-01-0088	5-6	Fill	Carbon tetrachloride	0.0057	U
54-15458	MD54-01-0088	5-6	Fill	Chlorobenzene	0.0057	U
54-15458	MD54-01-0088	5-6	Fill	Chlorodibromomethane	0.0057	U
54-15458	MD54-01-0088	5-6	Fill	Chloroethane	0.011	U
54-15458	MD54-01-0088	5-6	Fill	Chloroform	0.0057	U
54-15458	MD54-01-0088	5-6	Fill	Chloromethane	0.011	U
54-15458	MD54-01-0088	5-6	Fill	Dichloropropene[cis-1,3-]	0.0057	U
54-15458	MD54-01-0088	5-6	Fill	Dibromomethane	0.0057	U
54-15458	MD54-01-0088	5-6	Fill	Dichlorodifluoromethane	0.011	U
54-15458	MD54-01-0088	5-6	Fill	Ethylbenzene	0.0057	U
54-15458	MD54-01-0088	5-6	Fill	Iodomethane	0.0057	U
54-15458	MD54-01-0088	5-6	Fill	Isopropylbenzene	0.0057	U
54-15458	MD54-01-0088	5-6	Fill	Methylene chloride	0.0057	U
54-15458	MD54-01-0088	5-6	Fill	Butylbenzene[n-]	0.0057	U
54-15458	MD54-01-0088	5-6	Fill	Propylbenzene[1-]	0.0057	U
54-15458	MD54-01-0088	5-6	Fill	Butylbenzene[sec-]	0.0057	U
54-15458	MD54-01-0088	5-6	Fill	Styrene	0.0057	U
54-15458	MD54-01-0088	5-6	Fill	Butylbenzene[tert-]	0.0057	U
54-15458	MD54-01-0088	5-6	Fill	Tetrachloroethene	0.0057	U
54-15458	MD54-01-0088	5-6	Fill	Toluene	0.0057	U
54-15458	MD54-01-0088	5-6	Fill	Dichloropropene[trans-1,3-]	0.0057	U
54-15458	MD54-01-0088	5-6	Fill	Trichloroethene	0.0057	U
54-15458	MD54-01-0088	5-6	Fill	Trichlorofluoromethane	0.011	U
54-15458	MD54-01-0088	5-6	Fill	Trichlorotrifluoroethane	0.0057	U
54-15458	MD54-01-0088	5-6	Fill	Vinyl chloride	0.011	U
54-15458	MD54-01-0088	5-6	Fill	Xylene (total)	0.0057	U
54-15458	MD54-01-0088	5-6	Fill	Trichlorobenzene[1,2,4-]	0.36	U
54-15458	MD54-01-0088	5-6	Fill	Dichlorobenzene[1,2-]	0.36	U
54-15458	MD54-01-0088	5-6	Fill	Dichlorobenzene[1,3-]	0.36	U
54-15458	MD54-01-0088	5-6	Fill	Dichlorobenzene[1,4-]	0.36	U
54-15458	MD54-01-0088	5-6	Fill	Oxybis(1-chloropropane)[2,2'-]	0.36	U
54-15458	MD54-01-0088	5-6	Fill	Trichlorophenol[2,4,5-]	0.36	U
54-15458	MD54-01-0088	5-6	Fill	Trichlorophenol[2,4,6-]	0.36	U
54-15458	MD54-01-0088	5-6	Fill	Dichlorophenol[2,4-]	0.36	U
54-15458	MD54-01-0088	5-6	Fill	Dimethylphenol[2,4-]	0.36	U
54-15458	MD54-01-0088	5-6	Fill	Dinitrophenol[2,4-]	1.8	U
54-15458	MD54-01-0088	5-6	Fill	Dinitrotoluene[2,4-]	0.36	U
54-15458	MD54-01-0088	5-6	Fill	Dinitrotoluene[2,6-]	0.36	U
54-15458	MD54-01-0088	5-6	Fill	Chloronaphthalene[2-]	0.36	U
54-15458	MD54-01-0088	5-6	Fill	Chlorophenol[2-]	0.36	U

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15458	MD54-01-0088	5-6	Fill	Methylnaphthalene[2-]	0.36	U
54-15458	MD54-01-0088	5-6	Fill	Methylphenol[2-]	0.36	U
54-15458	MD54-01-0088	5-6	Fill	Nitroaniline[2-]	1.8	U
54-15458	MD54-01-0088	5-6	Fill	Nitrophenol[2-]	0.36	U
54-15458	MD54-01-0088	5-6	Fill	Dichlorobenzidine[3,3'-]	1.8	U
54-15458	MD54-01-0088	5-6	Fill	Nitroaniline[3-]	1.8	U
54-15458	MD54-01-0088	5-6	Fill	Dinitro-2-methylphenol[4,6-]	1.8	U
54-15458	MD54-01-0088	5-6	Fill	Bromophenyl-phenylether[4-]	0.36	U
54-15458	MD54-01-0088	5-6	Fill	Chloro-3-methylphenol[4-]	0.36	U
54-15458	MD54-01-0088	5-6	Fill	Chloroaniline[4-]	0.36	U
54-15458	MD54-01-0088	5-6	Fill	Chlorophenyl-phenyl[4-] ether	0.36	U
54-15458	MD54-01-0088	5-6	Fill	Methylphenol[4-]	0.36	U
54-15458	MD54-01-0088	5-6	Fill	Nitroaniline[4-]	1.8	U
54-15458	MD54-01-0088	5-6	Fill	Nitrophenol[4-]	1.8	U
54-15458	MD54-01-0088	5-6	Fill	Acenaphthene	0.36	U
54-15458	MD54-01-0088	5-6	Fill	Acenaphthylene	0.36	U
54-15458	MD54-01-0088	5-6	Fill	Aniline	0.36	U
54-15458	MD54-01-0088	5-6	Fill	Anthracene	0.36	U
54-15458	MD54-01-0088	5-6	Fill	Azobenzene	0.36	U
54-15458	MD54-01-0088	5-6	Fill	Benzo(a)anthracene	0.36	U
54-15458	MD54-01-0088	5-6	Fill	Benzo(a)pyrene	0.36	U
54-15458	MD54-01-0088	5-6	Fill	Benzo(b)fluoranthene	0.36	U
54-15458	MD54-01-0088	5-6	Fill	Benzo(g,h,i)perylene	0.36	U
54-15458	MD54-01-0088	5-6	Fill	Benzo(k)fluoranthene	0.36	U
54-15458	MD54-01-0088	5-6	Fill	Benzoic acid	1.8	U
54-15458	MD54-01-0088	5-6	Fill	Benzyl alcohol	0.36	U
54-15458	MD54-01-0088	5-6	Fill	Bis(2-chloroethoxy)methane	0.36	U
54-15458	MD54-01-0088	5-6	Fill	Bis(2-chloroethyl)ether	0.36	U
54-15458	MD54-01-0088	5-6	Fill	Bis(2-ethylhexyl)phthalate	0.36	U
54-15458	MD54-01-0088	5-6	Fill	Butylbenzylphthalate	0.36	U
54-15458	MD54-01-0088	5-6	Fill	Chrysene	0.36	U
54-15458	MD54-01-0088	5-6	Fill	Isophorone	0.36	U
54-15458	MD54-01-0088	5-6	Fill	Nitroso-di-n-propylamine[N-]	0.36	U
54-15458	MD54-01-0088	5-6	Fill	Nitrosodimethylamine[N-]	0.36	U
54-15458	MD54-01-0088	5-6	Fill	Nitrosodiphenylamine[N-]	0.36	U
54-15458	MD54-01-0088	5-6	Fill	Naphthalene	0.36	U
54-15458	MD54-01-0088	5-6	Fill	Nitrobenzene	0.36	U
54-15458	MD54-01-0088	5-6	Fill	Pentachlorophenol	1.8	U
54-15458	MD54-01-0088	5-6	Fill	Phenanthrene	0.36	U
54-15458	MD54-01-0088	5-6	Fill	Phenol	0.36	U
54-15458	MD54-01-0088	5-6	Fill	Pyrene	0.36	U
54-15458	MD54-01-0088	5-6	Fill	Di-n-butylphthalate	0.36	U
54-15458	MD54-01-0088	5-6	Fill	Di-n-octylphthalate	0.36	U
54-15458	MD54-01-0088	5-6	Fill	Dibenz(a,h)anthracene	0.36	U
54-15458	MD54-01-0088	5-6	Fill	Dibenzofuran	0.36	U
54-15458	MD54-01-0088	5-6	Fill	Diethylphthalate	0.36	U

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15458	MD54-01-0088	5–6	FILL	Dimethyl phthalate	0.36	U
54-15458	MD54-01-0088	5–6	FILL	Fluoranthene	0.36	U
54-15458	MD54-01-0088	5–6	FILL	Fluorene	0.36	U
54-15458	MD54-01-0088	5–6	FILL	Hexachlorobenzene	0.36	U
54-15458	MD54-01-0088	5–6	FILL	Hexachlorobutadiene	0.36	U
54-15458	MD54-01-0088	5–6	FILL	Hexachlorocyclopentadiene	1.8	U
54-15458	MD54-01-0088	5–6	FILL	Hexachloroethane	0.36	U
54-15458	MD54-01-0088	5–6	FILL	Indeno(1,2,3-cd)pyrene	0.36	U
54-15427	MD54-01-0032	6.25–7.25	ALLH	pH	8.74[b]	None
54-15427	MD54-01-0032	6.25–7.25	ALLH	Chrysene	0.39	UJ
54-15427	MD54-01-0032	6.25–7.25	ALLH	Di-n-butylphthalate	0.39	UJ
54-15427	MD54-01-0032	6.25–7.25	ALLH	Di-n-octylphthalate	0.39	UJ
54-15427	MD54-01-0032	6.25–7.25	ALLH	Dibenz(a,h)anthracene	0.39	UJ
54-15427	MD54-01-0032	6.25–7.25	ALLH	Dibenzofuran	0.39	UJ
54-15427	MD54-01-0032	6.25–7.25	ALLH	Diethylphthalate	0.39	UJ
54-15427	MD54-01-0032	6.25–7.25	ALLH	Dimethyl phthalate	0.39	UJ
54-15427	MD54-01-0032	6.25–7.25	ALLH	Fluoranthene	0.39	UJ
54-15427	MD54-01-0032	6.25–7.25	ALLH	Fluorene	0.39	UJ
54-15427	MD54-01-0032	6.25–7.25	ALLH	Hexachlorobenzene	0.39	UJ
54-15427	MD54-01-0032	6.25–7.25	ALLH	Hexachlorobutadiene	0.39	UJ
54-15427	MD54-01-0032	6.25–7.25	ALLH	Hexachlorocyclopentadiene	1.9	UJ
54-15427	MD54-01-0032	6.25–7.25	ALLH	Hexachloroethane	0.39	UJ
54-15427	MD54-01-0032	6.25–7.25	ALLH	Indeno(1,2,3-cd)pyrene	0.39	UJ
54-15427	MD54-01-0032	6.25–7.25	ALLH	Isophorone	0.39	UJ
54-15427	MD54-01-0032	6.25–7.25	ALLH	Nitroso-di-n-propylamine[N-]	0.39	UJ
54-15427	MD54-01-0032	6.25–7.25	ALLH	Nitrosodimethylamine[N-]	0.39	UJ
54-15427	MD54-01-0032	6.25–7.25	ALLH	Nitrosodiphenylamine[N-]	0.39	UJ
54-15427	MD54-01-0032	6.25–7.25	ALLH	Naphthalene	0.39	UJ
54-15427	MD54-01-0032	6.25–7.25	ALLH	Nitrobenzene	0.39	UJ
54-15427	MD54-01-0032	6.25–7.25	ALLH	Pentachlorophenol	1.9	UJ
54-15427	MD54-01-0032	6.25–7.25	ALLH	Phenanthrene	0.39	UJ
54-15427	MD54-01-0032	6.25–7.25	ALLH	Phenol	0.39	UJ
54-15427	MD54-01-0032	6.25–7.25	ALLH	Pyrene	0.39	UJ
54-15427	MD54-01-0032	6.25–7.25	ALLH	Benzo(a)pyrene	0.39	UJ
54-15427	MD54-01-0032	6.25–7.25	ALLH	Benzo(b)fluoranthene	0.39	UJ
54-15427	MD54-01-0032	6.25–7.25	ALLH	Benzo(g,h,i)perylene	0.39	UJ
54-15427	MD54-01-0032	6.25–7.25	ALLH	Benzo(k)fluoranthene	0.39	UJ
54-15427	MD54-01-0032	6.25–7.25	ALLH	Benzoic acid	1.9	UJ
54-15427	MD54-01-0032	6.25–7.25	ALLH	Benzyl alcohol	0.39	UJ
54-15427	MD54-01-0032	6.25–7.25	ALLH	Bis(2-chloroethoxy)methane	0.39	UJ
54-15427	MD54-01-0032	6.25–7.25	ALLH	Bis(2-chloroethyl)ether	0.39	UJ
54-15427	MD54-01-0032	6.25–7.25	ALLH	Bis(2-ethylhexyl)phthalate	0.39	UJ
54-15427	MD54-01-0032	6.25–7.25	ALLH	Butylbenzylphthalate	0.39	UJ
54-15427	MD54-01-0032	6.25–7.25	ALLH	Trichlorobenzene[1,2,4-]	0.39	UJ
54-15427	MD54-01-0032	6.25–7.25	ALLH	Dichlorobenzene[1,2-]	0.39	UJ
54-15427	MD54-01-0032	6.25–7.25	ALLH	Dichlorobenzene[1,3-]	0.39	UJ

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15427	MD54-01-0032	6.25–7.25	ALLH	Dichlorobenzene[1,4-]	0.39	UJ
54-15427	MD54-01-0032	6.25–7.25	ALLH	Oxybis(1-chloropropane)[2,2'-]	0.39	UJ
54-15427	MD54-01-0032	6.25–7.25	ALLH	Trichlorophenol[2,4,5-]	0.39	UJ
54-15427	MD54-01-0032	6.25–7.25	ALLH	Trichlorophenol[2,4,6-]	0.39	UJ
54-15427	MD54-01-0032	6.25–7.25	ALLH	Dichlorophenol[2,4-]	0.39	UJ
54-15427	MD54-01-0032	6.25–7.25	ALLH	Dimethylphenol[2,4-]	0.39	UJ
54-15427	MD54-01-0032	6.25–7.25	ALLH	Dinitrophenol[2,4-]	1.9	UJ
54-15427	MD54-01-0032	6.25–7.25	ALLH	Dinitrotoluene[2,4-]	0.39	UJ
54-15427	MD54-01-0032	6.25–7.25	ALLH	Dinitrotoluene[2,6-]	0.39	UJ
54-15427	MD54-01-0032	6.25–7.25	ALLH	Chloronaphthalene[2-]	0.39	UJ
54-15427	MD54-01-0032	6.25–7.25	ALLH	Chlorophenol[2-]	0.39	UJ
54-15427	MD54-01-0032	6.25–7.25	ALLH	Methylnaphthalene[2-]	0.39	UJ
54-15427	MD54-01-0032	6.25–7.25	ALLH	Methylphenol[2-]	0.39	UJ
54-15427	MD54-01-0032	6.25–7.25	ALLH	Nitroaniline[2-]	1.9	UJ
54-15427	MD54-01-0032	6.25–7.25	ALLH	Nitrophenol[2-]	0.39	UJ
54-15427	MD54-01-0032	6.25–7.25	ALLH	Dichlorobenzidine[3,3'-]	1.9	UJ
54-15427	MD54-01-0032	6.25–7.25	ALLH	Nitroaniline[3-]	1.9	UJ
54-15427	MD54-01-0032	6.25–7.25	ALLH	Dinitro-2-methylphenol[4,6-]	1.9	UJ
54-15427	MD54-01-0032	6.25–7.25	ALLH	Bromophenyl-phenylether[4-]	0.39	UJ
54-15427	MD54-01-0032	6.25–7.25	ALLH	Chloro-3-methylphenol[4-]	0.39	UJ
54-15427	MD54-01-0032	6.25–7.25	ALLH	Chloroaniline[4-]	0.39	UJ
54-15427	MD54-01-0032	6.25–7.25	ALLH	Chlorophenyl-phenyl[4-] ether	0.39	UJ
54-15427	MD54-01-0032	6.25–7.25	ALLH	Methylphenol[4-]	0.39	UJ
54-15427	MD54-01-0032	6.25–7.25	ALLH	Nitroaniline[4-]	1.9	UJ
54-15427	MD54-01-0032	6.25–7.25	ALLH	Nitrophenol[4-]	1.9	UJ
54-15427	MD54-01-0032	6.25–7.25	ALLH	Acenaphthene	0.39	UJ
54-15427	MD54-01-0032	6.25–7.25	ALLH	Acenaphthylene	0.39	UJ
54-15427	MD54-01-0032	6.25–7.25	ALLH	Aniline	0.39	UJ
54-15427	MD54-01-0032	6.25–7.25	ALLH	Anthracene	0.39	UJ
54-15427	MD54-01-0032	6.25–7.25	ALLH	Azobenzene	0.39	UJ
54-15427	MD54-01-0032	6.25–7.25	ALLH	Benzo(a)anthracene	0.39	UJ
54-15427	MD54-01-0032	6.25–7.25	ALLH	Tetrachloroethane[1,1,1,2-]	0.0056	U
54-15427	MD54-01-0032	6.25–7.25	ALLH	Trichloroethane[1,1,1-]	0.0056	U
54-15427	MD54-01-0032	6.25–7.25	ALLH	Tetrachloroethane[1,1,2,2-]	0.0056	U
54-15427	MD54-01-0032	6.25–7.25	ALLH	Trichloroethane[1,1,2-]	0.0056	U
54-15427	MD54-01-0032	6.25–7.25	ALLH	Dichloroethane[1,1-]	0.0056	U
54-15427	MD54-01-0032	6.25–7.25	ALLH	Dichloroethene[1,1-]	0.0056	U
54-15427	MD54-01-0032	6.25–7.25	ALLH	Dichloropropene[1,1-]	0.0056	U
54-15427	MD54-01-0032	6.25–7.25	ALLH	Trichloropropane[1,2,3-]	0.0056	U
54-15427	MD54-01-0032	6.25–7.25	ALLH	Trimethylbenzene[1,2,4-]	0.0056	U
54-15427	MD54-01-0032	6.25–7.25	ALLH	Dibromo-3-chloropropane[1,2-]	0.011	U
54-15427	MD54-01-0032	6.25–7.25	ALLH	Dibromoethane[1,2-]	0.0056	U
54-15427	MD54-01-0032	6.25–7.25	ALLH	Dichlorobenzene[1,2-]	0.0056	U
54-15427	MD54-01-0032	6.25–7.25	ALLH	Dichloroethane[1,2-]	0.0056	U
54-15427	MD54-01-0032	6.25–7.25	ALLH	Dichloroethene[cis/trans-1,2-]	0.0056	U
54-15427	MD54-01-0032	6.25–7.25	ALLH	Dichloropropane[1,2-]	0.0056	U

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15427	MD54-01-0032	6.25–7.25	ALLH	Trimethylbenzene[1,3,5-]	0.0056	U
54-15427	MD54-01-0032	6.25–7.25	ALLH	Dichlorobenzene[1,3-]	0.0056	U
54-15427	MD54-01-0032	6.25–7.25	ALLH	Dichloropropane[1,3-]	0.0056	U
54-15427	MD54-01-0032	6.25–7.25	ALLH	Dichlorobenzene[1,4-]	0.0056	U
54-15427	MD54-01-0032	6.25–7.25	ALLH	Dichloropropane[2,2-]	0.0056	U
54-15427	MD54-01-0032	6.25–7.25	ALLH	Butanone[2-]	0.022	U
54-15427	MD54-01-0032	6.25–7.25	ALLH	Chlorotoluene[2-]	0.0056	U
54-15427	MD54-01-0032	6.25–7.25	ALLH	Hexanone[2-]	0.022	U
54-15427	MD54-01-0032	6.25–7.25	ALLH	Chlorotoluene[4-]	0.0056	U
54-15427	MD54-01-0032	6.25–7.25	ALLH	Isopropyltoluene[4-]	0.0056	U
54-15427	MD54-01-0032	6.25–7.25	ALLH	Methyl-2-pentanone[4-]	0.022	U
54-15427	MD54-01-0032	6.25–7.25	ALLH	Acetone	0.02	J
54-15427	MD54-01-0032	6.25–7.25	ALLH	Benzene	0.0056	U
54-15427	MD54-01-0032	6.25–7.25	ALLH	Bromobenzene	0.0056	U
54-15427	MD54-01-0032	6.25–7.25	ALLH	Bromochloromethane	0.0056	U
54-15427	MD54-01-0032	6.25–7.25	ALLH	Bromodichloromethane	0.0056	U
54-15427	MD54-01-0032	6.25–7.25	ALLH	Bromoform	0.0056	U
54-15427	MD54-01-0032	6.25–7.25	ALLH	Bromomethane	0.011	U
54-15427	MD54-01-0032	6.25–7.25	ALLH	Carbon disulfide	0.0056	U
54-15427	MD54-01-0032	6.25–7.25	ALLH	Carbon tetrachloride	0.0056	U
54-15427	MD54-01-0032	6.25–7.25	ALLH	Chlorobenzene	0.0056	U
54-15427	MD54-01-0032	6.25–7.25	ALLH	Chlorodibromomethane	0.0056	U
54-15427	MD54-01-0032	6.25–7.25	ALLH	Chloroethane	0.011	U
54-15427	MD54-01-0032	6.25–7.25	ALLH	Chloroform	0.0056	U
54-15427	MD54-01-0032	6.25–7.25	ALLH	Chloromethane	0.011	U
54-15427	MD54-01-0032	6.25–7.25	ALLH	Dichloropropene[cis-1,3-]	0.0056	U
54-15427	MD54-01-0032	6.25–7.25	ALLH	Dibromomethane	0.0056	U
54-15427	MD54-01-0032	6.25–7.25	ALLH	Dichlorodifluoromethane	0.011	U
54-15427	MD54-01-0032	6.25–7.25	ALLH	Ethylbenzene	0.0056	U
54-15427	MD54-01-0032	6.25–7.25	ALLH	Iodomethane	0.0056	U
54-15427	MD54-01-0032	6.25–7.25	ALLH	Isopropylbenzene	0.0056	U
54-15427	MD54-01-0032	6.25–7.25	ALLH	Methylene chloride	0.0056	U
54-15427	MD54-01-0032	6.25–7.25	ALLH	Butylbenzene[n-]	0.0056	U
54-15427	MD54-01-0032	6.25–7.25	ALLH	Propylbenzene[1-]	0.0056	U
54-15427	MD54-01-0032	6.25–7.25	ALLH	Butylbenzene[sec-]	0.0056	U
54-15427	MD54-01-0032	6.25–7.25	ALLH	Styrene	0.0056	U
54-15427	MD54-01-0032	6.25–7.25	ALLH	Butylbenzene[tert-]	0.0056	U
54-15427	MD54-01-0032	6.25–7.25	ALLH	Tetrachloroethene	0.0056	U
54-15427	MD54-01-0032	6.25–7.25	ALLH	Toluene	0.0056	U
54-15427	MD54-01-0032	6.25–7.25	ALLH	Dichloropropene[trans-1,3-]	0.0056	U
54-15427	MD54-01-0032	6.25–7.25	ALLH	Trichloroethene	0.0056	U
54-15427	MD54-01-0032	6.25–7.25	ALLH	Trichlorofluoromethane	0.011	U
54-15427	MD54-01-0032	6.25–7.25	ALLH	Trichlorotrifluoroethane	0.0056	U
54-15427	MD54-01-0032	6.25–7.25	ALLH	Vinyl chloride	0.011	U
54-15427	MD54-01-0032	6.25–7.25	ALLH	Xylene (total)	0.0056	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	pH	7.4[b]	None

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15422	MD54-01-0022	7–7.5	Qbt 3	Nitroaniline[2-]	1.7	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Nitrophenol[2-]	0.35	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Dichlorobenzidine[3,3'-]	1.7	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Nitroaniline[3-]	1.7	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Dinitro-2-methylphenol[4,6-]	1.7	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Bromophenyl-phenylether[4-]	0.35	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Chrysene	0.35	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Di-n-butylphthalate	0.35	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Di-n-octylphthalate	0.35	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Dibenz(a,h)anthracene	0.35	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Dibenzofuran	0.35	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Diethylphthalate	0.35	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Dimethyl phthalate	0.35	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Fluoranthene	0.35	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Fluorene	0.35	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Hexachlorobenzene	1.7	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Hexachlorobutadiene	0.35	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Hexachlorocyclopentadiene	1.7	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Hexachloroethane	0.35	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Indeno(1,2,3-cd)pyrene	0.35	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Isophorone	0.35	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Nitroso-di-n-propylamine[N-]	0.35	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Nitrosodimethylamine[N-]	0.35	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Nitrosodiphenylamine[N-]	0.35	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Naphthalene	0.35	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Nitrobenzene	0.35	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Pentachlorophenol	0.35	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Phenanthrene	0.35	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Phenol	0.35	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Pyrene	0.35	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Trichlorobenzene[1,2,4-]	0.35	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Dichlorobenzene[1,2-]	0.35	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Dichlorobenzene[1,3-]	0.35	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Dichlorobenzene[1,4-]	0.35	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Oxybis(1-chloropropane)[2,2'-]	0.35	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Tetrachloroethane[1,1,1,2-]	0.0058	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Trichloroethane[1,1,1-]	0.0058	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Tetrachloroethane[1,1,2,2-]	0.0058	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Trichloroethane[1,1,2-]	0.0058	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Dichloroethane[1,1-]	0.0058	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Dichloroethene[1,1-]	0.0058	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Dichloropropene[1,1-]	0.0058	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Trichloropropane[1,2,3-]	0.0058	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Dibromo-3-chloropropane[1,2-]	0.012	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Dibromoethane[1,2-]	0.0058	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Dichlorobenzene[1,2-]	0.0058	U

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15422	MD54-01-0022	7–7.5	Qbt 3	Dichloroethane[1,2-]	0.0058	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Dichloroethene[cis/trans-1,2-]	0.0058	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Dichloropropane[1,2-]	0.0058	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Trimethylbenzene[1,3,5-]	0.0058	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Dichlorobenzene[1,3-]	0.0058	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Dichloropropane[1,3-]	0.0058	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Dichlorobenzene[1,4-]	0.0058	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Dichloropropane[2,2-]	0.0058	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Butanone[2-]	0.023	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Chlorotoluene[2-]	0.0058	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Hexanone[2-]	0.023	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Chlorotoluene[4-]	0.0058	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Isopropyltoluene[4-]	0.0058	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Methyl-2-pentanone[4-]	0.023	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Acetone	0.065	J+
54-15422	MD54-01-0022	7–7.5	Qbt 3	Benzene	0.0031	J+
54-15422	MD54-01-0022	7–7.5	Qbt 3	Bromobenzene	0.0058	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Bromochloromethane	0.0058	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Bromodichloromethane	0.0058	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Bromoform	0.0058	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Bromomethane	0.002	J+
54-15422	MD54-01-0022	7–7.5	Qbt 3	Carbon disulfide	0.002	J+
54-15422	MD54-01-0022	7–7.5	Qbt 3	Carbon tetrachloride	0.0058	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Chlorobenzene	0.0058	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Chlorodibromomethane	0.0058	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Chloroethane	0.012	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Chloroform	0.0058	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Chloromethane	0.012	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Dichloropropene[cis-1,3-]	0.0058	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Dibromomethane	0.0058	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Dichlorodifluoromethane	0.012	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Ethylbenzene	0.0058	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Iodomethane	0.0058	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Isopropylbenzene	0.0058	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Methylene chloride	0.0058	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Butylbenzene[n-]	0.0058	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Propylbenzene[1-]	0.0058	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Styrene	0.0058	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Butylbenzene[tert-]	0.0058	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Tetrachloroethene	0.0058	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Toluene	0.0058	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Dichloropropene[trans-1,3-]	0.0058	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Trichloroethene	0.0058	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Trichlorofluoromethane	0.012	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Trichlorotrifluoroethane	0.0058	U
54-15422	MD54-01-0022	7–7.5	Qbt 3	Vinyl chloride	0.012	U

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15422	MD54-01-0022	7-7.5	Qbt 3	Xylene (total)	0.0058	U
54-15422	MD54-01-0022	7-7.5	Qbt 3	Chloro-3-methylphenol[4-]	0.35	U
54-15422	MD54-01-0022	7-7.5	Qbt 3	Chloroaniline[4-]	0.35	U
54-15422	MD54-01-0022	7-7.5	Qbt 3	Chlorophenyl-phenyl[4-] ether	0.35	U
54-15422	MD54-01-0022	7-7.5	Qbt 3	Methylphenol[4-]	0.35	U
54-15422	MD54-01-0022	7-7.5	Qbt 3	Nitroaniline[4-]	1.7	U
54-15422	MD54-01-0022	7-7.5	Qbt 3	Nitrophenol[4-]	1.7	U
54-15422	MD54-01-0022	7-7.5	Qbt 3	Acenaphthene	0.35	U
54-15422	MD54-01-0022	7-7.5	Qbt 3	Acenaphthylene	0.35	U
54-15422	MD54-01-0022	7-7.5	Qbt 3	Aniline	0.35	U
54-15422	MD54-01-0022	7-7.5	Qbt 3	Anthracene	0.35	U
54-15422	MD54-01-0022	7-7.5	Qbt 3	Azobenzene	0.35	U
54-15422	MD54-01-0022	7-7.5	Qbt 3	Benzo(a)anthracene	0.35	U
54-15422	MD54-01-0022	7-7.5	Qbt 3	Benzo(a)pyrene	0.35	U
54-15422	MD54-01-0022	7-7.5	Qbt 3	Benzo(b)fluoranthene	0.35	U
54-15422	MD54-01-0022	7-7.5	Qbt 3	Benzo(g,h,i)perylene	0.35	U
54-15422	MD54-01-0022	7-7.5	Qbt 3	Benzo(k)fluoranthene	0.35	U
54-15422	MD54-01-0022	7-7.5	Qbt 3	Benzoic acid	1.7	U
54-15422	MD54-01-0022	7-7.5	Qbt 3	Benzyl alcohol	0.35	U
54-15422	MD54-01-0022	7-7.5	Qbt 3	Bis(2-chloroethoxy)methane	0.35	U
54-15422	MD54-01-0022	7-7.5	Qbt 3	Bis(2-chloroethyl)ether	0.35	U
54-15422	MD54-01-0022	7-7.5	Qbt 3	Bis(2-ethylhexyl)phthalate	0.35	U
54-15422	MD54-01-0022	7-7.5	Qbt 3	Butylbenzylphthalate	0.35	U
54-15422	MD54-01-0022	7-7.5	Qbt 3	Trichlorophenol[2,4,5-]	0.35	U
54-15422	MD54-01-0022	7-7.5	Qbt 3	Trichlorophenol[2,4,6-]	0.35	U
54-15422	MD54-01-0022	7-7.5	Qbt 3	Dichlorophenol[2,4-]	0.35	U
54-15422	MD54-01-0022	7-7.5	Qbt 3	Dimethylphenol[2,4-]	0.35	U
54-15422	MD54-01-0022	7-7.5	Qbt 3	Dinitrophenol[2,4-]	1.7	U
54-15422	MD54-01-0022	7-7.5	Qbt 3	Dinitrotoluene[2,4-]	0.35	U
54-15422	MD54-01-0022	7-7.5	Qbt 3	Dinitrotoluene[2,6-]	1.7	U
54-15422	MD54-01-0022	7-7.5	Qbt 3	Chloronaphthalene[2-]	0.35	U
54-15422	MD54-01-0022	7-7.5	Qbt 3	Chlorophenol[2-]	0.35	U
54-15422	MD54-01-0022	7-7.5	Qbt 3	Methylnaphthalene[2-]	0.35	U
54-15422	MD54-01-0022	7-7.5	Qbt 3	Methylphenol[2-]	0.35	U
54-15448	MD54-01-0052	7-8	ALLH	pH	6.88[b]	None
54-15448	MD54-01-0052	7-8	ALLH	Trichloroethene	0.0054	U
54-15448	MD54-01-0052	7-8	ALLH	Trichlorofluoromethane	0.0026	J
54-15448	MD54-01-0052	7-8	ALLH	Trichlorotrifluoroethane	0.0054	U
54-15448	MD54-01-0052	7-8	ALLH	Vinyl chloride	0.011	U
54-15448	MD54-01-0052	7-8	ALLH	Xylene (total)	0.0054	U
54-15448	MD54-01-0052	7-8	ALLH	Chlorotoluene[4-]	0.0054	U
54-15448	MD54-01-0052	7-8	ALLH	Isopropyltoluene[4-]	0.0054	U
54-15448	MD54-01-0052	7-8	ALLH	Methyl-2-pentanone[4-]	0.022	U
54-15448	MD54-01-0052	7-8	ALLH	Acetone	0.028	None
54-15448	MD54-01-0052	7-8	ALLH	Benzene	0.0054	U
54-15448	MD54-01-0052	7-8	ALLH	Bromobenzene	0.0054	U

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15448	MD54-01-0052	7-8	ALLH	Bromochloromethane	0.0054	U
54-15448	MD54-01-0052	7-8	ALLH	Bromodichloromethane	0.0054	U
54-15448	MD54-01-0052	7-8	ALLH	Bromoform	0.0054	U
54-15448	MD54-01-0052	7-8	ALLH	Bromomethane	0.011	U
54-15448	MD54-01-0052	7-8	ALLH	Carbon disulfide	0.0054	U
54-15448	MD54-01-0052	7-8	ALLH	Carbon tetrachloride	0.0054	U
54-15448	MD54-01-0052	7-8	ALLH	Chlorobenzene	0.0054	U
54-15448	MD54-01-0052	7-8	ALLH	Chlorodibromomethane	0.0054	U
54-15448	MD54-01-0052	7-8	ALLH	Chloroethane	0.011	U
54-15448	MD54-01-0052	7-8	ALLH	Chloroform	0.0054	U
54-15448	MD54-01-0052	7-8	ALLH	Chloromethane	0.011	U
54-15448	MD54-01-0052	7-8	ALLH	Dichloropropene[cis-1,3-]	0.0054	U
54-15448	MD54-01-0052	7-8	ALLH	Dibromomethane	0.0054	U
54-15448	MD54-01-0052	7-8	ALLH	Dichlorodifluoromethane	0.011	U
54-15448	MD54-01-0052	7-8	ALLH	Ethylbenzene	0.0054	U
54-15448	MD54-01-0052	7-8	ALLH	Iodomethane	0.0054	U
54-15448	MD54-01-0052	7-8	ALLH	Isopropylbenzene	0.0054	U
54-15448	MD54-01-0052	7-8	ALLH	Methylene chloride	0.0054	U
54-15448	MD54-01-0052	7-8	ALLH	Butylbenzene[n-]	0.0054	U
54-15448	MD54-01-0052	7-8	ALLH	Propylbenzene[1-]	0.0054	U
54-15448	MD54-01-0052	7-8	ALLH	Butylbenzene[sec-]	0.0054	U
54-15448	MD54-01-0052	7-8	ALLH	Styrene	0.0054	U
54-15448	MD54-01-0052	7-8	ALLH	Butylbenzene[tert-]	0.0054	U
54-15448	MD54-01-0052	7-8	ALLH	Tetrachloroethene	0.0054	U
54-15448	MD54-01-0052	7-8	ALLH	Toluene	0.0054	U
54-15448	MD54-01-0052	7-8	ALLH	Dichloropropene[trans-1,3-]	0.0054	U
54-15448	MD54-01-0052	7-8	ALLH	Trichlorobenzene[1,2,4-]	0.36	U
54-15448	MD54-01-0052	7-8	ALLH	Dichlorobenzene[1,2-]	0.36	U
54-15448	MD54-01-0052	7-8	ALLH	Dichlorobenzene[1,3-]	0.36	U
54-15448	MD54-01-0052	7-8	ALLH	Dichlorobenzene[1,4-]	0.36	U
54-15448	MD54-01-0052	7-8	ALLH	Oxybis(1-chloropropane)[2,2'-]	0.36	U
54-15448	MD54-01-0052	7-8	ALLH	Trichlorophenol[2,4,5-]	0.36	U
54-15448	MD54-01-0052	7-8	ALLH	Trichlorophenol[2,4,6-]	0.36	U
54-15448	MD54-01-0052	7-8	ALLH	Dichlorophenol[2,4-]	0.36	U
54-15448	MD54-01-0052	7-8	ALLH	Dimethylphenol[2,4-]	0.36	U
54-15448	MD54-01-0052	7-8	ALLH	Dinitrophenol[2,4-]	1.7	U
54-15448	MD54-01-0052	7-8	ALLH	Dinitrotoluene[2,4-]	0.36	U
54-15448	MD54-01-0052	7-8	ALLH	Dinitrotoluene[2,6-]	0.36	U
54-15448	MD54-01-0052	7-8	ALLH	Chloronaphthalene[2-]	0.36	U
54-15448	MD54-01-0052	7-8	ALLH	Chlorophenol[2-]	0.36	U
54-15448	MD54-01-0052	7-8	ALLH	Methylnaphthalene[2-]	0.36	U
54-15448	MD54-01-0052	7-8	ALLH	Methylphenol[2-]	0.36	U
54-15448	MD54-01-0052	7-8	ALLH	Nitroaniline[2-]	1.7	U
54-15448	MD54-01-0052	7-8	ALLH	Nitrophenol[2-]	0.36	U
54-15448	MD54-01-0052	7-8	ALLH	Dichlorobenzidine[3,3'-]	1.7	U
54-15448	MD54-01-0052	7-8	ALLH	Nitroaniline[3-]	1.7	U

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15448	MD54-01-0052	7-8	ALLH	Dinitro-2-methylphenol[4,6-]	1.7	U
54-15448	MD54-01-0052	7-8	ALLH	Bromophenyl-phenylether[4-]	0.36	U
54-15448	MD54-01-0052	7-8	ALLH	Chloro-3-methylphenol[4-]	0.36	U
54-15448	MD54-01-0052	7-8	ALLH	Chloroaniline[4-]	0.36	U
54-15448	MD54-01-0052	7-8	ALLH	Chlorophenyl-phenyl[4-] ether	0.36	U
54-15448	MD54-01-0052	7-8	ALLH	Methylphenol[4-]	0.36	U
54-15448	MD54-01-0052	7-8	ALLH	Nitroaniline[4-]	1.7	U
54-15448	MD54-01-0052	7-8	ALLH	Nitrophenol[4-]	1.7	U
54-15448	MD54-01-0052	7-8	ALLH	Acenaphthene	0.36	U
54-15448	MD54-01-0052	7-8	ALLH	Acenaphthylene	0.36	U
54-15448	MD54-01-0052	7-8	ALLH	Aniline	0.36	U
54-15448	MD54-01-0052	7-8	ALLH	Anthracene	0.36	U
54-15448	MD54-01-0052	7-8	ALLH	Azobenzene	0.36	U
54-15448	MD54-01-0052	7-8	ALLH	Benzo(a)anthracene	0.36	U
54-15448	MD54-01-0052	7-8	ALLH	Benzo(a)pyrene	0.36	U
54-15448	MD54-01-0052	7-8	ALLH	Benzo(b)fluoranthene	0.36	U
54-15448	MD54-01-0052	7-8	ALLH	Benzo(g,h,i)perylene	0.36	U
54-15448	MD54-01-0052	7-8	ALLH	Benzo(k)fluoranthene	0.36	U
54-15448	MD54-01-0052	7-8	ALLH	Benzoic acid	1.7	U
54-15448	MD54-01-0052	7-8	ALLH	Benzyl alcohol	0.36	U
54-15448	MD54-01-0052	7-8	ALLH	Bis(2-chloroethoxy)methane	0.36	U
54-15448	MD54-01-0052	7-8	ALLH	Bis(2-chloroethyl)ether	0.36	U
54-15448	MD54-01-0052	7-8	ALLH	Bis(2-ethylhexyl)phthalate	0.36	U
54-15448	MD54-01-0052	7-8	ALLH	Butylbenzylphthalate	0.36	U
54-15448	MD54-01-0052	7-8	ALLH	Chrysene	0.36	U
54-15448	MD54-01-0052	7-8	ALLH	Di-n-butylphthalate	0.36	U
54-15448	MD54-01-0052	7-8	ALLH	Di-n-octylphthalate	0.93	U
54-15448	MD54-01-0052	7-8	ALLH	Dibenz(a,h)anthracene	0.36	U
54-15448	MD54-01-0052	7-8	ALLH	Dibenzofuran	0.36	U
54-15448	MD54-01-0052	7-8	ALLH	Diethylphthalate	0.36	U
54-15448	MD54-01-0052	7-8	ALLH	Dimethyl phthalate	0.36	U
54-15448	MD54-01-0052	7-8	ALLH	Fluoranthene	0.36	U
54-15448	MD54-01-0052	7-8	ALLH	Fluorene	0.36	U
54-15448	MD54-01-0052	7-8	ALLH	Hexachlorobenzene	0.36	U
54-15448	MD54-01-0052	7-8	ALLH	Hexachlorobutadiene	0.36	U
54-15448	MD54-01-0052	7-8	ALLH	Hexachlorocyclopentadiene	1.7	U
54-15448	MD54-01-0052	7-8	ALLH	Hexachloroethane	0.36	U
54-15448	MD54-01-0052	7-8	ALLH	Indeno(1,2,3-cd)pyrene	0.36	U
54-15448	MD54-01-0052	7-8	ALLH	Isophorone	0.36	U
54-15448	MD54-01-0052	7-8	ALLH	Nitroso-di-n-propylamine[N-]	0.36	U
54-15448	MD54-01-0052	7-8	ALLH	Nitrosodimethylamine[N-]	0.36	U
54-15448	MD54-01-0052	7-8	ALLH	Nitrosodiphenylamine[N-]	0.36	U
54-15448	MD54-01-0052	7-8	ALLH	Naphthalene	0.36	U
54-15448	MD54-01-0052	7-8	ALLH	Nitrobenzene	0.36	U
54-15448	MD54-01-0052	7-8	ALLH	Pentachlorophenol	1.7	U
54-15448	MD54-01-0052	7-8	ALLH	Phenanthrene	0.36	U

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15448	MD54-01-0052	7-8	ALLH	Phenol	0.36	U
54-15448	MD54-01-0052	7-8	ALLH	Pyrene	0.36	U
54-15448	MD54-01-0052	7-8	ALLH	Tetrachloroethane[1,1,1,2-]	0.0054	U
54-15448	MD54-01-0052	7-8	ALLH	Trichloroethane[1,1,1-]	0.0054	U
54-15448	MD54-01-0052	7-8	ALLH	Tetrachloroethane[1,1,2,2-]	0.0054	U
54-15448	MD54-01-0052	7-8	ALLH	Trichloroethane[1,1,2-]	0.0054	U
54-15448	MD54-01-0052	7-8	ALLH	Dichloroethane[1,1-]	0.0054	U
54-15448	MD54-01-0052	7-8	ALLH	Dichloroethene[1,1-]	0.0054	U
54-15448	MD54-01-0052	7-8	ALLH	Dichloropropene[1,1-]	0.0054	U
54-15448	MD54-01-0052	7-8	ALLH	Trichloropropane[1,2,3-]	0.0054	U
54-15448	MD54-01-0052	7-8	ALLH	Trimethylbenzene[1,2,4-]	0.0054	U
54-15448	MD54-01-0052	7-8	ALLH	Dibromo-3-chloropropane[1,2-]	0.011	U
54-15448	MD54-01-0052	7-8	ALLH	Dibromoethane[1,2-]	0.0054	U
54-15448	MD54-01-0052	7-8	ALLH	Dichlorobenzene[1,2-]	0.0054	U
54-15448	MD54-01-0052	7-8	ALLH	Dichloroethane[1,2-]	0.0054	U
54-15448	MD54-01-0052	7-8	ALLH	Dichloroethene[cis/trans-1,2-]	0.0054	U
54-15448	MD54-01-0052	7-8	ALLH	Dichloropropane[1,2-]	0.0054	U
54-15448	MD54-01-0052	7-8	ALLH	Trimethylbenzene[1,3,5-]	0.0054	U
54-15448	MD54-01-0052	7-8	ALLH	Dichlorobenzene[1,3-]	0.0054	U
54-15448	MD54-01-0052	7-8	ALLH	Dichloropropane[1,3-]	0.0054	U
54-15448	MD54-01-0052	7-8	ALLH	Dichlorobenzene[1,4-]	0.0054	U
54-15448	MD54-01-0052	7-8	ALLH	Dichloropropane[2,2-]	0.0054	U
54-15448	MD54-01-0052	7-8	ALLH	Butanone[2-]	0.022	U
54-15448	MD54-01-0052	7-8	ALLH	Chlorotoluene[2-]	0.0054	U
54-15448	MD54-01-0052	7-8	ALLH	Hexanone[2-]	0.022	U
54-15448	MD54-01-0069	7-8	FILL	pH	6.89[b]	None
54-15448	MD54-01-0069	7-8	FILL	Butylbenzene[tert-]	0.0062	U
54-15448	MD54-01-0069	7-8	FILL	Tetrachloroethene	0.0062	U
54-15448	MD54-01-0069	7-8	FILL	Toluene	0.0062	U
54-15448	MD54-01-0069	7-8	FILL	Dichloropropene[trans-1,3-]	0.0062	U
54-15448	MD54-01-0069	7-8	FILL	Trichloroethene	0.0062	U
54-15448	MD54-01-0069	7-8	FILL	Trichlorofluoromethane	0.0032	J
54-15448	MD54-01-0069	7-8	FILL	Trichlorotrifluoroethane	0.0062	U
54-15448	MD54-01-0069	7-8	FILL	Vinyl chloride	0.012	U
54-15448	MD54-01-0069	7-8	FILL	Xylene (total)	0.0062	U
54-15448	MD54-01-0069	7-8	FILL	Tetrachloroethane[1,1,1,2-]	0.0062	U
54-15448	MD54-01-0069	7-8	FILL	Trichloroethane[1,1,1-]	0.0062	U
54-15448	MD54-01-0069	7-8	FILL	Tetrachloroethane[1,1,2,2-]	0.0062	U
54-15448	MD54-01-0069	7-8	FILL	Trichloroethane[1,1,2-]	0.0062	U
54-15448	MD54-01-0069	7-8	FILL	Dichloroethane[1,1-]	0.0062	U
54-15448	MD54-01-0069	7-8	FILL	Dichloroethene[1,1-]	0.0062	U
54-15448	MD54-01-0069	7-8	FILL	Dichloropropene[1,1-]	0.0062	U
54-15448	MD54-01-0069	7-8	FILL	Trichloropropane[1,2,3-]	0.0062	U
54-15448	MD54-01-0069	7-8	FILL	Trimethylbenzene[1,2,4-]	0.0062	U
54-15448	MD54-01-0069	7-8	FILL	Dibromo-3-chloropropane[1,2-]	0.012	U
54-15448	MD54-01-0069	7-8	FILL	Dibromoethane[1,2-]	0.0062	U

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15448	MD54-01-0069	7-8	Fill	Dichlorobenzene[1,2-]	0.0062	U
54-15448	MD54-01-0069	7-8	Fill	Dichloroethane[1,2-]	0.0062	U
54-15448	MD54-01-0069	7-8	Fill	Dichloroethene[cis/trans-1,2-]	0.0062	U
54-15448	MD54-01-0069	7-8	Fill	Dichloropropane[1,2-]	0.0062	U
54-15448	MD54-01-0069	7-8	Fill	Trimethylbenzene[1,3,5-]	0.0062	U
54-15448	MD54-01-0069	7-8	Fill	Dichlorobenzene[1,3-]	0.0062	U
54-15448	MD54-01-0069	7-8	Fill	Dichloropropane[1,3-]	0.0062	U
54-15448	MD54-01-0069	7-8	Fill	Dichlorobenzene[1,4-]	0.0062	U
54-15448	MD54-01-0069	7-8	Fill	Dichloropropane[2,2-]	0.0062	U
54-15448	MD54-01-0069	7-8	Fill	Butanone[2-]	0.0086	J
54-15448	MD54-01-0069	7-8	Fill	Chlorotoluene[2-]	0.0062	U
54-15448	MD54-01-0069	7-8	Fill	Hexanone[2-]	0.025	U
54-15448	MD54-01-0069	7-8	Fill	Chlorotoluene[4-]	0.0062	U
54-15448	MD54-01-0069	7-8	Fill	Isopropyltoluene[4-]	0.0062	U
54-15448	MD54-01-0069	7-8	Fill	Methyl-2-pentanone[4-]	0.025	U
54-15448	MD54-01-0069	7-8	Fill	Acetone	0.034	None
54-15448	MD54-01-0069	7-8	Fill	Benzene	0.0062	U
54-15448	MD54-01-0069	7-8	Fill	Bromobenzene	0.0062	U
54-15448	MD54-01-0069	7-8	Fill	Bromochloromethane	0.0062	U
54-15448	MD54-01-0069	7-8	Fill	Bromodichloromethane	0.0062	U
54-15448	MD54-01-0069	7-8	Fill	Bromoform	0.0062	U
54-15448	MD54-01-0069	7-8	Fill	Bromomethane	0.012	U
54-15448	MD54-01-0069	7-8	Fill	Carbon disulfide	0.0062	U
54-15448	MD54-01-0069	7-8	Fill	Carbon tetrachloride	0.0062	U
54-15448	MD54-01-0069	7-8	Fill	Chlorobenzene	0.0062	U
54-15448	MD54-01-0069	7-8	Fill	Chlorodibromomethane	0.0062	U
54-15448	MD54-01-0069	7-8	Fill	Chloroethane	0.012	U
54-15448	MD54-01-0069	7-8	Fill	Chloroform	0.0062	U
54-15448	MD54-01-0069	7-8	Fill	Chloromethane	0.012	U
54-15448	MD54-01-0069	7-8	Fill	Dichloropropene[cis-1,3-]	0.0062	U
54-15448	MD54-01-0069	7-8	Fill	Dibromomethane	0.0062	U
54-15448	MD54-01-0069	7-8	Fill	Dichlorodifluoromethane	0.012	U
54-15448	MD54-01-0069	7-8	Fill	Ethylbenzene	0.0062	U
54-15448	MD54-01-0069	7-8	Fill	Iodomethane	0.0062	U
54-15448	MD54-01-0069	7-8	Fill	Isopropylbenzene	0.0062	U
54-15448	MD54-01-0069	7-8	Fill	Methylene chloride	0.0062	U
54-15448	MD54-01-0069	7-8	Fill	Butylbenzene[n-]	0.0062	U
54-15448	MD54-01-0069	7-8	Fill	Propylbenzene[1-]	0.0062	U
54-15448	MD54-01-0069	7-8	Fill	Butylbenzene[sec-]	0.0062	U
54-15448	MD54-01-0069	7-8	Fill	Styrene	0.0062	U
54-15448	MD54-01-0069	7-8	Fill	Bis(2-chloroethyl)ether	0.36	U
54-15448	MD54-01-0069	7-8	Fill	Bis(2-ethylhexyl)phthalate	0.36	U
54-15448	MD54-01-0069	7-8	Fill	Butylbenzylphthalate	0.36	U
54-15448	MD54-01-0069	7-8	Fill	Chrysene	0.36	U
54-15448	MD54-01-0069	7-8	Fill	Di-n-butylphthalate	0.36	U
54-15448	MD54-01-0069	7-8	Fill	Di-n-octylphthalate	0.36	U

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15448	MD54-01-0069	7-8	Fill	Dibenz(a,h)anthracene	0.36	U
54-15448	MD54-01-0069	7-8	Fill	Dibenzofuran	0.36	U
54-15448	MD54-01-0069	7-8	Fill	Diethylphthalate	0.36	U
54-15448	MD54-01-0069	7-8	Fill	Dimethyl phthalate	0.36	U
54-15448	MD54-01-0069	7-8	Fill	Fluoranthene	0.36	U
54-15448	MD54-01-0069	7-8	Fill	Fluorene	0.36	U
54-15448	MD54-01-0069	7-8	Fill	Hexachlorobenzene	0.36	U
54-15448	MD54-01-0069	7-8	Fill	Hexachlorobutadiene	0.36	U
54-15448	MD54-01-0069	7-8	Fill	Hexachlorocyclopentadiene	1.7	U
54-15448	MD54-01-0069	7-8	Fill	Hexachloroethane	0.36	U
54-15448	MD54-01-0069	7-8	Fill	Indeno(1,2,3-cd)pyrene	0.36	U
54-15448	MD54-01-0069	7-8	Fill	Isophorone	0.36	U
54-15448	MD54-01-0069	7-8	Fill	Nitroso-di-n-propylamine[N-]	0.36	U
54-15448	MD54-01-0069	7-8	Fill	Nitrosodimethylamine[N-]	0.36	U
54-15448	MD54-01-0069	7-8	Fill	Nitrosodiphenylamine[N-]	0.36	U
54-15448	MD54-01-0069	7-8	Fill	Naphthalene	0.36	U
54-15448	MD54-01-0069	7-8	Fill	Nitrobenzene	0.36	U
54-15448	MD54-01-0069	7-8	Fill	Pentachlorophenol	1.7	U
54-15448	MD54-01-0069	7-8	Fill	Phenanthrene	0.36	U
54-15448	MD54-01-0069	7-8	Fill	Phenol	0.36	U
54-15448	MD54-01-0069	7-8	Fill	Pyrene	0.36	U
54-15448	MD54-01-0069	7-8	Fill	Trichlorobenzene[1,2,4-]	0.36	U
54-15448	MD54-01-0069	7-8	Fill	Dichlorobenzene[1,2-]	0.36	U
54-15448	MD54-01-0069	7-8	Fill	Dichlorobenzene[1,3-]	0.36	U
54-15448	MD54-01-0069	7-8	Fill	Dichlorobenzene[1,4-]	0.36	U
54-15448	MD54-01-0069	7-8	Fill	Oxybis(1-chloropropane)[2,2'-]	0.36	U
54-15448	MD54-01-0069	7-8	Fill	Trichlorophenol[2,4,5-]	0.36	U
54-15448	MD54-01-0069	7-8	Fill	Trichlorophenol[2,4,6-]	0.36	U
54-15448	MD54-01-0069	7-8	Fill	Dichlorophenol[2,4-]	0.36	U
54-15448	MD54-01-0069	7-8	Fill	Dimethylphenol[2,4-]	0.36	U
54-15448	MD54-01-0069	7-8	Fill	Dinitrophenol[2,4-]	1.7	U
54-15448	MD54-01-0069	7-8	Fill	Dinitrotoluene[2,4-]	0.36	U
54-15448	MD54-01-0069	7-8	Fill	Dinitrotoluene[2,6-]	0.36	U
54-15448	MD54-01-0069	7-8	Fill	Chloronaphthalene[2-]	0.36	U
54-15448	MD54-01-0069	7-8	Fill	Azobenzene	0.36	U
54-15448	MD54-01-0069	7-8	Fill	Benzo(a)anthracene	0.36	U
54-15448	MD54-01-0069	7-8	Fill	Benzo(a)pyrene	0.36	U
54-15448	MD54-01-0069	7-8	Fill	Benzo(b)fluoranthene	0.36	U
54-15448	MD54-01-0069	7-8	Fill	Benzo(g,h,i)perylene	0.36	U
54-15448	MD54-01-0069	7-8	Fill	Benzo(k)fluoranthene	0.36	U
54-15448	MD54-01-0069	7-8	Fill	Benzoic acid	1.7	U
54-15448	MD54-01-0069	7-8	Fill	Benzyl alcohol	0.36	U
54-15448	MD54-01-0069	7-8	Fill	Bis(2-chloroethoxy)methane	0.36	U
54-15448	MD54-01-0069	7-8	Fill	Chlorophenol[2-]	0.36	U
54-15448	MD54-01-0069	7-8	Fill	Methylnaphthalene[2-]	0.36	U
54-15448	MD54-01-0069	7-8	Fill	Methylphenol[2-]	0.36	U

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15448	MD54-01-0069	7–8	Fill	Nitroaniline[2-]	1.7	U
54-15448	MD54-01-0069	7–8	Fill	Nitrophenol[2-]	0.36	U
54-15448	MD54-01-0069	7–8	Fill	Dichlorobenzidine[3,3'-]	1.7	U
54-15448	MD54-01-0069	7–8	Fill	Nitroaniline[3-]	1.7	U
54-15448	MD54-01-0069	7–8	Fill	Dinitro-2-methylphenol[4,6-]	1.7	U
54-15448	MD54-01-0069	7–8	Fill	Bromophenyl-phenylether[4-]	0.36	U
54-15448	MD54-01-0069	7–8	Fill	Chloro-3-methylphenol[4-]	0.36	U
54-15448	MD54-01-0069	7–8	Fill	Chloroaniline[4-]	0.36	U
54-15448	MD54-01-0069	7–8	Fill	Chlorophenyl-phenyl[4-] ether	0.36	U
54-15448	MD54-01-0069	7–8	Fill	Methylphenol[4-]	0.36	U
54-15448	MD54-01-0069	7–8	Fill	Nitroaniline[4-]	1.7	U
54-15448	MD54-01-0069	7–8	Fill	Nitrophenol[4-]	1.7	U
54-15448	MD54-01-0069	7–8	Fill	Acenaphthene	0.36	U
54-15448	MD54-01-0069	7–8	Fill	Acenaphthylene	0.36	U
54-15448	MD54-01-0069	7–8	Fill	Aniline	0.36	U
54-15448	MD54-01-0069	7–8	Fill	Anthracene	0.36	U
54-15449	MD54-01-0071	7–8	Fill	pH	6.9[b]	None
54-15449	MD54-01-0071	7–8	Fill	Tetrachloroethane[1,1,1,2-]	0.0053	U
54-15449	MD54-01-0071	7–8	Fill	Trichloroethane[1,1,1-]	0.0053	U
54-15449	MD54-01-0071	7–8	Fill	Tetrachloroethane[1,1,2,2-]	0.0053	U
54-15449	MD54-01-0071	7–8	Fill	Trichloroethane[1,1,2-]	0.0053	U
54-15449	MD54-01-0071	7–8	Fill	Dichloroethane[1,1-]	0.0053	U
54-15449	MD54-01-0071	7–8	Fill	Dichloroethene[1,1-]	0.0053	U
54-15449	MD54-01-0071	7–8	Fill	Dichloropropene[1,1-]	0.0053	U
54-15449	MD54-01-0071	7–8	Fill	Trichloropropane[1,2,3-]	0.0053	U
54-15449	MD54-01-0071	7–8	Fill	Trimethylbenzene[1,2,4-]	0.0053	U
54-15449	MD54-01-0071	7–8	Fill	Dibromo-3-chloropropane[1,2-]	0.011	U
54-15449	MD54-01-0071	7–8	Fill	Dibromoethane[1,2-]	0.0053	U
54-15449	MD54-01-0071	7–8	Fill	Dichlorobenzene[1,2-]	0.0053	U
54-15449	MD54-01-0071	7–8	Fill	Dichloroethane[1,2-]	0.0053	U
54-15449	MD54-01-0071	7–8	Fill	Dichloroethene[cis/trans-1,2-]	0.0053	U
54-15449	MD54-01-0071	7–8	Fill	Dichloropropane[1,2-]	0.0053	U
54-15449	MD54-01-0071	7–8	Fill	Trimethylbenzene[1,3,5-]	0.0053	U
54-15449	MD54-01-0071	7–8	Fill	Dichlorobenzene[1,3-]	0.0053	U
54-15449	MD54-01-0071	7–8	Fill	Dichloropropane[1,3-]	0.0053	U
54-15449	MD54-01-0071	7–8	Fill	Dichlorobenzene[1,4-]	0.0053	U
54-15449	MD54-01-0071	7–8	Fill	Dichloropropane[2,2-]	0.0053	U
54-15449	MD54-01-0071	7–8	Fill	Butanone[2-]	0.014	J
54-15449	MD54-01-0071	7–8	Fill	Chlorotoluene[2-]	0.0053	U
54-15449	MD54-01-0071	7–8	Fill	Hexanone[2-]	0.021	U
54-15449	MD54-01-0071	7–8	Fill	Chlorotoluene[4-]	0.0053	U
54-15449	MD54-01-0071	7–8	Fill	Isopropyltoluene[4-]	0.0053	U
54-15449	MD54-01-0071	7–8	Fill	Methyl-2-pentanone[4-]	0.0046	J
54-15449	MD54-01-0071	7–8	Fill	Acetone	0.037	None
54-15449	MD54-01-0071	7–8	Fill	Benzene	0.0053	U
54-15449	MD54-01-0071	7–8	Fill	Bromobenzene	0.0053	U

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15449	MD54-01-0071	7-8	Fill	Bromochloromethane	0.0053	U
54-15449	MD54-01-0071	7-8	Fill	Bromodichloromethane	0.0053	U
54-15449	MD54-01-0071	7-8	Fill	Bromoform	0.0053	U
54-15449	MD54-01-0071	7-8	Fill	Bromomethane	0.011	U
54-15449	MD54-01-0071	7-8	Fill	Carbon disulfide	0.0053	U
54-15449	MD54-01-0071	7-8	Fill	Carbon tetrachloride	0.0053	U
54-15449	MD54-01-0071	7-8	Fill	Chlorobenzene	0.0053	U
54-15449	MD54-01-0071	7-8	Fill	Chlorodibromomethane	0.0053	U
54-15449	MD54-01-0071	7-8	Fill	Chloroethane	0.011	U
54-15449	MD54-01-0071	7-8	Fill	Chloroform	0.0053	U
54-15449	MD54-01-0071	7-8	Fill	Chloromethane	0.011	U
54-15449	MD54-01-0071	7-8	Fill	Dichloropropene[cis-1,3-]	0.0053	U
54-15449	MD54-01-0071	7-8	Fill	Dibromomethane	0.0053	U
54-15449	MD54-01-0071	7-8	Fill	Dichlorodifluoromethane	0.011	U
54-15449	MD54-01-0071	7-8	Fill	Ethylbenzene	0.0053	U
54-15449	MD54-01-0071	7-8	Fill	Iodomethane	0.0053	U
54-15449	MD54-01-0071	7-8	Fill	Isopropylbenzene	0.0053	U
54-15449	MD54-01-0071	7-8	Fill	Methylene chloride	0.0053	U
54-15449	MD54-01-0071	7-8	Fill	Butylbenzene[n-]	0.0053	U
54-15449	MD54-01-0071	7-8	Fill	Propylbenzene[1-]	0.0053	U
54-15449	MD54-01-0071	7-8	Fill	Butylbenzene[sec-]	0.0053	U
54-15449	MD54-01-0071	7-8	Fill	Styrene	0.0053	U
54-15449	MD54-01-0071	7-8	Fill	Butylbenzene[tert-]	0.0053	U
54-15449	MD54-01-0071	7-8	Fill	Tetrachloroethene	0.0053	U
54-15449	MD54-01-0071	7-8	Fill	Methylnaphthalene[2-]	0.36	U
54-15449	MD54-01-0071	7-8	Fill	Methylphenol[2-]	0.36	U
54-15449	MD54-01-0071	7-8	Fill	Nitroaniline[2-]	1.7	U
54-15449	MD54-01-0071	7-8	Fill	Nitrophenol[2-]	0.36	U
54-15449	MD54-01-0071	7-8	Fill	Dichlorobenzidine[3,3'-]	1.7	U
54-15449	MD54-01-0071	7-8	Fill	Nitroaniline[3-]	1.7	U
54-15449	MD54-01-0071	7-8	Fill	Dinitro-2-methylphenol[4,6-]	1.7	U
54-15449	MD54-01-0071	7-8	Fill	Bromophenyl-phenylether[4-]	0.36	U
54-15449	MD54-01-0071	7-8	Fill	Chloro-3-methylphenol[4-]	0.36	U
54-15449	MD54-01-0071	7-8	Fill	Chloroaniline[4-]	0.36	U
54-15449	MD54-01-0071	7-8	Fill	Chlorophenyl-phenyl[4-] ether	0.36	U
54-15449	MD54-01-0071	7-8	Fill	Methylphenol[4-]	0.36	U
54-15449	MD54-01-0071	7-8	Fill	Nitroaniline[4-]	1.7	U
54-15449	MD54-01-0071	7-8	Fill	Nitrophenol[4-]	1.7	U
54-15449	MD54-01-0071	7-8	Fill	Acenaphthene	0.36	U
54-15449	MD54-01-0071	7-8	Fill	Acenaphthylene	0.36	U
54-15449	MD54-01-0071	7-8	Fill	Aniline	0.36	U
54-15449	MD54-01-0071	7-8	Fill	Anthracene	0.36	U
54-15449	MD54-01-0071	7-8	Fill	Azobenzene	0.36	U
54-15449	MD54-01-0071	7-8	Fill	Benzo(a)anthracene	0.36	U
54-15449	MD54-01-0071	7-8	Fill	Benzo(a)pyrene	0.36	U
54-15449	MD54-01-0071	7-8	Fill	Benzo(b)fluoranthene	0.36	U

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15449	MD54-01-0071	7–8	Fill	Benzo(g,h,i)perylene	0.36	U
54-15449	MD54-01-0071	7–8	Fill	Benzo(k)fluoranthene	0.36	U
54-15449	MD54-01-0071	7–8	Fill	Benzoic acid	1.7	U
54-15449	MD54-01-0071	7–8	Fill	Benzyl alcohol	0.36	U
54-15449	MD54-01-0071	7–8	Fill	Bis(2-chloroethoxy)methane	0.36	U
54-15449	MD54-01-0071	7–8	Fill	Bis(2-chloroethyl)ether	0.36	U
54-15449	MD54-01-0071	7–8	Fill	Bis(2-ethylhexyl)phthalate	0.36	U
54-15449	MD54-01-0071	7–8	Fill	Butylbenzylphthalate	0.36	U
54-15449	MD54-01-0071	7–8	Fill	Chrysene	0.36	U
54-15449	MD54-01-0071	7–8	Fill	Di-n-butylphthalate	0.36	U
54-15449	MD54-01-0071	7–8	Fill	Di-n-octylphthalate	0.36	U
54-15449	MD54-01-0071	7–8	Fill	Dibenz(a,h)anthracene	0.36	U
54-15449	MD54-01-0071	7–8	Fill	Dibenzofuran	0.36	U
54-15449	MD54-01-0071	7–8	Fill	Diethylphthalate	0.36	U
54-15449	MD54-01-0071	7–8	Fill	Dimethyl phthalate	0.36	U
54-15449	MD54-01-0071	7–8	Fill	Fluoranthene	0.36	U
54-15449	MD54-01-0071	7–8	Fill	Fluorene	0.36	U
54-15449	MD54-01-0071	7–8	Fill	Hexachlorobenzene	0.36	U
54-15449	MD54-01-0071	7–8	Fill	Hexachlorobutadiene	0.36	U
54-15449	MD54-01-0071	7–8	Fill	Hexachlorocyclopentadiene	1.7	U
54-15449	MD54-01-0071	7–8	Fill	Hexachloroethane	0.36	U
54-15449	MD54-01-0071	7–8	Fill	Indeno(1,2,3-cd)pyrene	0.36	U
54-15449	MD54-01-0071	7–8	Fill	Isophorone	0.36	U
54-15449	MD54-01-0071	7–8	Fill	Nitroso-di-n-propylamine[N-]	0.36	U
54-15449	MD54-01-0071	7–8	Fill	Nitrosodimethylamine[N-]	0.36	U
54-15449	MD54-01-0071	7–8	Fill	Nitrosodiphenylamine[N-]	0.36	U
54-15449	MD54-01-0071	7–8	Fill	Naphthalene	0.36	U
54-15449	MD54-01-0071	7–8	Fill	Nitrobenzene	0.36	U
54-15449	MD54-01-0071	7–8	Fill	Pentachlorophenol	1.7	U
54-15449	MD54-01-0071	7–8	Fill	Phenanthrene	0.36	U
54-15449	MD54-01-0071	7–8	Fill	Phenol	0.36	U
54-15449	MD54-01-0071	7–8	Fill	Pyrene	0.36	U
54-15449	MD54-01-0071	7–8	Fill	Toluene	0.0053	U
54-15449	MD54-01-0071	7–8	Fill	Dichloropropene[trans-1,3-]	0.0053	U
54-15449	MD54-01-0071	7–8	Fill	Trichloroethene	0.0053	U
54-15449	MD54-01-0071	7–8	Fill	Trichlorofluoromethane	0.011	U
54-15449	MD54-01-0071	7–8	Fill	Trichlorotrifluoroethane	0.0053	U
54-15449	MD54-01-0071	7–8	Fill	Vinyl chloride	0.011	U
54-15449	MD54-01-0071	7–8	Fill	Xylene (total)	0.0053	U
54-15449	MD54-01-0071	7–8	Fill	Trichlorobenzene[1,2,4-]	0.36	U
54-15449	MD54-01-0071	7–8	Fill	Dichlorobenzene[1,2-]	0.36	U
54-15449	MD54-01-0071	7–8	Fill	Dichlorobenzene[1,3-]	0.36	U
54-15449	MD54-01-0071	7–8	Fill	Dichlorobenzene[1,4-]	0.36	U
54-15449	MD54-01-0071	7–8	Fill	Oxybis(1-chloropropane)[2,2'-]	0.36	U
54-15449	MD54-01-0071	7–8	Fill	Trichlorophenol[2,4,5-]	0.36	U
54-15449	MD54-01-0071	7–8	Fill	Trichlorophenol[2,4,6-]	0.36	U

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15449	MD54-01-0071	7-8	Fill	Dichlorophenol[2,4-]	0.36	U
54-15449	MD54-01-0071	7-8	Fill	Dimethylphenol[2,4-]	0.36	U
54-15449	MD54-01-0071	7-8	Fill	Dinitrophenol[2,4-]	1.7	U
54-15449	MD54-01-0071	7-8	Fill	Dinitrotoluene[2,4-]	0.36	U
54-15449	MD54-01-0071	7-8	Fill	Dinitrotoluene[2,6-]	0.36	U
54-15449	MD54-01-0071	7-8	Fill	Chloronaphthalene[2-]	0.36	U
54-15449	MD54-01-0071	7-8	Fill	Chlorophenol[2-]	0.36	U
54-15450	MD54-01-0073	7-8	Fill	Tetrachloroethane[1,1,1,2-]	0.0065	U
54-15450	MD54-01-0073	7-8	Fill	Trichloroethane[1,1,1-]	0.0065	U
54-15450	MD54-01-0073	7-8	Fill	Tetrachloroethane[1,1,2,2-]	0.0065	U
54-15450	MD54-01-0073	7-8	Fill	Bromomethane	0.013	U
54-15450	MD54-01-0073	7-8	Fill	Carbon disulfide	0.0065	U
54-15450	MD54-01-0073	7-8	Fill	Carbon tetrachloride	0.0065	U
54-15450	MD54-01-0073	7-8	Fill	Chlorobenzene	0.0065	U
54-15450	MD54-01-0073	7-8	Fill	Chlorodibromomethane	0.0065	U
54-15450	MD54-01-0073	7-8	Fill	Chloroethane	0.013	U
54-15450	MD54-01-0073	7-8	Fill	Chloroform	0.0065	U
54-15450	MD54-01-0073	7-8	Fill	pH	7.06[b]	None
54-15450	MD54-01-0073	7-8	Fill	Dichlorophenol[2,4-]	0.36	U
54-15450	MD54-01-0073	7-8	Fill	Dimethylphenol[2,4-]	0.36	U
54-15450	MD54-01-0073	7-8	Fill	Dinitrophenol[2,4-]	1.7	U
54-15450	MD54-01-0073	7-8	Fill	Dinitrotoluene[2,4-]	0.36	U
54-15450	MD54-01-0073	7-8	Fill	Dinitrotoluene[2,6-]	0.36	U
54-15450	MD54-01-0073	7-8	Fill	Chloronaphthalene[2-]	0.36	U
54-15450	MD54-01-0073	7-8	Fill	Chlorophenol[2-]	0.36	U
54-15450	MD54-01-0073	7-8	Fill	Methylnaphthalene[2-]	0.36	U
54-15450	MD54-01-0073	7-8	Fill	Methylphenol[2-]	0.36	U
54-15450	MD54-01-0073	7-8	Fill	Nitroaniline[2-]	1.7	U
54-15450	MD54-01-0073	7-8	Fill	Nitrophenol[2-]	0.36	U
54-15450	MD54-01-0073	7-8	Fill	Dichlorobenzidine[3,3'-]	1.7	U
54-15450	MD54-01-0073	7-8	Fill	Nitroaniline[3-]	1.7	U
54-15450	MD54-01-0073	7-8	Fill	Dinitro-2-methylphenol[4,6-]	1.7	U
54-15450	MD54-01-0073	7-8	Fill	Bromophenyl-phenylether[4-]	0.36	U
54-15450	MD54-01-0073	7-8	Fill	Chloro-3-methylphenol[4-]	0.36	U
54-15450	MD54-01-0073	7-8	Fill	Chloroaniline[4-]	0.36	U
54-15450	MD54-01-0073	7-8	Fill	Chlorophenyl-phenyl[4-] ether	0.36	U
54-15450	MD54-01-0073	7-8	Fill	Methylphenol[4-]	0.36	U
54-15450	MD54-01-0073	7-8	Fill	Nitroaniline[4-]	1.7	U
54-15450	MD54-01-0073	7-8	Fill	Nitrophenol[4-]	1.7	U
54-15450	MD54-01-0073	7-8	Fill	Acenaphthene	0.36	U
54-15450	MD54-01-0073	7-8	Fill	Acenaphthylene	0.36	U
54-15450	MD54-01-0073	7-8	Fill	Aniline	0.36	U
54-15450	MD54-01-0073	7-8	Fill	Anthracene	0.36	U
54-15450	MD54-01-0073	7-8	Fill	Azobenzene	0.36	U
54-15450	MD54-01-0073	7-8	Fill	Benzo(a)anthracene	0.36	U
54-15450	MD54-01-0073	7-8	Fill	Benzo(a)pyrene	0.36	U

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15450	MD54-01-0073	7-8	Fill	Benzo(b)fluoranthene	0.36	U
54-15450	MD54-01-0073	7-8	Fill	Benzo(g,h,i)perylene	0.36	U
54-15450	MD54-01-0073	7-8	Fill	Benzo(k)fluoranthene	0.36	U
54-15450	MD54-01-0073	7-8	Fill	Benzoic acid	1.7	U
54-15450	MD54-01-0073	7-8	Fill	Benzyl alcohol	0.36	U
54-15450	MD54-01-0073	7-8	Fill	Chrysene	0.36	U
54-15450	MD54-01-0073	7-8	Fill	Di-n-butylphthalate	0.36	U
54-15450	MD54-01-0073	7-8	Fill	Di-n-octylphthalate	0.36	U
54-15450	MD54-01-0073	7-8	Fill	Dibenz(a,h)anthracene	0.36	U
54-15450	MD54-01-0073	7-8	Fill	Dibenzofuran	0.36	U
54-15450	MD54-01-0073	7-8	Fill	Bis(2-chloroethoxy)methane	0.36	U
54-15450	MD54-01-0073	7-8	Fill	Bis(2-chloroethyl)ether	0.36	U
54-15450	MD54-01-0073	7-8	Fill	Bis(2-ethylhexyl)phthalate	0.36	U
54-15450	MD54-01-0073	7-8	Fill	Butylbenzylphthalate	0.36	U
54-15450	MD54-01-0073	7-8	Fill	Diethylphthalate	0.36	U
54-15450	MD54-01-0073	7-8	Fill	Dimethyl phthalate	0.36	U
54-15450	MD54-01-0073	7-8	Fill	Fluoranthene	0.36	U
54-15450	MD54-01-0073	7-8	Fill	Fluorene	0.36	U
54-15450	MD54-01-0073	7-8	Fill	Hexachlorobenzene	0.36	U
54-15450	MD54-01-0073	7-8	Fill	Hexachlorobutadiene	0.36	U
54-15450	MD54-01-0073	7-8	Fill	Hexachlorocyclopentadiene	1.7	U
54-15450	MD54-01-0073	7-8	Fill	Hexachloroethane	0.36	U
54-15450	MD54-01-0073	7-8	Fill	Indeno(1,2,3-cd)pyrene	0.36	U
54-15450	MD54-01-0073	7-8	Fill	Isophorone	0.36	U
54-15450	MD54-01-0073	7-8	Fill	Nitroso-di-n-propylamine[N-]	0.36	U
54-15450	MD54-01-0073	7-8	Fill	Nitrosodimethylamine[N-]	0.36	U
54-15450	MD54-01-0073	7-8	Fill	Nitrosodiphenylamine[N-]	0.36	U
54-15450	MD54-01-0073	7-8	Fill	Naphthalene	0.36	U
54-15450	MD54-01-0073	7-8	Fill	Nitrobenzene	0.36	U
54-15450	MD54-01-0073	7-8	Fill	Pentachlorophenol	1.7	U
54-15450	MD54-01-0073	7-8	Fill	Phenanthrene	0.36	U
54-15450	MD54-01-0073	7-8	Fill	Phenol	0.36	U
54-15450	MD54-01-0073	7-8	Fill	Pyrene	0.36	U
54-15450	MD54-01-0073	7-8	Fill	Trichloroethane[1,1,2-]	0.0065	U
54-15450	MD54-01-0073	7-8	Fill	Dichloroethane[1,1-]	0.0065	U
54-15450	MD54-01-0073	7-8	Fill	Dichloroethene[1,1-]	0.0065	U
54-15450	MD54-01-0073	7-8	Fill	Dichloropropene[1,1-]	0.0065	U
54-15450	MD54-01-0073	7-8	Fill	Trichloropropane[1,2,3-]	0.0065	U
54-15450	MD54-01-0073	7-8	Fill	Trimethylbenzene[1,2,4-]	0.0065	U
54-15450	MD54-01-0073	7-8	Fill	Dibromo-3-chloropropane[1,2-]	0.013	U
54-15450	MD54-01-0073	7-8	Fill	Dibromoethane[1,2-]	0.0065	U
54-15450	MD54-01-0073	7-8	Fill	Dichlorobenzene[1,2-]	0.0065	U
54-15450	MD54-01-0073	7-8	Fill	Dichloroethane[1,2-]	0.0065	U
54-15450	MD54-01-0073	7-8	Fill	Dichloroethene[cis/trans-1,2-]	0.0065	U
54-15450	MD54-01-0073	7-8	Fill	Dichloropropane[1,2-]	0.0065	U
54-15450	MD54-01-0073	7-8	Fill	Trimethylbenzene[1,3,5-]	0.0065	U

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15450	MD54-01-0073	7–8	Fill	Dichlorobenzene[1,3-]	0.0065	U
54-15450	MD54-01-0073	7–8	Fill	Dichloropropane[1,3-]	0.0065	U
54-15450	MD54-01-0073	7–8	Fill	Dichlorobenzene[1,4-]	0.0065	U
54-15450	MD54-01-0073	7–8	Fill	Dichloropropane[2,2-]	0.0065	U
54-15450	MD54-01-0073	7–8	Fill	Butanone[2-]	0.026	U
54-15450	MD54-01-0073	7–8	Fill	Chlorotoluene[2-]	0.0065	U
54-15450	MD54-01-0073	7–8	Fill	Hexanone[2-]	0.026	U
54-15450	MD54-01-0073	7–8	Fill	Chlorotoluene[4-]	0.0065	U
54-15450	MD54-01-0073	7–8	Fill	Isopropyltoluene[4-]	0.0065	U
54-15450	MD54-01-0073	7–8	Fill	Methyl-2-pentanone[4-]	0.026	U
54-15450	MD54-01-0073	7–8	Fill	Acetone	0.03	None
54-15450	MD54-01-0073	7–8	Fill	Benzene	0.0065	U
54-15450	MD54-01-0073	7–8	Fill	Bromobenzene	0.0065	U
54-15450	MD54-01-0073	7–8	Fill	Bromochloromethane	0.0065	U
54-15450	MD54-01-0073	7–8	Fill	Bromodichloromethane	0.0065	U
54-15450	MD54-01-0073	7–8	Fill	Bromoform	0.0065	U
54-15450	MD54-01-0073	7–8	Fill	Chloromethane	0.013	U
54-15450	MD54-01-0073	7–8	Fill	Dichloropropene[cis-1,3-]	0.0065	U
54-15450	MD54-01-0073	7–8	Fill	Dibromomethane	0.0065	U
54-15450	MD54-01-0073	7–8	Fill	Dichlorodifluoromethane	0.013	U
54-15450	MD54-01-0073	7–8	Fill	Ethylbenzene	0.0065	U
54-15450	MD54-01-0073	7–8	Fill	Iodomethane	0.0065	U
54-15450	MD54-01-0073	7–8	Fill	Isopropylbenzene	0.0065	U
54-15450	MD54-01-0073	7–8	Fill	Methylene chloride	0.0065	U
54-15450	MD54-01-0073	7–8	Fill	Butylbenzene[n-]	0.0065	U
54-15450	MD54-01-0073	7–8	Fill	Propylbenzene[1-]	0.0065	U
54-15450	MD54-01-0073	7–8	Fill	Butylbenzene[sec-]	0.0065	U
54-15450	MD54-01-0073	7–8	Fill	Styrene	0.0065	U
54-15450	MD54-01-0073	7–8	Fill	Butylbenzene[tert-]	0.0065	U
54-15450	MD54-01-0073	7–8	Fill	Tetrachloroethene	0.0065	U
54-15450	MD54-01-0073	7–8	Fill	Toluene	0.0065	U
54-15450	MD54-01-0073	7–8	Fill	Dichloropropene[trans-1,3-]	0.0065	U
54-15450	MD54-01-0073	7–8	Fill	Trichloroethene	0.0065	U
54-15450	MD54-01-0073	7–8	Fill	Trichlorofluoromethane	0.013	U
54-15450	MD54-01-0073	7–8	Fill	Trichlorotrifluoroethane	0.0065	U
54-15450	MD54-01-0073	7–8	Fill	Vinyl chloride	0.013	U
54-15450	MD54-01-0073	7–8	Fill	Xylene (total)	0.0065	U
54-15450	MD54-01-0073	7–8	Fill	Trichlorobenzene[1,2,4-]	0.36	U
54-15450	MD54-01-0073	7–8	Fill	Dichlorobenzene[1,2-]	0.36	U
54-15450	MD54-01-0073	7–8	Fill	Dichlorobenzene[1,3-]	0.36	U
54-15450	MD54-01-0073	7–8	Fill	Dichlorobenzene[1,4-]	0.36	U
54-15450	MD54-01-0073	7–8	Fill	Oxybis(1-chloropropane)[2,2'-]	0.36	U
54-15450	MD54-01-0073	7–8	Fill	Trichlorophenol[2,4,5-]	0.36	U
54-15450	MD54-01-0073	7–8	Fill	Trichlorophenol[2,4,6-]	0.36	U
54-15451	MD54-01-0075	7–8	Fill	pH	6.86[b]	None
54-15451	MD54-01-0075	7–8	Fill	Dinitrophenol[2,4-]	1.7	U

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15451	MD54-01-0075	7-8	Fill	Dinitrotoluene[2,4-]	0.36	U
54-15451	MD54-01-0075	7-8	Fill	Dinitrotoluene[2,6-]	0.36	U
54-15451	MD54-01-0075	7-8	Fill	Tetrachloroethane[1,1,1,2-]	0.0058	U
54-15451	MD54-01-0075	7-8	Fill	Trichloroethane[1,1,1-]	0.0058	U
54-15451	MD54-01-0075	7-8	Fill	Tetrachloroethane[1,1,2,2-]	0.0058	U
54-15451	MD54-01-0075	7-8	Fill	Trichloroethane[1,1,2-]	0.0058	U
54-15451	MD54-01-0075	7-8	Fill	Dichloroethane[1,1-]	0.0058	U
54-15451	MD54-01-0075	7-8	Fill	Dichloroethene[1,1-]	0.0058	U
54-15451	MD54-01-0075	7-8	Fill	Dichloropropene[1,1-]	0.0058	U
54-15451	MD54-01-0075	7-8	Fill	Trichloropropane[1,2,3-]	0.0058	U
54-15451	MD54-01-0075	7-8	Fill	Trimethylbenzene[1,2,4-]	0.0058	U
54-15451	MD54-01-0075	7-8	Fill	Dibromo-3-chloropropane[1,2-]	0.012	U
54-15451	MD54-01-0075	7-8	Fill	Dibromoethane[1,2-]	0.0058	U
54-15451	MD54-01-0075	7-8	Fill	Dichlorobenzene[1,2-]	0.0058	U
54-15451	MD54-01-0075	7-8	Fill	Dichloroethane[1,2-]	0.0058	U
54-15451	MD54-01-0075	7-8	Fill	Dichloroethene[cis/trans-1,2-]	0.0058	U
54-15451	MD54-01-0075	7-8	Fill	Dichloropropane[1,2-]	0.0058	U
54-15451	MD54-01-0075	7-8	Fill	Trimethylbenzene[1,3,5-]	0.0058	U
54-15451	MD54-01-0075	7-8	Fill	Dichlorobenzene[1,3-]	0.0058	U
54-15451	MD54-01-0075	7-8	Fill	Dichloropropane[1,3-]	0.0058	U
54-15451	MD54-01-0075	7-8	Fill	Dichlorobenzene[1,4-]	0.0058	U
54-15451	MD54-01-0075	7-8	Fill	Dichloropropane[2,2-]	0.0058	U
54-15451	MD54-01-0075	7-8	Fill	Butanone[2-]	0.023	U
54-15451	MD54-01-0075	7-8	Fill	Chlorotoluene[2-]	0.0058	U
54-15451	MD54-01-0075	7-8	Fill	Hexanone[2-]	0.023	U
54-15451	MD54-01-0075	7-8	Fill	Chlorotoluene[4-]	0.0058	U
54-15451	MD54-01-0075	7-8	Fill	Isopropyltoluene[4-]	0.0058	U
54-15451	MD54-01-0075	7-8	Fill	Methyl-2-pentanone[4-]	0.023	U
54-15451	MD54-01-0075	7-8	Fill	Acetone	0.018	J
54-15451	MD54-01-0075	7-8	Fill	Benzene	0.0058	U
54-15451	MD54-01-0075	7-8	Fill	Bromobenzene	0.0058	U
54-15451	MD54-01-0075	7-8	Fill	Bromochloromethane	0.0058	U
54-15451	MD54-01-0075	7-8	Fill	Bromodichloromethane	0.0058	U
54-15451	MD54-01-0075	7-8	Fill	Bromoform	0.0058	U
54-15451	MD54-01-0075	7-8	Fill	Bromomethane	0.012	U
54-15451	MD54-01-0075	7-8	Fill	Carbon disulfide	0.0058	U
54-15451	MD54-01-0075	7-8	Fill	Carbon tetrachloride	0.0058	U
54-15451	MD54-01-0075	7-8	Fill	Chlorobenzene	0.0058	U
54-15451	MD54-01-0075	7-8	Fill	Chlorodibromomethane	0.0058	U
54-15451	MD54-01-0075	7-8	Fill	Butylbenzylphthalate	0.36	U
54-15451	MD54-01-0075	7-8	Fill	Chrysene	0.36	U
54-15451	MD54-01-0075	7-8	Fill	Di-n-butylphthalate	0.36	U
54-15451	MD54-01-0075	7-8	Fill	Di-n-octylphthalate	0.36	U
54-15451	MD54-01-0075	7-8	Fill	Dibenz(a,h)anthracene	0.36	U
54-15451	MD54-01-0075	7-8	Fill	Dibenzofuran	0.36	U
54-15451	MD54-01-0075	7-8	Fill	Diethylphthalate	0.36	U

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15451	MD54-01-0075	7-8	FILL	Dimethyl phthalate	0.36	U
54-15451	MD54-01-0075	7-8	FILL	Fluoranthene	0.36	U
54-15451	MD54-01-0075	7-8	FILL	Fluorene	0.36	U
54-15451	MD54-01-0075	7-8	FILL	Hexachlorobenzene	0.36	U
54-15451	MD54-01-0075	7-8	FILL	Hexachlorobutadiene	0.36	U
54-15451	MD54-01-0075	7-8	FILL	Hexachlorocyclopentadiene	1.7	U
54-15451	MD54-01-0075	7-8	FILL	Hexachloroethane	0.36	U
54-15451	MD54-01-0075	7-8	FILL	Indeno(1,2,3-cd)pyrene	0.36	U
54-15451	MD54-01-0075	7-8	FILL	Isophorone	0.36	U
54-15451	MD54-01-0075	7-8	FILL	Nitroso-di-n-propylamine[N-]	0.36	U
54-15451	MD54-01-0075	7-8	FILL	Nitrosodimethylamine[N-]	0.36	U
54-15451	MD54-01-0075	7-8	FILL	Nitrosodiphenylamine[N-]	0.36	U
54-15451	MD54-01-0075	7-8	FILL	Naphthalene	0.36	U
54-15451	MD54-01-0075	7-8	FILL	Nitrobenzene	0.36	U
54-15451	MD54-01-0075	7-8	FILL	Pentachlorophenol	1.7	U
54-15451	MD54-01-0075	7-8	FILL	Phenanthrene	0.36	U
54-15451	MD54-01-0075	7-8	FILL	Phenol	0.36	U
54-15451	MD54-01-0075	7-8	FILL	Pyrene	0.36	U
54-15451	MD54-01-0075	7-8	FILL	Chloronaphthalene[2-]	0.36	U
54-15451	MD54-01-0075	7-8	FILL	Chlorophenol[2-]	0.36	U
54-15451	MD54-01-0075	7-8	FILL	Methylnaphthalene[2-]	0.36	U
54-15451	MD54-01-0075	7-8	FILL	Methylphenol[2-]	0.36	U
54-15451	MD54-01-0075	7-8	FILL	Nitroaniline[2-]	1.7	U
54-15451	MD54-01-0075	7-8	FILL	Nitrophenol[2-]	0.36	U
54-15451	MD54-01-0075	7-8	FILL	Dichlorobenzidine[3,3'-]	1.7	U
54-15451	MD54-01-0075	7-8	FILL	Nitroaniline[3-]	1.7	U
54-15451	MD54-01-0075	7-8	FILL	Dinitro-2-methylphenol[4,6-]	1.7	U
54-15451	MD54-01-0075	7-8	FILL	Bromophenyl-phenylether[4-]	0.36	U
54-15451	MD54-01-0075	7-8	FILL	Chloro-3-methylphenol[4-]	0.36	U
54-15451	MD54-01-0075	7-8	FILL	Chloroaniline[4-]	0.36	U
54-15451	MD54-01-0075	7-8	FILL	Chlorophenyl-phenyl[4-] ether	0.36	U
54-15451	MD54-01-0075	7-8	FILL	Methylphenol[4-]	0.36	U
54-15451	MD54-01-0075	7-8	FILL	Nitroaniline[4-]	1.7	U
54-15451	MD54-01-0075	7-8	FILL	Nitrophenol[4-]	1.7	U
54-15451	MD54-01-0075	7-8	FILL	Acenaphthene	0.36	U
54-15451	MD54-01-0075	7-8	FILL	Acenaphthylene	0.36	U
54-15451	MD54-01-0075	7-8	FILL	Aniline	0.36	U
54-15451	MD54-01-0075	7-8	FILL	Anthracene	0.36	U
54-15451	MD54-01-0075	7-8	FILL	Azobenzene	0.36	U
54-15451	MD54-01-0075	7-8	FILL	Benzo(a)anthracene	0.36	U
54-15451	MD54-01-0075	7-8	FILL	Benzo(a)pyrene	0.36	U
54-15451	MD54-01-0075	7-8	FILL	Benzo(b)fluoranthene	0.36	U
54-15451	MD54-01-0075	7-8	FILL	Benzo(g,h,i)perylene	0.36	U
54-15451	MD54-01-0075	7-8	FILL	Benzo(k)fluoranthene	0.36	U
54-15451	MD54-01-0075	7-8	FILL	Benzoic acid	1.7	U
54-15451	MD54-01-0075	7-8	FILL	Benzyl alcohol	0.36	U

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15451	MD54-01-0075	7-8	Fill	Bis(2-chloroethoxy)methane	0.36	U
54-15451	MD54-01-0075	7-8	Fill	Bis(2-chloroethyl)ether	0.36	U
54-15451	MD54-01-0075	7-8	Fill	Bis(2-ethylhexyl)phthalate	0.36	U
54-15451	MD54-01-0075	7-8	Fill	Trichlorobenzene[1,2,4-]	0.36	U
54-15451	MD54-01-0075	7-8	Fill	Dichlorobenzene[1,2-]	0.36	U
54-15451	MD54-01-0075	7-8	Fill	Dichlorobenzene[1,3-]	0.36	U
54-15451	MD54-01-0075	7-8	Fill	Dichlorobenzene[1,4-]	0.36	U
54-15451	MD54-01-0075	7-8	Fill	Oxybis(1-chloropropane)[2,2'-]	0.36	U
54-15451	MD54-01-0075	7-8	Fill	Trichlorophenol[2,4,5-]	0.36	U
54-15451	MD54-01-0075	7-8	Fill	Trichlorophenol[2,4,6-]	0.36	U
54-15451	MD54-01-0075	7-8	Fill	Dichlorophenol[2,4-]	0.36	U
54-15451	MD54-01-0075	7-8	Fill	Dimethylphenol[2,4-]	0.36	U
54-15451	MD54-01-0075	7-8	Fill	Isopropylbenzene	0.0058	U
54-15451	MD54-01-0075	7-8	Fill	Methylene chloride	0.0058	U
54-15451	MD54-01-0075	7-8	Fill	Butylbenzene[n-]	0.0058	U
54-15451	MD54-01-0075	7-8	Fill	Propylbenzene[1-]	0.0058	U
54-15451	MD54-01-0075	7-8	Fill	Butylbenzene[sec-]	0.0058	U
54-15451	MD54-01-0075	7-8	Fill	Styrene	0.0058	U
54-15451	MD54-01-0075	7-8	Fill	Butylbenzene[tert-]	0.0058	U
54-15451	MD54-01-0075	7-8	Fill	Tetrachloroethene	0.0058	U
54-15451	MD54-01-0075	7-8	Fill	Toluene	0.0058	U
54-15451	MD54-01-0075	7-8	Fill	Dichloropropene[trans-1,3-]	0.0058	U
54-15451	MD54-01-0075	7-8	Fill	Trichloroethene	0.0058	U
54-15451	MD54-01-0075	7-8	Fill	Trichlorofluoromethane	0.012	U
54-15451	MD54-01-0075	7-8	Fill	Trichlorotrifluoroethane	0.0058	U
54-15451	MD54-01-0075	7-8	Fill	Chloroethane	0.012	U
54-15451	MD54-01-0075	7-8	Fill	Chloroform	0.0058	U
54-15451	MD54-01-0075	7-8	Fill	Chloromethane	0.012	U
54-15451	MD54-01-0075	7-8	Fill	Dichloropropene[cis-1,3-]	0.0058	U
54-15451	MD54-01-0075	7-8	Fill	Dibromomethane	0.0058	U
54-15451	MD54-01-0075	7-8	Fill	Dichlorodifluoromethane	0.012	U
54-15451	MD54-01-0075	7-8	Fill	Ethylbenzene	0.0058	U
54-15451	MD54-01-0075	7-8	Fill	Iodomethane	0.0058	U
54-15451	MD54-01-0075	7-8	Fill	Vinyl chloride	0.012	U
54-15451	MD54-01-0075	7-8	Fill	Xylene (total)	0.0058	U
54-15452	MD54-01-0077	7-8	Fill	pH	6.85[b]	None
54-15452	MD54-01-0077	7-8	Fill	Acetone	0.027	None
54-15452	MD54-01-0077	7-8	Fill	Benzene	0.0058	U
54-15452	MD54-01-0077	7-8	Fill	Bromobenzene	0.0058	U
54-15452	MD54-01-0077	7-8	Fill	Bromochloromethane	0.0058	U
54-15452	MD54-01-0077	7-8	Fill	Bromodichloromethane	0.0058	U
54-15452	MD54-01-0077	7-8	Fill	Bromoform	0.0058	U
54-15452	MD54-01-0077	7-8	Fill	Bromomethane	0.0023	J
54-15452	MD54-01-0077	7-8	Fill	Carbon disulfide	0.0058	U
54-15452	MD54-01-0077	7-8	Fill	Carbon tetrachloride	0.0058	U
54-15452	MD54-01-0077	7-8	Fill	Chlorobenzene	0.0058	U

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15452	MD54-01-0077	7–8	Fill	Chlorodibromomethane	0.0058	U
54-15452	MD54-01-0077	7–8	Fill	Chloroethane	0.012	U
54-15452	MD54-01-0077	7–8	Fill	Chloroform	0.0058	U
54-15452	MD54-01-0077	7–8	Fill	Chloromethane	0.012	U
54-15452	MD54-01-0077	7–8	Fill	Dichloropropene[cis-1,3-]	0.0058	U
54-15452	MD54-01-0077	7–8	Fill	Dibromomethane	0.0058	U
54-15452	MD54-01-0077	7–8	Fill	Dichlorodifluoromethane	0.012	U
54-15452	MD54-01-0077	7–8	Fill	Ethylbenzene	0.0058	U
54-15452	MD54-01-0077	7–8	Fill	Iodomethane	0.0058	U
54-15452	MD54-01-0077	7–8	Fill	Isopropylbenzene	0.0058	U
54-15452	MD54-01-0077	7–8	Fill	Methylene chloride	0.0058	U
54-15452	MD54-01-0077	7–8	Fill	Butylbenzene[n-]	0.0058	U
54-15452	MD54-01-0077	7–8	Fill	Propylbenzene[1-]	0.0058	U
54-15452	MD54-01-0077	7–8	Fill	Butylbenzene[sec-]	0.0058	U
54-15452	MD54-01-0077	7–8	Fill	Styrene	0.0058	U
54-15452	MD54-01-0077	7–8	Fill	Butylbenzene[tert-]	0.0058	U
54-15452	MD54-01-0077	7–8	Fill	Tetrachloroethene	0.0058	U
54-15452	MD54-01-0077	7–8	Fill	Toluene	0.0058	U
54-15452	MD54-01-0077	7–8	Fill	Dichloropropene[trans-1,3-]	0.0058	U
54-15452	MD54-01-0077	7–8	Fill	Trichloroethene	0.0058	U
54-15452	MD54-01-0077	7–8	Fill	Trichlorofluoromethane	0.012	U
54-15452	MD54-01-0077	7–8	Fill	Trichlorotrifluoroethane	0.0058	U
54-15452	MD54-01-0077	7–8	Fill	Vinyl chloride	0.012	U
54-15452	MD54-01-0077	7–8	Fill	Xylene (total)	0.0058	U
54-15452	MD54-01-0077	7–8	Fill	Dibenz(a,h)anthracene	0.36	U
54-15452	MD54-01-0077	7–8	Fill	Dibenzofuran	0.36	U
54-15452	MD54-01-0077	7–8	Fill	Diethylphthalate	0.36	U
54-15452	MD54-01-0077	7–8	Fill	Dimethyl phthalate	0.36	U
54-15452	MD54-01-0077	7–8	Fill	Fluoranthene	0.36	U
54-15452	MD54-01-0077	7–8	Fill	Fluorene	0.36	U
54-15452	MD54-01-0077	7–8	Fill	Hexachlorobenzene	0.36	U
54-15452	MD54-01-0077	7–8	Fill	Hexachlorobutadiene	0.36	U
54-15452	MD54-01-0077	7–8	Fill	Hexachlorocyclopentadiene	1.7	U
54-15452	MD54-01-0077	7–8	Fill	Hexachloroethane	0.36	U
54-15452	MD54-01-0077	7–8	Fill	Indeno(1,2,3-cd)pyrene	0.36	U
54-15452	MD54-01-0077	7–8	Fill	Isophorone	0.36	U
54-15452	MD54-01-0077	7–8	Fill	Nitroso-di-n-propylamine[N-]	0.36	U
54-15452	MD54-01-0077	7–8	Fill	Nitrosodimethylamine[N-]	0.36	U
54-15452	MD54-01-0077	7–8	Fill	Nitrosodiphenylamine[N-]	0.36	U
54-15452	MD54-01-0077	7–8	Fill	Naphthalene	0.36	U
54-15452	MD54-01-0077	7–8	Fill	Nitrobenzene	0.36	U
54-15452	MD54-01-0077	7–8	Fill	Pentachlorophenol	1.7	U
54-15452	MD54-01-0077	7–8	Fill	Phenanthrene	0.36	U
54-15452	MD54-01-0077	7–8	Fill	Phenol	0.36	U
54-15452	MD54-01-0077	7–8	Fill	Pyrene	0.36	U
54-15452	MD54-01-0077	7–8	Fill	Trichlorobenzene[1,2,4-]	0.36	U

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15452	MD54-01-0077	7-8	Fill	Dichlorobenzene[1,2-]	0.36	U
54-15452	MD54-01-0077	7-8	Fill	Dichlorobenzene[1,3-]	0.36	U
54-15452	MD54-01-0077	7-8	Fill	Dichlorobenzene[1,4-]	0.36	U
54-15452	MD54-01-0077	7-8	Fill	Oxybis(1-chloropropane)[2,2'-]	0.36	U
54-15452	MD54-01-0077	7-8	Fill	Trichlorophenol[2,4,5-]	0.36	U
54-15452	MD54-01-0077	7-8	Fill	Trichlorophenol[2,4,6-]	0.36	U
54-15452	MD54-01-0077	7-8	Fill	Dichlorophenol[2,4-]	0.36	U
54-15452	MD54-01-0077	7-8	Fill	Dimethylphenol[2,4-]	0.36	U
54-15452	MD54-01-0077	7-8	Fill	Dinitrophenol[2,4-]	1.7	U
54-15452	MD54-01-0077	7-8	Fill	Dinitrotoluene[2,4-]	0.36	U
54-15452	MD54-01-0077	7-8	Fill	Dinitrotoluene[2,6-]	0.36	U
54-15452	MD54-01-0077	7-8	Fill	Chloronaphthalene[2-]	0.36	U
54-15452	MD54-01-0077	7-8	Fill	Chlorophenol[2-]	0.36	U
54-15452	MD54-01-0077	7-8	Fill	Methylnaphthalene[2-]	0.36	U
54-15452	MD54-01-0077	7-8	Fill	Methylphenol[2-]	0.36	U
54-15452	MD54-01-0077	7-8	Fill	Nitroaniline[2-]	1.7	U
54-15452	MD54-01-0077	7-8	Fill	Nitrophenol[2-]	0.36	U
54-15452	MD54-01-0077	7-8	Fill	Dichlorobenzidine[3,3'-]	1.7	U
54-15452	MD54-01-0077	7-8	Fill	Nitroaniline[3-]	1.7	U
54-15452	MD54-01-0077	7-8	Fill	Dinitro-2-methylphenol[4,6-]	1.7	U
54-15452	MD54-01-0077	7-8	Fill	Bromophenyl-phenylether[4-]	0.36	U
54-15452	MD54-01-0077	7-8	Fill	Chloro-3-methylphenol[4-]	0.36	U
54-15452	MD54-01-0077	7-8	Fill	Chloroaniline[4-]	0.36	U
54-15452	MD54-01-0077	7-8	Fill	Chlorophenyl-phenyl[4-] ether	0.36	U
54-15452	MD54-01-0077	7-8	Fill	Methylphenol[4-]	0.36	U
54-15452	MD54-01-0077	7-8	Fill	Nitroaniline[4-]	1.7	U
54-15452	MD54-01-0077	7-8	Fill	Nitrophenol[4-]	1.7	U
54-15452	MD54-01-0077	7-8	Fill	Acenaphthene	0.36	U
54-15452	MD54-01-0077	7-8	Fill	Acenaphthylene	0.36	U
54-15452	MD54-01-0077	7-8	Fill	Aniline	0.36	U
54-15452	MD54-01-0077	7-8	Fill	Anthracene	0.36	U
54-15452	MD54-01-0077	7-8	Fill	Azobenzene	0.36	U
54-15452	MD54-01-0077	7-8	Fill	Benzo(a)anthracene	0.36	U
54-15452	MD54-01-0077	7-8	Fill	Benzo(a)pyrene	0.36	U
54-15452	MD54-01-0077	7-8	Fill	Benzo(b)fluoranthene	0.36	U
54-15452	MD54-01-0077	7-8	Fill	Benzo(g,h,i)perylene	0.36	U
54-15452	MD54-01-0077	7-8	Fill	Benzo(k)fluoranthene	0.36	U
54-15452	MD54-01-0077	7-8	Fill	Benzoic acid	1.7	U
54-15452	MD54-01-0077	7-8	Fill	Benzyl alcohol	0.36	U
54-15452	MD54-01-0077	7-8	Fill	Bis(2-chloroethoxy)methane	0.36	U
54-15452	MD54-01-0077	7-8	Fill	Bis(2-chloroethyl)ether	0.36	U
54-15452	MD54-01-0077	7-8	Fill	Bis(2-ethylhexyl)phthalate	0.36	U
54-15452	MD54-01-0077	7-8	Fill	Butylbenzylphthalate	0.36	U
54-15452	MD54-01-0077	7-8	Fill	Chrysene	0.36	U
54-15452	MD54-01-0077	7-8	Fill	Di-n-butylphthalate	0.36	U
54-15452	MD54-01-0077	7-8	Fill	Di-n-octylphthalate	0.36	U

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15452	MD54-01-0077	7–8	Fill	Dichloroethene[1,1-]	0.0058	U
54-15452	MD54-01-0077	7–8	Fill	Tetrachloroethane[1,1,1,2-]	0.0058	U
54-15452	MD54-01-0077	7–8	Fill	Trichloroethane[1,1,1-]	0.0058	U
54-15452	MD54-01-0077	7–8	Fill	Tetrachloroethane[1,1,2,2-]	0.0058	U
54-15452	MD54-01-0077	7–8	Fill	Trichloroethane[1,1,2-]	0.0058	U
54-15452	MD54-01-0077	7–8	Fill	Dichloroethane[1,1-]	0.0058	U
54-15452	MD54-01-0077	7–8	Fill	Dichloropropene[1,1-]	0.0058	U
54-15452	MD54-01-0077	7–8	Fill	Trichloropropane[1,2,3-]	0.0058	U
54-15452	MD54-01-0077	7–8	Fill	Trimethylbenzene[1,2,4-]	0.0058	U
54-15452	MD54-01-0077	7–8	Fill	Dibromo-3-chloropropane[1,2-]	0.012	U
54-15452	MD54-01-0077	7–8	Fill	Dibromoethane[1,2-]	0.0058	U
54-15452	MD54-01-0077	7–8	Fill	Dichlorobenzene[1,2-]	0.0058	U
54-15452	MD54-01-0077	7–8	Fill	Dichloroethane[1,2-]	0.0058	U
54-15452	MD54-01-0077	7–8	Fill	Dichloroethene[cis/trans-1,2-]	0.0058	U
54-15452	MD54-01-0077	7–8	Fill	Dichloropropane[1,2-]	0.0058	U
54-15452	MD54-01-0077	7–8	Fill	Trimethylbenzene[1,3,5-]	0.0058	U
54-15452	MD54-01-0077	7–8	Fill	Dichlorobenzene[1,3-]	0.0058	U
54-15452	MD54-01-0077	7–8	Fill	Dichloropropane[1,3-]	0.0058	U
54-15452	MD54-01-0077	7–8	Fill	Dichlorobenzene[1,4-]	0.0058	U
54-15452	MD54-01-0077	7–8	Fill	Dichloropropane[2,2-]	0.0058	U
54-15452	MD54-01-0077	7–8	Fill	Butanone[2-]	0.023	U
54-15452	MD54-01-0077	7–8	Fill	Chlorotoluene[2-]	0.0058	U
54-15452	MD54-01-0077	7–8	Fill	Hexanone[2-]	0.023	U
54-15452	MD54-01-0077	7–8	Fill	Chlorotoluene[4-]	0.0058	U
54-15452	MD54-01-0077	7–8	Fill	Isopropyltoluene[4-]	0.0058	U
54-15452	MD54-01-0077	7–8	Fill	Methyl-2-pentanone[4-]	0.023	U
54-15453	MD54-01-0079	7–8	Fill	Isopropyltoluene[4-]	0.0058	U
54-15453	MD54-01-0079	7–8	Fill	Methyl-2-pentanone[4-]	0.023	U
54-15453	MD54-01-0079	7–8	Fill	Acetone	0.035	None
54-15453	MD54-01-0079	7–8	Fill	Benzene	0.0058	U
54-15453	MD54-01-0079	7–8	Fill	Bromobenzene	0.0058	U
54-15453	MD54-01-0079	7–8	Fill	Bromochloromethane	0.0058	U
54-15453	MD54-01-0079	7–8	Fill	Bromodichloromethane	0.0058	U
54-15453	MD54-01-0079	7–8	Fill	Bromoform	0.0058	U
54-15453	MD54-01-0079	7–8	Fill	Bromomethane	0.012	U
54-15453	MD54-01-0079	7–8	Fill	Carbon disulfide	0.0058	U
54-15453	MD54-01-0079	7–8	Fill	Carbon tetrachloride	0.0058	U
54-15453	MD54-01-0079	7–8	Fill	Chlorobenzene	0.0058	U
54-15453	MD54-01-0079	7–8	Fill	Chlorodibromomethane	0.0058	U
54-15453	MD54-01-0079	7–8	Fill	Chloroethane	0.012	U
54-15453	MD54-01-0079	7–8	Fill	Chloroform	0.0058	U
54-15453	MD54-01-0079	7–8	Fill	Chloromethane	0.012	U
54-15453	MD54-01-0079	7–8	Fill	Dichloropropene[cis-1,3-]	0.0058	U
54-15453	MD54-01-0079	7–8	Fill	Dibromomethane	0.0058	U
54-15453	MD54-01-0079	7–8	Fill	Dichlorodifluoromethane	0.012	U
54-15453	MD54-01-0079	7–8	Fill	Ethylbenzene	0.0058	U

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15453	MD54-01-0079	7–8	Fill	Iodomethane	0.0058	U
54-15453	MD54-01-0079	7–8	Fill	Isopropylbenzene	0.0058	U
54-15453	MD54-01-0079	7–8	Fill	Methylene chloride	0.0058	U
54-15453	MD54-01-0079	7–8	Fill	Butylbenzene[n-]	0.0058	U
54-15453	MD54-01-0079	7–8	Fill	Propylbenzene[1-]	0.0058	U
54-15453	MD54-01-0079	7–8	Fill	Butylbenzene[sec-]	0.0058	U
54-15453	MD54-01-0079	7–8	Fill	Styrene	0.0058	U
54-15453	MD54-01-0079	7–8	Fill	Butylbenzene[tert-]	0.0058	U
54-15453	MD54-01-0079	7–8	Fill	Tetrachloroethene	0.0058	U
54-15453	MD54-01-0079	7–8	Fill	Toluene	0.0058	U
54-15453	MD54-01-0079	7–8	Fill	Dichloropropene[trans-1,3-]	0.0058	U
54-15453	MD54-01-0079	7–8	Fill	Trichloroethene	0.0058	U
54-15453	MD54-01-0079	7–8	Fill	Trichlorofluoromethane	0.012	U
54-15453	MD54-01-0079	7–8	Fill	Trichlorotrifluoroethane	0.0058	U
54-15453	MD54-01-0079	7–8	Fill	Vinyl chloride	0.012	U
54-15453	MD54-01-0079	7–8	Fill	Xylene (total)	0.0058	U
54-15453	MD54-01-0079	7–8	Fill	pH	6.94[b]	None
54-15453	MD54-01-0079	7–8	Fill	Nitroaniline[3-]	1.8	U
54-15453	MD54-01-0079	7–8	Fill	Dinitro-2-methylphenol[4,6-]	1.8	U
54-15453	MD54-01-0079	7–8	Fill	Bromophenyl-phenylether[4-]	0.36	U
54-15453	MD54-01-0079	7–8	Fill	Chloro-3-methylphenol[4-]	0.36	U
54-15453	MD54-01-0079	7–8	Fill	Chloroaniline[4-]	0.36	U
54-15453	MD54-01-0079	7–8	Fill	Chlorophenyl-phenyl[4-] ether	0.36	U
54-15453	MD54-01-0079	7–8	Fill	Methylphenol[4-]	0.36	U
54-15453	MD54-01-0079	7–8	Fill	Nitroaniline[4-]	1.8	U
54-15453	MD54-01-0079	7–8	Fill	Nitrophenol[4-]	1.8	U
54-15453	MD54-01-0079	7–8	Fill	Acenaphthene	0.36	U
54-15453	MD54-01-0079	7–8	Fill	Acenaphthylene	0.36	U
54-15453	MD54-01-0079	7–8	Fill	Aniline	0.36	U
54-15453	MD54-01-0079	7–8	Fill	Anthracene	0.36	U
54-15453	MD54-01-0079	7–8	Fill	Azobenzene	0.36	U
54-15453	MD54-01-0079	7–8	Fill	Benzo(a)anthracene	0.36	U
54-15453	MD54-01-0079	7–8	Fill	Benzo(a)pyrene	0.36	U
54-15453	MD54-01-0079	7–8	Fill	Benzo(b)fluoranthene	0.36	U
54-15453	MD54-01-0079	7–8	Fill	Benzo(g,h,i)perylene	0.36	U
54-15453	MD54-01-0079	7–8	Fill	Benzo(k)fluoranthene	0.36	U
54-15453	MD54-01-0079	7–8	Fill	Benzoic acid	1.8	U
54-15453	MD54-01-0079	7–8	Fill	Benzyl alcohol	0.36	U
54-15453	MD54-01-0079	7–8	Fill	Bis(2-chloroethoxy)methane	0.36	U
54-15453	MD54-01-0079	7–8	Fill	Bis(2-chloroethyl)ether	0.36	U
54-15453	MD54-01-0079	7–8	Fill	Bis(2-ethylhexyl)phthalate	0.36	U
54-15453	MD54-01-0079	7–8	Fill	Butylbenzylphthalate	0.36	U
54-15453	MD54-01-0079	7–8	Fill	Chrysene	0.36	U
54-15453	MD54-01-0079	7–8	Fill	Di-n-butylphthalate	0.36	U
54-15453	MD54-01-0079	7–8	Fill	Di-n-octylphthalate	0.36	U
54-15453	MD54-01-0079	7–8	Fill	Dibenz(a,h)anthracene	0.36	U

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15453	MD54-01-0079	7–8	Fill	Dibenzofuran	0.36	U
54-15453	MD54-01-0079	7–8	Fill	Diethylphthalate	0.36	U
54-15453	MD54-01-0079	7–8	Fill	Dimethyl phthalate	0.36	U
54-15453	MD54-01-0079	7–8	Fill	Fluoranthene	0.36	U
54-15453	MD54-01-0079	7–8	Fill	Fluorene	0.36	U
54-15453	MD54-01-0079	7–8	Fill	Hexachlorobenzene	0.36	U
54-15453	MD54-01-0079	7–8	Fill	Hexachlorobutadiene	0.36	U
54-15453	MD54-01-0079	7–8	Fill	Hexachlorocyclopentadiene	1.8	U
54-15453	MD54-01-0079	7–8	Fill	Hexachloroethane	0.36	U
54-15453	MD54-01-0079	7–8	Fill	Indeno(1,2,3-cd)pyrene	0.36	U
54-15453	MD54-01-0079	7–8	Fill	Isophorone	0.36	U
54-15453	MD54-01-0079	7–8	Fill	Nitroso-di-n-propylamine[N-]	0.36	U
54-15453	MD54-01-0079	7–8	Fill	Nitrosodimethylamine[N-]	0.36	U
54-15453	MD54-01-0079	7–8	Fill	Nitrosodiphenylamine[N-]	0.36	U
54-15453	MD54-01-0079	7–8	Fill	Naphthalene	0.36	U
54-15453	MD54-01-0079	7–8	Fill	Nitrobenzene	0.36	U
54-15453	MD54-01-0079	7–8	Fill	Pentachlorophenol	1.8	U
54-15453	MD54-01-0079	7–8	Fill	Phenanthrene	0.36	U
54-15453	MD54-01-0079	7–8	Fill	Phenol	0.36	U
54-15453	MD54-01-0079	7–8	Fill	Pyrene	0.36	U
54-15453	MD54-01-0079	7–8	Fill	Tetrachloroethane[1,1,1,2-]	0.0058	U
54-15453	MD54-01-0079	7–8	Fill	Trichloroethane[1,1,1-]	0.0058	U
54-15453	MD54-01-0079	7–8	Fill	Tetrachloroethane[1,1,2,2-]	0.0058	U
54-15453	MD54-01-0079	7–8	Fill	Trichloroethane[1,1,2-]	0.0058	U
54-15453	MD54-01-0079	7–8	Fill	Dichloroethane[1,1-]	0.0058	U
54-15453	MD54-01-0079	7–8	Fill	Dichloroethene[1,1-]	0.0058	U
54-15453	MD54-01-0079	7–8	Fill	Dichloropropene[1,1-]	0.0058	U
54-15453	MD54-01-0079	7–8	Fill	Trichloropropane[1,2,3-]	0.0058	U
54-15453	MD54-01-0079	7–8	Fill	Trimethylbenzene[1,2,4-]	0.0058	U
54-15453	MD54-01-0079	7–8	Fill	Dibromo-3-chloropropane[1,2-]	0.012	U
54-15453	MD54-01-0079	7–8	Fill	Dibromoethane[1,2-]	0.0058	U
54-15453	MD54-01-0079	7–8	Fill	Dichlorobenzene[1,2-]	0.0058	U
54-15453	MD54-01-0079	7–8	Fill	Dichloroethane[1,2-]	0.0058	U
54-15453	MD54-01-0079	7–8	Fill	Dichloroethene[cis/trans-1,2-]	0.0058	U
54-15453	MD54-01-0079	7–8	Fill	Dichloropropane[1,2-]	0.0058	U
54-15453	MD54-01-0079	7–8	Fill	Trimethylbenzene[1,3,5-]	0.0058	U
54-15453	MD54-01-0079	7–8	Fill	Dichlorobenzene[1,3-]	0.0058	U
54-15453	MD54-01-0079	7–8	Fill	Dichloropropane[1,3-]	0.0058	U
54-15453	MD54-01-0079	7–8	Fill	Dichlorobenzene[1,4-]	0.0058	U
54-15453	MD54-01-0079	7–8	Fill	Dichloropropane[2,2-]	0.0058	U
54-15453	MD54-01-0079	7–8	Fill	Butanone[2-]	0.0091	J
54-15453	MD54-01-0079	7–8	Fill	Chlorotoluene[2-]	0.0058	U
54-15453	MD54-01-0079	7–8	Fill	Hexanone[2-]	0.023	U
54-15453	MD54-01-0079	7–8	Fill	Chlorotoluene[4-]	0.0058	U
54-15453	MD54-01-0079	7–8	Fill	Trichlorobenzene[1,2,4-]	0.36	U
54-15453	MD54-01-0079	7–8	Fill	Dichlorobenzene[1,2-]	0.36	U

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15453	MD54-01-0079	7-8	Fill	Dichlorobenzene[1,3-]	0.36	U
54-15453	MD54-01-0079	7-8	Fill	Dichlorobenzene[1,4-]	0.36	U
54-15453	MD54-01-0079	7-8	Fill	Oxybis(1-chloropropane)[2,2'-]	0.36	U
54-15453	MD54-01-0079	7-8	Fill	Trichlorophenol[2,4,5-]	0.36	U
54-15453	MD54-01-0079	7-8	Fill	Trichlorophenol[2,4,6-]	0.36	U
54-15453	MD54-01-0079	7-8	Fill	Dichlorophenol[2,4-]	0.36	U
54-15453	MD54-01-0079	7-8	Fill	Dimethylphenol[2,4-]	0.36	U
54-15453	MD54-01-0079	7-8	Fill	Dinitrophenol[2,4-]	1.8	U
54-15453	MD54-01-0079	7-8	Fill	Dinitrotoluene[2,4-]	0.36	U
54-15453	MD54-01-0079	7-8	Fill	Dinitrotoluene[2,6-]	0.36	U
54-15453	MD54-01-0079	7-8	Fill	Chloronaphthalene[2-]	0.36	U
54-15453	MD54-01-0079	7-8	Fill	Chlorophenol[2-]	0.36	U
54-15453	MD54-01-0079	7-8	Fill	Methylnaphthalene[2-]	0.36	U
54-15453	MD54-01-0079	7-8	Fill	Methylphenol[2-]	0.36	U
54-15453	MD54-01-0079	7-8	Fill	Nitroaniline[2-]	1.8	U
54-15453	MD54-01-0079	7-8	Fill	Nitrophenol[2-]	0.36	U
54-15453	MD54-01-0079	7-8	Fill	Dichlorobenzidine[3,3'-]	1.8	U
54-15454	MD54-01-0081	7-8	Fill	Tetrachloroethane[1,1,1,2-]	0.0058	U
54-15454	MD54-01-0081	7-8	Fill	Trichloroethane[1,1,1-]	0.0058	U
54-15454	MD54-01-0081	7-8	Fill	Tetrachloroethane[1,1,2,2-]	0.0058	U
54-15454	MD54-01-0081	7-8	Fill	Trichloroethane[1,1,2-]	0.0058	U
54-15454	MD54-01-0081	7-8	Fill	Dichloroethane[1,1-]	0.0058	U
54-15454	MD54-01-0081	7-8	Fill	Dichloroethene[1,1-]	0.0058	U
54-15454	MD54-01-0081	7-8	Fill	Dichloropropene[1,1-]	0.0058	U
54-15454	MD54-01-0081	7-8	Fill	Trichloropropane[1,2,3-]	0.0058	U
54-15454	MD54-01-0081	7-8	Fill	Trimethylbenzene[1,2,4-]	0.0058	U
54-15454	MD54-01-0081	7-8	Fill	Dibromo-3-chloropropane[1,2-]	0.012	U
54-15454	MD54-01-0081	7-8	Fill	Dibromoethane[1,2-]	0.0058	U
54-15454	MD54-01-0081	7-8	Fill	Dichlorobenzene[1,2-]	0.0058	U
54-15454	MD54-01-0081	7-8	Fill	Dichloroethane[1,2-]	0.0058	U
54-15454	MD54-01-0081	7-8	Fill	Dichloroethene[cis/trans-1,2-]	0.0058	U
54-15454	MD54-01-0081	7-8	Fill	Dichloropropane[1,2-]	0.0058	U
54-15454	MD54-01-0081	7-8	Fill	Trimethylbenzene[1,3,5-]	0.0058	U
54-15454	MD54-01-0081	7-8	Fill	Dichlorobenzene[1,3-]	0.0058	U
54-15454	MD54-01-0081	7-8	Fill	Dichloropropane[1,3-]	0.0058	U
54-15454	MD54-01-0081	7-8	Fill	Dichlorobenzene[1,4-]	0.0058	U
54-15454	MD54-01-0081	7-8	Fill	Dichloropropane[2,2-]	0.0058	U
54-15454	MD54-01-0081	7-8	Fill	Butanone[2-]	0.0073	J
54-15454	MD54-01-0081	7-8	Fill	Chlorotoluene[2-]	0.0058	U
54-15454	MD54-01-0081	7-8	Fill	Hexanone[2-]	0.023	U
54-15454	MD54-01-0081	7-8	Fill	Chlorotoluene[4-]	0.0058	U
54-15454	MD54-01-0081	7-8	Fill	Isopropyltoluene[4-]	0.0058	U
54-15454	MD54-01-0081	7-8	Fill	Methyl-2-pentanone[4-]	0.023	U
54-15454	MD54-01-0081	7-8	Fill	Acetone	0.034	None
54-15454	MD54-01-0081	7-8	Fill	Benzene	0.0058	U
54-15454	MD54-01-0081	7-8	Fill	Bromobenzene	0.0058	U

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15454	MD54-01-0081	7-8	Fill	Bromochloromethane	0.0058	U
54-15454	MD54-01-0081	7-8	Fill	Bromodichloromethane	0.0058	U
54-15454	MD54-01-0081	7-8	Fill	Bromoform	0.0058	U
54-15454	MD54-01-0081	7-8	Fill	Bromomethane	0.012	U
54-15454	MD54-01-0081	7-8	Fill	Carbon disulfide	0.0058	U
54-15454	MD54-01-0081	7-8	Fill	Carbon tetrachloride	0.0058	U
54-15454	MD54-01-0081	7-8	Fill	Chlorobenzene	0.0058	U
54-15454	MD54-01-0081	7-8	Fill	Chlorodibromomethane	0.0058	U
54-15454	MD54-01-0081	7-8	Fill	Chloroethane	0.012	U
54-15454	MD54-01-0081	7-8	Fill	Chloroform	0.0058	U
54-15454	MD54-01-0081	7-8	Fill	Chloromethane	0.012	U
54-15454	MD54-01-0081	7-8	Fill	Dichloropropene[cis-1,3-]	0.0058	U
54-15454	MD54-01-0081	7-8	Fill	Dibromomethane	0.0058	U
54-15454	MD54-01-0081	7-8	Fill	Dichlorodifluoromethane	0.012	U
54-15454	MD54-01-0081	7-8	Fill	Ethylbenzene	0.0058	U
54-15454	MD54-01-0081	7-8	Fill	Iodomethane	0.0058	U
54-15454	MD54-01-0081	7-8	Fill	Isopropylbenzene	0.0058	U
54-15454	MD54-01-0081	7-8	Fill	Methylene chloride	0.0058	U
54-15454	MD54-01-0081	7-8	Fill	Butylbenzene[n-]	0.0058	U
54-15454	MD54-01-0081	7-8	Fill	Propylbenzene[1-]	0.0058	U
54-15454	MD54-01-0081	7-8	Fill	Butylbenzene[sec-]	0.0058	U
54-15454	MD54-01-0081	7-8	Fill	Styrene	0.0058	U
54-15454	MD54-01-0081	7-8	Fill	Butylbenzene[tert-]	0.0058	U
54-15454	MD54-01-0081	7-8	Fill	Tetrachloroethene	0.0058	U
54-15454	MD54-01-0081	7-8	Fill	Toluene	0.0058	U
54-15454	MD54-01-0081	7-8	Fill	Dichloropropene[trans-1,3-]	0.0058	U
54-15454	MD54-01-0081	7-8	Fill	Trichloroethene	0.0058	U
54-15454	MD54-01-0081	7-8	Fill	Trichlorofluoromethane	0.012	U
54-15454	MD54-01-0081	7-8	Fill	Trichlorotrifluoroethane	0.0058	U
54-15454	MD54-01-0081	7-8	Fill	Vinyl chloride	0.012	U
54-15454	MD54-01-0081	7-8	Fill	Xylene (total)	0.0058	U
54-15454	MD54-01-0081	7-8	Fill	pH	7[b]	None
54-15454	MD54-01-0081	7-8	Fill	Trichlorobenzene[1,2,4-]	0.36	U
54-15454	MD54-01-0081	7-8	Fill	Dichlorobenzene[1,2-]	0.36	U
54-15454	MD54-01-0081	7-8	Fill	Dichlorobenzene[1,3-]	0.36	U
54-15454	MD54-01-0081	7-8	Fill	Dichlorobenzene[1,4-]	0.36	U
54-15454	MD54-01-0081	7-8	Fill	Oxybis(1-chloropropane)[2,2'-]	0.36	U
54-15454	MD54-01-0081	7-8	Fill	Trichlorophenol[2,4,5-]	0.36	U
54-15454	MD54-01-0081	7-8	Fill	Trichlorophenol[2,4,6-]	0.36	U
54-15454	MD54-01-0081	7-8	Fill	Dichlorophenol[2,4-]	0.36	U
54-15454	MD54-01-0081	7-8	Fill	Dimethylphenol[2,4-]	0.36	U
54-15454	MD54-01-0081	7-8	Fill	Dinitrophenol[2,4-]	1.8	U
54-15454	MD54-01-0081	7-8	Fill	Dinitrotoluene[2,4-]	0.36	U
54-15454	MD54-01-0081	7-8	Fill	Dinitrotoluene[2,6-]	0.36	U
54-15454	MD54-01-0081	7-8	Fill	Chloronaphthalene[2-]	0.36	U
54-15454	MD54-01-0081	7-8	Fill	Chlorophenol[2-]	0.36	U

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15454	MD54-01-0081	7–8	FILL	Methylnaphthalene[2-]	0.36	U
54-15454	MD54-01-0081	7–8	FILL	Methylphenol[2-]	0.36	U
54-15454	MD54-01-0081	7–8	FILL	Nitroaniline[2-]	1.8	U
54-15454	MD54-01-0081	7–8	FILL	Nitrophenol[2-]	0.36	U
54-15454	MD54-01-0081	7–8	FILL	Dichlorobenzidine[3,3'-]	1.8	U
54-15454	MD54-01-0081	7–8	FILL	Nitroaniline[3-]	1.8	U
54-15454	MD54-01-0081	7–8	FILL	Dinitro-2-methylphenol[4,6-]	1.8	U
54-15454	MD54-01-0081	7–8	FILL	Bromophenyl-phenylether[4-]	0.36	U
54-15454	MD54-01-0081	7–8	FILL	Chloro-3-methylphenol[4-]	0.36	U
54-15454	MD54-01-0081	7–8	FILL	Chloroaniline[4-]	0.36	U
54-15454	MD54-01-0081	7–8	FILL	Chlorophenyl-phenyl[4-] ether	0.36	U
54-15454	MD54-01-0081	7–8	FILL	Methylphenol[4-]	0.36	U
54-15454	MD54-01-0081	7–8	FILL	Nitroaniline[4-]	1.8	U
54-15454	MD54-01-0081	7–8	FILL	Nitrophenol[4-]	1.8	U
54-15454	MD54-01-0081	7–8	FILL	Acenaphthene	0.36	U
54-15454	MD54-01-0081	7–8	FILL	Acenaphthylene	0.36	U
54-15454	MD54-01-0081	7–8	FILL	Aniline	0.36	U
54-15454	MD54-01-0081	7–8	FILL	Anthracene	0.36	U
54-15454	MD54-01-0081	7–8	FILL	Azobenzene	0.36	U
54-15454	MD54-01-0081	7–8	FILL	Benzo(a)anthracene	0.36	U
54-15454	MD54-01-0081	7–8	FILL	Benzo(a)pyrene	0.36	U
54-15454	MD54-01-0081	7–8	FILL	Benzo(b)fluoranthene	0.36	U
54-15454	MD54-01-0081	7–8	FILL	Benzo(g,h,i)perylene	0.36	U
54-15454	MD54-01-0081	7–8	FILL	Benzo(k)fluoranthene	0.36	U
54-15454	MD54-01-0081	7–8	FILL	Benzoic acid	1.8	U
54-15454	MD54-01-0081	7–8	FILL	Benzyl alcohol	0.36	U
54-15454	MD54-01-0081	7–8	FILL	Bis(2-chloroethoxy)methane	0.36	U
54-15454	MD54-01-0081	7–8	FILL	Bis(2-chloroethyl)ether	0.36	U
54-15454	MD54-01-0081	7–8	FILL	Bis(2-ethylhexyl)phthalate	0.36	U
54-15454	MD54-01-0081	7–8	FILL	Butylbenzylphthalate	0.36	U
54-15454	MD54-01-0081	7–8	FILL	Chrysene	0.36	U
54-15454	MD54-01-0081	7–8	FILL	Di-n-butylphthalate	0.36	U
54-15454	MD54-01-0081	7–8	FILL	Di-n-octylphthalate	0.36	U
54-15454	MD54-01-0081	7–8	FILL	Dibenz(a,h)anthracene	0.36	U
54-15454	MD54-01-0081	7–8	FILL	Dibenzofuran	0.36	U
54-15454	MD54-01-0081	7–8	FILL	Diethylphthalate	0.36	U
54-15454	MD54-01-0081	7–8	FILL	Dimethyl phthalate	0.36	U
54-15454	MD54-01-0081	7–8	FILL	Fluoranthene	0.36	U
54-15454	MD54-01-0081	7–8	FILL	Fluorene	0.36	U
54-15454	MD54-01-0081	7–8	FILL	Hexachlorobenzene	0.36	U
54-15454	MD54-01-0081	7–8	FILL	Hexachlorobutadiene	0.36	U
54-15454	MD54-01-0081	7–8	FILL	Hexachlorocyclopentadiene	1.8	U
54-15454	MD54-01-0081	7–8	FILL	Hexachloroethane	0.36	U
54-15454	MD54-01-0081	7–8	FILL	Indeno(1,2,3-cd)pyrene	0.36	U
54-15454	MD54-01-0081	7–8	FILL	Isophorone	0.36	U
54-15454	MD54-01-0081	7–8	FILL	Nitroso-di-n-propylamine[N-]	0.36	U

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15454	MD54-01-0081	7–8	Fill	Nitrosodimethylamine[N-]	0.36	U
54-15454	MD54-01-0081	7–8	Fill	Nitrosodiphenylamine[N-]	0.36	U
54-15454	MD54-01-0081	7–8	Fill	Naphthalene	0.36	U
54-15454	MD54-01-0081	7–8	Fill	Nitrobenzene	0.36	U
54-15454	MD54-01-0081	7–8	Fill	Pentachlorophenol	1.8	U
54-15454	MD54-01-0081	7–8	Fill	Phenanthrene	0.36	U
54-15454	MD54-01-0081	7–8	Fill	Phenol	0.36	U
54-15454	MD54-01-0081	7–8	Fill	Pyrene	0.36	U
54-15455	MD54-01-0083	7–8	Fill	Chlorotoluene[2-]	0.0061	U
54-15455	MD54-01-0083	7–8	Fill	Hexanone[2-]	0.024	U
54-15455	MD54-01-0083	7–8	Fill	Chlorotoluene[4-]	0.0061	U
54-15455	MD54-01-0083	7–8	Fill	Isopropyltoluene[4-]	0.0061	U
54-15455	MD54-01-0083	7–8	Fill	Methyl-2-pentanone[4-]	0.024	U
54-15455	MD54-01-0083	7–8	Fill	Acetone	0.032	J
54-15455	MD54-01-0083	7–8	Fill	Benzene	0.0061	U
54-15455	MD54-01-0083	7–8	Fill	Bromobenzene	0.0061	U
54-15455	MD54-01-0083	7–8	Fill	Bromochloromethane	0.0061	U
54-15455	MD54-01-0083	7–8	Fill	Bromodichloromethane	0.0061	U
54-15455	MD54-01-0083	7–8	Fill	Bromoform	0.0061	U
54-15455	MD54-01-0083	7–8	Fill	Bromomethane	0.012	U
54-15455	MD54-01-0083	7–8	Fill	Carbon disulfide	0.0061	U
54-15455	MD54-01-0083	7–8	Fill	Carbon tetrachloride	0.0061	U
54-15455	MD54-01-0083	7–8	Fill	Chlorobenzene	0.0061	U
54-15455	MD54-01-0083	7–8	Fill	Chlorodibromomethane	0.0061	U
54-15455	MD54-01-0083	7–8	Fill	Chloroethane	0.012	U
54-15455	MD54-01-0083	7–8	Fill	Chloroform	0.0061	U
54-15455	MD54-01-0083	7–8	Fill	Chloromethane	0.012	U
54-15455	MD54-01-0083	7–8	Fill	Dichloropropene[cis-1,3-]	0.0061	U
54-15455	MD54-01-0083	7–8	Fill	Dibromomethane	0.0061	U
54-15455	MD54-01-0083	7–8	Fill	Dichlorodifluoromethane	0.012	U
54-15455	MD54-01-0083	7–8	Fill	Ethylbenzene	0.0061	U
54-15455	MD54-01-0083	7–8	Fill	Iodomethane	0.0061	U
54-15455	MD54-01-0083	7–8	Fill	Isopropylbenzene	0.0061	U
54-15455	MD54-01-0083	7–8	Fill	Methylene chloride	0.0061	U
54-15455	MD54-01-0083	7–8	Fill	Butylbenzene[n-]	0.0061	U
54-15455	MD54-01-0083	7–8	Fill	Propylbenzene[1-]	0.0061	U
54-15455	MD54-01-0083	7–8	Fill	Butylbenzene[sec-]	0.0061	U
54-15455	MD54-01-0083	7–8	Fill	Styrene	0.0061	U
54-15455	MD54-01-0083	7–8	Fill	Butylbenzene[tert-]	0.0061	U
54-15455	MD54-01-0083	7–8	Fill	Tetrachloroethene	0.0061	U
54-15455	MD54-01-0083	7–8	Fill	Toluene	0.0061	U
54-15455	MD54-01-0083	7–8	Fill	Dichloropropene[trans-1,3-]	0.0061	U
54-15455	MD54-01-0083	7–8	Fill	Trichloroethene	0.0061	U
54-15455	MD54-01-0083	7–8	Fill	Trichlorofluoromethane	0.012	U
54-15455	MD54-01-0083	7–8	Fill	Trichlorotrifluoroethane	0.0061	U
54-15455	MD54-01-0083	7–8	Fill	Vinyl chloride	0.012	U

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15455	MD54-01-0083	7–8	Fill	Xylene (total)	0.0061	U
54-15455	MD54-01-0083	7–8	Fill	Tetrachloroethane[1,1,1,2-]	0.0061	U
54-15455	MD54-01-0083	7–8	Fill	Trichloroethane[1,1,1-]	0.0061	U
54-15455	MD54-01-0083	7–8	Fill	Tetrachloroethane[1,1,2,2-]	0.0061	U
54-15455	MD54-01-0083	7–8	Fill	Trichloroethane[1,1,2-]	0.0061	U
54-15455	MD54-01-0083	7–8	Fill	Dichloroethane[1,1-]	0.0061	U
54-15455	MD54-01-0083	7–8	Fill	Dichloroethene[1,1-]	0.0061	U
54-15455	MD54-01-0083	7–8	Fill	Dichloropropene[1,1-]	0.0061	U
54-15455	MD54-01-0083	7–8	Fill	Trichloropropane[1,2,3-]	0.0061	U
54-15455	MD54-01-0083	7–8	Fill	Trimethylbenzene[1,2,4-]	0.0061	U
54-15455	MD54-01-0083	7–8	Fill	Dibromo-3-chloropropane[1,2-]	0.012	U
54-15455	MD54-01-0083	7–8	Fill	pH	7.06[b]	None
54-15455	MD54-01-0083	7–8	Fill	Trichlorobenzene[1,2,4-]	0.36	U
54-15455	MD54-01-0083	7–8	Fill	Dichlorobenzene[1,2-]	0.36	U
54-15455	MD54-01-0083	7–8	Fill	Dichlorobenzene[1,3-]	0.36	U
54-15455	MD54-01-0083	7–8	Fill	Dichlorobenzene[1,4-]	0.36	U
54-15455	MD54-01-0083	7–8	Fill	Oxybis(1-chloropropane)[2,2'-]	0.36	U
54-15455	MD54-01-0083	7–8	Fill	Trichlorophenol[2,4,5-]	0.36	U
54-15455	MD54-01-0083	7–8	Fill	Trichlorophenol[2,4,6-]	0.36	U
54-15455	MD54-01-0083	7–8	Fill	Dichlorophenol[2,4-]	0.36	U
54-15455	MD54-01-0083	7–8	Fill	Dimethylphenol[2,4-]	0.36	U
54-15455	MD54-01-0083	7–8	Fill	Dinitrophenol[2,4-]	1.7	U
54-15455	MD54-01-0083	7–8	Fill	Dinitrotoluene[2,4-]	0.36	U
54-15455	MD54-01-0083	7–8	Fill	Dinitrotoluene[2,6-]	0.36	U
54-15455	MD54-01-0083	7–8	Fill	Chloronaphthalene[2-]	0.36	U
54-15455	MD54-01-0083	7–8	Fill	Chlorophenol[2-]	0.36	U
54-15455	MD54-01-0083	7–8	Fill	Methylnaphthalene[2-]	0.36	U
54-15455	MD54-01-0083	7–8	Fill	Methylphenol[2-]	0.36	U
54-15455	MD54-01-0083	7–8	Fill	Nitroaniline[2-]	1.7	U
54-15455	MD54-01-0083	7–8	Fill	Nitrophenol[2-]	0.36	U
54-15455	MD54-01-0083	7–8	Fill	Dichlorobenzidine[3,3'-]	1.7	U
54-15455	MD54-01-0083	7–8	Fill	Nitroaniline[3-]	1.7	U
54-15455	MD54-01-0083	7–8	Fill	Dinitro-2-methylphenol[4,6-]	1.7	U
54-15455	MD54-01-0083	7–8	Fill	Bromophenyl-phenylether[4-]	0.36	U
54-15455	MD54-01-0083	7–8	Fill	Chloro-3-methylphenol[4-]	0.36	U
54-15455	MD54-01-0083	7–8	Fill	Chloroaniline[4-]	0.36	U
54-15455	MD54-01-0083	7–8	Fill	Chlorophenyl-phenyl[4-] ether	0.36	U
54-15455	MD54-01-0083	7–8	Fill	Methylphenol[4-]	0.36	U
54-15455	MD54-01-0083	7–8	Fill	Nitroaniline[4-]	1.7	U
54-15455	MD54-01-0083	7–8	Fill	Nitrophenol[4-]	1.7	U
54-15455	MD54-01-0083	7–8	Fill	Acenaphthene	0.36	U
54-15455	MD54-01-0083	7–8	Fill	Acenaphthylene	0.36	U
54-15455	MD54-01-0083	7–8	Fill	Aniline	0.36	U
54-15455	MD54-01-0083	7–8	Fill	Anthracene	0.36	U
54-15455	MD54-01-0083	7–8	Fill	Azobenzene	0.36	U
54-15455	MD54-01-0083	7–8	Fill	Benzo(a)anthracene	0.36	U

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15455	MD54-01-0083	7–8	Fill	Benzo(a)pyrene	0.36	U
54-15455	MD54-01-0083	7–8	Fill	Benzo(b)fluoranthene	0.36	U
54-15455	MD54-01-0083	7–8	Fill	Dibromoethane[1,2-]	0.0061	U
54-15455	MD54-01-0083	7–8	Fill	Dichlorobenzene[1,2-]	0.0061	U
54-15455	MD54-01-0083	7–8	Fill	Dichloroethane[1,2-]	0.0061	U
54-15455	MD54-01-0083	7–8	Fill	Dichloroethene[cis/trans-1,2-]	0.0061	U
54-15455	MD54-01-0083	7–8	Fill	Dichloropropane[1,2-]	0.0061	U
54-15455	MD54-01-0083	7–8	Fill	Trimethylbenzene[1,3,5-]	0.0061	U
54-15455	MD54-01-0083	7–8	Fill	Dichlorobenzene[1,3-]	0.0061	U
54-15455	MD54-01-0083	7–8	Fill	Dichloropropane[1,3-]	0.0061	U
54-15455	MD54-01-0083	7–8	Fill	Dichlorobenzene[1,4-]	0.0061	U
54-15455	MD54-01-0083	7–8	Fill	Dichloropropane[2,2-]	0.0061	U
54-15455	MD54-01-0083	7–8	Fill	Butanone[2-]	0.0063	J+
54-15455	MD54-01-0083	7–8	Fill	Butylbenzylphthalate	0.36	U
54-15455	MD54-01-0083	7–8	Fill	Chrysene	0.36	U
54-15455	MD54-01-0083	7–8	Fill	Di-n-butylphthalate	0.36	U
54-15455	MD54-01-0083	7–8	Fill	Dibenzofuran	0.36	U
54-15455	MD54-01-0083	7–8	Fill	Diethylphthalate	0.36	U
54-15455	MD54-01-0083	7–8	Fill	Dimethyl phthalate	0.36	U
54-15455	MD54-01-0083	7–8	Fill	Fluoranthene	0.36	U
54-15455	MD54-01-0083	7–8	Fill	Di-n-octylphthalate	0.36	U
54-15455	MD54-01-0083	7–8	Fill	Dibenz(a,h)anthracene	0.36	U
54-15455	MD54-01-0083	7–8	Fill	Fluorene	0.36	U
54-15455	MD54-01-0083	7–8	Fill	Hexachlorobenzene	0.36	U
54-15455	MD54-01-0083	7–8	Fill	Hexachlorobutadiene	0.36	U
54-15455	MD54-01-0083	7–8	Fill	Hexachlorocyclopentadiene	1.7	U
54-15455	MD54-01-0083	7–8	Fill	Hexachloroethane	0.36	U
54-15455	MD54-01-0083	7–8	Fill	Indeno(1,2,3-cd)pyrene	0.36	U
54-15455	MD54-01-0083	7–8	Fill	Isophorone	0.36	U
54-15455	MD54-01-0083	7–8	Fill	Nitroso-di-n-propylamine[N-]	0.36	U
54-15455	MD54-01-0083	7–8	Fill	Nitrosodimethylamine[N-]	0.36	U
54-15455	MD54-01-0083	7–8	Fill	Nitrosodiphenylamine[N-]	0.36	U
54-15455	MD54-01-0083	7–8	Fill	Naphthalene	0.36	U
54-15455	MD54-01-0083	7–8	Fill	Nitrobenzene	0.36	U
54-15455	MD54-01-0083	7–8	Fill	Pentachlorophenol	1.7	U
54-15455	MD54-01-0083	7–8	Fill	Phenanthrene	0.36	U
54-15455	MD54-01-0083	7–8	Fill	Phenol	0.36	U
54-15455	MD54-01-0083	7–8	Fill	Pyrene	0.36	U
54-15455	MD54-01-0083	7–8	Fill	Benzo(g,h,i)perylene	0.36	U
54-15455	MD54-01-0083	7–8	Fill	Benzo(k)fluoranthene	0.36	U
54-15455	MD54-01-0083	7–8	Fill	Benzoic acid	1.7	U
54-15455	MD54-01-0083	7–8	Fill	Benzyl alcohol	0.36	U
54-15455	MD54-01-0083	7–8	Fill	Bis(2-chloroethoxy)methane	0.36	U
54-15455	MD54-01-0083	7–8	Fill	Bis(2-chloroethyl)ether	0.36	U
54-15455	MD54-01-0083	7–8	Fill	Bis(2-ethylhexyl)phthalate	0.36	U
54-15456	MD54-01-0085	7–8	Fill	pH	7.01[b]	None

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15456	MD54-01-0085	7-8	Fill	Dichlorodifluoromethane	0.01	U
54-15456	MD54-01-0085	7-8	Fill	Ethylbenzene	0.0052	U
54-15456	MD54-01-0085	7-8	Fill	Iodomethane	0.0052	U
54-15456	MD54-01-0085	7-8	Fill	Isopropylbenzene	0.0052	U
54-15456	MD54-01-0085	7-8	Fill	Methylene chloride	0.0052	U
54-15456	MD54-01-0085	7-8	Fill	Butylbenzene[n-]	0.0052	U
54-15456	MD54-01-0085	7-8	Fill	Propylbenzene[1-]	0.0052	U
54-15456	MD54-01-0085	7-8	Fill	Butylbenzene[sec-]	0.0052	U
54-15456	MD54-01-0085	7-8	Fill	Styrene	0.0052	U
54-15456	MD54-01-0085	7-8	Fill	Butylbenzene[tert-]	0.0052	U
54-15456	MD54-01-0085	7-8	Fill	Tetrachloroethene	0.0052	U
54-15456	MD54-01-0085	7-8	Fill	Toluene	0.0052	U
54-15456	MD54-01-0085	7-8	Fill	Dichloropropene[trans-1,3-]	0.0052	U
54-15456	MD54-01-0085	7-8	Fill	Trichloroethene	0.0052	U
54-15456	MD54-01-0085	7-8	Fill	Trichlorofluoromethane	0.01	U
54-15456	MD54-01-0085	7-8	Fill	Trichlorotrifluoroethane	0.0052	U
54-15456	MD54-01-0085	7-8	Fill	Vinyl chloride	0.01	U
54-15456	MD54-01-0085	7-8	Fill	Xylene (total)	0.0052	U
54-15456	MD54-01-0085	7-8	Fill	Methylnaphthalene[2-]	0.36	U
54-15456	MD54-01-0085	7-8	Fill	Methylphenol[2-]	0.36	U
54-15456	MD54-01-0085	7-8	Fill	Nitroaniline[2-]	1.8	U
54-15456	MD54-01-0085	7-8	Fill	Nitrophenol[2-]	0.36	U
54-15456	MD54-01-0085	7-8	Fill	Dichlorobenzidine[3,3'-]	1.8	U
54-15456	MD54-01-0085	7-8	Fill	Nitroaniline[3-]	1.8	U
54-15456	MD54-01-0085	7-8	Fill	Dinitro-2-methylphenol[4,6-]	1.8	U
54-15456	MD54-01-0085	7-8	Fill	Bromophenyl-phenylether[4-]	0.36	U
54-15456	MD54-01-0085	7-8	Fill	Chloro-3-methylphenol[4-]	0.36	U
54-15456	MD54-01-0085	7-8	Fill	Chloroaniline[4-]	0.36	U
54-15456	MD54-01-0085	7-8	Fill	Chlorophenyl-phenyl[4-] ether	0.36	U
54-15456	MD54-01-0085	7-8	Fill	Methylphenol[4-]	0.36	U
54-15456	MD54-01-0085	7-8	Fill	Nitroaniline[4-]	1.8	U
54-15456	MD54-01-0085	7-8	Fill	Nitrophenol[4-]	1.8	U
54-15456	MD54-01-0085	7-8	Fill	Acenaphthene	0.36	U
54-15456	MD54-01-0085	7-8	Fill	Acenaphthylene	0.36	U
54-15456	MD54-01-0085	7-8	Fill	Aniline	0.36	U
54-15456	MD54-01-0085	7-8	Fill	Anthracene	0.36	U
54-15456	MD54-01-0085	7-8	Fill	Azobenzene	0.36	U
54-15456	MD54-01-0085	7-8	Fill	Benzo(a)anthracene	0.36	U
54-15456	MD54-01-0085	7-8	Fill	Benzo(a)pyrene	0.36	U
54-15456	MD54-01-0085	7-8	Fill	Phenol	0.36	U
54-15456	MD54-01-0085	7-8	Fill	Pyrene	0.36	U
54-15456	MD54-01-0085	7-8	Fill	Trichlorobenzene[1,2,4-]	0.36	U
54-15456	MD54-01-0085	7-8	Fill	Dichlorobenzene[1,2-]	0.36	U
54-15456	MD54-01-0085	7-8	Fill	Dichlorobenzene[1,3-]	0.36	U
54-15456	MD54-01-0085	7-8	Fill	Dichlorobenzene[1,4-]	0.36	U
54-15456	MD54-01-0085	7-8	Fill	Oxybis(1-chloropropane)[2,2'-]	0.36	U

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15456	MD54-01-0085	7-8	Fill	Trichlorophenol[2,4,5-]	0.36	U
54-15456	MD54-01-0085	7-8	Fill	Trichlorophenol[2,4,6-]	0.36	U
54-15456	MD54-01-0085	7-8	Fill	Dichlorophenol[2,4-]	0.36	U
54-15456	MD54-01-0085	7-8	Fill	Dimethylphenol[2,4-]	0.36	U
54-15456	MD54-01-0085	7-8	Fill	Dinitrophenol[2,4-]	1.8	U
54-15456	MD54-01-0085	7-8	Fill	Dinitrotoluene[2,4-]	0.36	U
54-15456	MD54-01-0085	7-8	Fill	Dinitrotoluene[2,6-]	0.36	U
54-15456	MD54-01-0085	7-8	Fill	Chloronaphthalene[2-]	0.36	U
54-15456	MD54-01-0085	7-8	Fill	Chlorophenol[2-]	0.36	U
54-15456	MD54-01-0085	7-8	Fill	Benzo(b)fluoranthene	0.36	U
54-15456	MD54-01-0085	7-8	Fill	Benzo(g,h,i)perylene	0.36	U
54-15456	MD54-01-0085	7-8	Fill	Benzo(k)fluoranthene	0.36	U
54-15456	MD54-01-0085	7-8	Fill	Benzoic acid	1.8	U
54-15456	MD54-01-0085	7-8	Fill	Benzyl alcohol	0.36	U
54-15456	MD54-01-0085	7-8	Fill	Bis(2-chloroethoxy)methane	0.36	U
54-15456	MD54-01-0085	7-8	Fill	Bis(2-chloroethyl)ether	0.36	U
54-15456	MD54-01-0085	7-8	Fill	Bis(2-ethylhexyl)phthalate	0.36	U
54-15456	MD54-01-0085	7-8	Fill	Butylbenzylphthalate	0.36	U
54-15456	MD54-01-0085	7-8	Fill	Chrysene	0.36	U
54-15456	MD54-01-0085	7-8	Fill	Di-n-butylphthalate	0.36	U
54-15456	MD54-01-0085	7-8	Fill	Di-n-octylphthalate	0.36	U
54-15456	MD54-01-0085	7-8	Fill	Dibenz(a,h)anthracene	0.36	U
54-15456	MD54-01-0085	7-8	Fill	Dibenzofuran	0.36	U
54-15456	MD54-01-0085	7-8	Fill	Diethylphthalate	0.36	U
54-15456	MD54-01-0085	7-8	Fill	Dimethyl phthalate	0.36	U
54-15456	MD54-01-0085	7-8	Fill	Fluoranthene	0.36	U
54-15456	MD54-01-0085	7-8	Fill	Fluorene	0.36	U
54-15456	MD54-01-0085	7-8	Fill	Hexachlorobenzene	0.36	U
54-15456	MD54-01-0085	7-8	Fill	Hexachlorobutadiene	0.36	U
54-15456	MD54-01-0085	7-8	Fill	Hexachlorocyclopentadiene	1.8	U
54-15456	MD54-01-0085	7-8	Fill	Hexachloroethane	0.36	U
54-15456	MD54-01-0085	7-8	Fill	Indeno(1,2,3-cd)pyrene	0.36	U
54-15456	MD54-01-0085	7-8	Fill	Isophorone	0.36	U
54-15456	MD54-01-0085	7-8	Fill	Nitroso-di-n-propylamine[N-]	0.36	U
54-15456	MD54-01-0085	7-8	Fill	Nitrosodimethylamine[N-]	0.36	U
54-15456	MD54-01-0085	7-8	Fill	Nitrosodiphenylamine[N-]	0.36	U
54-15456	MD54-01-0085	7-8	Fill	Naphthalene	0.36	U
54-15456	MD54-01-0085	7-8	Fill	Nitrobenzene	0.36	U
54-15456	MD54-01-0085	7-8	Fill	Pentachlorophenol	1.8	U
54-15456	MD54-01-0085	7-8	Fill	Phenanthrene	0.36	U
54-15456	MD54-01-0085	7-8	Fill	Tetrachloroethane[1,1,1,2-]	0.0052	U
54-15456	MD54-01-0085	7-8	Fill	Trichloroethane[1,1,1-]	0.0052	U
54-15456	MD54-01-0085	7-8	Fill	Tetrachloroethane[1,1,2,2-]	0.0052	U
54-15456	MD54-01-0085	7-8	Fill	Trichloroethane[1,1,2-]	0.0052	U
54-15456	MD54-01-0085	7-8	Fill	Dichloroethane[1,1-]	0.0052	U
54-15456	MD54-01-0085	7-8	Fill	Dichloroethene[1,1-]	0.0052	U

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15456	MD54-01-0085	7-8	Fill	Dichloropropane[1,1-]	0.0052	U
54-15456	MD54-01-0085	7-8	Fill	Trichloropropane[1,2,3-]	0.0052	U
54-15456	MD54-01-0085	7-8	Fill	Trimethylbenzene[1,2,4-]	0.0052	U
54-15456	MD54-01-0085	7-8	Fill	Dibromo-3-chloropropane[1,2-]	0.01	U
54-15456	MD54-01-0085	7-8	Fill	Dibromoethane[1,2-]	0.0052	U
54-15456	MD54-01-0085	7-8	Fill	Dichlorobenzene[1,2-]	0.0052	U
54-15456	MD54-01-0085	7-8	Fill	Dichloroethane[1,2-]	0.0052	U
54-15456	MD54-01-0085	7-8	Fill	Dichloroethene[cis/trans-1,2-]	0.0052	U
54-15456	MD54-01-0085	7-8	Fill	Dichloropropane[1,2-]	0.0052	U
54-15456	MD54-01-0085	7-8	Fill	Trimethylbenzene[1,3,5-]	0.0052	U
54-15456	MD54-01-0085	7-8	Fill	Dichlorobenzene[1,3-]	0.0052	U
54-15456	MD54-01-0085	7-8	Fill	Bromobenzene	0.0052	U
54-15456	MD54-01-0085	7-8	Fill	Bromochloromethane	0.0052	U
54-15456	MD54-01-0085	7-8	Fill	Bromodichloromethane	0.0052	U
54-15456	MD54-01-0085	7-8	Fill	Bromoform	0.0052	U
54-15456	MD54-01-0085	7-8	Fill	Bromomethane	0.01	U
54-15456	MD54-01-0085	7-8	Fill	Carbon disulfide	0.0052	U
54-15456	MD54-01-0085	7-8	Fill	Carbon tetrachloride	0.0052	U
54-15456	MD54-01-0085	7-8	Fill	Chlorobenzene	0.0052	U
54-15456	MD54-01-0085	7-8	Fill	Chlorodibromomethane	0.0052	U
54-15456	MD54-01-0085	7-8	Fill	Chloroethane	0.01	U
54-15456	MD54-01-0085	7-8	Fill	Chloroform	0.0052	U
54-15456	MD54-01-0085	7-8	Fill	Chloromethane	0.01	U
54-15456	MD54-01-0085	7-8	Fill	Dichloropropene[cis-1,3-]	0.0052	U
54-15456	MD54-01-0085	7-8	Fill	Dibromomethane	0.0052	U
54-15456	MD54-01-0085	7-8	Fill	Dichloropropane[1,3-]	0.0052	U
54-15456	MD54-01-0085	7-8	Fill	Dichlorobenzene[1,4-]	0.0052	U
54-15456	MD54-01-0085	7-8	Fill	Dichloropropane[2,2-]	0.0052	U
54-15456	MD54-01-0085	7-8	Fill	Butanone[2-]	0.0039	J
54-15456	MD54-01-0085	7-8	Fill	Chlorotoluene[2-]	0.0052	U
54-15456	MD54-01-0085	7-8	Fill	Hexanone[2-]	0.021	U
54-15456	MD54-01-0085	7-8	Fill	Chlorotoluene[4-]	0.0052	U
54-15456	MD54-01-0085	7-8	Fill	Isopropyltoluene[4-]	0.0052	U
54-15456	MD54-01-0085	7-8	Fill	Methyl-2-pentanone[4-]	0.021	U
54-15456	MD54-01-0085	7-8	Fill	Acetone	0.015	J
54-15456	MD54-01-0085	7-8	Fill	Benzene	0.0052	U
54-15457	MD54-01-0087	7-8	Fill	pH	6.94[b]	None
54-15457	MD54-01-0087	7-8	Fill	Dichlorodifluoromethane	0.011	U
54-15457	MD54-01-0087	7-8	Fill	Ethylbenzene	0.0054	U
54-15457	MD54-01-0087	7-8	Fill	Iodomethane	0.0054	U
54-15457	MD54-01-0087	7-8	Fill	Isopropylbenzene	0.0054	U
54-15457	MD54-01-0087	7-8	Fill	Methylene chloride	0.0054	U
54-15457	MD54-01-0087	7-8	Fill	Butylbenzene[n-]	0.0054	U
54-15457	MD54-01-0087	7-8	Fill	Propylbenzene[1-]	0.0054	U
54-15457	MD54-01-0087	7-8	Fill	Butylbenzene[sec-]	0.0054	U
54-15457	MD54-01-0087	7-8	Fill	Styrene	0.0054	U

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15457	MD54-01-0087	7–8	Fill	Butylbenzene[tert-]	0.0054	U
54-15457	MD54-01-0087	7–8	Fill	Tetrachloroethene	0.0054	U
54-15457	MD54-01-0087	7–8	Fill	Toluene	0.0054	U
54-15457	MD54-01-0087	7–8	Fill	Dichloropropene[trans-1,3-]	0.0054	U
54-15457	MD54-01-0087	7–8	Fill	Trichloroethene	0.0054	U
54-15457	MD54-01-0087	7–8	Fill	Tetrachloroethane[1,1,1,2-]	0.0054	U
54-15457	MD54-01-0087	7–8	Fill	Trichloroethane[1,1,1-]	0.0054	U
54-15457	MD54-01-0087	7–8	Fill	Tetrachloroethane[1,1,2,2-]	0.0054	U
54-15457	MD54-01-0087	7–8	Fill	Trichloroethane[1,1,2-]	0.0054	U
54-15457	MD54-01-0087	7–8	Fill	Dichloroethane[1,1-]	0.0054	U
54-15457	MD54-01-0087	7–8	Fill	Dichloroethene[1,1-]	0.0054	U
54-15457	MD54-01-0087	7–8	Fill	Dichloropropene[1,1-]	0.0054	U
54-15457	MD54-01-0087	7–8	Fill	Trichloropropane[1,2,3-]	0.0054	U
54-15457	MD54-01-0087	7–8	Fill	Trimethylbenzene[1,2,4-]	0.0054	U
54-15457	MD54-01-0087	7–8	Fill	Dibromo-3-chloropropane[1,2-]	0.011	U
54-15457	MD54-01-0087	7–8	Fill	Dibromoethane[1,2-]	0.0054	U
54-15457	MD54-01-0087	7–8	Fill	Dichlorobenzene[1,2-]	0.0054	U
54-15457	MD54-01-0087	7–8	Fill	Dichloroethane[1,2-]	0.0054	U
54-15457	MD54-01-0087	7–8	Fill	Dichloroethene[cis/trans-1,2-]	0.0054	U
54-15457	MD54-01-0087	7–8	Fill	Dichloropropane[1,2-]	0.0054	U
54-15457	MD54-01-0087	7–8	Fill	Trimethylbenzene[1,3,5-]	0.0054	U
54-15457	MD54-01-0087	7–8	Fill	Dichlorobenzene[1,3-]	0.0054	U
54-15457	MD54-01-0087	7–8	Fill	Dichloropropane[1,3-]	0.0054	U
54-15457	MD54-01-0087	7–8	Fill	Dichlorobenzene[1,4-]	0.0054	U
54-15457	MD54-01-0087	7–8	Fill	Dichloropropane[2,2-]	0.0054	U
54-15457	MD54-01-0087	7–8	Fill	Butanone[2-]	0.021	U
54-15457	MD54-01-0087	7–8	Fill	Chlorotoluene[2-]	0.0054	U
54-15457	MD54-01-0087	7–8	Fill	Hexanone[2-]	0.021	U
54-15457	MD54-01-0087	7–8	Fill	Chlorotoluene[4-]	0.0054	U
54-15457	MD54-01-0087	7–8	Fill	Isopropyltoluene[4-]	0.0054	U
54-15457	MD54-01-0087	7–8	Fill	Methyl-2-pentanone[4-]	0.021	U
54-15457	MD54-01-0087	7–8	Fill	Acetone	0.027	J+
54-15457	MD54-01-0087	7–8	Fill	Benzene	0.0054	U
54-15457	MD54-01-0087	7–8	Fill	Bromobenzene	0.0054	U
54-15457	MD54-01-0087	7–8	Fill	Bromochloromethane	0.0054	U
54-15457	MD54-01-0087	7–8	Fill	Bromodichloromethane	0.0054	U
54-15457	MD54-01-0087	7–8	Fill	Bromoform	0.0054	U
54-15457	MD54-01-0087	7–8	Fill	Bromomethane	0.011	U
54-15457	MD54-01-0087	7–8	Fill	Carbon disulfide	0.0054	U
54-15457	MD54-01-0087	7–8	Fill	Carbon tetrachloride	0.0054	U
54-15457	MD54-01-0087	7–8	Fill	Chlorobenzene	0.0054	U
54-15457	MD54-01-0087	7–8	Fill	Chlorodibromomethane	0.0054	U
54-15457	MD54-01-0087	7–8	Fill	Chloroethane	0.011	U
54-15457	MD54-01-0087	7–8	Fill	Chloroform	0.0054	U
54-15457	MD54-01-0087	7–8	Fill	Chloromethane	0.011	U
54-15457	MD54-01-0087	7–8	Fill	Dichloropropene[cis-1,3-]	0.0054	U

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15457	MD54-01-0087	7-8	Fill	Dibromomethane	0.0054	U
54-15457	MD54-01-0087	7-8	Fill	Trichlorofluoromethane	0.011	U
54-15457	MD54-01-0087	7-8	Fill	Trichlorotrifluoroethane	0.0054	U
54-15457	MD54-01-0087	7-8	Fill	Vinyl chloride	0.011	U
54-15457	MD54-01-0087	7-8	Fill	Xylene (total)	0.0054	U
54-15457	MD54-01-0087	7-8	Fill	Dichlorophenol[2,4-]	0.36	U
54-15457	MD54-01-0087	7-8	Fill	Dimethylphenol[2,4-]	0.36	U
54-15457	MD54-01-0087	7-8	Fill	Dinitrophenol[2,4-]	1.8	U
54-15457	MD54-01-0087	7-8	Fill	Dinitrotoluene[2,4-]	0.36	U
54-15457	MD54-01-0087	7-8	Fill	Dinitrotoluene[2,6-]	0.36	U
54-15457	MD54-01-0087	7-8	Fill	Chloronaphthalene[2-]	0.36	U
54-15457	MD54-01-0087	7-8	Fill	Chlorophenol[2-]	0.36	U
54-15457	MD54-01-0087	7-8	Fill	Methylnaphthalene[2-]	0.36	U
54-15457	MD54-01-0087	7-8	Fill	Methylphenol[2-]	0.36	U
54-15457	MD54-01-0087	7-8	Fill	Nitroaniline[2-]	1.8	U
54-15457	MD54-01-0087	7-8	Fill	Nitrophenol[2-]	0.36	U
54-15457	MD54-01-0087	7-8	Fill	Dichlorobenzidine[3,3'-]	1.8	U
54-15457	MD54-01-0087	7-8	Fill	Nitroaniline[3-]	1.8	U
54-15457	MD54-01-0087	7-8	Fill	Dinitro-2-methylphenol[4,6-]	1.8	U
54-15457	MD54-01-0087	7-8	Fill	Bromophenyl-phenylether[4-]	0.36	U
54-15457	MD54-01-0087	7-8	Fill	Chloro-3-methylphenol[4-]	0.36	U
54-15457	MD54-01-0087	7-8	Fill	Chloroaniline[4-]	0.36	U
54-15457	MD54-01-0087	7-8	Fill	Chlorophenyl-phenyl[4-] ether	0.36	U
54-15457	MD54-01-0087	7-8	Fill	Methylphenol[4-]	0.36	U
54-15457	MD54-01-0087	7-8	Fill	Nitroaniline[4-]	1.8	U
54-15457	MD54-01-0087	7-8	Fill	Nitrophenol[4-]	1.8	U
54-15457	MD54-01-0087	7-8	Fill	Acenaphthene	0.36	U
54-15457	MD54-01-0087	7-8	Fill	Acenaphthylene	0.36	U
54-15457	MD54-01-0087	7-8	Fill	Aniline	0.36	U
54-15457	MD54-01-0087	7-8	Fill	Anthracene	0.36	U
54-15457	MD54-01-0087	7-8	Fill	Azobenzene	0.36	U
54-15457	MD54-01-0087	7-8	Fill	Benzo(a)anthracene	0.36	U
54-15457	MD54-01-0087	7-8	Fill	Benzo(a)pyrene	0.36	U
54-15457	MD54-01-0087	7-8	Fill	Benzo(b)fluoranthene	0.36	U
54-15457	MD54-01-0087	7-8	Fill	Benzo(g,h,i)perylene	0.36	U
54-15457	MD54-01-0087	7-8	Fill	Benzo(k)fluoranthene	0.36	U
54-15457	MD54-01-0087	7-8	Fill	Benzoic acid	1.8	U
54-15457	MD54-01-0087	7-8	Fill	Benzyl alcohol	0.36	U
54-15457	MD54-01-0087	7-8	Fill	Bis(2-chloroethoxy)methane	0.36	U
54-15457	MD54-01-0087	7-8	Fill	Bis(2-chloroethyl)ether	0.36	U
54-15457	MD54-01-0087	7-8	Fill	Bis(2-ethylhexyl)phthalate	0.36	U
54-15457	MD54-01-0087	7-8	Fill	Butylbenzylphthalate	0.36	U
54-15457	MD54-01-0087	7-8	Fill	Chrysene	0.36	U
54-15457	MD54-01-0087	7-8	Fill	Di-n-butylphthalate	0.36	U
54-15457	MD54-01-0087	7-8	Fill	Di-n-octylphthalate	0.36	U
54-15457	MD54-01-0087	7-8	Fill	Dibenz(a,h)anthracene	0.36	U

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15457	MD54-01-0087	7-8	Fill	Dibenzofuran	0.36	U
54-15457	MD54-01-0087	7-8	Fill	Diethylphthalate	0.36	U
54-15457	MD54-01-0087	7-8	Fill	Dimethyl phthalate	0.36	U
54-15457	MD54-01-0087	7-8	Fill	Fluoranthene	0.36	U
54-15457	MD54-01-0087	7-8	Fill	Fluorene	0.36	U
54-15457	MD54-01-0087	7-8	Fill	Hexachlorobenzene	0.36	U
54-15457	MD54-01-0087	7-8	Fill	Hexachlorobutadiene	0.36	U
54-15457	MD54-01-0087	7-8	Fill	Hexachlorocyclopentadiene	1.8	U
54-15457	MD54-01-0087	7-8	Fill	Hexachloroethane	0.36	U
54-15457	MD54-01-0087	7-8	Fill	Indeno(1,2,3-cd)pyrene	0.36	U
54-15457	MD54-01-0087	7-8	Fill	Isophorone	0.36	U
54-15457	MD54-01-0087	7-8	Fill	Nitroso-di-n-propylamine[N-]	0.36	U
54-15457	MD54-01-0087	7-8	Fill	Nitrosodimethylamine[N-]	0.36	U
54-15457	MD54-01-0087	7-8	Fill	Nitrosodiphenylamine[N-]	0.36	U
54-15457	MD54-01-0087	7-8	Fill	Naphthalene	0.36	U
54-15457	MD54-01-0087	7-8	Fill	Nitrobenzene	0.36	U
54-15457	MD54-01-0087	7-8	Fill	Pentachlorophenol	1.8	U
54-15457	MD54-01-0087	7-8	Fill	Phenanthrene	0.36	U
54-15457	MD54-01-0087	7-8	Fill	Phenol	0.36	U
54-15457	MD54-01-0087	7-8	Fill	Pyrene	0.36	U
54-15457	MD54-01-0087	7-8	Fill	Trichlorobenzene[1,2,4-]	0.36	U
54-15457	MD54-01-0087	7-8	Fill	Dichlorobenzene[1,2-]	0.36	U
54-15457	MD54-01-0087	7-8	Fill	Dichlorobenzene[1,3-]	0.36	U
54-15457	MD54-01-0087	7-8	Fill	Dichlorobenzene[1,4-]	0.36	U
54-15457	MD54-01-0087	7-8	Fill	Oxybis(1-chloropropane)[2,2'-]	0.36	U
54-15457	MD54-01-0087	7-8	Fill	Trichlorophenol[2,4,5-]	0.36	U
54-15457	MD54-01-0087	7-8	Fill	Trichlorophenol[2,4,6-]	0.36	U
54-15458	MD54-01-0089	7-8	Fill	pH	7.06[b]	None
54-15458	MD54-01-0089	7-8	Fill	Tetrachloroethane[1,1,1,2-]	0.0054	U
54-15458	MD54-01-0089	7-8	Fill	Trichloroethane[1,1,1-]	0.0054	U
54-15458	MD54-01-0089	7-8	Fill	Tetrachloroethane[1,1,2,2-]	0.0054	U
54-15458	MD54-01-0089	7-8	Fill	Trichloroethane[1,1,2-]	0.0054	U
54-15458	MD54-01-0089	7-8	Fill	Dichloroethane[1,1-]	0.0054	U
54-15458	MD54-01-0089	7-8	Fill	Dichloroethene[1,1-]	0.0054	U
54-15458	MD54-01-0089	7-8	Fill	Dichloropropene[1,1-]	0.0054	U
54-15458	MD54-01-0089	7-8	Fill	Trichloropropane[1,2,3-]	0.0054	U
54-15458	MD54-01-0089	7-8	Fill	Trimethylbenzene[1,2,4-]	0.0054	U
54-15458	MD54-01-0089	7-8	Fill	Dibromo-3-chloropropane[1,2-]	0.011	U
54-15458	MD54-01-0089	7-8	Fill	Dibromoethane[1,2-]	0.0054	U
54-15458	MD54-01-0089	7-8	Fill	Dichlorobenzene[1,2-]	0.0054	U
54-15458	MD54-01-0089	7-8	Fill	Dichloroethane[1,2-]	0.0054	U
54-15458	MD54-01-0089	7-8	Fill	Dichloroethene[cis/trans-1,2-]	0.0054	U
54-15458	MD54-01-0089	7-8	Fill	Dichloropropane[1,2-]	0.0054	U
54-15458	MD54-01-0089	7-8	Fill	Trimethylbenzene[1,3,5-]	0.0054	U
54-15458	MD54-01-0089	7-8	Fill	Dichlorobenzene[1,3-]	0.0054	U
54-15458	MD54-01-0089	7-8	Fill	Dichloropropane[1,3-]	0.0054	U

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15458	MD54-01-0089	7-8	Fill	Dichlorobenzene[1,4-]	0.0054	U
54-15458	MD54-01-0089	7-8	Fill	Dichloropropane[2,2-]	0.0054	U
54-15458	MD54-01-0089	7-8	Fill	Butanone[2-]	0.021	U
54-15458	MD54-01-0089	7-8	Fill	Chlorotoluene[2-]	0.0054	U
54-15458	MD54-01-0089	7-8	Fill	Hexanone[2-]	0.021	U
54-15458	MD54-01-0089	7-8	Fill	Chlorotoluene[4-]	0.0054	U
54-15458	MD54-01-0089	7-8	Fill	Isopropyltoluene[4-]	0.0054	U
54-15458	MD54-01-0089	7-8	Fill	Methyl-2-pentanone[4-]	0.021	U
54-15458	MD54-01-0089	7-8	Fill	Acetone	0.023	None
54-15458	MD54-01-0089	7-8	Fill	Benzene	0.0054	U
54-15458	MD54-01-0089	7-8	Fill	Bromobenzene	0.0054	U
54-15458	MD54-01-0089	7-8	Fill	Bromochloromethane	0.0054	U
54-15458	MD54-01-0089	7-8	Fill	Bromodichloromethane	0.0054	U
54-15458	MD54-01-0089	7-8	Fill	Bromoform	0.0054	U
54-15458	MD54-01-0089	7-8	Fill	Bromomethane	0.011	U
54-15458	MD54-01-0089	7-8	Fill	Carbon disulfide	0.0054	U
54-15458	MD54-01-0089	7-8	Fill	Carbon tetrachloride	0.0054	U
54-15458	MD54-01-0089	7-8	Fill	Chlorobenzene	0.0054	U
54-15458	MD54-01-0089	7-8	Fill	Chlorodibromomethane	0.0054	U
54-15458	MD54-01-0089	7-8	Fill	Chloroethane	0.011	U
54-15458	MD54-01-0089	7-8	Fill	Chloroform	0.0054	U
54-15458	MD54-01-0089	7-8	Fill	Chloromethane	0.011	U
54-15458	MD54-01-0089	7-8	Fill	Dichloropropene[cis-1,3-]	0.0054	U
54-15458	MD54-01-0089	7-8	Fill	Dibromomethane	0.0054	U
54-15458	MD54-01-0089	7-8	Fill	Dichlorodifluoromethane	0.011	U
54-15458	MD54-01-0089	7-8	Fill	Ethylbenzene	0.0054	U
54-15458	MD54-01-0089	7-8	Fill	Iodomethane	0.0054	U
54-15458	MD54-01-0089	7-8	Fill	Isopropylbenzene	0.0054	U
54-15458	MD54-01-0089	7-8	Fill	Methylene chloride	0.0054	U
54-15458	MD54-01-0089	7-8	Fill	Butylbenzene[n-]	0.0054	U
54-15458	MD54-01-0089	7-8	Fill	Propylbenzene[1-]	0.0054	U
54-15458	MD54-01-0089	7-8	Fill	Butylbenzene[sec-]	0.0054	U
54-15458	MD54-01-0089	7-8	Fill	Styrene	0.0054	U
54-15458	MD54-01-0089	7-8	Fill	Butylbenzene[tert-]	0.0054	U
54-15458	MD54-01-0089	7-8	Fill	Tetrachloroethene	0.0054	U
54-15458	MD54-01-0089	7-8	Fill	Toluene	0.0054	U
54-15458	MD54-01-0089	7-8	Fill	Dichloropropene[trans-1,3-]	0.0054	U
54-15458	MD54-01-0089	7-8	Fill	Trichloroethene	0.0054	U
54-15458	MD54-01-0089	7-8	Fill	Trichlorofluoromethane	0.011	U
54-15458	MD54-01-0089	7-8	Fill	Trichlorotrifluoroethane	0.0054	U
54-15458	MD54-01-0089	7-8	Fill	Vinyl chloride	0.011	U
54-15458	MD54-01-0089	7-8	Fill	Xylene (total)	0.0054	U
54-15458	MD54-01-0089	7-8	Fill	Trichlorobenzene[1,2,4-]	0.36	U
54-15458	MD54-01-0089	7-8	Fill	Dichlorobenzene[1,2-]	0.36	U
54-15458	MD54-01-0089	7-8	Fill	Oxybis(1-chloropropane)[2,2'-]	0.36	U
54-15458	MD54-01-0089	7-8	Fill	Dichlorobenzene[1,3-]	0.36	U

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15458	MD54-01-0089	7-8	Fill	Dichlorobenzene[1,4-]	0.36	U
54-15458	MD54-01-0089	7-8	Fill	Trichlorophenol[2,4,5-]	0.36	U
54-15458	MD54-01-0089	7-8	Fill	Trichlorophenol[2,4,6-]	0.36	U
54-15458	MD54-01-0089	7-8	Fill	Dichlorophenol[2,4-]	0.36	U
54-15458	MD54-01-0089	7-8	Fill	Dimethylphenol[2,4-]	0.36	U
54-15458	MD54-01-0089	7-8	Fill	Dinitrophenol[2,4-]	1.7	U
54-15458	MD54-01-0089	7-8	Fill	Dinitrotoluene[2,4-]	0.36	U
54-15458	MD54-01-0089	7-8	Fill	Dinitrotoluene[2,6-]	0.36	U
54-15458	MD54-01-0089	7-8	Fill	Chloronaphthalene[2-]	0.36	U
54-15458	MD54-01-0089	7-8	Fill	Chlorophenol[2-]	0.36	U
54-15458	MD54-01-0089	7-8	Fill	Methylnaphthalene[2-]	0.36	U
54-15458	MD54-01-0089	7-8	Fill	Methylphenol[2-]	0.36	U
54-15458	MD54-01-0089	7-8	Fill	Nitroaniline[2-]	1.7	U
54-15458	MD54-01-0089	7-8	Fill	Nitrophenol[2-]	0.36	U
54-15458	MD54-01-0089	7-8	Fill	Dichlorobenzidine[3,3'-]	1.7	U
54-15458	MD54-01-0089	7-8	Fill	Nitroaniline[3-]	1.7	U
54-15458	MD54-01-0089	7-8	Fill	Dinitro-2-methylphenol[4,6-]	1.7	U
54-15458	MD54-01-0089	7-8	Fill	Bromophenyl-phenylether[4-]	0.36	U
54-15458	MD54-01-0089	7-8	Fill	Chloro-3-methylphenol[4-]	0.36	U
54-15458	MD54-01-0089	7-8	Fill	Chloroaniline[4-]	0.36	U
54-15458	MD54-01-0089	7-8	Fill	Chlorophenyl-phenyl[4-] ether	0.36	U
54-15458	MD54-01-0089	7-8	Fill	Methylphenol[4-]	0.36	U
54-15458	MD54-01-0089	7-8	Fill	Nitroaniline[4-]	1.7	U
54-15458	MD54-01-0089	7-8	Fill	Nitrophenol[4-]	1.7	U
54-15458	MD54-01-0089	7-8	Fill	Acenaphthene	0.36	U
54-15458	MD54-01-0089	7-8	Fill	Acenaphthylene	0.36	U
54-15458	MD54-01-0089	7-8	Fill	Aniline	0.36	U
54-15458	MD54-01-0089	7-8	Fill	Anthracene	0.36	U
54-15458	MD54-01-0089	7-8	Fill	Azobenzene	0.36	U
54-15458	MD54-01-0089	7-8	Fill	Benzo(a)anthracene	0.36	U
54-15458	MD54-01-0089	7-8	Fill	Benzo(a)pyrene	0.36	U
54-15458	MD54-01-0089	7-8	Fill	Benzo(b)fluoranthene	0.36	U
54-15458	MD54-01-0089	7-8	Fill	Benzo(g,h,i)perylene	0.36	U
54-15458	MD54-01-0089	7-8	Fill	Benzo(k)fluoranthene	0.36	U
54-15458	MD54-01-0089	7-8	Fill	Benzoic acid	1.7	U
54-15458	MD54-01-0089	7-8	Fill	Benzyl alcohol	0.36	U
54-15458	MD54-01-0089	7-8	Fill	Bis(2-chloroethoxy)methane	0.36	U
54-15458	MD54-01-0089	7-8	Fill	Bis(2-chloroethyl)ether	0.36	U
54-15458	MD54-01-0089	7-8	Fill	Bis(2-ethylhexyl)phthalate	0.36	U
54-15458	MD54-01-0089	7-8	Fill	Butylbenzylphthalate	0.36	U
54-15458	MD54-01-0089	7-8	Fill	Chrysene	0.36	U
54-15458	MD54-01-0089	7-8	Fill	Di-n-butylphthalate	0.36	U
54-15458	MD54-01-0089	7-8	Fill	Di-n-octylphthalate	0.36	U
54-15458	MD54-01-0089	7-8	Fill	Dibenz(a,h)anthracene	0.36	U
54-15458	MD54-01-0089	7-8	Fill	Dibenzofuran	0.36	U
54-15458	MD54-01-0089	7-8	Fill	Diethylphthalate	0.36	U

Table D-2.0-4 (continued)

Location ID	Sample ID	Depth (ft)	Media Code	Analyte	Result (mg/kg)	Report Qualifier
54-15458	MD54-01-0089	7-8	Fill	Dimethyl phthalate	0.36	U
54-15458	MD54-01-0089	7-8	Fill	Fluoranthene	0.36	U
54-15458	MD54-01-0089	7-8	Fill	Fluorene	0.36	U
54-15458	MD54-01-0089	7-8	Fill	Hexachlorobenzene	0.36	U
54-15458	MD54-01-0089	7-8	Fill	Hexachlorobutadiene	0.36	U
54-15458	MD54-01-0089	7-8	Fill	Hexachlorocyclopentadiene	1.7	U
54-15458	MD54-01-0089	7-8	Fill	Hexachloroethane	0.36	U
54-15458	MD54-01-0089	7-8	Fill	Indeno(1,2,3-cd)pyrene	0.36	U
54-15458	MD54-01-0089	7-8	Fill	Isophorone	0.36	U
54-15458	MD54-01-0089	7-8	Fill	Nitroso-di-n-propylamine[N-]	0.36	U
54-15458	MD54-01-0089	7-8	Fill	Nitrosodimethylamine[N-]	0.36	U
54-15458	MD54-01-0089	7-8	Fill	Nitrosodiphenylamine[N-]	0.36	U
54-15458	MD54-01-0089	7-8	Fill	Naphthalene	0.36	U
54-15458	MD54-01-0089	7-8	Fill	Nitrobenzene	0.36	U
54-15458	MD54-01-0089	7-8	Fill	Pentachlorophenol	1.7	U
54-15458	MD54-01-0089	7-8	Fill	Phenanthrene	0.36	U
54-15458	MD54-01-0089	7-8	Fill	Phenol	0.36	U
54-15458	MD54-01-0089	7-8	Fill	Pyrene	0.36	U

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)

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Appendix E

Statistical Analyses

APPENDIX E STATISTICAL ANALYSES

No statistical analyses were conducted for Potential Release Sites 51-001 and 54-007(d).

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Appendix F

Risk Assessment

APPENDIX F RISK ASSESSMENT

All risk assessment calculations are provided in Sections 2 and 3 of the text. The ecological scoping checklist is included with the voluntary corrective action plan in Appendix H.

ROHS • PATENTS • HSRO

Appendix G

Comparison of Anticipated and Actual Costs

APPENDIX G COMPARISON OF ANTICIPATED AND ACTUAL COSTS

The baseline cost estimate for the voluntary corrective action (VCA) plan, implementation of the VCA, and preparation of the VCA report for Potential Release Sites 51-001 and 54-007 (c, d, e) (4 septic tanks) was $582,342. The estimate at completion cost for this work is $540,000.

Appendix H

VCA Plan for PRSs 51-001 and 54-007(d)

ENVIRONMENTAL RESTORATION PROJECT

environmental restoration project

A Department of Energy
Environmental Cleanup Program

LA-UR-00-3617
August 2000
ER2000-0313

Voluntary Corrective Action Plan for Potential Release Sites 51-001 and 54-007(d)

Los Alamos
NATIONAL LABORATORY
Los Alamos, NM 87545

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EXECUTIVE SUMMARY

This voluntary corrective action (VCA) plan presents an approach for characterizing and remediating two potential release sites (PRSs), 51-001 located within Technical Area (TA) 51 and 54-007(d) located within TA-54 West, at Los Alamos National Laboratory (the Laboratory). The two PRSs addressed in this VCA are two inactive/abandoned septic tank systems that are not listed on the Laboratory's Hazardous Waste Facility Permit. They are grouped into this VCA plan on the basis of similarities in design, construction, use, location, and environmental setting.

The two PRSs addressed in this VCA plan were first investigated in 1995 as part of a Resource Conservation and Recovery Act facility investigation (RFI) of former Operable Unit 1148. However, the nature and extent of potential contamination were not determined, and the data were not assessed or presented in an RFI report. The septic systems are located on a mesa top near the canyon edge, and waste remains in the tanks. It is an Environmental Restoration (ER) Project best management practice (BMP) to properly and consistently manage inactive/abandoned septic systems in accordance with applicable regulatory requirements and thereby mitigate potential environmental issues that may remain if the systems are not addressed, regardless of RFI results. The proposed corrective actions meet the requirements of the accelerated corrective action checklist provided in Appendix B and will result in a final remedy and determination of no further action (NFA) for both PRSs.

The objectives of this VCA are to characterize, remove, and dispose of the waste remaining in each septic tank; collect confirmatory subsurface soil samples at each septic system, if necessary; determine the nature and extent of soil contamination (if present) using the existing and confirmatory data; assess the potential human health and ecological risks to the environment from each septic system; and remediate (by excavation), as necessary, the inactive/abandoned septic systems following Laboratory ER Project BMPs. Based on waste characterization results, the systems will either be closed in place in accordance with 20NMAC7.3, "Abandoned Sewers and On-Site Liquid Waste Management Systems," or if contaminated, the septic tanks will be removed and the drain lines plugged. The area around the drain field and seepage pit will be characterized and remediated, if necessary, to levels protective of humans and/or the ecosystem.

TA-51 is the base of operations for the Experimental Engineering Test Facility (EETF), which supports research to develop effective isolation techniques for the burial of wastes in semiarid climates. The EETF was built in 1980, and support offices for staff were constructed in 1986. PRS 51-001 is the septic system that served the EETF. The septic system was installed in 1988 to provide sanitary sewer service to Buildings TA-51-11, -12, and -26 and was decommissioned in 1993. Building TA-51-11 housed the Environmental Science Laboratory. A greenhouse and laboratory occupied Building TA-51-12; the building was equipped with sinks and lavatories. Building TA-51-26 has housed offices since its construction in 1986.

PRS 54-007(d) is an inactive/abandoned septic system that served buildings TA-54-1001, -1002, -1003, and -1004. The Radiation Exposure Facility conducted research (from 1962 to the mid-1970s) on the exposure of animals to gamma radiation from cobalt-60 sources. The septic system was installed in 1962 and was decommissioned in 1993.

The purpose of this VCA is to characterize and remove the contents of the septic tanks, remove or close the septic tanks in place, collect sufficient soil characterization data to determine if drain lines are to be capped or removed, and determine if the seepage pit and drain field are to be left in place or removed, and implement removal, if necessary. The planned sequence of events is as follows:

- characterize the contents of the septic tank;
- remove the liquids and sludges in the septic tanks;

- perform confirmatory sampling of the drain field and seepage pit;
- remove and dispose of the septic tanks and drain lines or close them in place;
- perform confirmatory sampling of any excavated areas;
- perform a risk assessment to determine if any media exceed preliminary remediation goals (PRGs);
- remove any contaminated soil from the tank excavations, drain lines, drain field, and seepage pit if contamination results in an unacceptable level of risk; and
- restore the site.

VCA sampling data will be compared to the Environmental Protection Agency's Region VI industrial PRGs after extent has been defined; the results will be used to determine whether soil removal will be necessary. If remediation of the soils, drain lines, the seepage pit, or drain field is required, cleanup levels will be derived for the contaminants.

After VCA activities are complete, the site will be restored, and BMPs will be installed as needed. The waste will be disposed of in accordance with applicable regulatory requirements.

Sampling of the septic tanks occurred during July 2000, removal and disposal activities and confirmatory sampling will take place during September 2000, and the VCA report will be published during Fiscal Year 2001. A summary of the VCA is presented in Table ES-1.

Table ES-1
VCA Summary Table

PRS Number	PRS Description	HSWA[a,b]	Radionuclide Component[c]	Proposed Action	Rationale for Recommendation
51-001	Inactive/abandoned septic system	No	Unknown	Septic tank removal or closure in place	NFA
54-007(d)	Inactive/abandoned septic system	No	Unknown	Septic tank removal or closure in place	NFA

[a] HSWA = Hazardous and Solid Waste Amendments of 1984.

[b] Is this site listed in Module VIII of the Laboratory's Hazardous Waste Facility Permit?

[c] Are radionuclides associated with this PRS?

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1.0 INTRODUCTION

This voluntary corrective action (VCA) plan presents an approach for characterizing and remediating two potential release sites (PRSs) in Technical Areas (TAs) 51 and 54 West at Los Alamos National Laboratory (the Laboratory) (Figure 1.0-1). The PRSs addressed in this plan are 51-001 and 54-007(d), both inactive/abandoned septic systems. The similar environmental settings of the sites and use of the septic systems support grouping the PRSs in one VCA plan. These sites are not listed in the Laboratory's Hazardous Waste Facility Permit (EPA 1990, 1585).

It is an Environmental Restoration (ER) Project best management practice (BMP) to properly and consistently manage inactive/abandoned septic systems in accordance with applicable regulatory requirements and thereby to mitigate potential environmental issues that may remain if the systems are not addressed, regardless of Resource Conservation and Recovery Act (RCRA) facility investigation (RFI) results. The ER Project will remove inactive/abandoned septic tank structures if removal is (1) feasible or (2) warranted to mitigate potential environmental issues. Waste does remain in the septic tanks of these PRSs.

The purpose and scope, regulatory history, and rationale for the proposed corrective action are presented in Section 1. Section 2 presents the site description and operational history, previous field investigations, and results of previous investigations for these 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 checklist; Appendix C includes the ER standard operating procedure 2.01, "Surface Water Site Assessments"; Appendix D includes the ecological checklists; and Appendix E includes the estimated costs.

1.1 Purpose and Scope

The objective of this VCA is to complete characterization and remedial actions with respect to the two septic tanks and their associated drain lines, seepage pit, and drain field. To meet this objective, the Laboratory's ER Project will conduct the following activities:

- characterize, remove, and dispose of the waste remaining in each septic tank.
- supplement previous RCRA investigatory data pertinent to each PRS with additional site characterization data, as needed. These data will be used to determine nature and extent of contamination associated with the septic tank, drain line, seepage pit, and drain field operations.
- assess human health and ecological risk, based on nature and extent of contamination from previous and supplemental data collected for each PRS.
- determine the remedial approach for each PRS, based on Environmental Protection Agency (EPA) Region VI industrial preliminary remediation goals (PRGs) and nature and extent of contamination.
- conduct removal activities, as necessary, using cost-effective, environmentally acceptable methods while minimizing waste generation and disruption to facility operations.

1.2 Regulatory History

The regulatory activities of the PRSs subject to this VCA are summarized in Table 1.2-1.

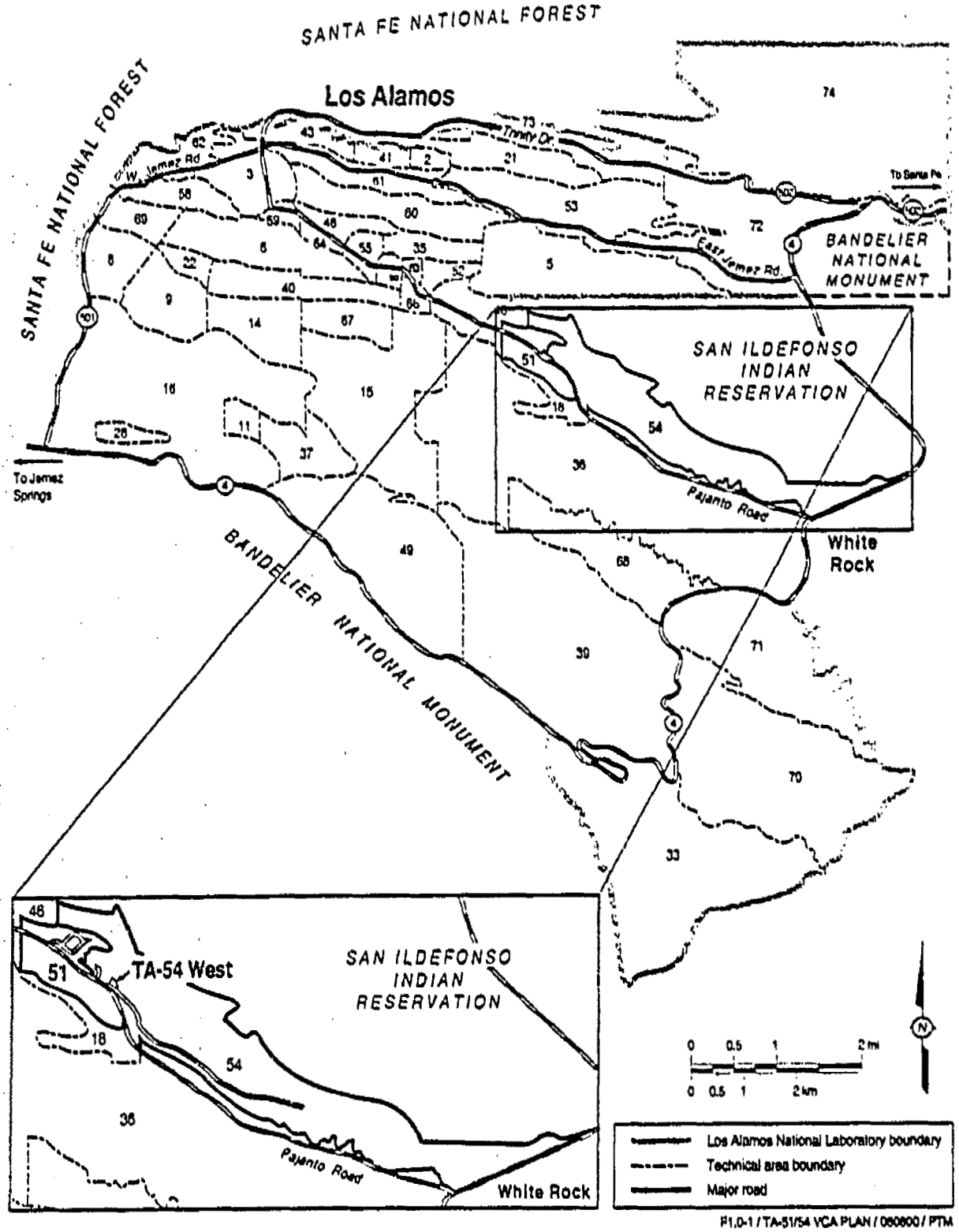


Figure 1.0-1. Locations of TA-51 and TA-54 West within the Laboratory

Table 1.2-1
Regulatory Activity at PRSs 51-001 and 54-007(d)

Date	Activity	Report
October 1987	Identification of PRSs 51-001 and 54-007(d) during the Comprehensive Environmental Assessment and Response Program investigation	"Phase I: Installation Assessment, Los Alamos National Laboratory" (DOE 1987, 8663 and 8664)
May 1992	Submittal of RFI work plan for OU* 1148	"RFI Work Plan for Operable Unit 1148" (LANL 1992, 7669)

*OU = operable unit.

1.3 Rationale for Proposed Corrective Action

The septic systems identified as PRSs 51-001 and 54-007(d) are located on Department of Energy (DOE) property that will remain under institutional control for the foreseeable future. It is an ER Project BMP to properly manage inactive/abandoned septic systems in accordance with applicable regulatory requirements and thereby mitigate potential environmental issues that may remain if the systems are not addressed, regardless of RFI results. The septic systems are located on a mesa top near the canyon edge, and waste remains in the tanks. Therefore, as a final and obvious remedy, the systems will either be closed in place in accordance with 20NMAC7.3, "Abandoned Sewers and On-Site Liquid Waste Management System," or if contaminated, the tanks will be removed and the drain lines plugged. The areas around the seepage pit and drain field will be characterized and remediated, if necessary, to levels protective of humans and the ecosystem.

The corrective actions proposed herein will meet the requirements of the accelerated corrective action checklist provided in Appendix B. The industrial land-use assumption is straightforward, and EPA Region VI industrial PRGs are appropriate. The nature and extent of chemicals of potential concern (COPCs) will be determined during the accelerated site characterization to supplement the 1995 RFI data and will be used to determine risk to human health and ecosystems. Treatment, storage, and disposal facilities are available for each potential waste type, and the cost and implementation time period are reasonable.

2.0 PREVIOUS SITE CHARACTERIZATION

2.1 PRS 51-001

2.1.1 Site Description and Operational History

PRS 51-001 is an inactive/abandoned septic system that served Buildings TA-51-11, -12, and -26 (Figure 2.1-1). Structures included in this PRS include a 1000-gal. concrete septic tank (TA-51-03), drain lines, and a seepage pit (TA-51-31). The seepage pit is 4 ft in diameter and 50 ft deep. The septic tank is connected to the seepage pit by a 4-in.-diameter vitrified clay pipe (VCP) buried in a trench that is 2-ft and 6-in.-deep. The VCP connects to a 4-in.-diameter perforated polyvinyl chloride (PVC) drop pipe that extends to within 2 ft of the bottom of the pit. The pit is backfilled with screened gravel to between 40 ft and 50 ft below ground surface (bgs). Construction details of the seepage pit are illustrated in Figure 2.1-2.

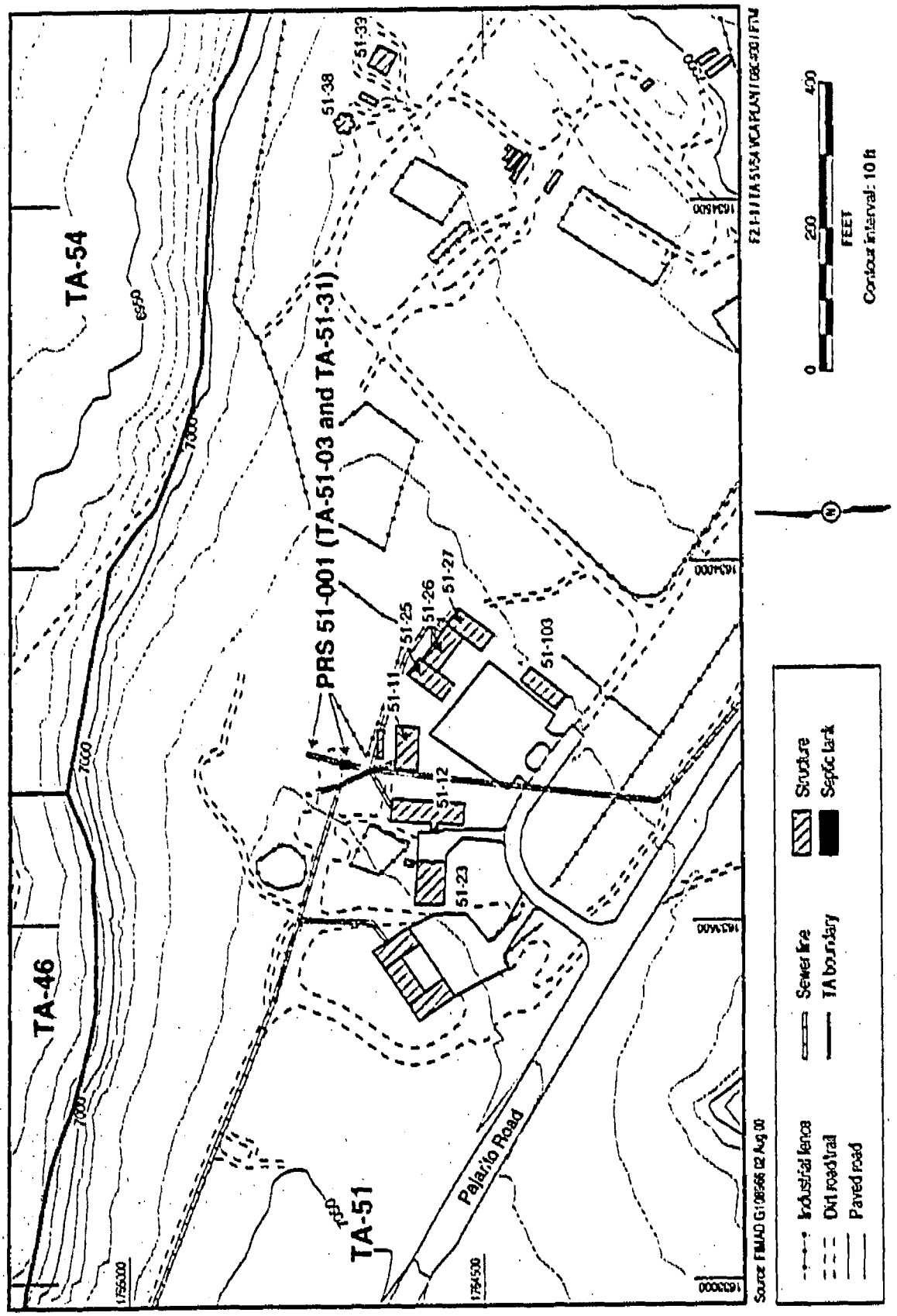


Figure 2.1-1. Location of PRS 51-001, septic system

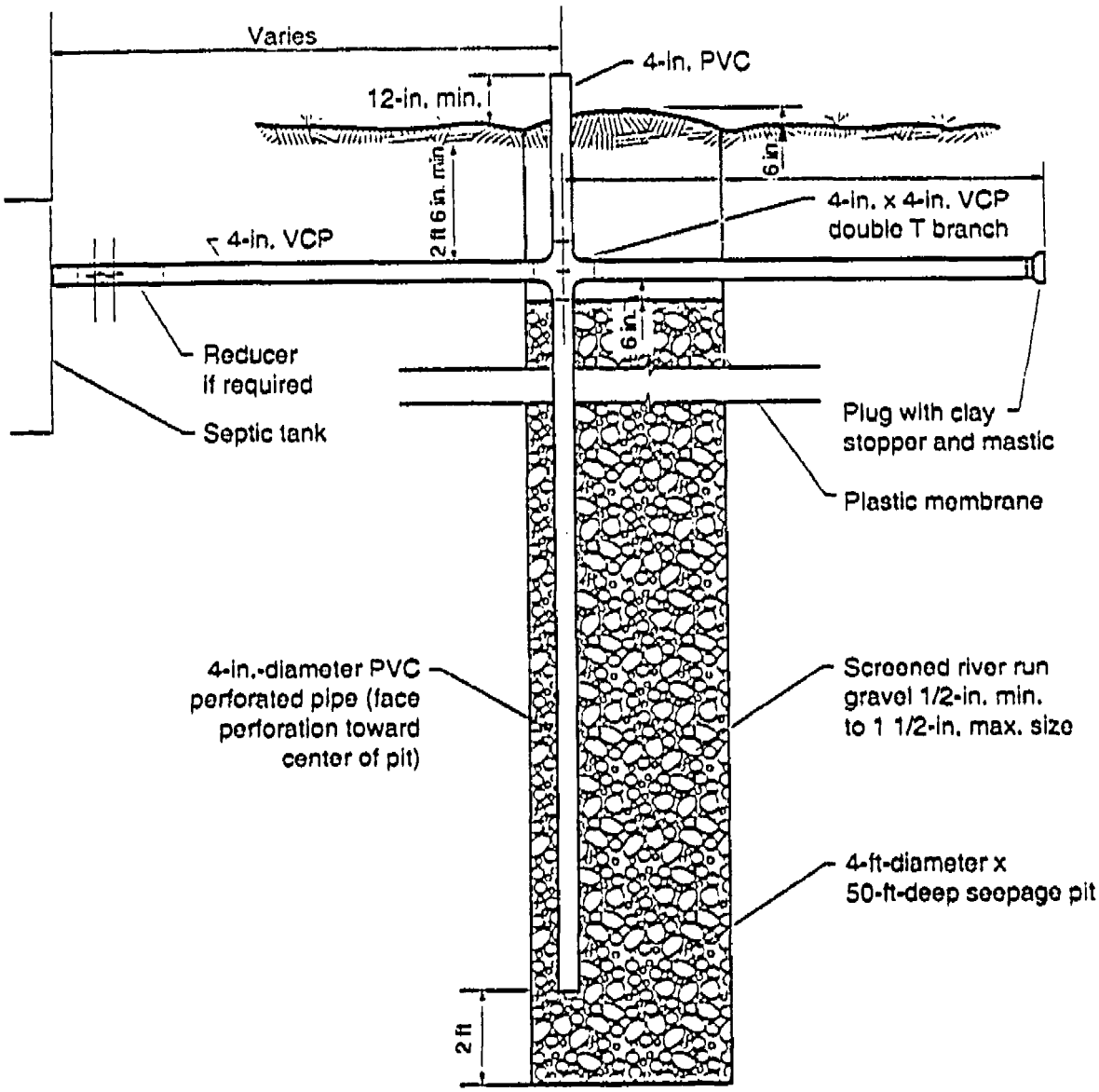


Figure 2.1-2. Seepage pit construction detail for TA-51-31 (LANL 1983, 66410)

TA-51 is the base of operations for the Experimental Engineering Test Facility (EETF), which supports research to develop effective isolation techniques for the burial of wastes in semiarid climates (LANL 1992, 7669). The EETF was built in 1980, and support offices for staff were constructed in 1986. PRS 51-001 served the EETF. The septic system was installed in 1988 to provide sanitary sewer service to Buildings TA-51-12, -11, and -26 and was decommissioned in 1993 when the sanitary sewer line was installed as part of the Laboratory's Sanitary Wastewater Systems Consolidation (SWSC) Program. The influent now flows to a new manhole west of the septic tank. A greenhouse and laboratory previously occupied Building TA-51-12; the building was equipped with sinks and lavatories. Building TA-51-26 has housed offices since its construction in 1986. Building TA-51-11 housed the Environmental Science Laboratory.

2.1.2 Previous Field Investigations

There are no documented operational spills or unintentional releases associated with PRS 51-001. The septic system was investigated during the 1995 RFI in accordance with the OU 1148 RFI work plan (LANL 1992, 7669). However, the nature and extent of potential contamination were not determined, and the data have not been assessed or presented in an RFI report. Previous sample locations are shown in Figure 2.1-3. As part of that RFI, the contents of the septic tank were sampled and analyzed. Additionally, a borehole was advanced through the center of the seepage pit to an approximate depth of 60 ft. However, the drill was unable to collect a sample in the gravel layer at the base of the seepage pit, so only a single tuff sample and a duplicate sample were collected from between 55 ft and 60 ft bgs. The analytical suite for the sludge sample and the tuff samples included gross alpha, beta, and gamma; pesticides/polychlorinated biphenyls (PCBs); cyanide; volatile organic compounds (VOCs); semivolatile organic compounds (SVOCs); and total metals.

2.1.3 Results from Previous Investigations

A review of the analytical results in Table 2.1-1 from the 1995 RFI sampling indicates that there are insufficient data to determine if radionuclides are above background levels. Therefore, the July 2000 samples will be analyzed for isotopic plutonium, isotopic uranium, gamma-emitting radionuclides (by gamma spectrometry), and tritium. The 1995 data do show low concentrations of the VOCs chloroethane and 1,2-dichloroethane in the septic tank sludge sample and the rinsate from the equipment used to collect that sample. The same VOCs were detected in the tuff sample, the duplicate sample, and the rinsate sample from equipment that was used to collect the seepage pit samples; concentrations in these samples were lower than those measured in the sludge. No inorganic chemicals were detected above Laboratory background values.

2.2 PRS 54-007(d)

2.2.1 Site Description and Operational History

PRS 54-007(d) is an inactive/abandoned septic system that served buildings TA-54-1001, -1002, -1003, and -1004, formerly buildings TA-51-1, -2, -3, and -7. The system was constructed in 1962 and consists of a 972-gal. reinforced concrete septic tank (TA-54-4) located north of building TA-54-1004, formerly building TA-51-7 (Figure 2.2-1). The 4-in. cast iron drain line from the septic tank connects to a reinforced concrete distribution box, which diverted the effluent to the east and west to a drain field of 4-in.-diameter drain tile running approximately 60 ft in both directions. The septic system was abandoned in 1993 when the sanitary sewer line was installed as part of the Laboratory's SWSC Program. The influent now flows to a new manhole, TA-54-151, constructed south of the septic tank.

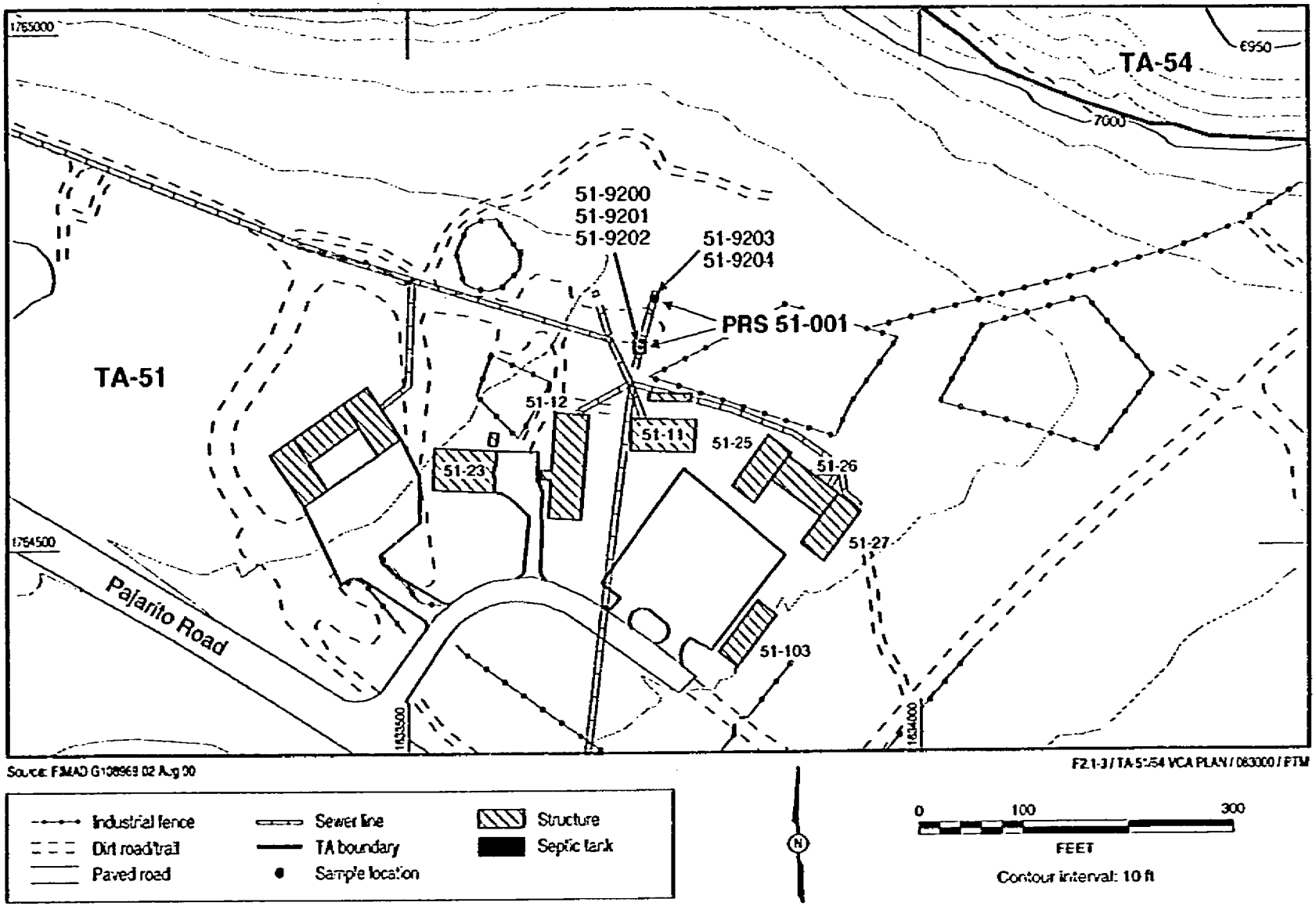


Figure 2.1-3. Sample locations for the 1995 RFI at PRS 51-001

Table 2.1-1
Organic Analytes and Radiation Detected at PRS 51-001

Location ID	Request No.	Matrix	Depth (ft)	Sample ID	Analyte	Result	Uncertainty	Units	Qualifier
51-9200	1618	Sludge	n/a[a]	0551-95-2000	Chloroethane	71	n/a	ug/L	None
51-9200	1618	Sludge	n/a	0551-95-2000	Dichloroethane[1,2-]	5	n/a	ug/L	None
51-9201	1618	Sludge	n/a	0551-95-2001	Chloroethane	64	n/a	ug/L	None
51-9201	1618	Sludge	n/a	0551-95-2001	Dichloroethane[1,2-]	4	n/a	ug/L	J[b]
51-9202	1631	Sludge	n/a	0551-95-2002	Gross beta radiation	54.30	4.35	pCi/L	None
51-9202	1631	Sludge	n/a	0551-95-2002	Gross gamma radiation	25.20	5.45	pCi/L	None
51-9204	1686	Soil	50–60	0551-95-2016	Gross alpha radiation	1.46	0.12	pCi/g	None
51-9204	1686	Soil	50–60	0551-95-2016	Gross beta radiation	0.98	0.13	pCi/g	None
51-9204	1686	Soil	50–60	0551-95-2017	Gross alpha radiation	0.71	0.08	pCi/g	None

[a] n/a = not applicable.
[b] J = result should be regarded as estimated.

The Radiation Exposure Facility, located in the western part of TA-54, was in operation from 1962 to the mid-1970s. The facility was used for biomedical research on the exposure of animals to gamma radiation from sealed cobalt-60 sources. The radiation sources were removed from the facility when research was terminated. In 1992, when the OU 1148 work plan was being written, the facility was used for research on the exposure of animals to the oxides of nitrogen.

2.2.2 Previous Field Investigations

There are no documented operational spills or unintentional releases associated with PRS 54-007(d). The septic system was investigated during the 1995 RFI in accordance with the OU 1148 RFI work plan (LANL 1992, 7669). However, the nature and extent of potential contamination were not determined, and the data have not been assessed or presented in an RFI report. As part of the RFI, the contents of the septic tank were sampled and analyzed. Subsurface soils adjacent to the discharge line and drain field were also sampled and analyzed. Previous sample locations are shown in Figure 2.2-2. The analytical suite for the sludge sample and the soils samples included gross alpha, beta, and gamma; pesticides/PCBs; VOCs; SVOCs; and total metals.

2.2.3 *Results of Previous Field Investigations*

A review of the analytical results in Table 2.2-1 from the 1995 RFI sampling indicates that there are insufficient data to determine if radionuclides are above background levels. Therefore, the July 2000 samples will be analyzed for isotopic plutonium, isotopic uranium, gamma-emitting radionuclides (by gamma spectrometry), and tritium. The 1995 data do show low concentrations of several VOCs in the septic tank sludge and soils in the vicinity of the drain field. Extremely low concentrations of toluene were detected in soil samples collected from the drain field while chloroethane, 1,2-dichloroethane, and acetone were detected in low concentrations in rinsate samples from equipment used to collect soil samples from the drain field. Low levels of chloroethane and 1,2-dichloroethane were also detected in the sludge remaining in the tank. No inorganic chemicals were detected above Laboratory background values.

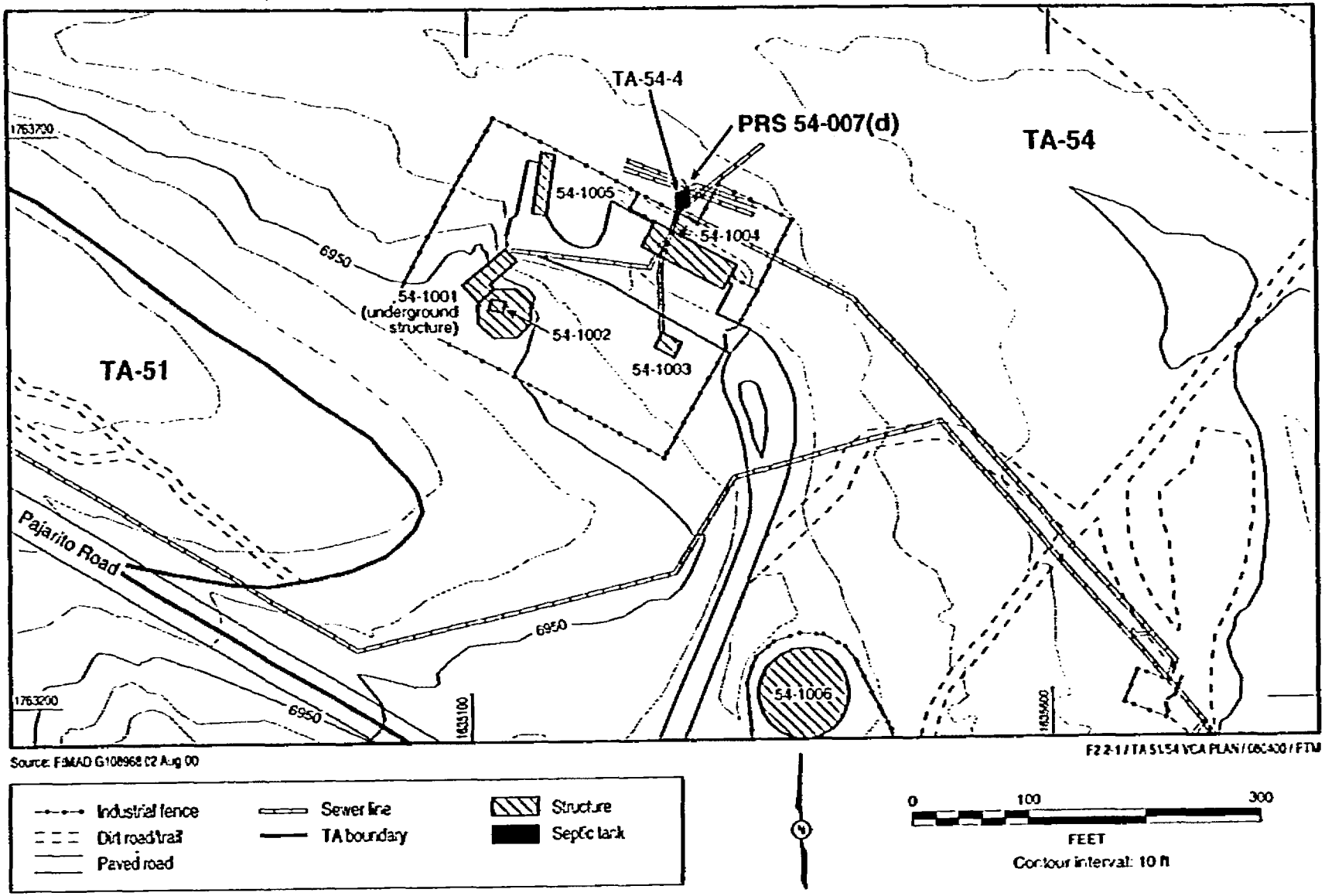


Figure 2.2-1. Location of PRS 54-007(d), septic system

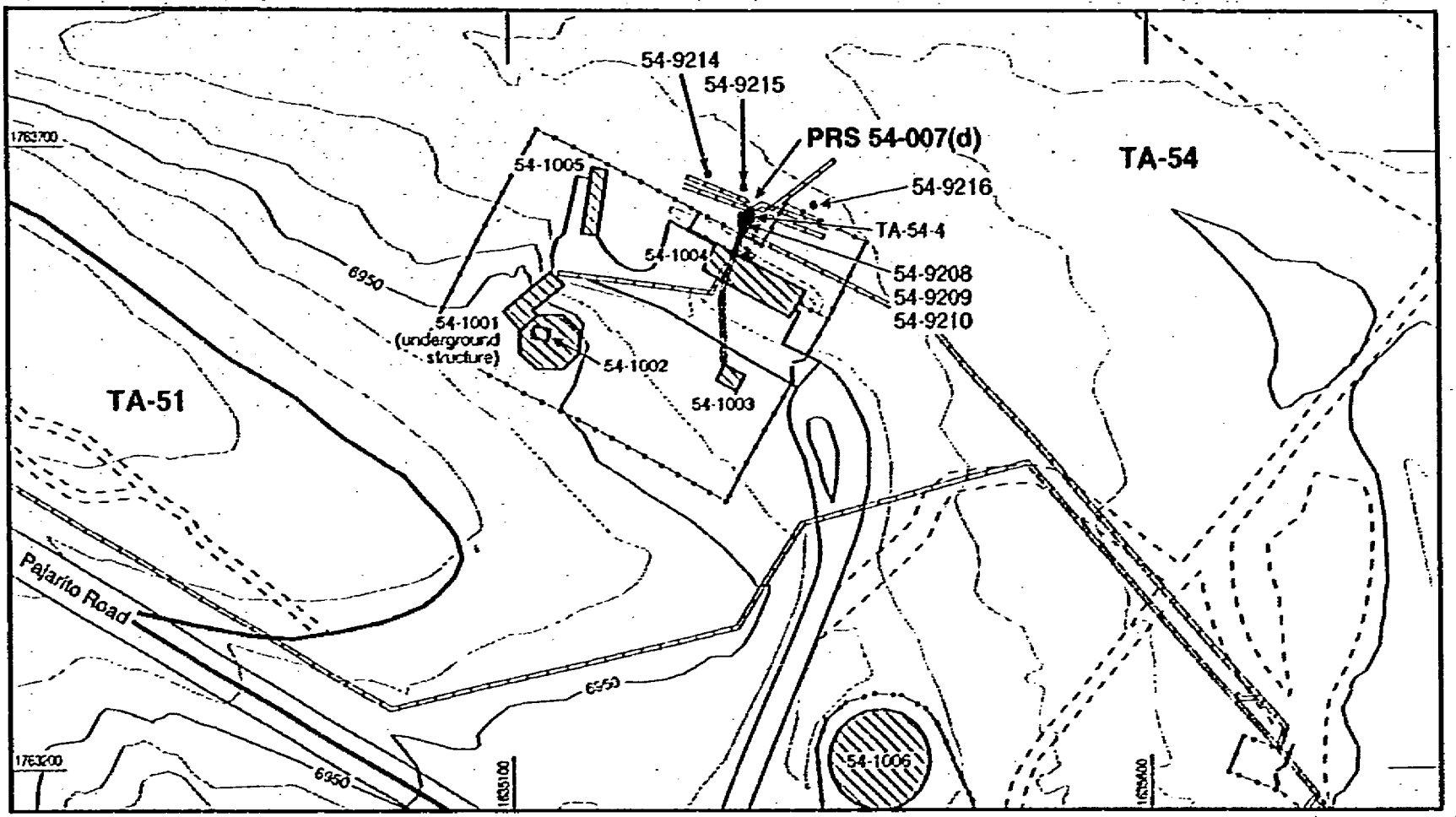


Figure 2.2-2. Sample locations for the 1995 RFI at PRS 54-007(d)

Table 2.2-1
Organic Analytes and Radiation Detected at PRS 54-007(d)

Location ID	Request No.	Depth (in.)	Matrix	Sample ID	Analyte	Result	Uncertainty	Units	Qualifier
54-9208	1618	n/a[a]	Sludge	0554-95-2009	Chloroethane	79	n/a	ug/L	None
54-9208	1618	n/a	Sludge	0554-95-2009	Dichloroethane[1,2-]	6	n/a	ug/L	None
54-9209	1618	n/a	Sludge	0554-95-2010	Chloroethane	78	n/a	ug/L	None
54-9209	1618	n/a	Sludge	0554-95-2010	Dichloroethane[1,2-]	6	n/a	ug/L	None
54-9210	1618	n/a	Sludge	0554-95-2011	Bis(2-ethylhexyl)phthalate	2	n/a	ug/L	J[b]
54-9210	1618	n/a	Sludge	0554-95-2011	Di-n-butylphthalate	1	n/a	ug/L	J
54-9210	1631	n/a	Sludge	0554-95-2011	Gross alpha radiation	2.90	0.95	pCi/L	None
54-9210	1631	n/a	Sludge	0554-95-2011	Gross beta radiation	16.50	1.75	pCi/L	None
54-9210	1631	n/a	Sludge	0554-95-2011	Gross gamma radiation	33.40	5.90	pCi/L	None
54-9214	1634	30–40	Soil	0554-95-2021	Gross alpha radiation	3.86	0.25	pCi/g	None
54-9214	1634	30–40	Soil	0554-95-2021	Gross beta radiation	2.98	0.22	pCi/g	None
54-9214	1634	30–40	Soil	0554-95-2021	Gross gamma radiation	2.94	0.89	pCi/g	None
54-9215	1634	26–36	Soil	0554-95-2022	Gross alpha radiation	5.88	0.38	pCi/g	None
54-9215	1634	26–36	Soil	0554-95-2022	Gross beta radiation	3.64	0.26	pCi/g	None
54-9215	1634	26–36	Soil	0554-95-2023	Gross alpha radiation	5.01	0.32	pCi/g	None
54-9215	1634	26–36	Soil	0554-95-2023	Gross beta radiation	3.71	0.26	pCi/g	None
54-9215	1634	26–36	Soil	0554-95-2023	Gross gamma radiation	2.92	0.65	pCi/g	None
54-9216	1632	5–15	Soil	0554-95-2024	Toluene	0.0009	n/a	mg/kg	J
54-9216	1634	5–15	Soil	0554-95-2024	Gross alpha radiation	5.13	0.33	pCi/g	None
54-9216	1634	5–15	Soil	0554-95-2024	Gross beta radiation	2.99	0.25	pCi/g	None

[a] n/a = not applicable.

[b] J = result should be regarded as estimated.

3.0 BASIS FOR CLEANUP LEVELS

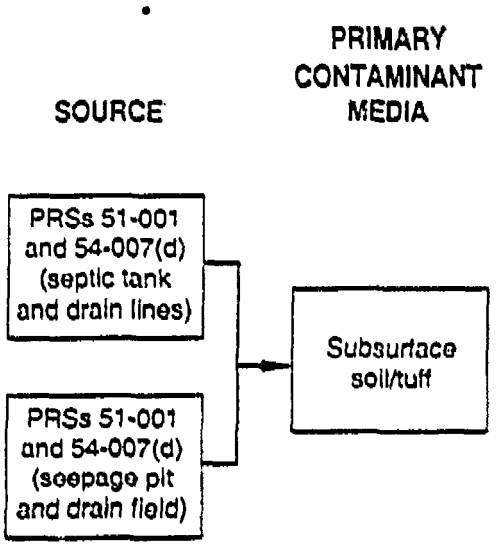
The basis for cleanup levels will be determined by the results of the human health risk screens, human health risk assessments, ecological risk assessments (ERAs), and/or, in some cases, by statute or regulatory mandate. Cleanup levels for each PRS that are protective of human health will be based on EPA Region VI industrial PRGs. The COPCs will be identified in the screening assessment for human health, and cleanup levels will be developed for each COPC. Cleanup levels protective of ecological receptors and the ecosystems they represent will be derived using information from the ecological scoping process, which identifies chemicals of potential ecological concern and potential complete exposure pathways, and an ERA, if warranted. The scoping process and the screening ERA will be prepared in accordance with ERA guidance developed specifically for the Laboratory (Kelly et al. 1998, 57916).

The ER Project is committed to working closely with DOE and New Mexico Environment Department (NMED) staff, if required, during preparation of the VCA plan and completion report to confirm future land-use scenarios and determine corresponding cleanup levels.

4.0 PROPOSED CORRECTIVE ACTION

4.1 Conceptual Model

The conceptual model (Figure 4.1-1) for PRSs 51-001 and 54-007(d) specifies subsurface soil as the primary potential contaminated media. These septic systems were gravity driven and not under pressure. Therefore, soil overlying the septic tanks and drain lines is not expected to be contaminated. The potential release mechanisms would be porous joints in drain lines, slotted PVC lines used to construct the drain field and spread tank liquids to the subsurface, and aggregate rock used to spread tank liquids at the bottom of the seepage pit. The analytical data from characterization of liquids and sludges remaining in the septic tanks would be representative of the subsurface soil beneath the septic tanks, drain lines, drain field, and seepage pit.



F4.1-1 / TA-01/54 VCA PLAN / 060800 / PTM

Figure 4.1-1. Conceptual model of contaminant transport at PRSs 51-001 and 54-007(d)

Samples were collected at PRS 54-007(d) in 1995 on the south side of the drain field at a 5-ft depth (1 ft below the depth of drain field). To determine nature and extent of contamination, samples will be collected during September 2000 on the north side of the drain field at a 5-ft depth. In 1995, samples were collected at PRS 51-001 directly beneath the seepage pit. To determine nature and extent of contamination, two downgradient boreholes will be advanced to a 60-ft depth (one the northeast side and one on the northwest side of the seepage pit) in September 2000. Core samples will be field screened and samples collected at approximately 40-ft and 60-ft depth.

Possible pathways from subsurface releases to potential human receptors would be complete only if contaminated soil or tuff was excavated and brought to the surface. 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 of contaminants in the vadose zone 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.

For PRS 51-001, there is no complete exposure pathway. For 54-007(d), the only complete exposure pathway is root uptake from the drain field. The ecological conceptual site model for PRSs 51-001 and 54-007(d) and the associated rationale are presented in Part C of the ecological scoping checklists (Appendix D).

4.2 Sampling

There will be two sampling events. First, sampling was conducted in July 2000 to complete the characterization of waste remaining in the septic tanks. Second, sampling will be conducted to determine the nature and extent of contamination adjacent to the PRS 51-001 seepage pit and the PRS 54-007(d) drain field. 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. An organic vapor monitor will be used to screen soil for volatile organic vapors, and an alpha probe and a beta/gamma probe will be used to screen soil and possible waste for ionizing radiation. A combustible gas indicator will be used to screen any excavation areas and septic tanks for flammable gases. The site safety officer will calibrate and check all field-screening instruments, as required.

4.2.1 Sampling of Septic Tanks

Samples were collected through each septic tank's sampling port. Liquid samples were collected from PRS 54-007(d) at two levels (0–2 ft, 2–4 ft) and were composited. The level of liquid remaining in PRS 51-001 was 3 in.; therefore, only one sample was collected. Sludge (semisolid) found at the bottom of each of the septic tanks was scraped with an implement to gather a representative sample. All samples collected from the septic tanks were sent to an off-site fixed laboratory. A full suite analysis will be performed; it will include pesticides/PCBs, TAL/TCLP metals (liquids/sludges), VOCs, SVOCs, soil pH, and radionuclides (gamma-emitting radionuclides by gamma spectrometry, tritium, isotopic plutonium, and isotopic uranium). Data will be used to determine the proper disposal route for liquids and sludges and the analytes for the confirmatory sampling of the seepage pit and drain field.

4.2.2 Sampling of Seepage Pit – PRS 51-001

Two subsurface samples will be collected from each of the boreholes (one approximately 5 ft northwest and one approximately 5 ft northeast of the seepage pit) at PRS 51-001; an auger rig will be used to collect samples at 40 ft and 60 ft to supplement the 1995 RFI data. All samples 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 septic tank sampling.

4.2.3 Sampling of Drain Field – PRS 54-007(d)

Three hand auger holes will be advanced on the south side of the drain field at PRS 54-007(d) to a depth of approximately 5 ft (a foot below the drain field). A 1-ft interval of core will be screened, and a minimum of four samples will be collected to supplement the 1995 data from samples collected on the north side of the drain field. All samples 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 septic tank samples.

4.3 Cleanup Activities

Results from sampling conducted during this investigation will determine the extent of cleanup activities. If data for septic tank sampling indicate that the liquids and sludges are sanitary waste, the liquids and sludges will be removed, and the septic tanks will be closed in place, cleaned, and filled with gravel according to 20NMAC7.3, "Abandoned Sewers and On-Site Liquid Waste Management Systems." If data indicate the liquids and sludges contain low-level radioactively contaminated, hazardous, or mixed waste, the liquids and sludges will be removed and placed in appropriate containers. The septic tanks will be steam cleaned if the waste is hazardous or mixed and transported off site and disposed of at a proper waste management facility. The final cleanup activities and the derivation of the cleanup levels will be described in detail in the VCA completion report for PRSs 51-001 and 54-007(d). Confirmatory sampling is discussed in Section 5, and waste management is discussed in detail in Section 6.

All cleanup activities will be conducted according to this VCA plan, the site-specific health and safety plan, and the Waste Characterization Strategy form.

4.4 Contingency Plan

Based on review of the conceptual model and the 1995 sampling data, it does not appear that potential COPCs in soil adjacent to and below the septic tanks, drain field, and seepage pit exceed human or ecological risk criteria. However, if waste characterization data indicate the liquids and sludges remaining in the septic tanks are hazardous, low-level, or mixed waste, the tanks will be removed, and confirmation samples will be collected from each tank excavation. If confirmatory sampling data indicate an unacceptable level of risk, the associated soils will be removed.

If analytical results for the confirmatory sampling (Section 5) indicate soil contamination adjacent to and/or under septic tanks and drain lines, seepage pit, and drain field that poses an unacceptable risk to human health and the environment, cleanup levels will be derived, and the soil will be excavated and loaded directly into the appropriate waste container. Contaminated soil will be disposed of at the proper waste management facility. If analytical results indicate no contamination, the soil from the excavation of the septic tanks will be placed back in the trench.

4.5 Site Restoration

Before VCA activities begin, photographs, field sketches, and/or video documentation will be prepared to record the conditions of the sites. After completion of activities, the site will be restored to preinvestigation contours and seeded with a mix of native grasses recommended by ESH-20. Stormwater best management practices will be installed, as needed, during and after completion of activities and will be inspected and maintained in accordance with ER requirements.

5.0 CONFIRMATORY SAMPLING

If analytical results from septic tank sampling indicate contamination is present, the septic tanks will be excavated, and confirmatory samples will be collected. All trench floors will be field examined during excavation. Field instrument readings and field observations of pre-existing breaks in the drain lines and septic tank, fractured areas in the underlying tuff, and areas of soil discoloration will be used to identify areas of possible contamination. Identified areas 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 and 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 drain lines and

from the imprints of the septic tanks. The sampling locations will be moved to a nearby fracture within the tuff if one is evident. Table 5.0-1 identifies the depths and descriptions of samples proposed to be collected beneath the septic system drain lines and tanks. All samples will be sent to an off-site fixed laboratory for analysis. Types of analyses to be performed on these samples will be based on the analytical results from the septic tank samples.

Table 5.0-1
Confirmatory Sample Depths and Descriptions

Depth (in.)	Description
0–12	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
12–24	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
0–12	Collected from the media immediately below excavated inlet pipe, approximately half way between septic tank location and new SWCS manhole
12–24	Collected from the media immediately below excavated inlet pipe, approximately half way between septic tank location and new SWCS manhole
0–12	Collected from the center of the imprint of the excavated tank, media may be fill or tuff
12–24	Collected from the center of the imprint of the excavated tank, media may be fill or tuff
0–12	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
12–24	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

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
Waste Streams, Types, and Volumes at PRSs 51-001 and 54-007(d)

Waste Stream	Waste Type	Anticipated Volume
Concrete and other debris	Solid, potentially low-level waste	3 yd^3
Tank contents	Solid/sludge (semisolid), potentially low-level waste	1400 gal.
Contaminated soil	Solid, potentially low-level waste	10 yd^3
Decontamination water	Liquid, potentially low-level waste	55 gal.
Plastics, personal protective equipment (PPE), sampling waste	Solid, potentially low-level waste	2 yd^3

Concrete and Other Debris. This waste stream includes the septic tanks and possibly the VCP drain lines. The volume calculation assumes that the concrete will be broken up. The results of analyses on the tank contents will determine whether the septic tanks are removed or closed in place. This waste stream could range from nonradioactive/nonhazardous to either low-level waste or mixed low-level waste depending on the outcome of waste characterization results.

Tank Contents. A trash pump will be used to remove the liquids and sludge in the tanks. Characterization of the waste will be determined by direct sampling of the tank contents. Wastewater generated from steam cleaning of the tanks, if appropriate, will be handled in the same manner as the tank contents.

Contaminated Soil. This waste stream could contain radioactively contaminated soils that are excavated below the septic tanks and the drain lines of the septic tanks and soils below and around the seepage pit and drain field. This waste stream could range from nonradioactive/nonhazardous to either low-level waste or mixed low-level waste depending on the waste characterization results. The quantity estimates for this waste stream are based on 10% of the volume of the soil beneath/around the septic tanks. An additional 2 yd^3 is estimated as originating beneath the drain lines along the entire length of the drain lines. 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. 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 sampled 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 septic tank liquid and sludge 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.

Concrete and Other Debris. If the liquids and sludges in the septic tank are hazardous or mixed waste, the septic tanks will be steam cleaned, sampled, and broken up. The concrete debris will be loaded into an appropriate roll-off container. Composite samples of the concrete will be collected and sent to a fixed laboratory for analysis. Disposal site requirements will be determined after analytical results from the concrete have been evaluated.

Tank Contents. The liquids, sludges, and steam-cleaning liquids (if generated) will be placed into appropriate containers, based on the analytes identified during the waste characterization sampling. It is anticipated that the waste will be characterized as liquid low-level waste and transported for disposal at the TA-50 Radioactive Liquid Waste Treatment Facility. If the liquids are 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 bermed to prevent runoff and run-on and covered until analytical results are received. Soil with contaminant concentrations that are below the sites' cleanup levels will be returned to the excavation. Soils with concentrations above cleanup levels 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. If the soils are 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.

Decontamination Water. Decontamination solutions will be collected daily in 55-gal. steel or poly (bung-type) drums approved by the US Department of Transportation. 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. Sanitary liquids will be disposed of in the sanitary sewer system.

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. 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 during September 2000 and will end in November 2000 (Table 7.0-1). Collection of the septic tank samples occurred in July 2000. Waste characterization results for the septic tank liquid and sludge samples will be reported by the end of August 2000. Six working days are allotted for a site readiness review, training, and mobilizing. Thirteen working days are allotted for excavations and confirmatory sampling of the site. Thirty working days have been allotted for all waste sampling, analysis, disposition, and disposal. This schedule should be achievable if laboratory analyses and waste disposition decisions can be completed in a timely fashion and if a proper waste disposal facility can be confirmed. Five working days have been allotted for site restoration activities. If excavation is needed to clean up the seepage pit or drain field portion of the septic, more restoration will be needed. If site restoration is more extensive than straw bale erosion controls, backfilling, and grading and reseeding of the site, a longer period of time may be needed. The VCA completion report will be prepared in Fiscal Year 2001.

Table 7.0-1
VCA Field Work Schedule

Activity	Work Day Duration	Start	Finish
Readiness review/preparation	6 days	September 5	September 12
Review of characterization data	2 days	August 22	August 23
Excavation and confirmatory sampling	13 days	September 13	September 29
Laboratory analysis	25 days	October 2	November 3
Waste management/disposal	30 days	October 9	November 17
Site restoration	5 days	November 20	November 28
Overall	59 days	September 5	November 28

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 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 54."

Copies of the reference library are maintained at NMED-HRMB; the DOE Los Alamos Area Office; United States EPA, Region VI; and the ER Project MDAs Focus Area. This library is a living collection of documents 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.

DOE (US Department of Energy), October 1987. "Phase I: Installation Assessment, Los Alamos National Laboratory," Volumes 1 and 2, (draft), Comprehensive Environmental Assessment and Response Program, Albuquerque Operations Office, Albuquerque, New Mexico. (DOE 1987, 8663 and 8664)

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)

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LANL (Los Alamos National Laboratory), August 31, 1983. "Environmental Science Laboratory, Civil: Sections and Details, Bldg. Ref. 12 TA-51" Engineering Drawing ENG-C44263, Sheet 4 of 27, Los Alamos, New Mexico. (LANL 1983, 66410)

LANL (Los Alamos National Laboratory), May 1992. "RFI Work Plan for Operable Unit 1148," Los Alamos National Laboratory report LA-UR-92-855, Los Alamos, New Mexico. (LANL 1992, 7669)

Appendix A

List of Acronyms and Glossary

A-1.0 ACRONYMS

bgs	below ground surface
BMP	best management practice
COPC	chemical of potential concern
DOE	Department of Energy
EETF	Experimental Engineering Test Facility
EPA	Environmental Protection Agency
ER	environmental restoration
ERA	ecological risk assessment
HSWA	Hazardous and Solid Waste Amendments of 1984
Laboratory	Los Alamos National Laboratory
NFA	no further action
NMED	New Mexico Environment Department
OU	operable unit
PCB	polychlorinated biphenyl
PRG	preliminary remediation goal
PRS	potential release site
PVC	polyvinyl chloride
RCRA	Resource Conservation and Recovery Act
RFI	RCRA facility investigation
SVOC	semivolatile organic compound
SWSC	sanitary wastewater system consolidation
TA	technical area
VCA	voluntary corrective action
VCP	vitrified clay pipe
VOC	volatile organic compound

A-2.0 GLOSSARY

alpha radiation. Radiation composed of alpha particles emitted during the radioactive decay of certain nuclides. The least penetrating of the three common types of radiation (alpha, beta, and gamma), alpha radiation can be blocked easily (for example, by a sheet of paper or the outer layer of skin).

best management practices (BMPs). For facilities that manufacture, use, store, or discharge toxic or hazardous pollutants as defined by the 1977 Clean Water Act, a required program to control the

potential spill or release of those materials to surface waters. (The Facts on File Dictionary of Environmental Science, edited by L. Harold Stevenson and Bruce Wyman)

beta radiation. Radioactive transformation of a nuclide in which the nucleus emits a beta particle (electron or positron). Beta radiation can be blocked by an inch of wood or by a thin sheet of aluminum.

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 levels. Media-specific contaminant concentration levels 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.

gamma radiation. A form of electromagnetic, high-energy radiation emitted from a nucleus. Gamma rays are essentially the same as x-rays and require heavy shielding, such as concrete or steel, to be blocked.

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.

mixed waste. Waste that contains both hazardous waste (as defined by RCRA) and radioactive waste (as defined by the Atomic Energy Act [AEA] and its amendments).

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 six administrative "field units."

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

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.

preliminary remediation goal (PRG). Acceptable exposure levels, protective of human health and the environment, that are used as a risk-based tool for evaluating remedial alternatives.

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.

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)

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.

Appendix B

VCA Checklist and Field Work Authorization Form

Accelerated Corrective Action (ACA)
Checklist and Field Work Authorization Form

PRS Number: 54-007(d) ☐ HSWA ☒ Non-HSWA

Yes	No	
X		Fact sheet describing planned activities is complete and attached to checklist.
X		COPC(s) for human health risk (HH), ecological risk (ECO), or other requirements are known or will be determined during accelerated site characterization.
X		Nature and extent of contamination is defined or accelerated site characterization is planned as part of this action to define nature and extent and to guide cleanup.
X		Cleanup levels/preliminary remediation goals (PRGs) are appropriate.
X		Remedy is obvious.
X		Time for removal is less than six months.
X		Remedy is final.
X		Land use assumptions are straightforward.
X		Treatment, Storage, and Disposal (TSD) Facilities are available for waste type and volume.
X		Cleanup cost is reasonable for the planned action and meets accelerated decision logic criterion for decision to proceed with ACA.
	X	Briefing for NMED is required.

Explain criteria not checked above:

Los Alamos
Environmental Restoration Project

Accelerated Corrective Action (ACA)
Checklist and Field Work Authorization Form

PRS Number: _____ ☐ HSWA ☒ Non-HSWA

Upon reviewing the Accelerated Corrective Action Fact Sheet and the criteria checklist above, the appropriate Accelerated Corrective Action approach for the PRS(s) is (check one): ☐ VCA ☐ VCM

Signatures of the Representative for UC-Laboratory, DOE-LAAO, and NMED-HRMB:

UC: JOHN HOPKINS, FAPL, _____ 8/21/00
(Print Name and Title, then Sign) (Date)

DOE: _____ _____
(Print Name and Title, then Sign) (Date)

NMED: _____ _____
(Print Name and Title, then Sign) (Date)

The undersigned have reviewed the final plan and believe that it fully satisfies the appropriate Accelerated Corrective Action Approach.

Signatures of the Representative for UC-LANL and DOE-LAAO

UC: _____ _____
(Print Name and Title, then Sign) (Date)

DOE: _____ _____
(Print Name and Title, then Sign) (Date)

Action	Date	Correspondence ID
VCA or VCM plan submitted to NMED		
NOD or RSI received from NMED		
Laboratory response to NOD or RSI		
NMED approval of VCA or VCM plan		

After reviewing the VCA or VCM plan for the site(s) listed above and believing that the ACA process and VCA or VCM criteria have been met, I authorize the fieldwork to proceed.

DOE ER Program Manager _____ _____
(Signature) (Date)

Los Alamos
Environmental Restoration Project

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Voluntary Corrective Action Fact Sheet for Potential Release Site 54-007(d) Removal of Sludge, Closure of Septic System, and Characterization of Drain Field

Site Ranking System: 32

Erosion Matrix Score: 23.3

Operational History

Potential Release Site (PRS) 54-007(d) is an inactive/abandoned septic system that served Buildings 1001, 1002, 1003, and 1004 in Technical Area (TA) 54, formerly buildings TA-51-1, -2, -3, and -7. PRS 54-007(d) is not listed in Module VIII of the Laboratory's Hazardous Waste Facility Permit (EPA 1990, 1585). The system was constructed in 1962 and consists of a 972-gal. reinforced concrete septic tank (TA-54-4) located north of building TA-54-1004, formerly building TA-51-7 (Figure 1). The 4-in. cast iron drain line from the septic tank connects to a reinforced concrete distribution box, which diverted the effluent to the east and west to a drain field of 4-in.-diameter drain tile running approximately 60 ft in both directions. The influent now flows to a new manhole, TA-54-151, constructed south of the septic tank, and the distribution box and drain field have been abandoned.

The Radiation Exposure Facility, located in the western part of TA-54, was in operation from 1962 to the mid-1970s. The facility was used for biomedical research on the exposure of animals to gamma radiation from sealed cobalt-60 sources. The radiation sources were removed from the facility when research was terminated. In 1992, when the Operable Unit (OU) 1148 work plan was being written, the facility was used for research on the exposure of animals to the oxides of nitrogen. The septic system was installed in 1962 to provide sanitary sewer service to Buildings TA-54-1001, -1002, -1003, and -1004 and was abandoned in 1993 when the sanitary sewer line was installed as part of the Laboratory's Sanitary Wastewater Systems Consolidation (SWSC) Program.

Previous Investigations and Chemicals of Potential Concern

The septic system was investigated during the 1995 Resource Conservation and Recovery Act facility investigation (RFI) in accordance with the OU 1148 RFI Work Plan (LANL 1992, 7669). However, the nature and extent of potential contamination were not determined, and the data have not been assessed or presented in an RFI report. As part of this effort, the contents of the septic tank were sampled and analyzed. Subsurface soils adjacent to the discharge line and drain field were also sampled and analyzed. Previous sample locations are shown in Figure 2. The analytical suite for the sludge and soil samples included gross alpha, beta, and gamma; pesticides/polychlorinated biphenyls; volatile organic compounds (VOCs); semivolatile organic compounds; and total metals.

Based on the analytical results and data assessment, the chemicals of potential concern (COPCs) identified were low concentrations of three VOCs in the septic tank sludge and soils in the vicinity of the drain field. The RFI data were insufficient to determine if radionuclides are present above background levels; therefore, radionuclides remain as COPCs.

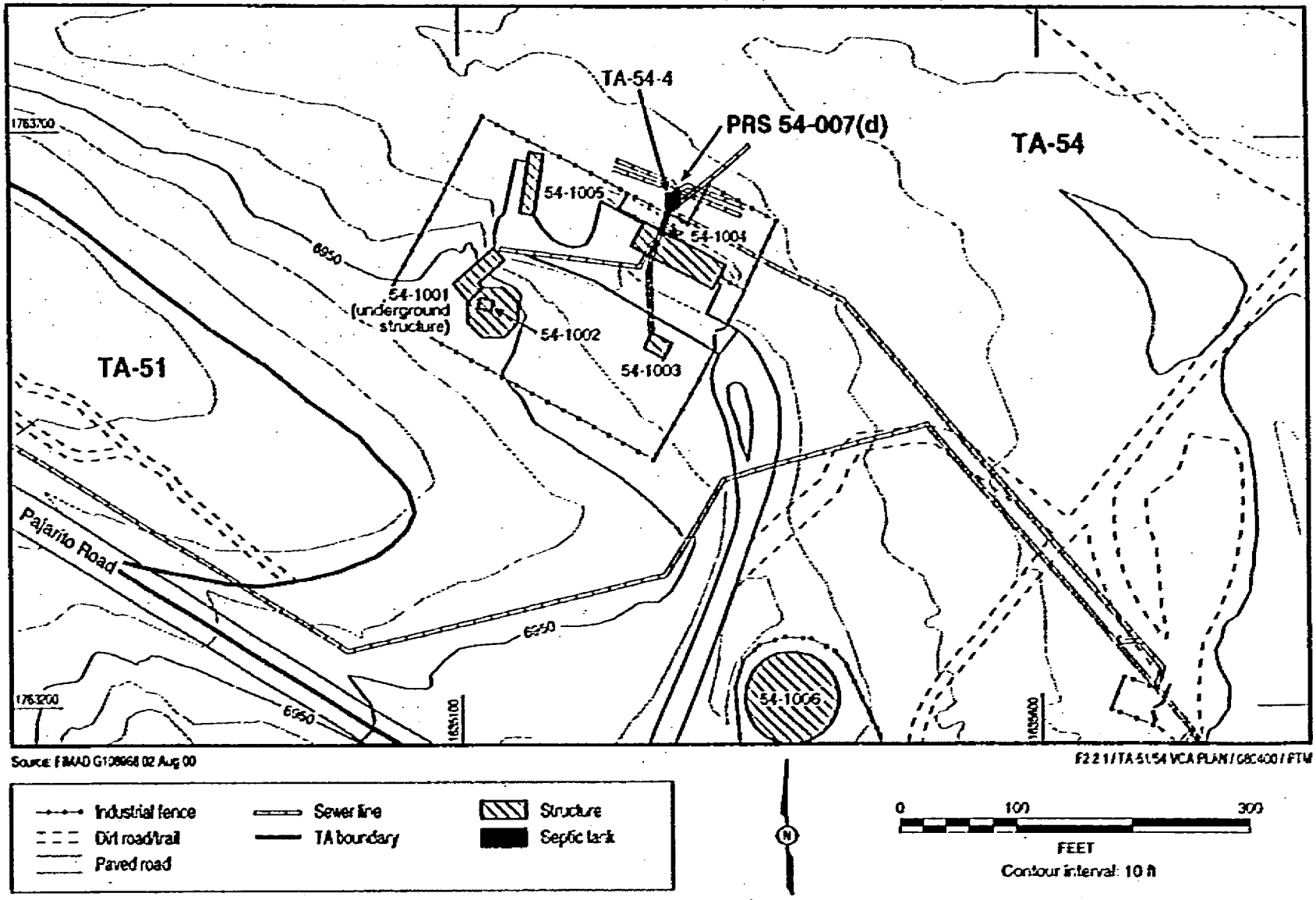


Figure 1. Location of PRS 54-007(d), septic system

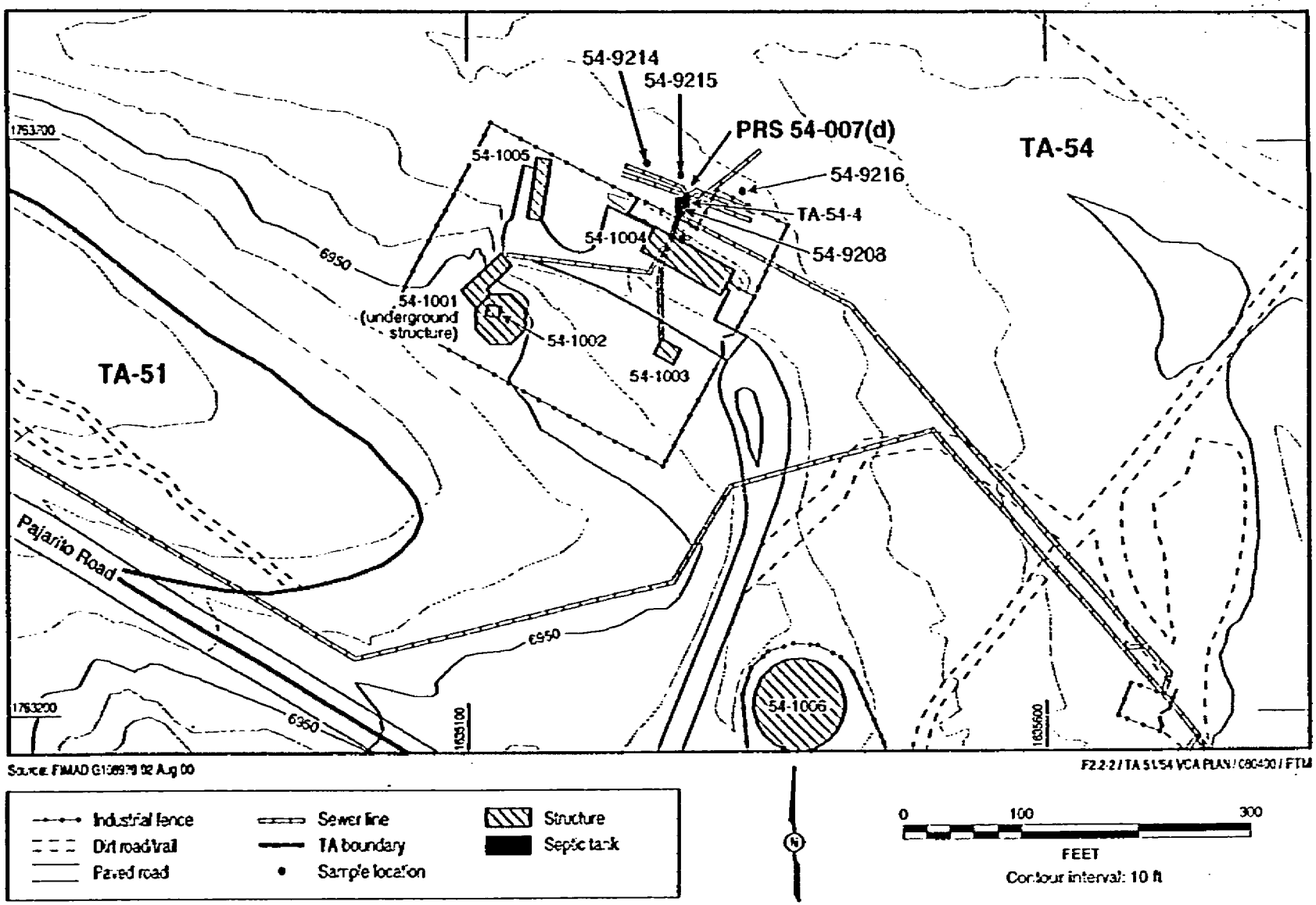


Figure 2. Sample locations for the 1995 RFI at PRS 54-007(d)

VCA Rationale

The septic system identified as PRS 54-007(d) is located on Department of Energy property that will remain under institutional control for the foreseeable future. It is an ER Project best management practice to properly manage inactive/abandoned septic systems in accordance with applicable regulatory requirements and thereby mitigate potential environmental issues that may remain if the systems are not addressed, regardless of RFI results. The septic system is located on the mesa top near the canyon edge; sludge remains in the tank. Therefore, as a final and obvious remedy, the system will either be closed in place in accordance with 20NMAC7.3, "Abandoned Sewers and On-Site Liquid Waste Management Systems," or if contaminated, the tank will be removed, drain lines plugged, and the area around the drain lines and drain field characterized and remediated, if necessary, to levels protective of the pathways for exposure to humans or the ecosystem.

VCA Implementation

The corrective action will involve removal of sludge and liquid remaining in the septic tank. The level of corrective action required for this septic tank will be driven by waste characterization results from the sludge remaining in the tank. If the sludge is determined to be sanitary waste, it will be discharged to the Laboratory's SWSC. The septic tank will subsequently be closed in place and filled with gravel or another inert material and the drain lines cut, plugged, and/or capped in accordance with the Uniform Plumbing Code and Title 20 of the New Mexico Administrative Code, Chapter 7, "Wastewater and Water Supply Facilities," Part 3, "Liquid Waste Disposal" (20NMAC 7.3).

If data indicate the sludge remaining in the tank is determined to be low-level waste (LLW), hazardous waste, or mixed waste, it will be removed and placed into appropriate containers for subsequent transport and disposal through TA-54. The septic tank will be steam cleaned, if found to contain hazardous or mixed waste, broken up, sampled, and disposed of through TA-54. Samples will be collected from the tank excavation to determine if there was a release. To supplement the RFI, additional soil sampling surrounding the drain lines and drain field will be conducted to ensure that the nature and extent of any potential contamination is determined. Human health and ecological screening risk assessments will be conducted on analytical data from any tank excavation and characterization of the drain lines and drain field to determine if additional excavation of soil is required based on EPA Region VI industrial preliminary remediation goals.

Site restoration will consist of filling the excavation, if the septic tank is removed; recontouring disturbed areas to be consistent with natural surroundings; replacing topsoil on the recontoured areas, as required; to re-establish vegetation; and reseeding recontoured areas with native vegetation.

Anticipated Waste Types and Volumes

Five separate waste streams are anticipated from this VCA as presented Table 1. Wastewater from steam cleaning the tank and waste associated with the removal of any drain lines or the septic tank itself would only be generated if waste characterization samples indicate the presence of LLW, hazardous waste, or mixed waste.

Table 1
Anticipated Waste Streams

Waste Stream	Waste Type	Anticipated Volume
Concrete and other debris	Solid, potentially LLW[a]	1.5 yd^3
Septic tank sludge, water layer, and wastewater from steam cleaning of tank	Solid, potentially LLW	800 gal.
Contaminated soil	Solid, potentially LLW	5 yd^3
Decontamination water	Liquid, potentially LLW	25 gal.
PPE[b], plastic sheeting, disposable sampling equipment, and soil samples from soopage pit and tank excavation	Solid, potentially LLW	1 yd^3

[a] LLW = low-level waste.

[b] PPE = personal protective equipment.

Estimated Cost

If waste characterization results show that the sludge can be handled as sanitary waste, the cost of corrective activities including planning, sludge removal, tank closure in place, additional characterization sample collection and analysis around the drain field, waste characterization (PPE and samples only), management and disposal, site restoration, and report preparation (including data assessment) for PRS 54-007(d) is estimated to be $80,000. If waste characterization results show that the sludge is to be handled as hazardous waste, LLW, or mixed waste, the cost of corrective activities will include all activities listed above for sanitary waste in addition to tank cleaning and removal, confirmatory sample collection and analysis from the tank excavation, and possible investigation and/or removal of the drain lines bringing the estimated cost to approximately $140,000. A contingency plan will be included in the VCA plan for the possible remediation of the drain lines and drain field if contaminant levels are determined to be present above acceptable levels.

Schedule

The field work portion of this VCA is expected to begin in late Fiscal Year 2000 or early Fiscal Year 2001 and take approximately three months for removal of the septic tank, cutting and plugging of the drain lines, characterization and confirmatory sample collection and analysis, waste management, and site restoration.

Bibliography

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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)

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LANL (Los Alamos National Laboratory), May 1992. "RFI Work Plan for Operable Unit 1148," Los Alamos National Laboratory report LA-UR-92-855, Los Alamos, New Mexico. (LANL 1992, 7669)

LANL (Los Alamos National Laboratory), October 22, 1993. "TA-54 Forcemain" Engineering Drawing C-45887, Sheet 31 of 166, Los Alamos, New Mexico. (LANL 1993, 66713)

LANL (Los Alamos National Laboratory), October 22, 1993. "TA-54 Line" Engineering Drawing C-45887, Sheet 32 of 166, Los Alamos, New Mexico. (LANL 1993, 66712)

Accelerated Corrective Action (ACA)
Checklist and Field Work Authorization Form

PRS Number: PRS 51-001 ☐ HSWA ☒ Non-HSWA

Yes	No	
X		Fact sheet describing planned activities is complete and attached to checklist.
X		COPC(s) for human health risk (HH), ecological risk (ECO), or other requirements are known or will be determined during accelerated site characterization.
X		Nature and extent of contamination is defined or accelerated site characterization is planned as part of this action to define nature and extent and to guide cleanup.
X		Cleanup levels/preliminary remediation goals (PRGs) are appropriate.
X		Remedy is obvious.
X		Time for removal is less than six months.
X		Remedy is final.
X		Land use assumptions are straightforward.
X		Treatment, Storage, and Disposal (TSD) Facilities are available for waste type and volume.
X		Cleanup cost is reasonable for the planned action and meets accelerated decision logic criterion for decision to proceed with ACA.
	X	Briefing for NMED is required.

Explain criteria not checked above:

Accelerated Corrective Action (ACA)
Checklist and Field Work Authorization Form

PRS Number: _____ ☐ HSWA ☒ Non-HSWA

Upon reviewing the Accelerated Corrective Action Fact Sheet and the criteria checklist above, the appropriate Accelerated Corrective Action approach for the PRS(s) is (check one): ☐ VCA ☐ VCM

Signatures of the Representative for UC-Laboratory, DOE-LAAO, and NMED-HRMB:

UC: JOHN HOPKINS, FAPL, _____ 8/21/00
(Print Name and Title, then Sign) (Date)

DOE: _____ _____
(Print Name and Title, then Sign) (Date)

NMED: _____ _____
(Print Name and Title, then Sign) (Date)

The undersigned have reviewed the final plan and believe that it fully satisfies the appropriate Accelerated Corrective Action Approach.

Signatures of the Representative for UC-LANL and DOE-LAAO

UC: _____ _____
(Print Name and Title, then Sign) (Date)

DOE: _____ _____
(Print Name and Title, then Sign) (Date)

Action	Date	Correspondence ID
VCA or VCM plan submitted to NMED		
NOD or RSI received from NMED		
Laboratory response to NOD or RSI		
NMED approval of VCA or VCM plan		

After reviewing the VCA or VCM plan for the site(s) listed above and believing that the ACA process and VCA or VCM criteria have been met, I authorize the fieldwork to proceed.

DOE ER Program Manager _____ _____
(Signature) (Date)

Los Alamos
Environmental Restoration Project

ENV • PRINTING • DOC

Voluntary Corrective Action Fact Sheet for Potential Release Site 51-001 Removal of Sludge, Closure of Septic System, and Characterization of Seepage Pit

Site Ranking System: 32

Erosion Matrix Score: 8.8

Operational History

Potential Release Site (PRS) 51-001 is an inactive/abandoned septic system that served buildings 11, 12, and 26 at Technical Area (TA) and is not listed in Module VIII of Los Alamos National Laboratory's (the Laboratory's) Hazardous Waste Facility Permit (EPA 1990, 1585). This PRS includes a 1000-gal. concrete septic tank (TA-51-03), drain lines, and a seepage pit (TA-51-31) (Figure 1). The seepage pit is 4 ft in diameter and 50 ft deep. The septic tank is connected to the seepage pit by a 4-in.-diameter vitrified clay pipe (VCP) buried in a trench that is 2 ft 6 in. deep. The VCP connects to a 4-in.-diameter perforated polyvinyl chloride (PVC) drop pipe that extends to within 2 ft of the bottom of the pit. The pit is backfilled with screened gravel to between 40 ft and 50 ft below ground surface (bgs).

TA-51 is the base of operations for the Experimental Engineering Test Facility (EETF), which supports research to develop effective isolation techniques for the burial of wastes in semiarid climates (LANL 1992, 7669). The EETF was built in 1980, and support offices for staff were constructed in 1986. PRS 51-001 is a septic system that served the EETF. The septic system was installed in 1988 and was decommissioned in 1993 when the sanitary sewer line was installed as part of the Laboratory's Sanitary Wastewater Systems Consolidation (SWSC) Program. A greenhouse and laboratory occupied Building TA-51-12; the building was equipped with sinks and lavatories. Building TA-51-26 has housed offices since its construction in 1986. Building TA-51-11 housed the Environmental Science Laboratory.

Previous Investigations and Chemicals of Potential Concern

The septic system was investigated during the 1995 Resource Conservation and Recovery Act facility investigation (RFI) in accordance with the Operable Unit 1148 RFI work plan (LANL 1992, 7669). However, the nature and extent of potential contamination were not determined, and the data have not been assessed or presented in an RFI report. Previous sample locations are shown in Figure 2. The analytical suite for the sludge and soil samples included gross alpha, beta, and gamma; pesticides/PCBs; cyanide; volatile organic compounds (VOCs); semivolatile organic compounds; and total metals.

Based on the analytical results and data assessment, the chemicals of potential concern (COPCs) identified during the RFI were low concentrations of two VOCs in the septic tank sludge and a tuff sample collected beneath the seepage pit. The RFI data were insufficient to determine if radionuclides are present above background levels; therefore, radionuclides remain as COPCs.

VCA Rationale

The septic system identified as PRS 51-001 is located on Department of Energy property that will remain under institutional control for the foreseeable future. It is an Environmental Restoration Project best management practice to properly manage inactive/abandoned septic systems in accordance with applicable regulatory requirements and thereby mitigate potential environmental issues that may remain if the systems are not addressed, regardless of RFI results. The septic system is located on a mesa top near the canyon edge; sludge remains in the tank. Therefore, as a final and obvious remedy, the system will either be closed in place in accordance with 20NMAC7.3, "Abandoned Sewers and On-Site Liquid Waste Management Systems," or if contaminated, the tank will be removed, drain lines plugged, and the area around the drain lines and seepage pit characterized and remediated, if necessary, to levels protective of the pathways for exposure to humans or the ecosystem.

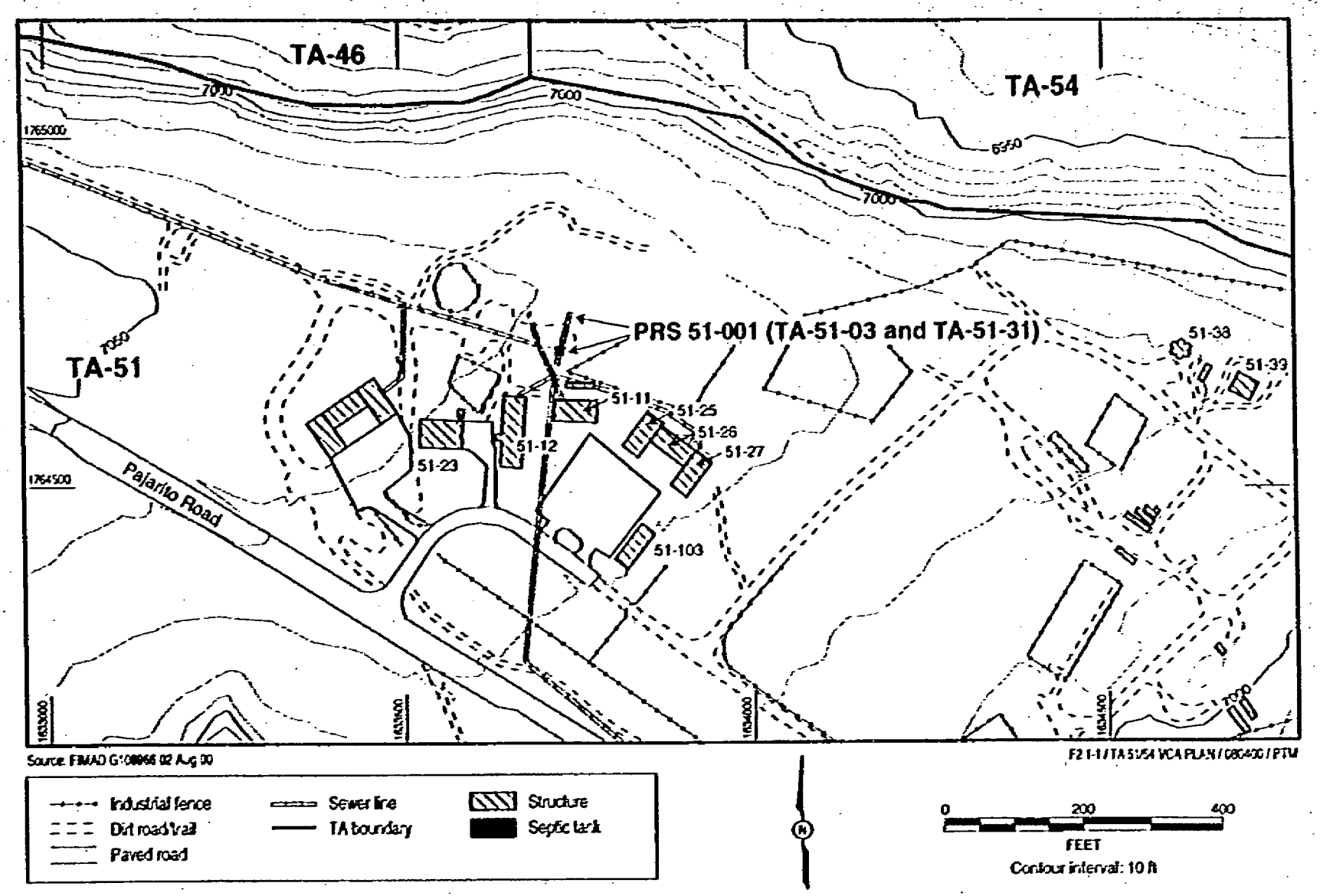


Figure 1. Location of PRS 51-001, septic system

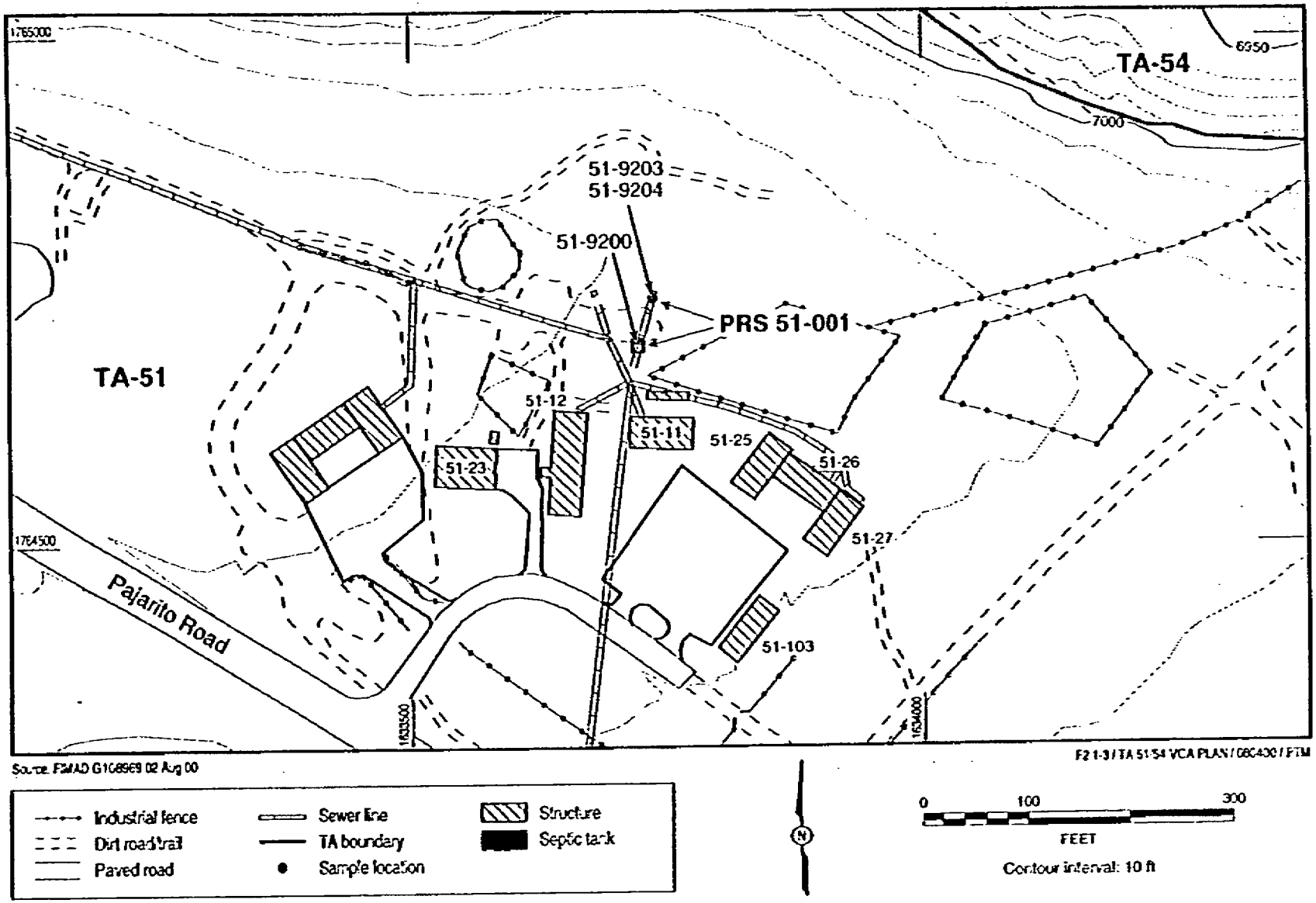


Figure 2. Sample locations for the 1995 RFI at PRS 51-001

VCA Implementation

The corrective action will involve removal of sludge and liquid remaining in the septic tank. The level of corrective action required for this septic tank will be driven by waste characterization results from the sludge remaining in the tank. If the sludge is determined to be sanitary waste only, it will be discharged to the Laboratory's SWSC. The septic tank will subsequently be closed in place and filled with gravel or another inert material and the drain lines cut, plugged, and/or capped in accordance with the Uniform Plumbing Code and Title 20 of the New Mexico Administrative Code, Chapter 7, "Wastewater and Water Supply Facilities," Part 3, "Liquid Waste Disposal" (20NMAC 7.3).

If data indicate the sludge remaining in the tank is low-level, hazardous, or mixed waste, it will be removed and placed into appropriate containers for subsequent transport and disposal through TA-54. The septic tank will be steam cleaned, if found to contain hazardous or mixed waste, broken up, sampled, transported off site, and disposed of through TA-54. Samples will be collected from the tank excavation to determine if there was a release. To supplement the RFI, additional soil sampling under the drain lines and near the seepage pit will be conducted to ensure that the nature and extent of any potential contamination is determined. Human health and ecological screening risk assessments will be conducted on analytical data from any tank excavation and characterization of the drain lines and seepage pit to determine if additional excavation of soil is required.

Site restoration will consist of filling the excavation if the septic tank is removed; recontouring disturbed areas to be consistent with natural surroundings; replacing topsoil on the recontoured areas, as required; to re-establish vegetation; and reseeding recontoured areas with native vegetation.

Anticipated Waste Types and Volumes

Five separate waste streams are anticipated from this VCA, as presented in Table 1. Wastewater from steam cleaning the tank and waste associated with the removal of any drain lines or the septic tank itself would only be generated in the event waste characterization samples indicate the presence of low-level, hazardous, or mixed waste.

Table 1
Anticipated Waste Streams

Waste Stream	Waste Type	Anticipated Volume
Concrete and other debris	Solid, potentially LLW[a]	1.5 yd^3
Septic tank sludge, water, and wastewater from steam cleaning of tank	Solid, potentially LLW	500 gal.
Contaminated soil	Solid, potentially LLW	5 yd^3
Decontamination water	Liquid, potentially LLW	25 gal.
PPE[b], plastic sheeting, disposable sampling equipment, and soil samples from seepage pit and tank excavation	Solid, potentially LLW	1 yd^3

[a] LLW = low-level waste.

[b] PPE = personal protective equipment.

Estimated Cost

If waste characterization results show that the sludge can be handled as sanitary waste, the cost of corrective activities including planning, sludge removal, tank closure in place, additional characterization

sample collection and analysis around the seepage pit, waste characterization (PPE and samples only), management and disposal, site restoration, and report preparation (including data assessment) for PRS 51-001 is estimated to be $80,000. If waste characterization results show that sludge is to be handled as hazardous, LLW, or mixed waste, the cost of corrective activities will include all activities listed above for sanitary waste in addition to tank cleaning and removal, confirmatory sample collection and analysis from the tank excavation, and possible investigation and/or removal of the drain lines bringing the estimated cost to approximately $140,000.

A contingency plan will be included in the VCA plan for the possible remediation of the drain lines and/or seepage pit in the event contaminant levels are determined to be present above acceptable levels.

Schedule

The field work portion of this VCA is expected to begin in late Fiscal Year 2000 or early Fiscal Year 2001 and take approximately three months to complete. The fieldwork includes sludge removal, the possible steam cleaning and/or removal of the septic tank, cutting and plugging of the drain lines, confirmatory sample collection and analysis, waste management, and site restoration.

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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 51-001

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.			0.0
		If yes, score 5 and proceed with section.			
Where does runoff terminate?	19	Other	Bench Setting	Drainage/Wetland	0.0
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.			0.0
**Select either structures or natural drainages.*					
MAX. POSSIBLE EROSION MATRIX SCORE:	100			**Total Score**	8.8

Report Printed 8/22/01 9:40:52 AM.

Los Alamos National Laboratory
SURFACE WATER
SITE ASSESSMENT

SITE INFORMATION

1a) PRS Number: 51-001 | 1b) Structure Number: 51-11 | 1c) FMU Number:

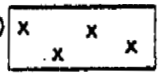
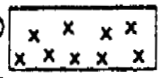
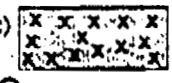
2. Date/Time (M/D/Y H:M am/pm): 5/5/00

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: Septic system located behind (51-11).

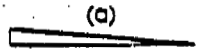
4. Estimated ground and/or canopy cover at site: (deciduous leaves, pine needles, rocks, vegetation, trees.

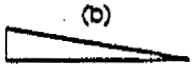
(Illustration) (a)  (b)  (c) 

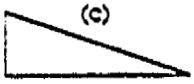
Estimated % of ground/canopy cov ( ) 0% to 25% (●) 25% to 75% ( ) 75% to 100%

Explanation: Mixed grasses and soil.

5. Steepest slope at the area impacted:

(a)  (●) Less than 10%

(b)  ( ) 10% to 30%

(c)  ( ) 30% and greater

Explanation: Mostly flat with gentle slope toards the north.

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: None observed.

RUNOFF FACTORS, CONT'D

6b) Where does evidence of runoff terminate?

- ○ Drainage or wetland (name) Canada del Buey
- ○ Within bench of canyon setting (name)
- ○ Other (i.e., retention pond, meadow, mesa top)

Explanation:

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: No structural impact.

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

Explanation: No operational impact.

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

Explanation: No upslope drainage.

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: ☑

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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:

Los Alamos National Laboratory

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

Surface Water Assessment
Erosion Matrix for PRS 54-007(d)

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	9.5
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.			0.0
**Select either structures or natural drainages.*					
MAX. POSSIBLE EROSION MATRIX SCORE:	100			**Total Score**	23.3

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Los Alamos National Laboratory
SURFACE WATER
SITE ASSESSMENT

SITE INFORMATION

1a) PRS Number: 54-007(d) 1b) Structure Number: 54-7 1c) FMU Number: 04

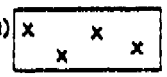
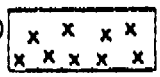
2. Date/Time (M/D/Y H:M am/pm): 5/3/00

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: Septic distribution box located outside fence, north of building. Could not locate outfall (if it exists).

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

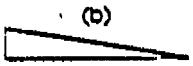
(Illustration) (a)  (b)  (c) 

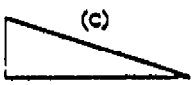
Estimated % of ground/canopy cov ( ) 0% to 25% (•) 25% to 75% ( ) 75% to 100%

Explanation: Mostly native vegetation with mix of grasses, shrubs and pinon pine.

5. Steepest slope at the area impacted:

(a)  (•) Less than 10%

(b)  ( ) 10% to 30%

(c)  ( ) 30% and greater

Explanation: Mostly flat with gentle slope to the north.

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: Swales existing around site, but no channelization observed.

RUNOFF FACTORS, CONT'D

6b) Where does evidence of runoff terminate?

- ○ Drainage or wetland (name) Canada del Buey
- ◉ Within bench of canyon setting (name) bench or swales
- ○ Other (i.e., retention pond, meadow, mesa top)

Explanation: Runoff appears to terminate within the swales or bench above the canyon.

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: No structural impact.

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

Explanation: No operational impact.

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

Explanation: No upslope drainage.

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 8/22/01 9:41:08 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:

Appendix D

Ecological Scoping Checklist

D-1.0 Ecological Scoping Checklist for Potential Release Site 51-001

Part A—Scoping Meeting Documentation

Site ID	PRS 51-001
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.	Liquid discharge to leach field; potential leakage from underground septic tank
List of Primary Impacted Media Indicate all that apply.	Surface soil – Surface water/sediment – Subsurface – Yes Groundwater – Other, explain –
FIMAD vegetation class based on Arcview vegetation coverage Indicate all that apply.	Water – Bare ground/unvegetated – Spruce/fir/aspen/mixed conifer – Ponderosa pine – Piñon juniper/juniper savannah – Grassland/shrubland – Developed – Yes
Is threatened and endangered (T&E) species habitat present? If applicable, list species known or suspected that use the site for breeding or foraging.	No
Provide a list, of neighboring/contiguous/ upgradient sites; include a brief summary of COPCs and the form of releases for relevant sites, and reference a map, as appropriate. Use this information to evaluate the need to aggregate sites for screening.	None
Surface Water Erosion Potential Information Summarize information from the standard operating procedure 2.01, including the runoff subscore (maximum of 46), terminal point of surface water transport, slope, and surface water run-on sources.	Not available
Other Scoping Meeting Notes	

Part B—Site Visit Documentation

Site ID	51-001
Date of Site Visit	7/21/00
Site Visit Conducted by	Lars Soholt, John Hopkins

Receptor Information

Estimate Cover	Relative vegetative cover (high, medium, low, none) = none to low Relative wetland cover (high, medium, low, none) = Relative structures/asphalt, etc. cover (high, medium, low, none) = high cover of disturbed and gravel-covered ground, transportable structures, heavy equipment storage
Field Notes on the FIMAD Vegetation Class to Assist in Ground-Truthing the Arcview Information	The area lies within the developed portion of TA-51, which lies within native piñon juniper woodland association.
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.	Virtually no significant habitat for foraging and none for nesting
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. There are scattered grasses and shrubs. The site dominated by disturbed ground from vehicular traffic, the leach field is covered with gravel, and transportable storage units and heavy equipment are stored on the surface of the leach field. The habitat is very poor at the site of the VCA but improves to mature piñon-juniper as one moves away to the north. Signs of animal activity such as elk scat and gopher burrowing indicate that the area is used by wildlife but probably mostly as a movement corridor. It is a low-quality forage and nesting habitat. However, signs of wildlife are restricted to the immediate area around the septic tank. The surface over the leach field is covered with gravel, and little or no vegetation is growing in it.

Contaminant Transport Information

Surface Water Transport Field notes should summarize the erosion potential, including a discussion of the terminal point of surface water transport, if applicable.	The area is relatively flat, and drainages around buildings tend to divert any run-on. Water may pool somewhat in the area. Because potential releases would be subsurface, surface transport at this site is not applicable.
Are there any off-site transport pathways (surface water, air, or groundwater)? (yes/no/uncertain)	No. The releases would have been subsurface but too shallow to reach the regional aquifer. There is no known shallower groundwater in this area.
Is an interim action (IA) needed to limit off-site transport? (yes/no/uncertain) Provide explanation/ recommendation for IA to project lead.	No

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 is highly disturbed by vehicle traffic, storage, and a layer of gravel over much of the leach field.
Are there obvious ecological effects? (yes/no/uncertain) Provide an explanation and apparent cause (e.g., contamination, physical disturbance, other).	Heavy physical disturbance
IA needed to limit apparent ecological effects? (yes/no/uncertain) Provide explanation and recommendations for IA to mitigate apparent exposure pathways to project lead.	No

No Exposure/Transport Pathways

If there are no complete exposure pathways to ecological receptors on site and no transport pathways to off-site receptors, the remainder of the checklist should not be completed. Stop here and provide additional explanation/justification for proposing an ecological No further action recommendation (if needed). At a minimum, the potential for future transport should include the likelihood that future construction activities could make contamination more available for exposure or transport.

Subsurface releases in very poor-quality habitat indicate that no complete pathways exist because of lack of significant receptors.

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).	
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 be aggregated to characterize potential ecological risk).	

Additional Field Notes

Provide additional field notes on the site setting and potential ecological receptors.

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): Likely

Provide explanation:

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):

Provide explanation:

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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 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):

Provide explanation:

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):

Provide explanation:

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):

Provide explanation:

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):

Provide explanation:

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:

Terrestrial Animals:

Provide explanation:

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:

Terrestrial Animals:

Provide explanation:

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:

Provide explanation:

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:

Provide explanation:

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 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:

Provide explanation:

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:

Provide explanation:

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:

Terrestrial Animals:

Provide explanation:

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:

Provide explanation:

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:

Provide explanation:

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:

Provide explanation:

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:

Provide explanation:

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:

Terrestrial Animals:

Provide explanation:

Question S

Could contaminants bioconcentrate in free floating aquatic plants, attached aquatic plants, or emergent vegetation?

- Aquatic plants are in direct contact with water.
- Contaminants in sediment may partition into pore water, making them available to submerged roots.

Provide quantification of exposure pathway (0 = no pathway, 1 = unlikely pathway, 2 = minor pathway, 3 = major pathway):

Aquatic Plants/Emergent Vegetation:

Provide explanation:

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:

Provide explanation:

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:

Provide explanation:

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):

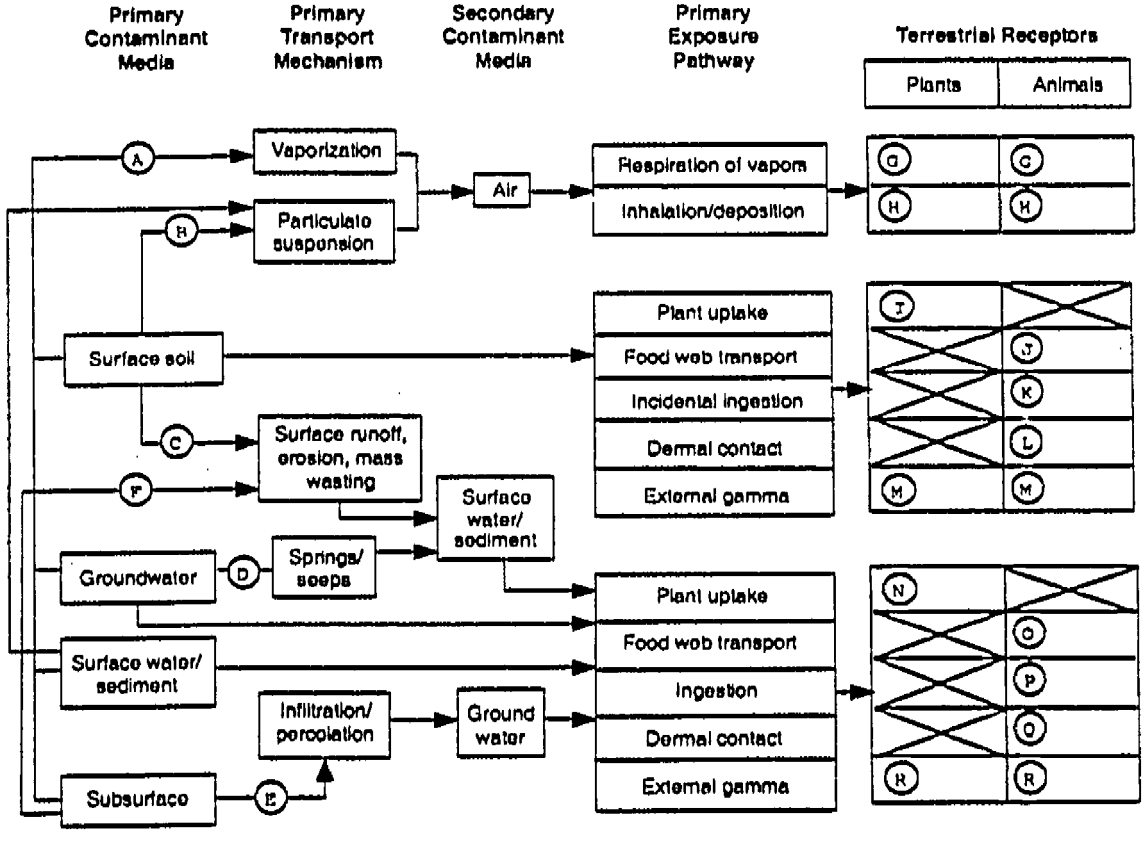
Aquatic Plants:

Aquatic Animals:

Provide explanation:

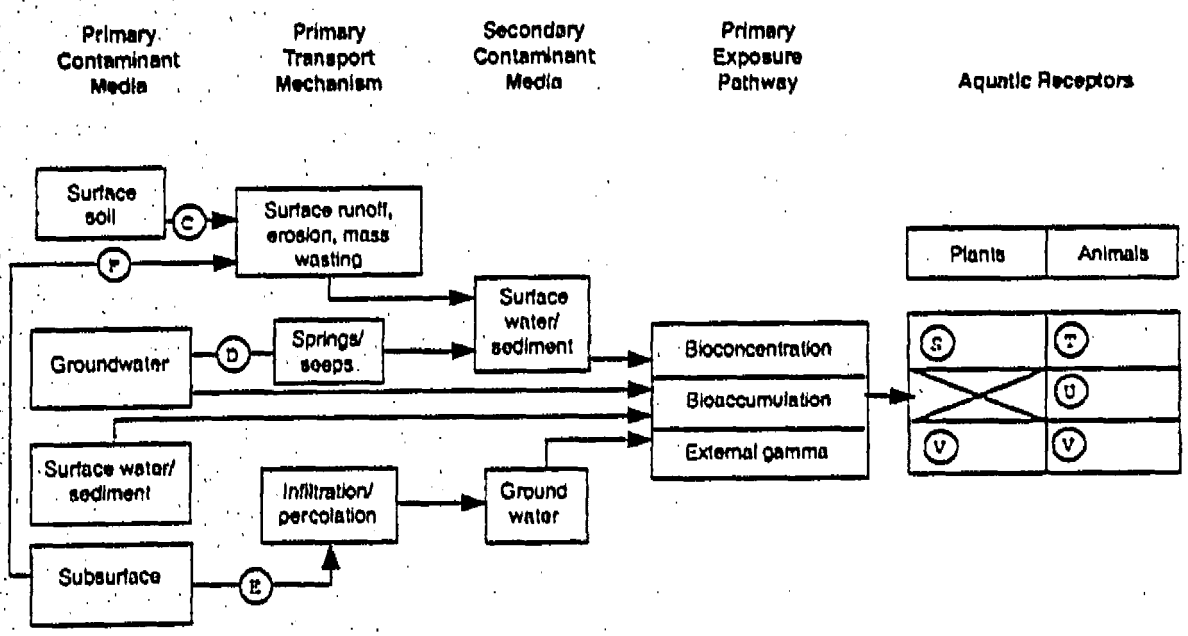
Ecological Scoping Checklist
Terrestrial Receptors
Ecological Pathways Conceptual Exposure Model

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): Lars Soholt, Ph.D.

Name (signature): [signature]

Organization: LANL E/ER

Phone number: 505/667-2256

Date completed:

Verification by a member of ER Project Ecological Risk Task Team (provide name, organization and phone number):

Name (printed): Richard Mirenda, Ph.D.

Name (signature): [signature]

Organization: LANL EES-13

Phone number: 505/665-6953

D-2.0 Ecological Scoping Checklist for Potential Release Site 51-007(d)

Part A—Scoping Meeting Documentation

Site ID	PRS 54-007(d)
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.	Liquid discharge to leach field; potential leakage from underground septic tank and lines
List of Primary Impacted Media Indicate all that apply.	Surface soil – Surface water/sediment – Subsurface – Yes Groundwater – Other, explain –
FIMAD vegetation class based on Arcview vegetation coverage Indicate all that apply.	Water – Bare Ground/Unvegetated – Spruce/fir/aspen/mixed conifer – Ponderosa pine – Piñon juniper/juniper savannah – Yes Grassland/shrubland – Developed – Yes
Is threatened and endangered (T&E) species habitat present? If applicable, list species known or suspected that use the site for breeding or foraging.	No
Provide a list, of neighboring/contiguous/ upgradient sites; include a brief summary of COPCs and the form of releases for relevant sites, and reference a map, as appropriate. Use this information to evaluate the need to aggregate sites for screening.	None
Surface Water Erosion Potential Information Summarize information from the standard operating procedure 2.01, including the runoff subscore (maximum of 46), terminal point of surface water transport, slope, and surface water run-on sources.	Not available
Other Scoping Meeting Notes	

Part B—Site Visit Documentation

Site ID	54-007(d)
Date of Site Visit	7/21/00
Site Visit Conducted by	Lars Soholt, John Hopkins

Receptor Information

Estimate Cover	Relative vegetative cover (high, medium, low, none) = low to high Relative wetland cover (high, medium, low, none) = none Relative structures/asphalt, etc. cover (high, medium, low, none) = low to medium cover of dirt road and disturbance
Field Notes on the FIMAD Vegetation Class to Assist in Ground-Truthing the Arcview Information	The area lies adjacent to a developed part of TA-54, which lies within native piñon/juniper woodland association.
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.	No T&E species were identified in this area in the ESHID process.
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. Mixed grasses and forbs around septic tank with some disturbance and gopher activity provide some foraging habitat. Over the leach field, a rich and dense piñon/juniper community has developed. Signs of passerines and gopher burrowing and the richness of the leach field community indicate wildlife usage of the area. No aquatic communities occur here or nearby.

Contaminant Transport Information

Surface Water Transport Field notes should summarize the erosion potential, including a discussion of the terminal point of surface water transport, if applicable.	Drainage is toward the north, to the leach field. Runoff could terminate at the road or in the leach field just beyond the road.
Are there any off-site transport pathways (surface water, air, or groundwater)? (yes/no/uncertain)	No. The releases would have been subsurface but too shallow to reach the regional aquifer. There is no known shallow groundwater in this area. The leach field might contain saturated media occasionally when septic tank fills with storm water and overflows into the drain pipe.
Is an interim action (IA) needed to limit off-site transport? (yes/no/uncertain) Provide explanation/ recommendation for IA to project lead.	No

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 is moderately disturbed by vehicle traffic.
Are there obvious ecological effects?	Moderate physical disturbance near the septic tank itself

(yes/no/uncertain) Provide an explanation and apparent cause (e.g., contamination, physical disturbance, other).	
IA needed to limit apparent ecological effects? (yes/no/uncertain) Provide explanation and recommendations for IA to mitigate apparent exposure pathways to project lead.	No

No Exposure/Transport Pathways:

If there are no complete exposure pathways to ecological receptors on site and no transport pathways to off-site receptors, the remainder of the checklist should not be completed. Stop here and provide additional explanation/justification for proposing an ecological No further action recommendation (if needed). At a minimum, the potential for future transport should include the likelihood that future construction activities could make contamination more available for exposure or transport.

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).	Characterization will be carried out to define VCA waste streams to confirm that cleanup has occurred or that no releases occurred.
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 be aggregated to characterize potential ecological risk).	See above

Additional Field Notes

Provide additional field notes on the site setting and potential ecological receptors.

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: Releases would be subsurface in this case; volatile chemicals would be released only slowly if at all through the ground surface.

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: Releases are subsurface.

Question C

Can contaminated soil be transported to aquatic ecological communities (use SOP 2.01 run-off score and terminal point of surface water runoff to help answer this question)?

- **If the SOP 2.01 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: No aquatic receptors occur in this area.

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: No springs occur in the area.

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: The depth to regional aquifer and low rainfall in the area are not likely to preclude movement of contamination to that aquifer. No shallow groundwater is known to occur here.

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: Site is well removed from mesa edges and not subject to mass wasting. Erosion potential is low, although this site has not been scored for erosion potential.

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: 2

Provide explanation: Limited exposure for burrowing animals in the leach field could occur.

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: 0

Terrestrial Animals: 0

Provide explanation: Releases would be subsurface and not susceptible to aerial entrainment.

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: Roots could extend down into the leach field and take up some contaminants of concern.

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: 0

Provide explanation: No bioaccumulators were detected.

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 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: 0

Provide explanation: Releases would be in the subsurface.

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: 0

Provide explanation: No strong dermal absorbing compounds were detected.

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: Releases would be subsurface.

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: Subsurface releases with no aquatic habitat present

Question O

Could contaminants interact with receptors through food web transport from water and sediment?

- **The chemicals may bioconcentrate in food items.**
- **Animals may ingest contaminated food items.**

Provide quantification of exposure pathway (0 = no pathway, 1 = unlikely pathway, 2 = minor pathway, 3 = major pathway):

Terrestrial Animals: 0

Provide explanation: No aquatic habitat present

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: No aquatic habitat is present. Releases would be subsurface.

ROCKY FLATS PLANT

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: No strong dermal absorbers detected

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: Releases would be subsurface.

Question S

Could contaminants bioconcentrate in free-floating aquatic plants, attached aquatic plants, or emergent vegetation?

- Aquatic plants are in direct contact with water.
- Contaminants in sediment may partition into pore water, making them available to submerged roots.

Provide quantification of exposure pathway (0 = no pathway, 1 = unlikely pathway, 2 = minor pathway, 3 = major pathway):

Aquatic Plants/Emergent Vegetation: 0

Provide explanation: No aquatic habitat present

Question T

Could contaminants bioconcentrate in sedimentary or water column organisms?

- Aquatic receptors may actively or incidentally ingest sediment while foraging.
- Aquatic receptors may be directly exposed to contaminated sediments or may be exposed to contaminants through osmotic exchange, respiration, or ventilation of sediment pore waters.
- Aquatic receptors may be exposed through osmotic exchange, respiration, or ventilation of surface waters.

Provide quantification of exposure pathway (0 = no pathway, 1 = unlikely pathway, 2 = minor pathway, 3 = major pathway):

Aquatic Animals: 0

Provide explanation: No aquatic habitat present

Question U

Could contaminants bioaccumulate in sedimentary or water column organisms?

- Lipophilic organic contaminants and some metals may concentrate in an organism's tissues.
- Ingestion of contaminated food items may result in contaminant bioaccumulation through the food web.

Provide quantification of exposure pathway (0 = no pathway, 1 = unlikely pathway, 2 = minor pathway, 3 = major pathway):

Aquatic Animals: 0

Provide explanation: No aquatic habitat present

Question V

Could contaminants interact with aquatic plants or animals through external irradiation?

- External irradiation effects are most relevant for gamma-emitting radionuclides.
- The water column acts to absorb radiation; 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):

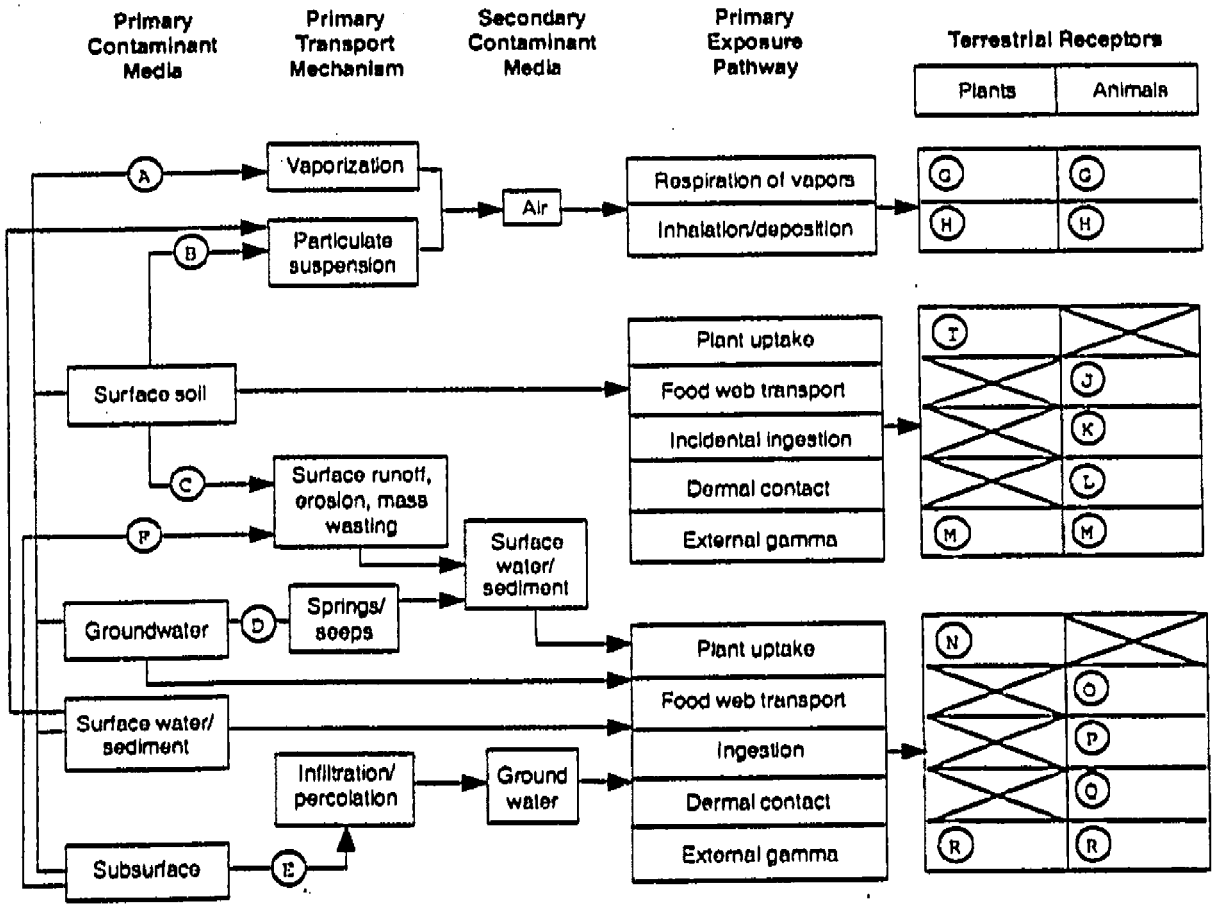
Aquatic Plants: 0

Aquatic Animals: 0

Provide explanation: No aquatic habitat present

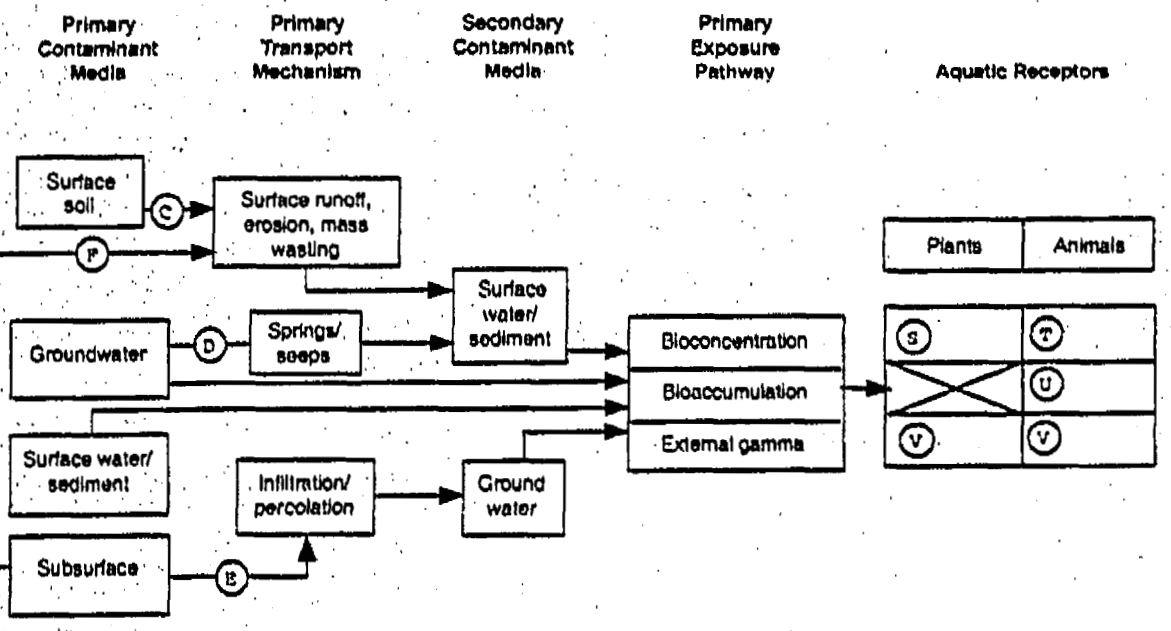
Ecological Scoping Checklist
Terrestrial Receptors
Ecological Pathways Conceptual Exposure Model

NOTE:
Letters in circles refer to questions on the scoping checklist



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): Lars Soholt, Ph.D.

Name (signature):

Organization: LANL E/ER

Phone number: 505/667-2256

Date completed: 7/27/00

Verification by a member of ER Project Ecological Risk Task Team (provide name, organization and phone number):

Name (printed): Richard Mirenda, Ph.D.

Name (signature):

Organization: LANL EES-13

Phone number: 505/665-6953

Appendix E

Estimated Costs

The Environmental Restoration Project baseline cost estimate for removing these two septic tanks is $220,000. The estimate does not include the cost for removal of the seepage pit and drain field.

Appendix I

Photographs

APPENDIX I PHOTOGRAPHS

Figures I-1 through I-3 show voluntary corrective action (VCA) activities at Potential Release Site (PRS) 51-001. Figures I-4 and I-5 show VCA activities at PRS 54-007(d).

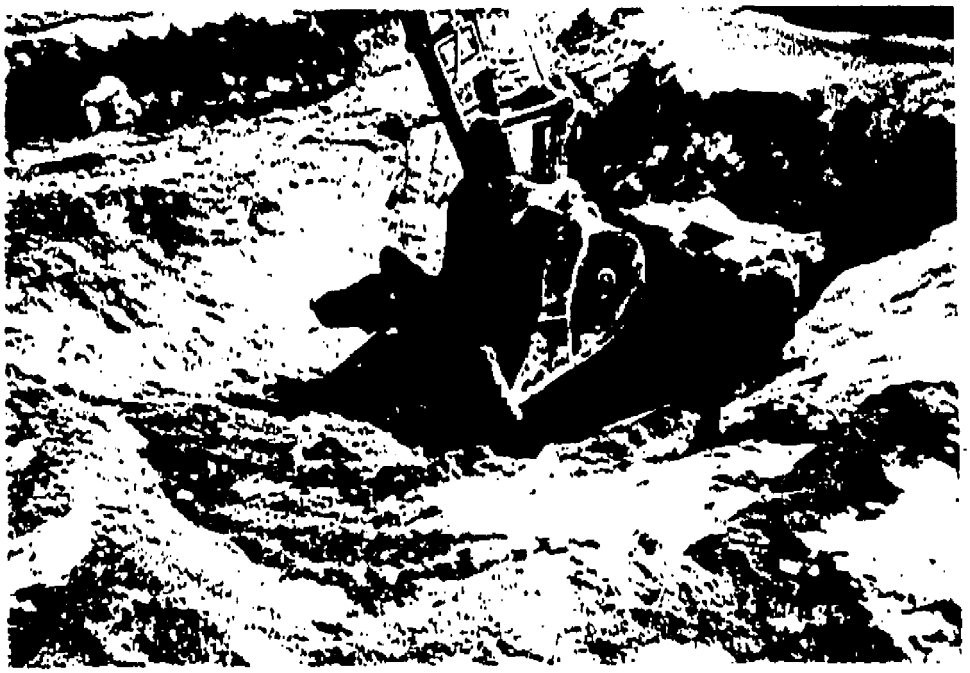


Figure I-1. South view of tank removal at PRS 51-001



Figure I-2. View of tank interior after high-pressure wash at PRS 51-001



Figure I-3. North view of drilling operations at PRS 51-001



Figure I-4. Stage of septic tank break up in place at PRS 54-007(d)



Figure I-5. View of the removed septic tank at PRS 54-007(d)

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Appendix J

Borehole Logs

APPENDIX J BOREHOLE LOGS

Los Alamos National Laboratory
Environmental Restoration Project
Borehole Log for PRS 51-001

Borehole Number: 51-10000	Coordinates: N 1764750.276 E 1633733.286	Page: 1 of 1
Elevation: 7040.295		
Engineer/Geologist: Randy Johnson	Groundwater level: n/a	Date Started: 2-13-01
Drilling Methods: LANL ER-SOP-6.24, LANL ER-SOP-12.01		Date Completed: 2-13-01

Depth (ft)	Sample Type and Number	Run Interval	Recovery (%)	Description	USCS Symbol	Lithologic Symbol	Remarks
0	n/a	1	100	Silts and clay, dry, light brown, soil/tuff interface at 3 ft	CL		Silts and clay
	n/a	1	100	Tuff, non welded, nonweathered, 25% phenocrysts, 15% lithic, light gray, dry, crushed, 10R7/1	Tuff		Qbt 3a
	n/a	2	100	Tuff, nonwelded, nonweathered, 25% phenocrysts, 15% lithic, light gray, dry, crushed, 10R7/1, minor roots and clay	Tuff		Qbt 3a
10	n/a	3	100	Tuff, nonwelded, nonweathered, 25% phenocrysts, 15% lithic, light gray, dry, crushed, 10R7/1	Tuff		Qbt 3a
	n/a	4	100	Tuff, nonwelded, nonweathered, 25% phenocrysts, 20% lithic, light gray, dry, crushed, 10R7/1	Tuff		Qbt 3a
20	n/a	5	100	Tuff, nonwelded, nonweathered, 25% phenocrysts, 15% lithic, light gray, dry, crushed, 10R7/1, sanadine present, 2-3mm in size	Tuff		Qbt 3a
	n/a	6	100	Tuff, nonwelded, nonweathered, 25% phenocrysts, 15% lithic, light gray, dry, crushed, 10R7/1, sanadine present, 2-3mm in size	Tuff		Qbt 3a
30	n/a	7	100	Tuff, nonwelded, nonweathered, 25% phenocrysts, 15% lithic, light gray, dry, crushed, 10R7/1, sanadine present, 2-3mm in size	Tuff		Qbt 3a
	n/a	8	100	Tuff, nonwelded, nonweathered, 25% phenocrysts, 15% lithic, light gray, dry, crushed, 10R7/1, sanadine present, 2-3mm in size	Tuff		Qbt 3a
40	n/a	9	100	Tuff, nonwelded, nonweathered, 25% phenocrysts, 15% lithic, light gray, dry, crushed, 10R7/1, sanadine present, 2-3mm in size	Tuff		Qbt 3a
	n/a	10	100	Tuff, nonwelded, nonweathered, 30% phenocrysts, <5% lithic, 0% pumice, light gray, dry, crushed, 10R7/1, clay layers and staining moist, gray areas dry	Tuff		Qbt 3a
	MD51-01-0001	11	100	Tuff, nonwelded, nonweathered, 30% phenocrysts, <5% lithic, 10% pumice, light gray, dry, crushed, 10R7/1, clay layers and staining moist, gray areas dry	Tuff		Qbt 3a
50	n/a	12	100	Tuff, nonwelded, nonweathered, 30% phenocrysts, <5% lithic, 10% pumice, light gray, dry, crushed, 10R7/1, clay layers and staining moist, gray areas dry	Tuff		Qbt 3a
	n/a	13	100	Tuff, nonwelded, nonweathered, 30% phenocrysts, <5% lithic, 10% pumice, light gray, dry, crushed, 10R7/1, clay layers and staining moist, gray areas dry, large dacite lithic at 58.5 ft and rootlets at 57.5 ft	Tuff		Qbt 3a
60	MD51-02-0002 MD51-02-0017	14	100		Tuff		Qbt 3a

Total depth 60.0 ft

n/a = not applicable
USCS = Unified Soil Classification System
CL = Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays

Los Alamos National Laboratory
Environmental Restoration Project
Borehole Log for PRS 51-001

Borehole Number: 51-10001	Coordinates: N 1764747.62, E 1633743.382	Page: 1 of 1
Elevation: 7040.666		
Engineer/Geologist: Randy Johnson	Groundwater level: n/a	Date Started: 2-13-01
Drilling Methods: LANL ER-SOP-6.24, LANL ER-SOP-12.01		Date Completed: 2-13-01

Depth (ft)	Sample Type and Number	Run Interval	Recovery (%)	Description	USCS Symbol	Lithologic Symbol	Remarks
0	n/a	1	100	Silts and clay, dry, light brown, soil/tuff interface at 3 ft	CL		Silts and clay
	n/a	2	100	Weathered tuff, 5YR5/4, dry	Tuff		Qbt 3a
10	n/a	3	100	Tuff, 25% phenocryst, 15% lithic, no pumice, 10R7/1 light gray	Tuff		Qbt 3a
	n/a	4	100	Tuff, 25% phenocryst, 15% lithic, no pumice, 10R7/1 light gray	Tuff		Qbt 3a
20	n/a	5	100	Slightly welded tuff, 25% phenocryst, 20% vitrified pumice, <5% lithic, 10R7/1 light gray, dry	Tuff		Qbt 3a
	n/a	6	100	Slightly welded tuff, 25% phenocryst, 20% vitrified pumice, <5% lithic, 10R7/1 light gray, dry	Tuff		Qbt 3a
30	n/a	7	100	Slightly welded tuff, 25% phenocryst, 20% vitrified pumice, <5% lithic, 10R7/1 light gray, dry	Tuff		Qbt 3a
	n/a	8	100	Slightly welded tuff, 25% phenocryst, 20% vitrified pumice, <5% lithic, 10R7/1 light gray, dry	Tuff		Qbt 3a
40	n/a	9	100	Slightly welded tuff, 25% phenocryst, 20% vitrified pumice, <5% lithic, 10R7/1 light gray, dry	Tuff		Qbt 3a
	n/a	10	100	Slightly welded tuff, 25% phenocryst, 20% vitrified pumice, <5% lithic, 10R7/1 light gray, dry	Tuff		Qbt 3a
	MD51-01-0003	11	100	Slightly welded tuff, 25% phenocryst, 20% vitrified pumice, <5% lithic, 10R7/1 light gray, dry, fracture at 47.5 with rootlets	Tuff		Qbt 3a
50	n/a	12	100	Slightly welded tuff, 25% phenocryst, 20% vitrified pumice, <5% lithic, 10R7/1 light gray, dry	Tuff		Qbt 3a
	n/a	13	100	Slightly welded tuff, 25% phenocryst, 20% vitrified pumice, <5% lithic, 10R7/1 light gray, dry	Tuff		Qbt 3a
	MD51-01-0004	14	100	Slightly welded tuff, 30% phenocryst, 10% devitrified pumice, <5% lithic, 7.5YR7/1 light gray, dry	Tuff		Qbt 3a
60							Total depth 60.0 ft

n/a = not applicable
USCS = Unified Soil Classification System
CL = Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays

NON-ENFORCEMENT

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